



Short Form **CATALOGUE**

06.2009



Short Form  
CATALOGUE  
2009



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## PERFORMANCE IN LIGHTING: A UNIQUE COMPANY

Performance in Lighting has been formed from the merger of a number of well known and established technical lighting companies, each tried and trusted in their own right. Recognised for its unique professional approach and technical know-how, Performance in Lighting has combined its experience and technical expertise to become an international leader in their field.

Performance in Lighting produce high quality engineered products, designed to provide a vast array of lighting solutions to satisfy even the most demanding of projects.

Our products are sold under the brand names **“Prisma Architectural”**, **“SBP”**, **“SBP Urban Lighting”**, **“Prisma”**, **“Klewe”** and **“Lightis”** each having their own attributes and solutions to design and lighting.



## THE DISTRIBUTION NETWORK

Performance in Lighting has a wide sales and distribution network, operating throughout Italy and the rest of the world through agents, branches and subsidiaries.

Besides having an important position in the Italian market, it also exports over 50% of its products to more than 90 countries worldwide.

The Performance in Lighting branches; Netherlands, Spain, United Kingdom, Germany, France, Belgium, Portugal, USA and China are actively promoting and selling the Group brands.



## THE BRANDS



**Prisma Architectural** is a collection of design-led indoor and outdoor lighting products with innovative features, manufactured from high quality materials. Offering a comprehensive range of wall and ceiling mounted luminaires, post top, in-ground and urban chic lighting.





**SBP** are known for their technical high performance outdoor lighting for sports applications, public area, street lighting, interior / exterior industrial lighting and architectural accent lighting.





**SBP Urban Lighting** offers a collection of luminaires specifically designed for public area and street lighting. With a wide range of optics and lamp types combined with photometrics designed to comply with the latest recommendations for glare control and upward light pollution.





**PRISMA**<sup>®</sup>

**Prisma logic** offers a comprehensive, commercial and residential, family range of indoor and outdoor products, aesthetically designed and competitively priced.

**KLEWE**<sup>®</sup>

**Klewe** is a range of garden, residential lighting, and accent lighting competitively priced with contemporary designs.





Lightis offers a range of commercial and industrial fluorescent lighting with functional design and technical features for a variety of applications.

FLOODLIGHTS



| 5Stars 1000 12 | Skys 14 | Horo 16 | Laser 18 | Ray 20

High performance - High power

ACCENT LIGHT ARCHITECTURAL



| Lyn4 TopLED 42 | Lyn4 SideLED 46 | Lyn23 48 | Cricket 168 - RAD 50-52 | Cricket 16 - 26 54-56 | Cricket 21 58

Recessed in ground LED

Recessed in ground

SUBMERSIBLE



| Uwf 10 - 22 78-80

URBAN



| Kha 82

| KhaSlim 84

| Hedo 86

INDUSTRIAL LIGHTING and SPECIAL APPLICATION



| Esperia HID 88

| Esperia 92

| LF4 94

| LF8 98

| Ike 102

| RF7 104

PENDANT



| Lama Quick 106

| Lama 33 106

| Lama 08 106

| Archis 14 108

| Archis 15 - 16 110-112





High Performance & Design

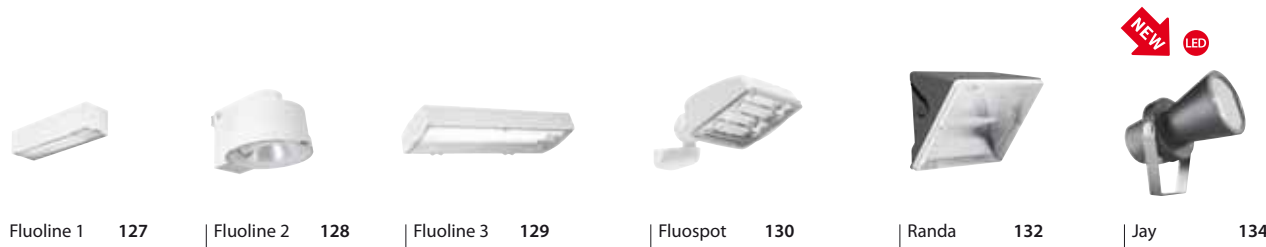
Multi-functional



PUBLIC LIGHTING - URBAN



MULTI-FUNCTIONAL



- List of available lamps 138
- List of product codes 140
- Fittings supplied complete with lamp 146
- Guarantee conditions 152

## PRODUCTS, STANDARDS AND USE

### STANDARDS

SBP products are manufactured under UNI EN ISO 9001 certified quality assurance system, in conformity with European norms EN 60598-1 (CEI 34-21) and in conformity with the European directives L.V. 73/23 CEE and 93/68 CEE-EMC 89/336 CEE. They are CE marked and can freely circulate throughout the European Union.

### GUARANTEE

SBP products are guaranteed for a period of two years (see page 152).

### VOLTAGE & OPERATION

Fittings are wired for a main supply of 230V/50Hz and have a power factor of  $\cos\phi \geq 0,9$  unless otherwise indicated. Other options available on request.

To ensure longevity of lamp and control gear with optimum operation of fittings we recommend:

- Installation is made by qualified personnel only.
- Mounting instructions are carefully read and followed with particular attention to its intended use and purpose; ambient temperature, recommended installation, mains supply voltage, operating positions and distance from illuminated object.
- Regular maintenance schedules are followed, especially with regards to lamp replacement and electrical components at the end of their life.

### CHEMICAL COMPATIBILITY

It is important to consider the compatibility between the materials from which a product is manufactured and the reaction from chemicals present within the atmosphere of the environment they are to be installed. See table of standard SBP materials against a comprehensive list of chemicals.

### GLASS COVERS

The glass installed in our fittings is toughened "safety" glass and if broken it will fracture into small blunt relatively "safe" pieces.

The toughened glass is produced in a high quality glassworks under automatic and constantly controlled production methods. SBP regularly audit and conduct fragmentation test as part of their quality control prior to any installation. However it not possible to guarantee glass un-breakable, due to its nature and production methods, breakage can occur in exceptional cases (approx. 0.3%) during the first few hour of operation.

When installing the medium to large diameter fittings in open public areas the use of a safety grill, available as an accessory, is recommended.

### LIGHT POLLUTION

The requirement to reduce light pollution is increasing and is foremost on the agenda with many local authorities who have regulations that may differ regionally. Therefore it has become necessary for all parties involved with the installation of equipment to ensure that the fittings are suitable for the intended application and comply with the local regulations in force. SBP has a wide range of products and the design experience to assist in meeting such regulations.

### CHEMICAL COMPATIBILITY


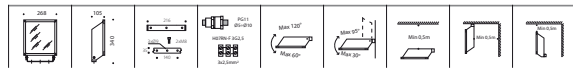



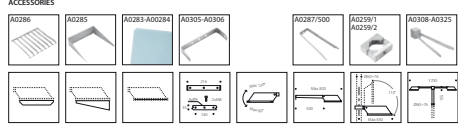
● Resistant    ◐ Partially resistant    ○ None resistant

	Stainless steel	Alluminium AL	Polyamid PA	Methacrylate PMMA	Polycarbonat PC
Acetone	●	●	●	○	◐
Ethyl acetate	●	●	●	○	○
Arsenic acid		○		●	●
Acetic acid ≤ 30%	○	●	○	◐	◐
Bromic acid	●	○	○	○	○
Hydrochloric acid ≤ 20%	○	○	○	●	●
Citric acid ≤ 20%	◐	◐	◐	●	●
Formic acid ≤ 30%	◐	○	○	◐	◐
Nitric acid ≤ 20%	◐	◐	○	◐	◐
Sulphuric acid ≤ 50%	○	○	○	●	●
Sea climate	◐	◐	◐	●	●
Sodium chloride solution	●	●	◐	●	●
Hydrogen dioxide ≤ 40%	●	●	○	○	◐
Alcohol ≤ 30%	●	◐	●	●	●
Ethyl alcohol	●	●	●	◐	●
Isopropyl acid	●	◐	●	○	◐
Ammonia ≤ 25%	●	●	◐	●	◐
Carbon dioxide	●	●	◐	●	●
Aniline	●	●	○	○	○
Benzene	●	◐	●	○	○
Gasoline	●	●	●	●	●
Ketones	●	●		○	○
Chlorine (vapours)	○	●	○	◐	◐
Chloroform	◐	○	○	○	○
Chlorophenol	●	●		○	○
Methyl chloride	●	◐	○	○	○
Calcium chloride	◐	●	○	●	●
Oil of turpentine	◐	●	●	◐	○
Ether	◐	●	●	○	○
Oil Ether	●	●	●	●	◐
Phenols	●	◐	○	○	○
Glycerol	●	●	●	●	◐
Animal fats	●	●	●	◐	○
Vegetal fats	●	●	●	◐	○
Synthetic lyes	●	●	○	●	◐
Methanol	●	◐	◐	○	○
Mineral oil	●	●	●	●	○
Vegetable oil	●	●	●	●	◐
Silicone oil	●	●	●	◐	●
Carbon monoxide	●	●	●	●	●
Ozone	●	●	○	●	◐
Soda	◐	◐	○	●	●
Caustic soda ≤ 2%	●	○	○	●	○
Caustic soda ≤ 10%	●	○	○	●	○
Aluminium sulphate	●	●	●	●	●
Copper sulphate	●	●	◐	◐	●
Hydrogen sulphide	●	●	●	●	●
Carbon tetrachloride	○	●	●	○	○
Toluene	●	●	●	○	◐
Trichloroethylene	○	●	◐	○	○
Xylol	●	●	●	○	○



COLOURS

- 80 BLACK RAL 9005
- 90 LIGHT GREY RAL 7035
- 04 STAINLESS STEEL
- 40 Natural BRONZE
- 81 MATT BLACK similar to RAL 9005
- 94 ALUMINIUM GREY similar to RAL 9006
- 11 Extruded anodized ALUMINIUM
- 50 COPPER
- 85 WHITE RAL 9010
- 96 MATT GREY similar to RAL 7039


PRODUCT NAME	DESCRIPTION	TECHNICAL AND UTILIZATION DATA																																																																									
<p><b>WIN 01</b></p>  <p><b>FLOODLIGHTS</b></p>	<p>WIN are a range of compact floodlights with a distinctive clean linear design suitable for indoor and outdoor use. With their compact and shallow design the fittings are ideal for positioning in discreet locations such as lifts, eaves and terraces etc. A wide range of reflector options, light sources and accessories makes WIN a flexible luminaire suitable for general area floodlighting to architectural facades and feature lighting.</p> <p>WIN is available in two sizes: WIN 01 (max 150W) and WIN 02 (max 400W (see page 6)).</p> <ul style="list-style-type: none"> <li>• Die cast aluminium body painted aluminium grey.</li> <li>• Symmetrical, asymmetrical or circular reflectors in high purity aluminium anodised and polished.</li> <li>• Toughened "safety" glass cover mounted in a polycarbonate frame which hinges down for maintenance.</li> <li>• Silicone rubber anti-vibration gasket.</li> <li>• Mounting bracket in steel finished polyester painted aluminium.</li> <li>• PG11 cable gland for HD5RN4 3G1 05-10mm cables.</li> <li>• Stainless steel external screws.</li> </ul>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>CLASS I</p> <p>IP 66</p> <p>IK 08 SJ</p> <p>max 5,1kg</p> </div> <div style="width: 45%;"> <p>CE</p> <p>RoHS</p> </div> </div> 																																																																									
<p><b>94 WIN 01/S</b> Symmetrical reflector</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>0514494</td> <td>75 70 94</td> <td>CR</td> <td>CRFL</td> <td>70W</td> <td>HQ1-T5/WH-TD</td> <td>CDM-T0/MV-TS</td> </tr> <tr> <td>0514494</td> <td>75 150 94</td> <td>CR</td> <td>CRFL</td> <td>150W</td> <td>HQ1-T5/WH-TD</td> <td>CDM-T0/MV-TS</td> </tr> </table> 	0514494	75 70 94	CR	CRFL	70W	HQ1-T5/WH-TD	CDM-T0/MV-TS	0514494	75 150 94	CR	CRFL	150W	HQ1-T5/WH-TD	CDM-T0/MV-TS	<p><b>94 WIN 01/A</b> Asymmetrical reflector</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>0512694</td> <td>7A 70 94</td> <td>CR</td> <td>CRFL</td> <td>70W</td> <td>HQ1-T5/WH-TD</td> <td>CDM-T0/MV-TS</td> </tr> <tr> <td>0512694</td> <td>7A 150 94</td> <td>CR</td> <td>CRFL</td> <td>150W</td> <td>HQ1-T5/WH-TD</td> <td>CDM-T0/MV-TS</td> </tr> </table> 	0512694	7A 70 94	CR	CRFL	70W	HQ1-T5/WH-TD	CDM-T0/MV-TS	0512694	7A 150 94	CR	CRFL	150W	HQ1-T5/WH-TD	CDM-T0/MV-TS	<p><b>94 WIN 01/C</b> Circular reflector</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>0512694</td> <td>7C 70 94</td> <td>CR</td> <td>CRFL</td> <td>70W</td> <td>HQ1-T5/WH-TD</td> <td>CDM-T0/MV-TS</td> </tr> <tr> <td>0512694</td> <td>7C 150 94</td> <td>CR</td> <td>CRFL</td> <td>150W</td> <td>HQ1-T5/WH-TD</td> <td>CDM-T0/MV-TS</td> </tr> </table> 	0512694	7C 70 94	CR	CRFL	70W	HQ1-T5/WH-TD	CDM-T0/MV-TS	0512694	7C 150 94	CR	CRFL	150W	HQ1-T5/WH-TD	CDM-T0/MV-TS																															
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**WIRING**





PRODUCT CODE: 05126594 Prompt delivery  
05126594 Delivery to be advised

PRODUCT COLOUR

**ACCESSORIES**



- WIRING**
- Without electrical parts
  - C Wired LPF
  - CR Wired HPF
  - CRL Wired HPF with lamp
  - CRF Wired HPF + fuse
  - ETRC Wired with electronic ballast
  - L With lamp
  - T With transformer

- SYMBOLS**
-  Fittings for outdoor installation
  -  Fittings for indoor installation
  -  Gross weight max 5,1kg
  -  Windage area 0,08m²

# 5STARS 1000



**5STARS 1000W** are high quality, zero upward light pollution, high performance floodlights suitable for indoor and outdoor sports facilities, external industrial areas, building facades and architectural features. 5STARS 1000W fittings are suitable for a variety of lamp options, with a full range of reflectors and accessories they offer a high performance luminaire for professional applications.

Control gear is available as separate components (ballasts + capacitors) or remote gear boxes to be ordered separately in addition to the floodlight.

- Die cast aluminium body finished.
- Symmetrical and asymmetrical reflectors (Imax 45° and 55°) in high purity aluminium anodised and polished in medium (M) or narrow beam (INT).
- Polyamide lamp holder and wiring box. Ignitor supplied and fitted within wiring box.
- IP66 patented anti-vacuum device.
- 5mm toughened safety glass hinged to body.
- Cover fixing clips in anodized aluminium with stainless steel spring.
- Steel mounting bracket finished aluminium grey with strong secure locking device.
- Graduated goniometer aiming device in aluminium.

## FLOODLIGHTS

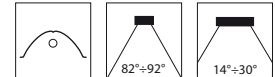


### 94 5STARS 1000 /S M - /S INT

			Symmetrical reflectors	
•	04001794	/S M 1000 8,3A		E40 1000W HPI-T
••	04003794	/S INT 1000 8,3A		E40 1000W HPI-T
•	04001994	/S M 1002 9,5/10,3A		E40 1000W NAV-T/SON-T/HQI-T/D
				E40 600W NAV-T Super / SON-T Plus
••	04003594	/S INT 1002 9,5/10,3A		E40 1000W NAV-T/SON-T/HQI-T/D
				E40 600W NAV-T Super / SON-T Plus

Fittings complete with ignitor.

- Medium beam (M).
- Narrow beam (INT).

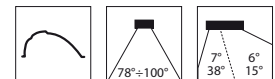


### 94 5STARS 1000 /A45 M - /A45 INT

			Asymmetrical reflectors Imax 45°	
•	04002094	/A45 M 1000 8,3A		E40 1000W HPI-T
••	04016794	/A45 INT 1000 8,3A		E40 1000W HPI-T
•	04002294	/A45 M 1002 9,5/10,3A		E40 1000W NAV-T/SON-T/HQI-T/D
				E40 600W NAV-T Super / SON-T Plus
••	04016994	/A45 INT 1002 9,5/10,3A		E40 1000W NAV-T/SON-T/HQI-T/D
				E40 600W NAV-T Super / SON-T Plus

Fittings complete with ignitor.

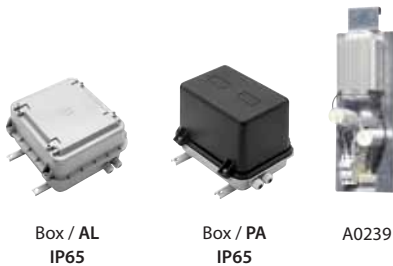
- Medium beam (M).
- Narrow beam (INT).





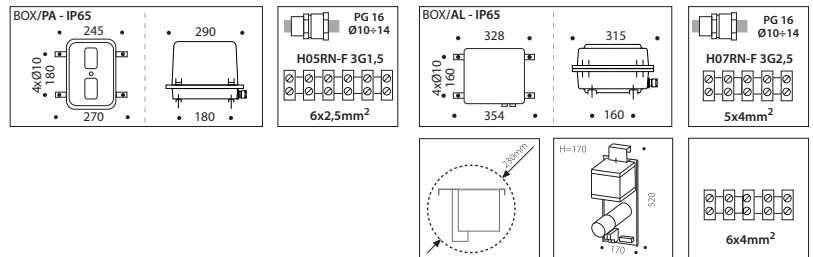
				<b>IK 08 5J</b>									
<b>CLASS I</b>		<b>94</b>	<b>IP 66</b>								<b>ST</b>  600÷1000W	<b>MT</b>  Max 1000W	

**94** Control gear boxes and tray, less ignitor

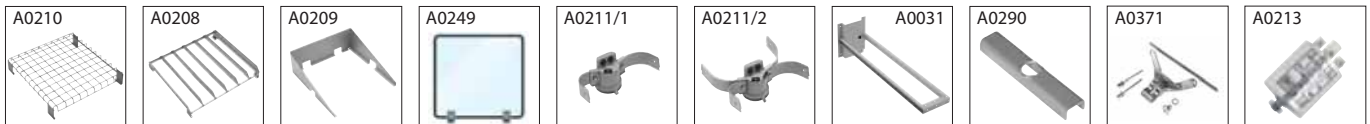


<b>14216003</b>	Box/PA 1000	CRF	8,3A		1000W	HPI-T
<b>14013220</b>	Box/AL 1000	CRF	8,3A		1000W	HPI-T
<b>14215003</b>	Box/PA 1002	CRF	9,5÷10,3A		1000W	NAV-T/SON-T/HQI-T/D
<b>14013320</b>	Box/AL 1002	CRF	9,5÷10,3A		1000W	NAV-T/SON-T/HQI-T/D
<b>14017594</b>	Box/PA 600	CR	9,5÷10,3A		600W	NAV-T Super / SON-T Plus
<b>14017494</b>	Box/AL 600	CR	9,5÷10,3A		600W	NAV-T Super / SON-T Plus
<b>14025701</b>	A0239 /1000		8,3A		1000W	HPI-T
<b>14020701</b>	A0239 /1002		10,3A		1000W	NAV-T/SON-T/HQI-T/D

- BOX / AL** - Aluminium construction.
- BOX / PA** - Aluminium base and polyamide cover.
- A0239** - Steel galvanized sheet tray.



**ACCESSORIES**



14012520	A0210	Steel galvanised wire guard (18 Joule).
14012320	A0208	94 External anti-glare louvre painted aluminium grey.
14012420	A0209	94 External cowl painted aluminium grey.
14026520	A0249	Frosted glass optional replacement for standard clear glass.
14042620	A0282	Supplement for frosted glass factory fitted. To be ordered as a separate item with fitting.
14012620	A0211/1	94 Single support bracket for Ø60-76mm pole top mounting.
14012720	A0211/2	94 Twin support bracket for Ø60-76mm pole top mounting.
14011594	A0031	94 1000mm support bracket in strong sheet steel, painted aluminium grey.
14044620	A0290	5STARS 2 strengthening support bracket. Suitable for one floodlight single point fixing M14 screw in centre of the bracket.
14070520	A0371 / S	Steel wire lamp steady support (recommended for use in installations subject to heavy vibration).
14070620	A0371 / A	Steel wire lamp steady support (recommended for use in installations subject to heavy vibration).
14013420	A0213/35 1000W	Timed ignitor supplement to be ordered as a separate item with fitting. Suitable for all lamps.

# SKYS



SKYS are high Performance floodlights suitable for indoor and outdoor installation.

SKYS asymmetrical broad reflector makes them especially suitable for lighting large open areas; motorway intersections, large car parks, ports and airports. On typical mounting heights of 12-40M they offer comfortable high uniformity lighting levels whilst avoiding glare and light pollution.

Lamp options are available as 1000W single and twin 250/400/600W HID. Twin version mixed lamps offer excellent chromatic mix or the option to have lamps independently switched. Available in medium and narrow beam reflectors options.

Control gear is available as separate components (ballasts + capacitors) or remote gear boxes to be ordered separately in addition to the floodlight.

- Die cast aluminium body finished grey.
- Asymmetrical reflector (Imax 60°) in high purity aluminium anodised and polished.
- anti-vibration lampholder supports in stainless steel.
- Polyamide lamp holder and wiring box (twin lamp version 2x250-400W). Ignitor supplied and fitted within wiring box.
- IP66 patented anti-vacuum device.
- 5mm toughened safety glass hinged to body.
- Anti-ageing dual foam silicone gasket, factory injection direct to glass.
- Cover fixing clips in anodized aluminium with stainless steel spring.
- Steel bracket hot dipped galvanised. Suitable for horizontal or vertical installation with firm double screw fix on both sides and slotted hole for  $\pm 10^\circ$  adjustment.

## FLOODLIGHTS

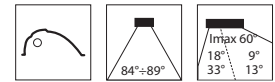


### 94 SKYS / M

#### Asymmetrical medium beam reflector

04000994	/M	2x402		E40	250÷400W	NAV-T/SON-T/HQI-BT/D
04008394	/M	2x400		E40	250÷400W	HPI-T Plus
04019494	/M	2x600		E40	600W	NAV-T super/SON-T plus
04000594	/M	1000	8,3A	E40	1000W	HPI-T
04000394	/M	1002	10,3A	E40	1000W	NAV-T/SON-T/HQI-T/D

Fittings complete with ignitor.

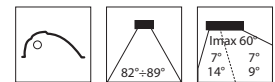


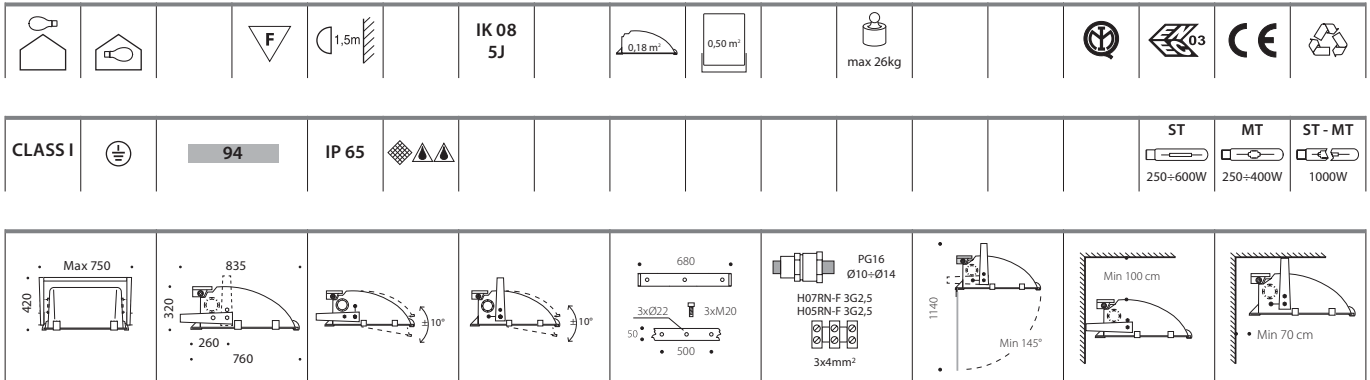
### 94 SKYS / INT

#### Asymmetrical narrow beam reflector

04001094	/INT	2x402		E40	250÷400W	NAV-T/SON-T/HQI-BT/D
04008494	/INT	2x400		E40	250÷400W	HPI-T Plus
04019594	/INT	2x600		E40	600W	NAV-T super/SON-T plus
04000694	/INT	1000	8,3A	E40	1000W	HPI-T
04000494	/INT	1002	10,3A	E40	1000W	NAV-T/SON-T/HQI-T/D

Fittings complete with ignitor.

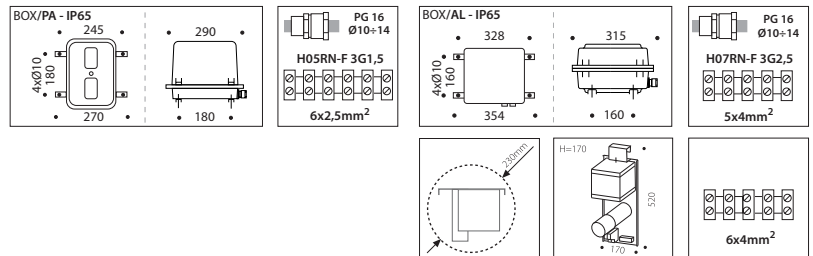




**94** Control gear boxes and tray, less ignitor

<b>14216003</b>	Box/PA 1000	CRF 8,3A		1000W	HPI-T
<b>14215003</b>	Box/PA 1002	CRF 9,5+10,3A		1000W	NAV-T/SON-T/HQI-T/D
<b>14361993</b>	Box/AL 1x252 +1x402	CR		1x250+1x400W	NAV-T/SON-T/HQI-BT/D
<b>14359993</b>	Box/AL 2x252	CR		2x250W	NAV-T/SON-T/HQI-T/D
<b>14360993</b>	Box/AL 2x402	CR		2x400W	NAV-T/SON-T/HQI-BT/D
<b>14018594</b>	Box/AL 2x400	CR		2x400W	HPI-T Plus
<b>14059294</b>	Box/AL 2x600	CR		2x600W	NAV-T super/SON-T plus
<b>14013220</b>	Box/AL 1000	CRF 8,3A		1000W	HPI-T
<b>14013320</b>	Box/AL 1002	CRF 9,5+10,3A		1000W	NAV-T/SON-T/HQI-T/D
<b>14025701</b>	A0239/1000	CRF 8,3A		E40 1000W	HPI-T
<b>14020701</b>	A0239/1002	CRF 10,3A		E40 1000W	NAV-T/SON-T/HQI-T/D
<b>14058601</b>	A0239/400	CR		1x400W	HPI-T
<b>14058701</b>	A0239/402	CR		1x400W	NAV-T/SON-T/HQI-T/D

- BOX / AL** - Aluminium construction.
- BOX / PA** - Aluminium base and polyamide cover.
- A0239** - Steel galvanized sheet tray.





# HORO









**HORO** is the new range of 1000 and 2000 w asymmetrical high performance floodlights designed for indoor and outdoor sports lighting applications, industrial and large open areas. The high efficiency of the luminaire is achieved by the use of high quality high purity aluminium reflectors and high transmission clear glass, providing a coefficient light transmission > 90%. Available with medium and narrow distribution reflectors, and a wide range of high performance lamp options providing the photometric flexibility to satisfy a variety of lighting applications, from general area lighting to professional sports lighting. The high efficiency and precise control of the lighting distribution ensures energy efficient high performance lighting, whilst controlling glare and upward light pollution, reducing the effects of sky glow.

- Body in die-cast aluminium finished polyester powder coated.
- Cover fixing clips in stainless steel with safety hook.
- Polyamide ignitor housing complete with ignitor mounted directly to body.
- Reflectors in high purity aluminium.
- Lamp supports in ceramic with stainless steel retaining spring and nickel-plated brass contacts.
- Internal cables in THT silicon.
- Hot dipped galvanised steel mounting bracket.
- Retaining gaskets in silicon.
- Automatic line switch in LCP.
- 5mm clear toughened safety glass.
- Glass fixing springs in stainless steel.
- Patented IP66 anti-vacuum in polyamide.
- Stainless steel external screw fixings.





## FLOODLIGHTS







94	HORO 1000 / M			Asymmetrical medium beam reflector		
04022694	/M	1000	94	9,6A		1000W HQL-TS 1000 D/S / HQL-TS/N/L
04022794	/M	1001	94	10,3A		1000W MHN-LA
04022894	/M	1003	94	10,3A		1000W MHN-FC



94	HORO 1000 / INT			Asymmetrical narrow beam reflector		
04022394	/INT	1000	94	9,6A		1000W HQL-TS 1000 D/S / HQL-TS/N/L
04022494	/INT	1001	94	10,3A		1000W MHN-LA
04022594	/INT	1003	94	10,3A		1000W MHN-FC



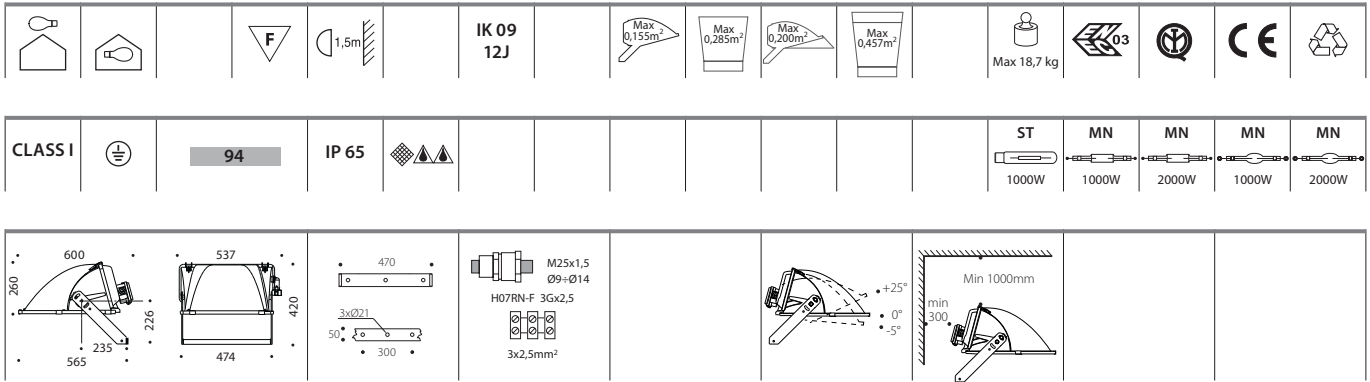
94	HORO 2000 / M			Asymmetrical medium beam reflector		
04021994	/M	2000 / SA	94	11,3A		2000W HQL-TS 2000 D/S / MHN-SB
04022094	/M	2000 / LA	94	10,3A		2000W HQL-TS 2000 N/L
04022194	/M	2001	94	10,3A		2000W MHN-LA
04022294	/M	2003	94	10,3A		2000W MHN-FC

94	HORO 2000 / INT			Asymmetrical narrow beam reflector		
04021594	/INT	2000 / SA	94	11,3A		2000W HQL-TS 2000 D/S / MHN-SB
04021694	/INT	2000 / LA	94	10,3A		2000W HQL-TS 2000 N/L
04021794	/INT	2001	94	10,3A		2000W MHN-LA
04021894	/INT	2003	94	10,3A		2000W MHN-FC



94	HORO 1000 - E40			E40 - High pressure sodium		
04023094	/M	1002	94	10,3A		1000W NAV-T / SON-T
04022994	/INT	1002	94	10,3A		1000W NAV-T / SON-T

All HORO fittings supplied complete with ignitor.



<b>94</b>	HORO 1000 HR	HR (Hot Restrike)
04025094	/M 1000 94	11,3A-40kV 1000W HQI-TS 2000 D/S

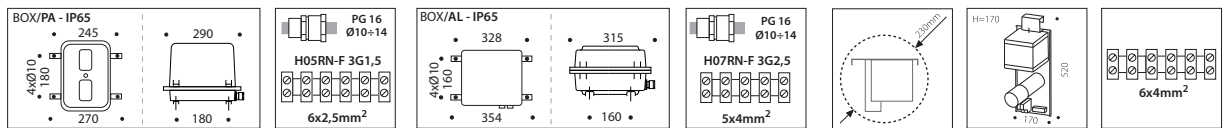
<b>94</b>	HORO 2000 HR	HR (Hot Restrike)
04023294	/M 2000 / SA 94	11,3A-40kV 2000W HQI-TS 2000 D/S
04023194	/INT 2000 / SA 94	11,3A-40kV 2000W HQI-TS 2000 D/S

All HORO fittings supplied complete with ignitor.

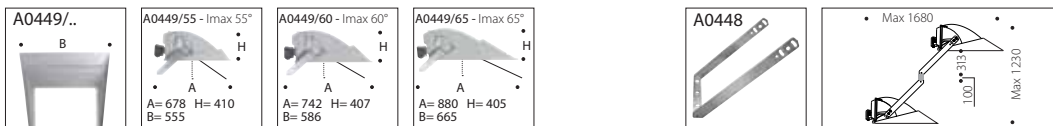


<b>94</b>	Control gear boxes and tray, less ignitor	
14215003	Box/PA 1002 CRF 9,5÷10,3A	E40 1000W/230V NAV-T / SON-T HQI-TS/N/L / HQI-TS/D/S / MHN-LA / MHN-FC
14013320	Box/AL 1002 CRF 9,5÷10,3A	E40 1000W/230V NAV-T / SON-T HQI-TS/N/L / HQI-TS/D/S / MHN-LA / MHN-FC
14014394	Box/AL 2000 CR 10,3A	2000W/400V HQI-TS/D/S / MHN-SB
14106003	Box/AL 2000 CR 10,3A	2000W/400V HQI-TS/N/L / MHN-LA / MHN-FC
14020701	A0239/1002 CRF 10,3A	E40 1000W NAV-T / SON-T HQI-TS/N/L / HQI-TS/D/S / MHN-LA / MHN-FC
14020601	A0238/2000 CRF 10,3A	2000W HQI-TS/D/S / MHN-SB HQI-TS/N/L / MHN-LA / MHN-FC
• 14260003	Set 1000W CR 9,5÷10,3A	E40 1000W/230V NAV-T / SON-T HQI-TS/N/L / HQI-TS/D/S / MHN-LA / MHN-FC
• 14014420	Set 2000W CR 10,3A	2000W/400V HQI-TS/D/S / MHN-SB HQI-TS/N/L / MHN-LA / MHN-FC

- BOX / AL** - Aluminium construction.
- BOX / PA** - Aluminium base and polyamide cover.
- A0238-A0239** - Steel galvanized sheet tray.
- Control gear set (loose components) comprising; ballast and capacitors for 1000W (Kit 1000W) or 2000W Ray (Kit 2000W).



ACCESSORIES



14090394	A0449 / 55°	94	External cowl in sheet aluminium, provides full cut off with peak beam max 55° and reduces upward light pollution.
14090494	A0449 / 60°	94	External cowl in sheet aluminium, provides full cut off with peak beam max 60° and reduces upward light pollution.
14090594	A0449 / 65°	94	External cowl in sheet aluminium, provides full cut off with peak beam max 65° and reduces upward light pollution.
14090202	A0448	02	Long mounting bracket in hot dipped galvanised steel suitable for use when mounting one floodlight above another to avoid interference of light distribution.

# LASER



**LASER's** are powerful **asymmetrical** floodlight fittings for 1000/2000W HID lamps. A rear access to lamp compartment provides **quick and easy** re-lamping in difficult locations. Suitable for medium to large area installations such as sports grounds. On typical mounting heights of 12-30M these powerful floodlights economically achieve the desired design levels with good glare control and minimising light pollution.

Control gear is available as separate components (ballasts + capacitors) or remote gear boxes to be ordered separately in addition to the floodlight.

- Die cast **aluminium** body and cover finished aluminium grey.
- Aluminium wiring box with **hinged** technopolymer cover.
- IP66 patented **anti-vacuum** device.
- Reflectors in high purity aluminium anodised and polished. **Medium** beam (M) and **narrow** beam (INT).
- Stainless steel lamp **steady** support.
- **Toughened** safety glass hinged to the body by stainless steel clips.
- **Anti-ageing** silicone rubber gasket.
- Mounting bracket in steel hot dipped galvanised, with 5° graduated **goniometer** aiming device for fitting adjustment.
- Stainless steel external screws.

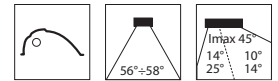
## FLOODLIGHTS



### 94 LASER / M Asymmetrical medium beam reflector

<b>01150013</b>	/M	1000/2000		E40	2000W	HQI-T/HPI-T
				E40	1000W	NAV-T/SON-T / HQI-T/D / HPI-T
• <b>01986013</b>	/M	2001	10,3A		- 2000W/400V	MHN-LA

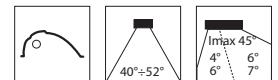
- Fittings complete with ignitor housing and triple pole ignitor (5000V).



### 94 LASER / INT Asymmetrical narrow beam reflector

<b>01208013</b>	/INT	1000/2000		E40	2000W	HQI-T/HPI-T
				E40	1000W	NAV-T/SON-T / HQI-T/D / HPI-T
• <b>01987013</b>	/INT	2001	10,3A		- 2000W/400V	MHN-LA

- Fittings complete with ignitor housing and triple pole ignitor (5000V).





			<b>IK 08 8J</b>									
<b>CLASS I</b>		<b>94</b>	<b>IP 65</b>									
									<b>ST</b>  1000W	<b>MT</b>  1000W	<b>MT</b>  2000W	<b>MN</b>  2000W

**94** Control gear boxes



Box / PA  
IP65

Box / AL  
IP65

• <b>14261013</b>	Box/PA 1000	CRF	8,3A		1000W/230V	HPI-T
• <b>14104003</b>	Box/PA 1002	CRF	9,5÷10,3A		1000W/230V	NAV-T/SON-T/HQI-T/D
•• <b>14215003</b>	Box/PA 1002	CRF	9,5÷10,3A		1000W/230V	NAV-T/SON-T/HQI-T/D
• <b>14017694</b>	Box/AL 1000	CRF	8,3A		1000W/230V	HPI-T
• <b>14017794</b>	Box/AL 1002	CRF	9,5÷10,3A		1000W/230V	NAV-T/SON-T/HQI-T/D
•• <b>14013320</b>	Box/AL 1002	CRF	9,5÷10,3A		1000W/230V	NAV-T/SON-T/HQI-T/D
•• <b>14106003</b>	Box/AL 2000	CR	10,3A		2000W/400V	HQI-T
						MHN-LA
• <b>14274013</b>	Box/AL 2002	CR	16,5A		2000W/230V	HPI-T
•• <b>14045020</b>	Box/AL 2002	CR	16,5A		2000W/230V	HPI-T
•• <b>14025701</b>	A0239/1000 - 8,3A				1000W	HPI-T
•• <b>14020701</b>	A0239/1002 - 10,3A				1000W	NAV-T/SON-T/HQI-T/D
•• <b>14020601</b>	A0238/2000 - 10,3A				2000W	MHN-LA
					2000W	HQI-T

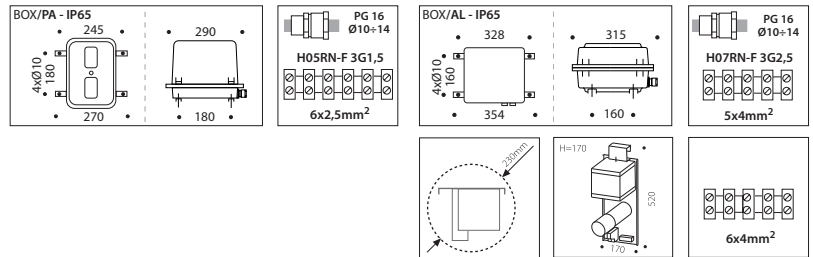


A0239/1000

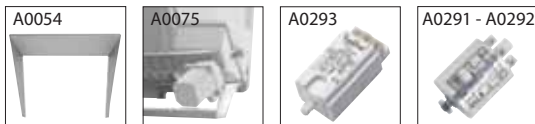


A0238 / 2000

- Complete with ignitor.
- Less ignitor.



**ACCESSORIES**



14224013	A0054 - 94	External steel cowl painted aluminium grey.
14172003	A0075 - 94	IP65 ignitor housing mounted to fitting.
14044720	A0291/1000 - 9,5÷10,3A	Ignitor for lamps:  E40 1000 W NAV-T / SON-T / HQI-T/D
14044820	A0292/2000 - 10,3A	Ignitor for lamps:  E40 2000 W HQI-T / D
14044920	A0293/1000/2000	Ignitor for lamps:  E40 1000 / 2000 W HPI-T

# RAY



## FLOODLIGHTS

RAY are high performance powerful compact circular floodlights for short arc 1000 and 2000W HID lamps, suitable for outdoor and indoor installation. Their high performance makes them suitable for sports lighting, whilst their compact design makes them discreet and ideal for architectural lighting.

RAY fittings have an extensive range of lamp optics giving them flexibility in design and application. Other options include instant hot re-strike facility and chemically treated (HU) toughened glass, allowing the fitting to be installed as an uplighter.

Control gear is available as separate components (ballasts + capacitors) or remote gear boxes to be ordered separately in addition to the floodlight.

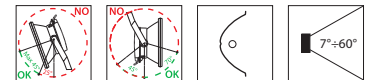
- Die cast aluminium body and cover frame finished aluminium grey.
- Stainless steel cover fixing clips.
- Polyamide wiring box including ignitor.
- Reflector in very high purity 99.98% aluminium anodised and polished, exposed weather proof surface dissipates heat.
- Ceramic lamp holder with stainless steel support spring.
- Nickel plated copper cables, THT silicone treated.
- Stainless steel mounting bracket with graduated goniometer positioning device painted aluminium grey.
- Anti-ageing silicone rubber gasket.
- Automatic isolating switch, on cover removal.
- 5mm toughened glass or optional 2mm chemically (HU) toughened glass.
- Stainless steel retractable aiming device.
- IP66 patented anti-vacuum device.
- Stainless steel external screws.



### 94 RAY 1000

04002394	1000/ 7°		1000W/230V	HQI-TS/D/S
04002494	1000/ 15°		1000W/230V	HQI-TS/D/S
04002594	1000/ 34°		1000W/230V	HQI-TS/D/S
04003894	1000/ 60°		1000W/230V	HQI-TS/D/S

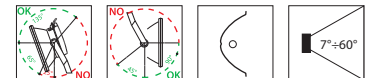
Fitting suitable for specified orientation only.  
Complete with ignitor and thermally toughened glass.



### 94 RAY 1000 HU

04019694	1000HU/ 7°		1000W/230V	HQI-TS/D/S
04019794	1000HU/ 15°		1000W/230V	HQI-TS/D/S
04019894	1000HU/ 34°		1000W/230V	HQI-TS/D/S
04019994	1000HU/ 60°		1000W/230V	HQI-TS/D/S

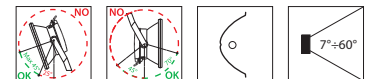
Fitting suitable for specified orientation only. Complete with ignitor, chemically toughened glass and stainless steel wire guard.



### 94 RAY 2000

04002994	2000/ 7°		2000W/400V	HQI-TS/D/S
04003094	2000/ 15°		2000W/400V	HQI-TS/D/S
04003194	2000/ 34°		2000W/400V	HQI-TS/D/S
04004094	2000/ 60°		2000W/400V	HQI-TS/D/S

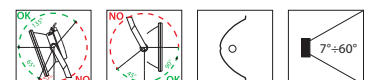
Fitting suitable for specified orientation only.  
Complete with ignitor and thermally toughened glass.



### 94 RAY 2000 HU

04002694	2000HU/ 7°		2000W/400V	HQI-TS/D/S
04002794	2000HU/ 15°		2000W/400V	HQI-TS/D/S
04002894	2000HU/ 34°		2000W/400V	HQI-TS/D/S
04011994	2000HU/ 60°		2000W/400V	HQI-TS/D/S

Fitting suitable for specified orientation only. Complete with ignitor, chemically toughened glass and stainless steel wire guard.



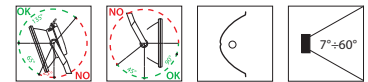
				IK 07 2,6J	IK 09 18J	0,21m <sup>2</sup>		max 16,5kg				
CLASS I		94	IP 66								MN 1000W	MN 2000W
				PG16 Ø10-Ø14	RAY1000HU/2000HU OK		RAY 1000/2000 OK					



#### 94 RAY 2000 HU-HR-E (Hot Restrike)

04026394	2000HU-HR-E/ 7°		2000W/400V	HQI-TS/D/S
04026494	2000HU-HR-E/15°		2000W/400V	HQI-TS/D/S
04026594	2000HU-HR-E/34°		2000W/400V	HQI-TS/D/S
04026694	2000HU-HR-E/60°		2000W/400V	HQI-TS/D/S

HR (Hot Restrike) fittings complete with electronic device for instant hot re-strike. Suitable for specified orientation only.



Box / AL  
IP65

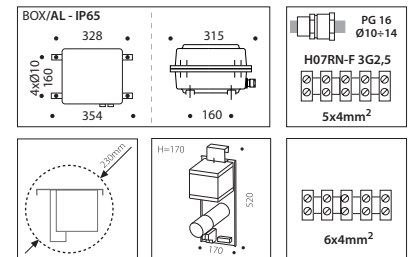
#### 94 Control gear boxes

• 14013320	Box/AL 1002	CRF 9,5÷10,3A		1000W/230V	HQI-TS/D/S
• 14014394	Box/AL 2000	CR 10,3A		2000W/400V	HQI-TS/D/S
•• 14020701	A0239/1002	10,3A		1000W/230V	HQI-TS/D/S
•• 14020601	A0238/2000	10,3A		2000W/400V	HQI-TS/D/S
••• 14260003	Set 1000W	9,5÷10,3A		1000W/230V	HQI-TS/D/S
••• 14014420	Set 2000W	10,3A		2000W/400V	HQI-TS/D/S

• Aluminium control gear box IP65 finished complete with ballast and capacitors for 1000W Ray (Box /AL 1002) or 2000W Ray (Box/AL 2000).

•• Steel galvanised gear tray suitable for mounting in electrical cabinets or inside columns. Supplied with ballast, capacitors and ceramic fuse for 1000W (A0239) or 2000W (A0238).

••• Control gear set (loose components) comprising; ballast and capacitors for 1000W Ray (Kit 1000W) or 2000W Ray (Kit 2000W).



A0238



A0239

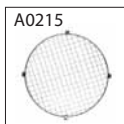


Set 1000W

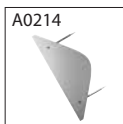


Set 2000W

#### ACCESSORIES



A0215



A0214



A0213

14013720	A0215	Stainless steel wire guard. Supplied as standard with RAY 2000 HU models.
14013620	A0214	Internal aluminium baffle to minimise light pollution. Must be ordered as an accessory together with the fitting. Not suitable for RAY 34° and 60°.
14013420	A0213/1000	Timed ignitor supplement, for 1000W only, must be ordered together with the fitting.



# WIN 01



WIN are a range of compact floodlights with a distinctive clean linear design suitable for indoor and outdoor use. With their compact and shallow design the fittings are ideal for positioning in discreet locations such as lofts, eaves and terraces etc. A wide range of reflector options, light sources and accessories makes WIN a flexible luminaire suitable for general area floodlighting to architectural facades and feature lighting.

WIN is available in two sizes: WIN 01 (max 150W) and WIN 02 (max 400W-see page24).

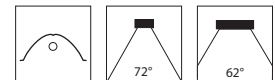
- Die cast aluminium body painted aluminium grey.
- Symmetrical, asymmetrical or circular reflectors in high purity aluminium anodised and polished.
- Toughened "safety" glass cover mounted in a technopolymer frame which hinges down for maintenance.
- Silicone rubber anti-ageing gasket.
- Mounting bracket in steel finished polyester painted aluminium.
- PG11 anti-tearing cable gland for H05RN-F 3G1 Ø5-10mm cables.
- Stainless steel external screws.

## FLOODLIGHTS



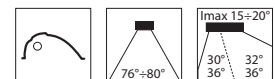
### 94 WIN 01/S Symmetrical reflector

05144894	/S 70	94	CR		RX7s	70W	HQI-TS/MH-TD CDM-TD/NAV-TS
05144994	/S 150	94	CR		RX7s	150W	HQI-TS/MH-TD CDM-TD/NAV-TS



### 94 WIN 01/A Asymmetrical reflector

05126394	/A 70	94	CR		RX7s	70W	HQI-TS/MH-TD CDM-TD/NAV-TS
05126494	/A 150	94	CR		RX7s	150W	HQI-TS/MH-TD CDM-TD/NAV-TS



### 94 WIN 01/C Circular reflector

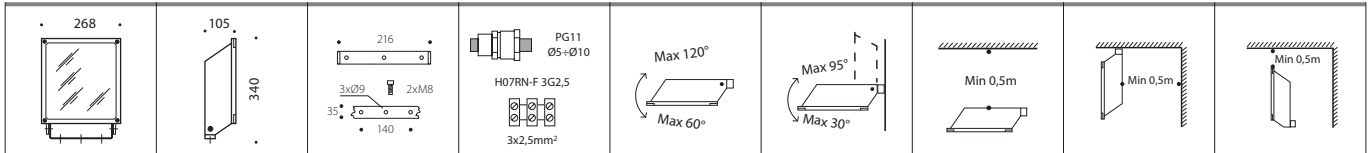
05126594	/C 70	94	CR		RX7s	70W	HQI-TS/MH-TD CDM-TD/NAV-TS
05126694	/C 150	94	CR		RX7s	150W	HQI-TS/MH-TD CDM-TD/NAV-TS



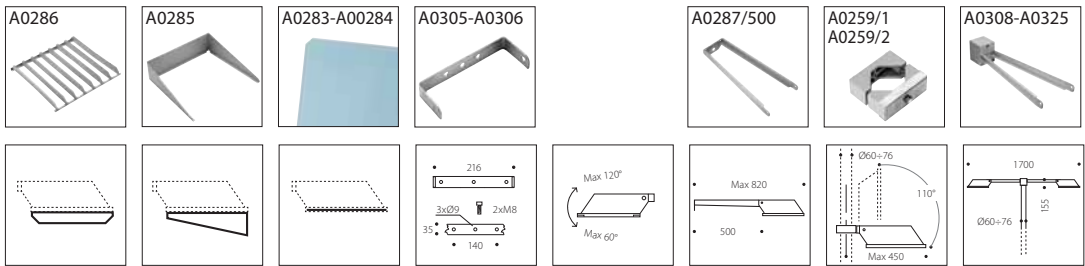
### 94 WIN 01/WR

05246794	/WR 70	94	CR		G12	70W	HCI-T/HQI-T
05246894	/WR 150	94	CR		G12	150W	HCI-T/HQI-T

				<b>IK 08 5J</b>					
<b>CLASS I</b>		<b>94</b>	<b>IP 66</b>						<b>SD</b>  70÷150W



**ACCESSORIES**



14043294	A0286	94	External anti-glare louvre painted aluminium grey.
14043194	A0285	94	External steel cowl painted aluminium grey.
14042920	A0283		WIN 01 frosted glass optional replacement for standard clear glass.
14043020	A0284		WIN 01 frosted glass supplement to be ordered together with the fitting for factory fitted option.
14048104	A0305		WIN 01 mounting bracket in stainless steel.
14048204	A0306		WIN 01 supplement for stainless steel mounting bracket to be ordered together with the fitting.
14043394	A0287/500	94	500mm wall mounting extension arm in sheet steel painted aluminium grey.
14029094	A0259/1	94	Single WIN 01 die-cast aluminium sliding pole clamp painted aluminium grey suitable for Ø60-76mm poles.
14047194	A0259/2	94	Twin WIN 01 die-cast aluminium sliding pole clamp painted aluminium grey suitable for Ø60-76mm poles.
14048894	A0308/1	94	Single WIN 01 pole top fitting and outreach arm for 60-76mm poles. Aluminium pole top and steel outreach arm, painted aluminium grey (see on page 121).
14049094	A0308/2-90°	94	Twin WIN 01 aluminium pole top fitting and steel outreach arm for Ø60-76mm poles, installed at 90°. Finished painted aluminium grey (see on page 121).
14048994	A0308/2-180°	94	Twin WIN 01 aluminium pole top fitting and steel outreach arm for Ø60-76mm poles, installed at 180°. Finished painted aluminium grey (see on page 121).
14049194	A0308/3-90°	94	Three WIN 01 aluminium pole top fitting and steel outreach arm for Ø60-76mm poles, installed at 90°. Finished painted aluminium grey (see on page 121).
14050294	A0325/3-120°	94	Three WIN 01 aluminium pole top fitting and steel outreach arm for Ø60-76mm poles, installed at 120°. Finished painted aluminium grey (see on page 121).
14049294	A0308/4	94	Four WIN 01 aluminium pole top fitting and steel outreach arm for Ø60-76mm poles, installed at 90°. Finished painted aluminium grey (see on page 121).



# WIN 02



WIN are a range of compact floodlights with a distinctive clean linear design suitable for indoor and outdoor use. With their compact and shallow design the fittings are ideal for positioning in discreet locations such as lofts, eaves and terraces etc. A wide range of reflector options, light sources and accessories makes WIN a flexible luminaire suitable for general area floodlighting to architectural façades and feature lighting.

WIN is available in two sizes: WIN01 (max 150W-see page 22) and WIN02 (max 400W).

- Die cast aluminium body painted aluminium grey.
- Symmetrical, asymmetrical or circular reflectors in high purity aluminium anodised and polished.
- Toughened "safety" glass cover mounted in a technopolymer frame which hinges down for maintenance.
- Silicone rubber anti-ageing gasket.
- Mounting bracket in steel finished polyester painted aluminium grey.
- M20x1.5 anti-tearing cable gland for H05RN-F 3G1.5-2.5 Ø10-14mm cables.
- Stainless steel external screws.

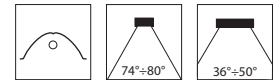
## FLOODLIGHTS



### 94 WIN 02/S

#### Symmetrical reflector

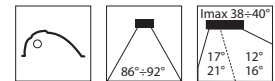
05143494	/S 150 94	CR		E40	150W	NAV-T/SON-T/CDO-TT
05143594	/S 252 94	CR		E40	250W	NAV-T/SON-T/HQI-T/D
05143694	/S 402 94	CR		E40	400W	NAV-T/SON-T/HQI-BT/D
05143794	/S 250 94	CR		E40	250W	HPI-T Plus
05143894	/S 400 94	CR		E40	400W	HPI-T Plus



### 94 WIN 02/A

#### Asymmetrical reflector

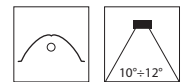
05144094	/A 150 94	CR		E40	150W	NAV-T/SON-T/CDO-TT
05144194	/A 252 94	CR		E40	250W	NAV-T/SON-T/HQI-T/D
05144294	/A 402 94	CR		E40	400W	NAV-T/SON-T/HQI-BT/D
05144394	/A 250 94	CR		E40	250W	HPI-T Plus
05144494	/A 400 94	CR		E40	400W	HPI-T Plus



### 94 WIN 02/C

#### Circular reflector

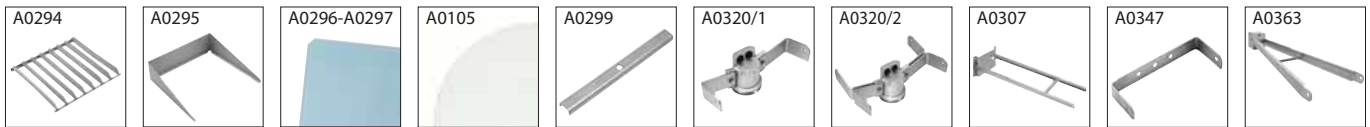
05144694	/C 250 94	CR		Fc2	250W	HQI-TS/MH-TD
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				<b>IK 08 5J</b>						
<b>CLASS I</b>		<b>94</b>	<b>IP 66</b>					<b>ST</b>  Max 400W	<b>MT</b>  Max 400W	<b>MD</b>  Max 250W

**ACCESSORIES**



14045694	A0294	94	External anti-glare louvre painted aluminium grey.
14045794	A0295	94	External steel cowl painted aluminium grey.
14045820	A0296		WIN 02 frosted glass optional replacement for standard clear glass.
14045920	A0297		WIN 02 frosted glass supplement to be ordered together with the fitting for factory fitted option.
14396993	A0105		WIN 02/C prismatic glass for use with WIN 02/C fittings only.
14046120	A0299		WIN 02 strengthening bracket. Suitable for one floodlight single point fixing M12 screw in centre of the bracket.
14051294	A0320/1	94	Single pole top mounting, for Ø60-76mm poles, painted aluminium grey
14051394	A0320/2	94	Double pole top mounting, Ø60-76mm poles, painted aluminium grey
14048694	A0307	94	1000mm extension arm in heavy gauge steel, painted aluminium grey.
14057394	A0347	94	Long bracket for ceiling mounting, painted aluminium grey.
14068694	A0363/1	94	Aluminium pole top and steel outreach arm. Painted aluminium grey (see on page 121).
14068794	A0363/2-90°	94	Twin WIN 02 aluminium pole top fitting and steel outreach arm for Ø76mm poles, installed at 90°. Painted aluminium grey (see on page 121).
14068894	A0363/2-180°	94	Twin WIN 02 aluminium pole top fitting and steel outreach arm for Ø76mm poles, installed at 180°. Painted aluminium grey (see on page 121).
14068994	A0363/3-90°	94	Three WIN 02 aluminium pole top fitting and steel outreach arm for Ø76mm poles, installed at 90°. Painted aluminium grey (see on page 121).
14069094	A0363/3-120°	94	Three WIN 02 aluminium pole top fitting and steel outreach arm for Ø76mm poles, installed at 120°. Painted aluminium grey (see on page 121).
14069194	A0363/4	94	Four WIN 02 aluminium pole top fitting and steel outreach arm for Ø76mm poles. Painted aluminium grey (see on page 121).



# 5STARS 1



**5STARS 1** are compact high performance floodlights with a contemporary design suitable for outdoor and indoor use. A highly functional product with a comprehensive range of reflectors, light sources and accessories makes them ideal for a range of applications from harsh industrial environments to architectural feature and contemporary urban lighting (see page. 120).

The 5Stars range is available in two sizes: 5STARS 1 (max 150W) and 5STARS 2 (max 400W see page 30). Ceiling recessed versions are also available.

- Die cast aluminium body painted aluminium grey.
- Reflector optics available; asymmetrical (various degrees), circular symmetrical, circular asymmetrical and street lighting reflector. High purity aluminium anodised and polished.
- 5mm toughened "safety" glass cover mounted in a technopolymer frame which hinges down for maintenance.
- Silicone rubber anti-ageing gasket.
- Mounting bracket in steel finished polyester painted aluminium grey.
- M16X1.5 anti-tearing cable gland for H05RN-F 3G1 5-10mm dia. cables.
- Stainless steel external screws.

## FLOODLIGHTS



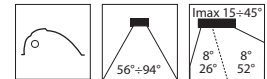
### 94 5STARS 1/A20 - A45

				Asymmetrical reflector	
05077694	/A20 71 94 CR		E27 70W	HQI-E /CDO-ET	
05077594	/A20 72 94 CR		E27 70W	NAV-T / SON-T Plus * / CDO-TT	
05077494	/A20 73 94 CR		E27 70W	NAV-E / SON $\Delta$	
05077794	/A20 101 94 CR		E27 100W	HQI-E	
05077894	/A20 151 94 CR		E27 150W	HQI-E	
• 05077994	/A20 42 94 ETRC		GX24q-3 26W	DULUX D-E/PLC-4P	
			GX24q-3 32W	DULUX T-E	
			GX24q-4 42W	DULUX T-E/PLT-4P	
• 05085694	/A20 57 94 ETRC		GX24q-5 57W	DULUX T-E	
05077294	/A45 70 94 CR		RX7s 70W	NAV-TS / HQI-TS / HCI-TS / MH-TD / CDM-TD	
05077394	/A45 150 94 CR		RX7s 150W	NAV-TS / HQI-TS / HCI-TS / MH-TD / CDM-TD	

• Complete with electronic ballast 220-240V 50/60Hz.

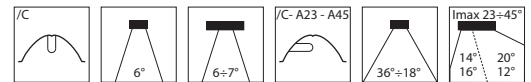
\* We recommend using frosted glass (A0281)

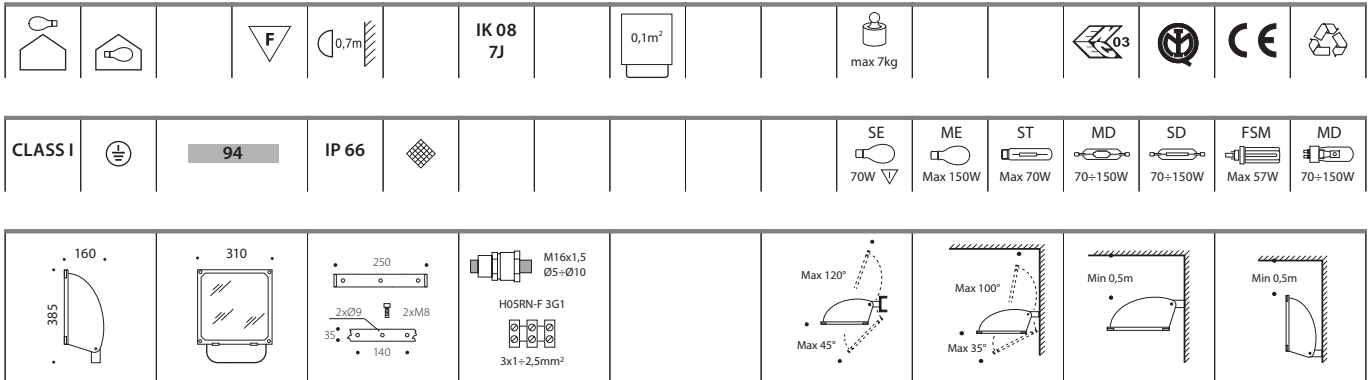
$\Delta$  For lamps with integral ignitor.



### 94 5STARS 1/C /C-A23 /C-A45

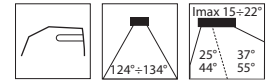
				Circular reflector	
05078094	/C 71 94 CR		G12 70W	HQI-T / HCI-T / CDM-T	
05078194	/C 151 94 CR		G12 150W	HQI-T / HCI-T / CDM-T	
05085994	/C-A23 71 94 CR		G12 70W	HQI-T / HCI-T / CDM-T	
05086094	/C-A23 151 94 CR		G12 150W	HQI-T / HCI-T / CDM-T	
05086194	/C-A45 71 94 CR		G12 70W	HQI-T / HCI-T / CDM-T	
05086294	/C-A45 151 94 CR		G12 150W	HQI-T / HCI-T / CDM-T	





94		5STARS 1/WR E27/FLUO		Roadway reflector	
05101894	/WR 71	94	CR		E27 70W HQI-E / CDO-ET
05101794	/WR 72	94	CR		E27 70W NAV-T / SON-T Plus * / CDOTT
05101694	/WR 73	94	CR		E27 70W NAV-E / SON
05101994	/WR 101	94	CR		E27 100W HQI-E
05102094	/WR 151	94	CR		E27 150W HQI-E
• 05102194	/WR 42	94	ETRC		GX24q-3 26W DULUX D-E/PLC-4P GX24q-3 32W DULUX T-E GX24q-4 42W DULUX T-E/PLT-4P
• 05102294	/WR 57	94	ETRC		GX24q-5 57W DULUX T-E

- Complete with electronic ballast 220-240V 50/60Hz.
- \* We recommend using frosted glass (A0281)
- For lamps with integral ignitor.



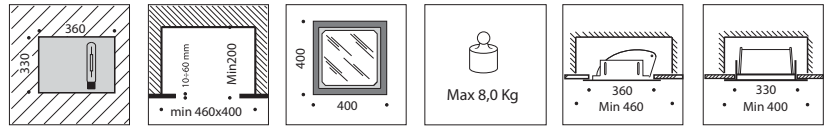




**Recessed version**

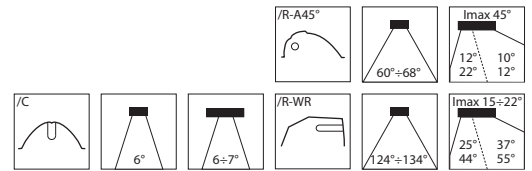
5Stars1 fittings up to 150W HID max. are available, on request, as recessed versions. Suitable for use in false ceiling applications; petrol station canopies, indoor sports halls etc.

- Steel recessing frame painted aluminium grey.
- Stainless steel external screws.

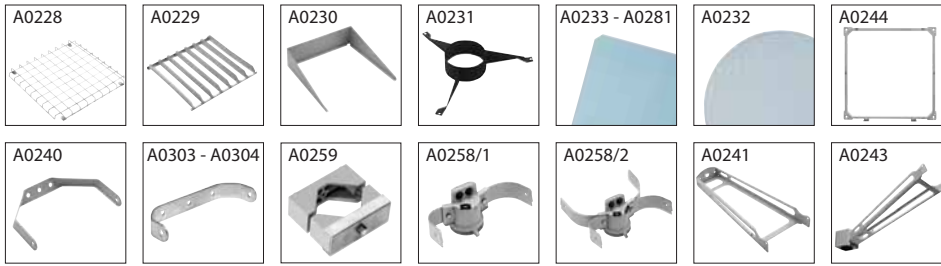


**94 5STARS 1 / Recessed**

<b>05087794</b>	/R-A45 70	94	CR		RX7s	70W	NAV-TS / HQI-TS / HCI-TS / MH-TD / CDM-TD
<b>05087894</b>	/R-A45 150	94	CR		RX7s	150W	NAV-TS / HQI-TS HCI-TS / MH-TD / CDM-TD
<b>05133194</b>	/R-C 71	94	CR		G12	70W	HQI-T / HCI-T / CDM-T
<b>05129594</b>	/R-WR 71	94	CR		E27	70W	HQI-E / CDO-ET



## ACCESSORIES



14016820	A0228		Ø3mm galvanised steel wire guard. (18 Joule).
14016994	A0229	94	External steel anti-glare louvre painted aluminium grey.
14017094	A0230	94	External steel cowl painted aluminium grey.
14017120	A0231		Aluminium internal circular baffle (for 5STARS 1/C only).
14017320	A0233		Frosted glass optional replacement for standard clear glass.
14042520	A0281		Frosted glass supplement to be ordered together with the fitting for factory fitted option.
14017220	A0232		Prismatic glass with stainless steel retaining springs suitable for 5STARS 1/C - 1/CA fittings only.
14021420	A0244		Self-extinguishing 850°C glow wire test technopolymer V0-UL94 frame finished RAL 7035 grey.
14020894	A0240	94	Long bracket for ceiling mounting, painted aluminium grey.
14047904	A0303		5Stars 1 bracket in stainless steel to avoid rust spots on the installation surface.
14048004	A0304		5Stars 1 stainless steel mounting bracket.
14029094	A0259/1	94	Supplement for 5Stars 1 stainless steel mounting bracket to be ordered together with the fitting for factory fitted option.
14047194	A0259/2	94	Die cast aluminium sliding pole clamp painted aluminium grey suitable for single 5Stars fitting on Ø60-76mm poles.
14028894	A0258/1	94	5Stars1 single pole top bracket for Ø60-76mm poles.
14028994	A0258/2	94	5Stars1 twin (diametrically opposite) pole top bracket for Ø60-76mm poles.
14020994	A0241	94	600mm wall mounting extension arm in steel painted aluminium grey.
14021194	A0243/1	94	Single 5STARS1 aluminium pole top fitting and steel outreach arm for Ø60-76mm poles. Aluminium pole top and steel outreach arm, painted aluminium grey (see on page 120).
14063894	A0243/2-90°	94	Twin 5STARS1 aluminium pole top fitting and steel outreach arm for Ø60-76mm poles, installed at 90°. Painted aluminium grey (see on page 120).
14021294	A0243/2-180°	94	Twin 5STARS1 aluminium pole top fitting and steel outreach arm for Ø60-76mm poles, installed at 180°. Painted aluminium grey (see on page 120).
14063994	A0243/3-90°	94	Three 5STARS1 aluminium pole top fitting and steel outreach arm for Ø60-76mm poles, installed at 90°. Painted aluminium grey (see on page 120).
14050194	A0324/3-120°	94	Three 5STARS1 aluminium pole top fitting and steel outreach arm for Ø60-76mm poles, installed at 120°. Painted aluminium grey (see on page 120).
14021394	A0243/4	94	Four 5STARS1 aluminium pole top fitting and steel outreach arm for Ø60-76mm poles, installed at 90°. Painted aluminium grey (see on page 120).

PUBLIC LIGHTING - see page 120.



# 5STARS 2



**5STARS 2** are compact high performance floodlights with a contemporary design suitable for outdoor and indoor use. A highly functional product with a comprehensive range of reflectors, light sources and accessories makes them ideal for a range of applications from harsh industrial environments to architectural feature and contemporary urban lighting (see page. 120).

The 5Stars range is available in two sizes: 5Stars 1 (max 150W see page 26) and 5Stars 2 (max 400W). Ceiling recessed versions are also available.

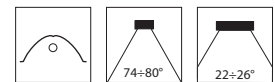
- Die cast aluminium body painted aluminium grey.
- Reflector optics available; symmetrical, asymmetrical (Imax 45° and 55°), circular and street lighting reflector. High purity aluminium anodised and polished.
- Galvanised sheet steel gear tray provides, provides heat dissipation for component longevity.
- 5mm Toughened "safety" glass cover mounted in a technopolymer frame which hinges down for maintenance.
- Silicone rubber anti-ageing gasket.
- Cover fixing clips in anodized aluminium with AISI 302 stainless steel spring.
- Mounting bracket in steel painted aluminium grey, with graduated goniometer positioning device.
- M20X1.5 anti-tearing cable gland for H07RN-F 3G2.5 10-14mm dia. cables.
- Stainless steel external screws.



94 5STARS 2/S - E40

Symmetrical reflector

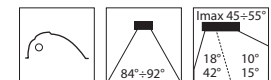
05069694	/S 250 CR		E40	250W	HPI-T Plus
05069794	/S 252 CR		E40	250W	NAV-T/SON-T/HQI-T/D
05069894	/S 400 CR		E40	400W	HPI-T Plus
05069994	/S 402 CR		E40	400W	NAV-T/SON-T/HQI-BT/D



94 5STARS 2/A45 - A55 E40

Asymmetrical reflector

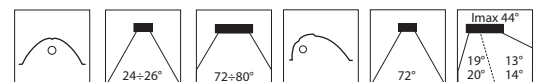
05070094	/A45 250 CR		E40	250W	HPI-T Plus
05070194	/A45 252 CR		E40	250W	NAV-T/SON-T/HQI-T/D
05070294	/A45 400 CR		E40	400W	HPI-T Plus
05070394	/A45 402 CR		E40	400W	NAV-T/SON-T/HQI-BT/D
05070994	/A55 250 CR		E40	250W	HPI-T Plus
05071094	/A55 252 CR		E40	250W	NAV-T/SON-T/HQI-T/D
05071194	/A55 400 CR		E40	400W	HPI-T Plus
05071294	/A55 402 CR		E40	400W	NAV-T/SON-T/HQI-BT/D



94 5STARS 2/S - Fc2

Symmetrical reflector

05189694	/S 253 CR		Fc2	250W	NAV-TS
05189794	/S 254 CR		Fc2	250W	HQI-TS/MH-TD
05189894	/S 403 CR		Fc2	400W	NAV-TS/HQI-TS
05189994	/A45 253 CR		Fc2	250W	NAV-TS
05190094	/A45 254 CR		Fc2	250W	HQI-TS/MH-TD
05190194	/A45 403 CR		Fc2	400W	NAV-TS/HQI-TS



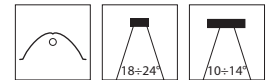


				<b>IK 08 5J</b>									
<b>CLASS I</b>		<b>94</b>	<b>IP 66</b>										
										<b>ST</b>  Max400W	<b>MT</b>  Max400W	<b>SD</b>  Max400W	<b>MD</b>  Max400W



**94** 5STARS 2/C Fc2 Circular reflector

<b>05071794</b>	/C	250	94	CR		Fc2	250W	MH-TD/HQI-TS
<b>05071894</b>	/C	252	94	CR		Fc2	250W	NAV-TS
<b>05071994</b>	/C	402	94	CR		Fc2	400W	NAV-TS/HQI-TS

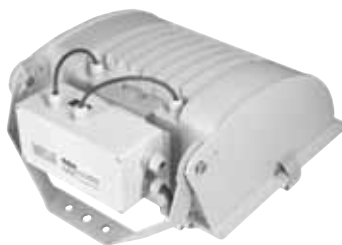
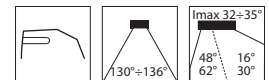


**94** 5STARS 2/WR E40 Roadway reflector

<b>05071394</b>	/WR	250	94	CR		E40	250W	+HPI-T Plus
<b>05071494</b>	/WR	252	94	CR		E40	250W	NAV-T/SON-T/HQI-T/D
<b>05071594</b>	/WR	400	94	CR		E40	400W	+HPI-T Plus
<b>05071694</b>	/WR	402	94	CR		E40	400W	NAV-T/SON-T/HQI-BT/D

• HPI-T Plus - Orientation : horizontal ± 20°.

5STARS 2/WR floodlight complete with full cut-off street lighting reflector for a variety of road and street lighting applications. They are also suitable for general area car park lighting, walls, industrial / commercial buildings and façades.

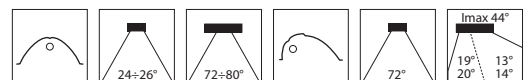


**94** 5STARS 2/HR Fc2 IP65 Hot Restrike

<b>05154394</b>	/HR	S	402	94	CR		Fc2	400W	NAV-TS/HQI-TS
<b>05154494</b>	/HR	A45	402	94	CR		Fc2	400W	NAV-TS/HQI-TS

5STARS 2 HR (Hot Restrike) fittings complete with electronic device supplying high voltage impulse (35kV) for instant hot re-strike.

Wiring as standard 5STAR 2 fitting. Total weight for (HR) version - 17.5Kg.

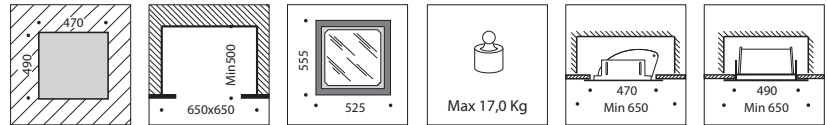




Recessed version

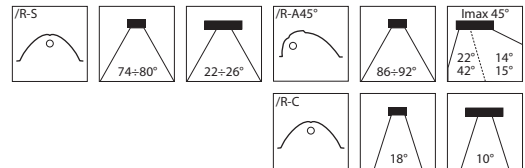
All 5Stars2 fittings (excluding 400W Fc2) are available, on request, as recessed versions suitable for use in false ceiling applications; petrol station canopies, indoor sports halls etc. Emergency lighting options are available on request, either as integral or remote box mounting.

- Steel chromate pre-treated recessing frame painted aluminium grey.
- Stainless steel external fixings.



94 5STARS 2 / R-S A45 C

05075094	/R-S	250	CR		E40	250W	HPI-T Plus
05075294	/R-S	252	CR		E40	250W	NAV-T/SON-T/HQI-T/D
05075394	/R-S	402	CR		E40	400W	NAV-T/SON-T/HQI-BT/D
05075494	/R-A45	252	CR		E40	250W	NAV-T/SON-T/HQI-T/D
05122094	/R-A45	400	CR		E40	400W	HPI-T Plus
05075594	/R-A45	402	CR		E40	400W	NAV-T/SON-T/HQI-BT/D
05133294	/R-C	250	CR		Fc2	250W	MH-TD/HQI-TS



ACCESSORIES



14012520	A0210		Ø3mm galvanised steel wire guard (18 Joule).
14012320	A0208	94	External steel anti-glare louvre painted aluminium grey.
14012420	A0209	94	External steel cowl painted aluminium grey.
14026520	A0249		5STARS 2 frosted glass, optional replacement for standard clear glass.
14042620	A0282		5STARS 2 frosted glass supplement to be ordered together with the fitting for factory fitted option.
14002099	A0163		Prismatic glass with stainless steel retaining springs suitable for 5STARS 2/C fittings only.
14012620	A0211/1	94	Single 5STARS 2 pole top fitting and outreach arm for Ø60-76mm poles.
14012720	A0211/2	94	Twin 5STARS 2 pole top fitting and outreach arm for Ø60-76mm poles.
14011594	A0031	94	1000mm extension arm in heavy gauge steel painted aluminium grey.
14041494	A0278	94	800mm wall mounted extension in sheet steel painted aluminium grey (see on page 120).
14063594	A0270/1	94	Single 5STARS2 aluminium pole top fitting and steel outreach arm for Ø76mm poles. (see page 120). Painted aluminium grey (see on page 120).
14045294	A0270/2-90°	94	Twin 5STARS2 aluminium pole top fitting and steel outreach arm for Ø76mm poles, installed at 90°. Painted aluminium grey (see on page 120).
14063694	A0270/2-180°	94	Twin 5STARS2 aluminium pole top fitting and steel outreach arm for Ø76mm poles, installed at 180°. Painted aluminium grey (see on page 120).
14045394	A0270/3-90°	94	Three 5STARS2 aluminium pole top fitting and steel outreach arm for Ø76mm poles, installed at 90°. Painted aluminium grey (see on page 120).
14052394	A0330/3-120°	94	Three 5STARS2 aluminium pole top fitting and steel outreach arm for Ø76mm poles, installed at 120°. Painted aluminium grey (see on page 120).
14063794	A0270/4	94	Four 5STARS2 aluminium pole top fitting and steel outreach arm for Ø76mm poles, installed at 90°. Painted aluminium grey (see on page 120).
14044620	A0290		5STARS 2 strengthening bracket. Designed for single point fixing M12-M14 screw in centre of the bracket.
14021720	A0245		250W tungsten halogen E27 auxiliary lamp facility, provides instant light during run up of a discharge lamp.
14042320	A0280/Recessed (Only Recessed)		To be ordered together with the fitting for factory fitted option.
14013420	A0213 / 35-1000W		5STARS 2 timed ignitor supplement to be ordered together with the fitting.



# JOLLY 1-2



**JOLLY** is a range of **multipurpose** general area floodlights suitable for 70-400W metal halide and high pressure sodium lamps.

A highly functional engineered and robust product, available with **symmetrical**, **asymmetrical** and **circular** reflectors, providing efficient light output performance.

JOLLY floodlight features:

- High light output ratios
- Robust construction and reliability
- Fast and easy installation / maintenance

JOLLY floodlights are manufactured entirely at the SBP factory on a totally automated assembly thereby producing a **competitive** high quality product.

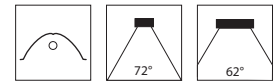
- Die cast **aluminium** alloy corrosion **resistant** body, sand blast and phospho-chromate pre-treated, finished polyester powder coated aluminium grey.
- Reflector in high purity **aluminium** anodised and polished.
- Cover fixing clips in anodized aluminium with **stainless steel** spring.
- **Toughened** safety glass cover, hinges down for easy access and maintenance.
- Silicone **anti-ageing** gasket.
- **Stainless steel** external screws
- M20x1.5 IP68 **anti-tearing** cable gland
- **Steel** mounting bracket finished aluminium grey colour.

## FLOODLIGHTS



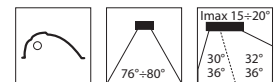
**94** JOLLY 1/S Symmetrical reflector

<b>05208694</b>	/S 70	94	CR		RX7s 70W	HQI-TS / MH-TD / CDM-TD / NAV-TS
<b>05208794</b>	/S 150	94	CR		RX7s 150W	HQI-TS / MH-TD / CDM-TD / NAV-TS



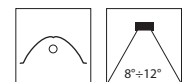
**94** JOLLY 1/A Asymmetrical reflector

<b>05208894</b>	/A 70	94	CR		RX7s 70W	HQI-TS / MH-TD / CDM-TD / NAV-TS
<b>05208994</b>	/A 150	94	CR		RX7s 150W	HQI-TS / MH-TD / CDM-TD / NAV-TS



**94** JOLLY 1/C Circular reflector

<b>05226794</b>	/C 70	94	CR		RX7s 70W	HQI-TS / MH-TD / CDM-TD / NAV-TS
<b>05226894</b>	/C 150	94	CR		RX7s 150W	HQI-TS / MH-TD / CDM-TD / NAV-TS



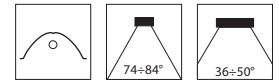


				Jolly 1/Jolly2 <b>IK 07</b> 3J	<b>IK 08</b> 6J	Jolly 1/Jolly2 0.075m <sup>2</sup> 0.17m <sup>2</sup>	Jolly 1/Jolly2 0.028m <sup>2</sup> 0.056m <sup>2</sup>	Jolly 1/Jolly2 max 4,7kg	Jolly 1/Jolly2 max 10kg											
CLASS I		<b>94</b>	IP 65							SD 70÷150W	MD 70÷150W	MD Max 250W	ST Max 400W	MT Max 1000W						
	<table border="1"> <tr><th></th><th>Jolly1</th><th>Jolly2</th></tr> <tr><td>A</td><td>355</td><td>525</td></tr> <tr><td>B</td><td>265</td><td>400</td></tr> <tr><td>C</td><td>120</td><td>170</td></tr> </table>		Jolly1	Jolly2	A	355	525	B	265	400	C	120	170	Jolly1-2 	Jolly 1/Jolly2 140-242  3xØ9 3xØ11 45° 3xM6 2xM10 68-200	Jolly1  PG11 Ø5÷Ø10 H05RN-F 3G1 3x2,5mm <sup>2</sup>	Jolly2  M20x1,5 Ø10÷Ø14 H07RN-F 3G1,5 3x2,5mm <sup>2</sup>	Jolly 1/Jolly2  Min 500	Jolly2  NO 400W	Jolly 1/Jolly2  Min 500 Min 1000 Min 90°
	Jolly1	Jolly2																		
A	355	525																		
B	265	400																		
C	120	170																		



**94** JOLLY 2/S Symmetrical reflector

<b>05187794</b>	/S 150 CR		E40 150W NAV-T/SON-T/CDO-TT
<b>05187994</b>	/S 252 CR		E40 250W NAV-T/SON-T/HQI-T/D
<b>05188194</b>	/S 402 CR		E40 400W NAV-T/SON-T/HQI-BT/D
<b>05187894</b>	/S 250 CR		E40 250W HPI-T Plus
<b>05188094</b>	/S 400 CR		E40 400W HPI-T Plus



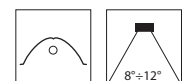
**94** JOLLY 2/A Asymmetrical reflector

<b>05188294</b>	/A 150 CR		E40 150W NAV-T/SON-T/CDO-TT
<b>05188494</b>	/A 252 CR		E40 250W NAV-T/SON-T/HQI-T/D
<b>05188694</b>	/A 402 CR		E40 400W NAV-T/SON-T/HQI-BT/D
<b>05188394</b>	/A 250 CR		E40 250W HPI-T Plus
<b>05188594</b>	/A 400 CR		E40 400W HPI-T Plus



**94** JOLLY 2/C Circular reflector

<b>05225894</b>	/C 150 94 CR		RX7s 150W HQI-TS / MH-TD / CDM-TD / NAV-TS
<b>05225994</b>	/C 250 94 CR		Fc2 250W HQI-TS / MH-TD



# LEO



LEO are multipurpose professional floodlights for 150-400W HID lamps, suitable for outdoor and indoor lighting. A comprehensive range of reflectors and accessories combine to make LEO a flexible product for a wide range of design applications.

Reflector options:

- Symmetrical medium beam
- Asymmetrical medium beam
- Circular narrow beam
- Roadway medium beam.

- Die cast aluminium finished aluminium grey.
- Reflectors in high purity aluminium anodised and polished.
- 5mm Toughened "safety" glass cover hinges down for maintenance.
- Silicone anti-ageing gasket.
- Cover fixing clips in anodized aluminium with AISI 302 stainless steel spring.
- Steel mounting bracket finished aluminium grey
- M20x1.5 IP68 anti tearing cable glands for H07RNF 3G 2.5 Ø10-14 mm dia. cables.
- Stainless steel external screws.

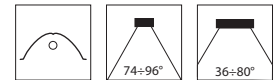
## FLOODLIGHTS



### 94 LEO/S

#### Symmetrical reflector

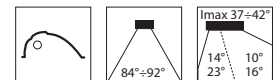
05057194	151	CR		RX7s	150W	HQI-TS/MH-TD/NAV-TS
05056694	150	CR		E40	150W	NAV-T/SON-T/CDO-TT
05056794	252	CR		E40	250W	NAV-T/SON-T/HQI-T/D
05056894	402	CR		E40	400W	NAV-T/SON-T/HQI-BT/D
05056994	250	CR		E40	250W	HPI-T Plus
05057094	400	CR		E40	400W	HPI-T Plus



### 94 LEO/A

#### Asymmetrical reflector

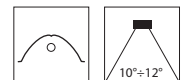
05058094	151	CR		RX7s	150W	HQI-TS/MH-TD/NAV-TS
05057594	150	CR		E40	150W	NAV-T/SON-T/CDO-TT
05057694	252	CR		E40	250W	NAV-T/SON-T/HQI-T/D
05057794	402	CR		E40	400W	NAV-T/SON-T/HQI-BT/D
05057894	250	CR		E40	250W	HPI-T Plus
05057994	400	CR		E40	400W	HPI-T Plus

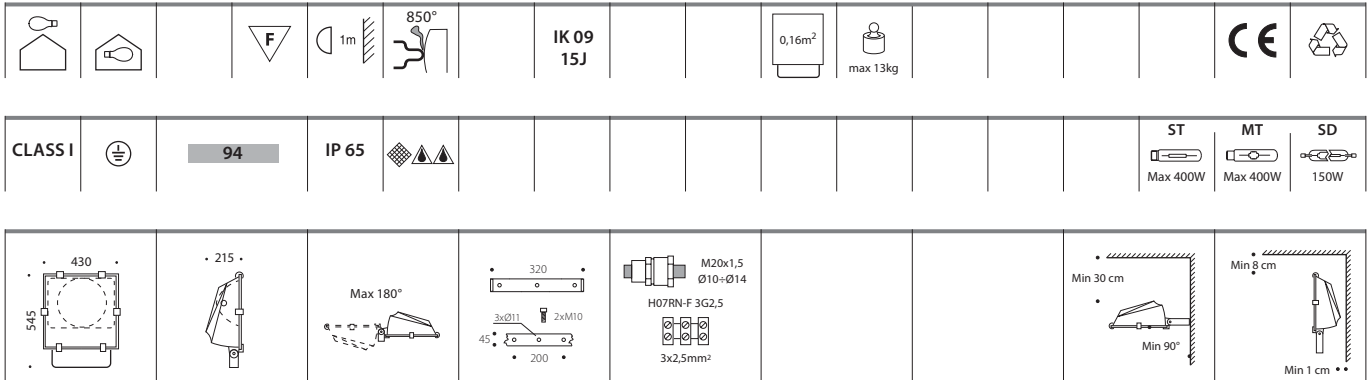


### 94 LEO/C

#### Circular reflector

05058494	150	CR		RX7s	150W	HQI-TS/MH-TD/NAV-TS
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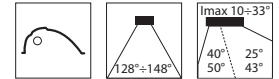


**94** LEO/WR

Roadway reflector

• <b>05061794</b>	100 Soft	CR		E40	100W	NAV-T/SON-T
• <b>05061894</b>	150 Soft	CR		E40	150W	NAV-T/SON-T/CDO-TT
• <b>05061994</b>	250 Soft	CR		E40	250W	NAV-T/SON-T/HQI-T/D
•• <b>05061394</b>	100	CR		E40	100W	NAV-T/SON-T
•• <b>05061494</b>	150	CR		E40	150W	NAV-T/SON-T/CDO-TT
•• <b>05061594</b>	250	CR		E40	250W	NAV-T/SON-T/HQI-T/D

- Frosted glass fittings.
- Clear glass fittings.



#### ACCESSORIES



14327933	A0084	Steel wire guard (20Joule).
14009794	A0085	External steel anti-glare louvre painted aluminium grey.
14009594	A0070	94 External steel cowl painted aluminium grey.
14009894	A0169	94 External sheet steel circular baffle finished grey, available for LEO/C version only.
14018220	A0234	Frosted glass supplement to be ordered together with the fitting for factory fitted option.
14396993	A0105	Prismatic glass suitable for LEO/C fittings only.
14009694	A0083	94 Long bracket for ceiling mounting, painted aluminium grey.
14001699	A0160	INOX LEO mounting bracket in stainless steel.
14009994	A0104/1	94 Single aluminium pole top bracket for Ø60-76mm poles painted aluminium grey.
14010094	A0104/2	94 Twin aluminium pole top bracket for Ø60-76mm poles painted aluminium grey.
14012294	A999	94 Steel 'U' bolt clamp for Ø60-80mm poles painted aluminium grey.
14011594	A0031	94 1m support in strong sheet steel painted aluminium grey.



# YPSILON



"Y"psilon are compact low wattage floodlights for indoor and outdoor installation. Offering a wide range of lamp sources, accessories, and options for asymmetrical, symmetrical and circular reflectors, the Ypsilon is a small and flexible fitting ideal for lighting; shop windows, signage / advertising boards, small features, architectural details and interiors.

- Die cast aluminium body available in a choice of three colours; black, white or aluminium grey.
- Reflectors in high purity aluminium anodised and polished. HID options available as; wide or narrow beam asymmetrical and circular reflectors. Compact fluorescent available as; wide beam symmetrical.
- Toughened "safety" glass cover mounted in a technopolymer frame which hinges down for maintenance.
- Silicone anti-ageing gasket.
- Mounting bracket sheet steel painted.
- Stainless steel external screws.

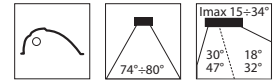
## FLOODLIGHTS



80 85 94

### Asymmetrical reflector

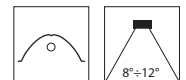
05945013	05947023	05067894	Y 70	CR		RX7s	70W	HQI-TS/MH-TD
05944013	05946023	05067994	Y 150	CR		RX7s	150W	CDM-TD/NAV-TS



80 85 94

### Circular reflector

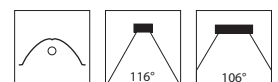
05949013	05951023	05068394	Y 70	CR		RX7s	70W	HQI-TS/MH-TD
05948013	05950023	05068494	Y 150	CR		RX7s	150W	CDM-TD/NAV-TS



80 85 94

### Symmetrical reflector

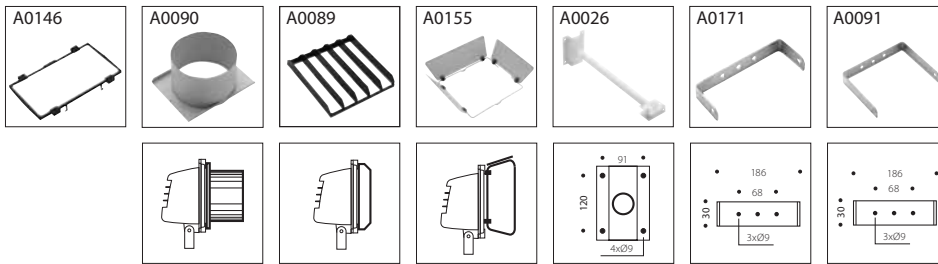
05959013	05960023	05068294	Y 224	CR		2G112x24W	DULUX-L-SP/PL-L
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					<b>IK 08 6J</b>							
<b>CLASS I</b>		<b>80</b> 85	<b>94</b>	<b>IP 65</b>						<b>MD</b>  70=150W	<b>SD</b>  70=150W	<b>FSD</b>  24W

**ACCESSORIES**



<b>14467013</b>	<b>A0146</b>		Replace the standard frame with the A0146 accessory (available only in black colour) to give the fitting resistance to the glow wire test at 850°C (V0-UL94).
14351993	A0090	80	Circular external baffle in black painted aluminium , only suitable for YPSILON /C.
14012094	A0090	94	Circular external baffle in grey painted aluminium, only suitable for YPSILON /C.
14350993	A0089	80	Antidazzle barrier in black painted steel sheet, (not suitable for YPSILON 224).
14011994	A0089	94	Antidazzle barrier in grey aluminium painted steel sheet (not suitable for YPSILON 224).
14000601	A0155	80	Barndoors painted in black (not suitable for YPSILON 224).
14012194	A0155	94	Barndoors painted aluminium grey (not suitable for YPSILON 224).
14235013	A0026/500	80	50 cm. support in black painted steel sheet.
14236023	A0026/500	85	50 cm. support in white painted steel sheet.
14015194	A0026/500	94	50 cm. support in grey painted steel sheet.
14237013	A0026/1000	80	100 cm. support in black painted steel sheet.
14238023	A0026/1000	85	100 cm. support in white painted steel sheet.
14015294	A0026/1000	94	100 cm. support in grey painted steel sheet.
14003504	A0171	INOX	Stainless steel (AISI 304) bracket. To avoid any rust mark which could damage the installation surface (ex. monuments).
14352993	A0091	80	Long bracket in black painted steel, for ceiling mounting.
14014594	A0091	94	Long bracket in grey aluminium painted steel, for ceiling mounting.



# SPIDER



**SPIDER** tungsten halogen fittings available in 500W, 1000W and 1500W lamps are ideal for security lighting where instant (hot re-strike) is required, or for small area low usage lighting. Other SPIDER versions available as follows:

- SPIDER 511 L + A107/T tungsten halogen fitting complete with supply cable, plug, 500W tungsten halogen lamp, and portable telescopic tri-pod stand.

- Aluminium body finished black or available in white for 500W version only.
- Technopolymer cover frame finished black, hinges down for maintenance.
- Wide beam asymmetrical reflector in high purity aluminium anodised and polished.
- Silicone anti-ageing rubber gasket.
- Toughened safety glass.
- Technopolymer control gear and wiring box finished black.
- Mounting bracket in sheet steel finished black.
- Stainless steel external screws.

## FLOODLIGHTS

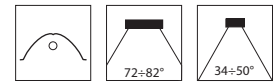


### 80 85 SPIDER

01086011	01090021	511		R7s	200÷500W	■
• 01590011		511/II		R7s	200÷500W	■
•• 01648011		12/III		GY6,35	2x100W/24V - 2x50W/12V	■
01717011		1000		R7s	1000W	□
01882011		1500		R7s	1500W	□

- CLASS II
- CLASS III With stainless steel bracket.

- Minimum order 12 pcs. or multiple quantities thereof.
- Minimum order 3 pcs. or multiple quantities thereof.



### 80 SPIDER + A107/T

03046011	511 + L + A107/T + H05RN-F		R7s	200÷500W
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SPIDER 511 + A107/T+L tungsten halogen fitting complete with 3m H05RN-F supply cable, plug, 500W tungsten halogen lamp, and portable telescopic adjustable height tri-pod stand. Steel tubular legs finished black. Four colour print packaging.



					<b>IK 07 3J</b>																																									
<b>CLASS I</b>		<b>80</b>	<b>85</b>	<b>IP 65</b>							<b>HDG</b> 200-1500W	<b>HS</b> max 100W																																		
		<b>SPIDER 511+1500</b>			<b>BRACKET</b>																																									
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	511	1000	1500W																																											
E	25	30	30																																											
F	68	68	68																																											

**ACCESSORIES**



14458993	A0138/500		SPIDER 511 steel wire guard finished black.
14459993	A0139/1000		SPIDER 1000 steel wire guard finished black.
14460993	A0140/1500		SPIDER 1500 steel wire guard finished black.
14014011	A101	80 - 511-12	Anti-glare louvre in sheet steel finished black for SPIDER 511/12.
14266011	A104	80 - 511-12	Adjustable barn doors in sheet finished black for SPIDER 511/12.
14016011	A103	80 - 511-12	Sheet steel cowl finished black for SPIDER 511/12.
14337011	A107/T	80	Adjustable telescopic tri-pod stand in steel finished black.
14023011	A105/500	80	500mm extension arm in sheet steel finished black suitable for SPIDER 511 and SPIDER 12 only.
14085011	A105/1000	80	1000mm extension arm in sheet steel finished black suitable for SPIDER 511 and SPIDER 12 only.
14235013	A0026/500	80	500mm extension arm Ø22 tubular steel finished black suitable for all SPIDER models.
14236023	A0026/500	85	500mm extension arm Ø22 tubular steel finished white suitable for all SPIDER models.
14237013	A0026/1000	80	1000mm extension arm Ø22 tubular steel finished black suitable for all SPIDER models.
14238023	A0026/1000	85	1000mm extension arm Ø22 tubular steel finished white suitable for all SPIDER models.



# LYN4 TopLED



LYN4 is a range of small LED IP68 recessed uplighter fittings designed to take the load and impact from motor vehicles.

Available as "TopLED" upward projected distribution or "SideLED" side radial distribution (see page 46). LYN4 are made from high quality materials with precision finishing and attention to design, which makes them suitable for a variety of both indoor and outdoor applications in the most prestigious of projects. Ideal as accent and directional walkway lighting, creating dramatic effects in gardens, parks and public areas. A choice of cover rings are available; Stainless steel (-I), Copper (-Cu), or Aluminium finished (-AL) supplied with white, blue, yellow, red or green LED light sources.

LYN4-T auto extinguishing 960° glow wire test V1-UL 94 versions are available on request.

- Technopolymer ring covered in stainless steel or copper and, as an alternative, painted grey aluminium.
- Toughened transparent safety glass with internal prismatic wide lens.
- Long life silicone gasket.
- Technopolymer recessed outer case and body.
- Every fitting is complete with two IP68 anti-tearing PG9 cable glands + one grommet for single or in series connection installation.
- Stainless steel external screws.
- 3 or 9 LEDs mounted on electronic panels that must be fed with extra low voltage 24 CC stabilised. 10W and 40W electronic transformers are available as accessories and must be installed in protected areas. The transformers are also available with an IP67 box for recessed installation (A0221/10 - A0221/40).

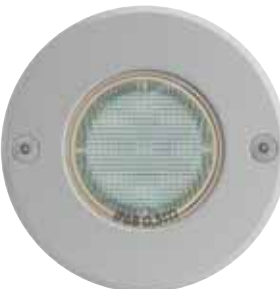
## ACCENT LIGHT ARCHITECTURAL - Recessed in-ground LED



04	LYN4 / T - Inox		Stainless steel ring and signalling LED	
06001204	○ T-I/9	White	9 LED 120°	24V-1,5W
06001404	● T-I/9	Blue		
06001604	● T-I/9	Yellow		
06001804	● T-I/9	Red		
06002004	● T-I/9	Green		



50	LYN4 / T - Cu		Copper ring and signalling LED	
06003250	○ T-Cu/9	White	9 LED 120°	24V-1,5W
06003350	● T-Cu/9	Blue		
06003450	● T-Cu/9	Yellow		
06003550	● T-Cu/9	Red		
06003650	● T-Cu/9	Green		



94	LYN4 / T - AL		Aluminium ring and signalling LED	
06001394	○ T-AL/9	White	9 LED 120°	24V-1,5W
06001594	● T-AL/9	Blue		
06001794	● T-AL/9	Yellow		
06001994	● T-AL/9	Red		
06002194	● T-AL/9	Green		





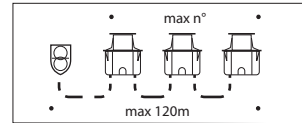
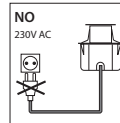
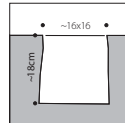
					IK 07 2J		max 0,5kg			
CLASS III		04 50	94	IP 68						Led Max 1,5W
LYN4 T				LYN4 T	LYN4 T/HP INT	LYN4 T/RGB		LYN4 T-I/Cu	LYN4 T-AL	
				PG9 Ø4÷Ø8 H05RN-F 2x1 2x1mm <sup>2</sup>	PG9 Ø4÷Ø8 H05RN-F 2x1 3x1,5mm <sup>2</sup>	PG9 Ø4÷Ø8 S05RN-F 3x1 6x1,5mm <sup>2</sup>	Max 6.000Kg	Max 1.000Kg	Max 2.000Kg	

### INSTALLATION

LYN4 fittings withstand impact from motor vehicles.  
Models Lyn4 T/I and Lyn4 T/Cu withstand a max. static load of 1000 Kg, and impact from motor vehicles fitted with pneumatic tyres with a max 6000kgs gross weight and travelling at a speed of max. 30km/h.

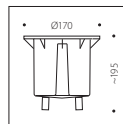
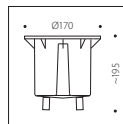
Models Lyn4 T/AL withstand a max. static load of 2000 Kg and impact from motor vehicles fitted with pneumatic tyres with a max 7500kg gross weight and travelling at a speed of max. 30km/h.

For optimum performance and safety, it is important that they are correctly installed by qualified personnel only and in strict accordance with manufacturer installation instructions, in particular by using only H05RN-F 2x1 cable available to order as an accessory (A0222).



LYN4 T	
10w	40w
6 max	24 max

### ACCESSORIES



14015420	A0220/10	10W Electronic transformer 95-240V 50/60Hz AC/24V CC, mounted on galvanised steel tray.
14015520	A0220/40	40W Electronic transformer 115-240V 50/60Hz AC/24V CC, mounted on galvanised steel tray.
14015620	A0221/10	Black technopolymer box IP67 with stainless steel cover and 10W electronic transformer 95-240V 50/60Hz AC/24V CC. Cable glands PG 13,5 for Ø6-10mm cable and for Ø25mm sheath.
14015720	A0221/40	Black technopolymer box IP67 with stainless steel cover and 40W electronic transformer 115-240V 50/60Hz AC/24V CC. Cable glands PG 13,5 for Ø6-10mm cable and for Ø25mm sheath.
14015820	A0222	Cable H05RN-F 2x1 to be ordered in metres.

# LYN4 HP



**LYN4 T/HP** (High Power) fittings complete with 1x3.2W high powered narrow beam LED are available in the following two versions:

- **LYN4 T/HP** same construction as LYN4T but complete with 3.2W narrow beam 6° LED adjustable  $\pm 10^\circ \times 360^\circ$ , available as white or blue LED.
- **LYN4 T/HP-INT** as above but complete with a lens to provide shafts of vertical light on wall / surface.

- Cover rings available in technopolymer with AISI 316 stainless steel or copper bonded surface, and die cast aluminium finished silver grey.
- Toughened clear safety glass.
- Long life silicone gasket.
- Technopolymer body and outer recessing enclosure.
- Two IP68 anti-tearing PG9 cable glands and one stopping plug for single or through wiring connection.
- Stainless steel external fixing screws.

LED unit complete with single LED requires appropriate supply and control accessories.

## ACCENT LIGHT ARCHITECTURAL - Recessed in-ground LED



04	50	94	/T - High Power	High Power LED
06011004	06011250	06011494	○ T/HP	White
06011104	06011350	06011594	● T/HP	Blue
				1 LED 6° 700mA - 3,2W

LYN4 T/HP must be fed with extra low voltage 700mA 24V DC stabilized supply. A0376/15 electronic 15W transformer 220-240V, 50/60Hz is available as an accessory and must be installed in an appropriate enclosed location, or alternatively ordered as accessory A0377/15 IP67 recessed gear box.



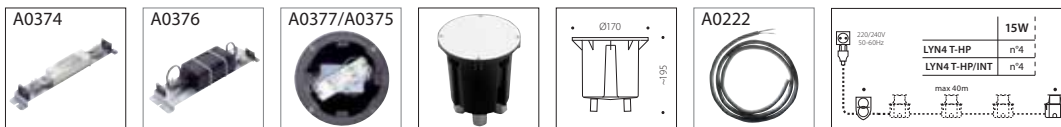
04	50	94	/T - High Power	High Power LED + narrow lens
06012304	06012550	06012794	○ T/HP/INT	White
06012404	06012650	06012894	● T/HP/INT	Blue
				1 LED 6° 350mA - 3,2W

LYN4 T/HP INT complete with narrow beam lens and high powered 1 x 3.2W LED adjustable  $\pm 3^\circ \times 360^\circ$ . Must be fed with an extra low voltage 350mA 48V-DC stabilized supply. Electronic transformers are available as accessories: 15W (A0376/15) 220-240V, 50/60Hz for installation in a suitably enclosed location.

Alternatively transformers are available supplied within an IP67 recessed box (A0377/15).



## ACCESSORIES



14071520	A0374/15W 350ma	15W Electronic transformer, 220-240V 50/60Hz 350 mA CC - max 48V output - mounted on galvanised steel tray.
14071720	A0376/15W 700ma	Electronic 15W transformer; 220-240V 50/60Hz AC output 24V DC with constant 700mA current, mounted on a galvanised steel support.
14071620	A0375/15W 350ma	15W Electronic transformer, 220-240V 50/60Hz 350 mA CC - max 48V or 700 mA CC - max 24V output - mounted into IP67 black technopolymer recessed box with stainless steel cover. Cable glands PG 13,5 for Ø6-12mm cable and for Ø25mm sheath.
14071820	A0377/15W 700ma	
14015820	A0222	Cable H05RN-F 2x1 to be ordered in metres.

# LYN4 HP RGB



**LYN4 T / RGB** version complete with colour changing device.

LYN4-T/RGB same construction as LYN4T but available with multi-chip LED RGB colour changing device accessory, providing three colour changing programs: rainbow (70 sec. cycle), cold colours (50 sec. cycle) and warm colour (50 sec. cycle). Single colour fixed is also possible.

- Cover rings available in **technopolymer** with AISI 316 stainless steel or copper bonded surface, and die cast aluminium finished aluminium silver grey.
  - **Toughened** clear safety glass.
  - **Long life** silicone gasket.
  - Technopolymer body and outer recessing enclosure
  - Two IP68 **anti-tearing PG9** cable glands and one stopping plug for single or through wiring connection.
  - **Stainless steel** external fixing screws.
  - LED unit complete with multichip 3x1.2W LED requires appropriate supply and control unit for operation.
- A0378 MASTER colour changing unit accessory to be ordered as a separate item along with fitting.
- **A0380 accessory cable for connection between MASTER unit and fitting.**

04	50	94	/T / HP - RGB	Colour changing multi-LED
06011604			T/HP/RGB	1 RGB 3x1,2W, 45° 350mA - 3,6W tot.
06011750			T/HP/RGB	
		06011894	T/HP/RGB	



## LYN4 T/RGB (see operating schematic).

A0378 MASTER unit supplies up to a maximum of 10 fittings with a maximum of 5 being controllable. The unit should be installed in an appropriate enclosed location.

- To allow control of more than 5 fittings A0379 SLAVE colour changing accessory unit is required to operate up to a further maximum of 5 fittings. SLAVE units are controlled via the MASTER unit.
- A0220/40 Electronic 40W transformer, for supply up to max 10 fittings.

### Operating up to a max 5 fittings order:

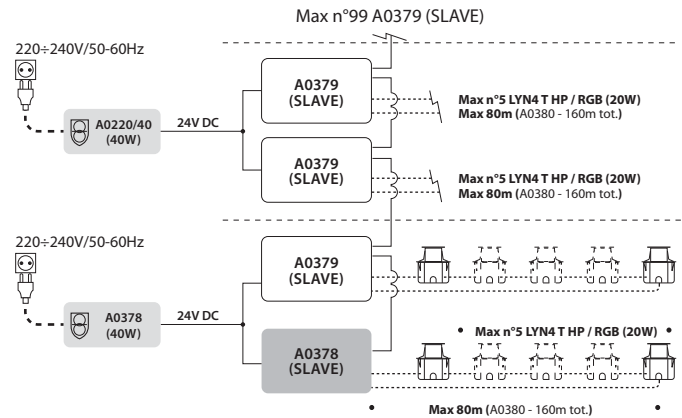
- One MASTER unit A0378

### Operating 6 to 10 fittings order:

- One MASTER unit A0378
- One SLAVE unit A0379

### Operating 11 to max 500 fittings order:

- One MASTER unit A0378
- Qty. SLAVE units A0379 = One per 5 fittings, starting from fitting 5+ (rounding up to next 5 fittings)
- Qty. Transformers A0220/40 = One per 10 fittings (rounding up to next 10 fittings).



## ACCESSORIES



14071920	A0378	Supply and control unit for LYN4 T/RGB including 40W transformer. 220-240V 50/60Hz AC, 24V DC (max. 10 fittings). MASTER colour changing unit (max. 5 fittings).
14072020	A0379	LYN4 T/RGB additional (SLAVE) colour changing unit (max. 5 fittings). SLAVE units are controlled by MASTER unit.
14072220	A0381	Infrared remote control for colour changing MASTER unit.
14072120	A0380	S05RN-F 3x1 x RGB cable sold and supplied in 1 metre units.

# LYN4 SideLED



**Lyn4** are small IP68 motor vehicle impact resistant Led uplighter fittings for ground installation.

Lyn4 SideLED is the 120° and 360° radial ground level output version (upward output see «TopLed» models on page 42).

Essential design and corrosion resistance make them suitable for indoor or outdoor prestigious applications for signalling or decorating and for creating dramatic effects on walkways and underpasses, halls, etc.

120° (no. 3 Leds) and 360° (no. 9 Leds) beam versions are available in blue, white, red and yellow Led source colours.

On request all models Lyn4-T are available in V1-UL 94 auto-extinguishing version, 960° glow wire test resistant.

- Painted grey aluminium outer cap (motor vehicle impact resistant).
- Polycarbonate transparent diffuser stabilised UV.
- Long life silicone gasket.
- Technopolymer recessed outer case and body.
- Every fitting is complete with two IP68 anti-tearing PG9 cable glands + one grommet for single or in series connection installation.
- Stainless steel external screws.
- 3 or 9 leds mounted on electronic panels that must be fed with extra low voltage 24 CC stabilised. 10W and 40W electronic transformers are available as accessories and must be installed in protected areas. The transformers are also available with an IP67 box for recessed installation (A0221/10 – A0221/40).

## ACCENT LIGHT ARCHITECTURAL - Recessed in-ground LED



94	LYN4 S - 120° - AL	aluminium cap and signalling LED
06002394	○ S-120°-AL/3 White	 3 LED 120° 24V CC - 0,5W
06002594	● S-120°-AL/3 Blue	
06002794	● S-120°-AL/3 Yellow	



94	LYN4 S - 360° - AL	aluminium cap and signalling LED
06002294	○ S-360°-AL/9 White	 9 LED 120° 24V CC - 0,5W
06002494	● S-360°-AL/9 Blue	
06002694	● S-360°-AL/9 Yellow	



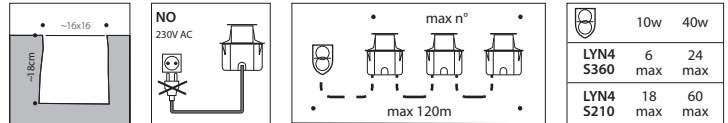


					IK 09 12J		max 0,5kg			
CLASS III		94	IP 68							Led Max 1,5W
LYN4 S-120°/S-360°-AL • Ø108 • 157				PG9 Ø4→Ø8 H05RN-F 2x1 2x1mm <sup>2</sup>				Max 30Km/h Max 7.500Kg		Max 2.000Kg

### INSTALLATION

Lyn4/S are motor vehicle impact resistant fittings which withstand a max static load of 2500 Kg and impact from motor vehicles fitted with pneumatic tyres with a max 7500 Kg gross weight and travelling at a speed of max 30 Km/h. For optimum performance and safety, it is important that they are correctly installed by qualified personnel only and in strict accordance with manufacturer installation instructions, in particular by using only H05RN-F 2x1 cable available to order as an accessory (A0222).

LYN4/S models withstand a maximum static load of 2500Kg and a maximum travelling load, by motor vehicles with pneumatic tyres, of 7500Kg gross weight at a maximum speed of 30Km/h.



### ACCESSORIES



14015420	A0220/10	10W Electronic transformer 95-240V 50/60Hz AC/24V CC, mounted on galvanised steel tray.
14015520	A0220/40	40W Electronic transformer 115-240V 50/60Hz AC/24V CC, mounted on galvanised steel tray.
14015620	A0221/10	Black technopolymer box IP67 with stainless steel cover and 10W electronic transformer 95-240V 50/60Hz AC/24V CC. Cable glands PG 13,5 for Ø6-10mm cable and for Ø25mm sheath.
14015720	A0221/40	Black technopolymer box IP67 with stainless steel cover and 40W electronic transformer 115-240V 50/60Hz AC/24V CC. Cable glands PG 13,5 for Ø6-10mm cable and for Ø25mm sheath.
14015820	A0222	Cable H05RN-F 2x1 to be ordered in metres.

# LYN23



**LYN23** is a range of small **LED** recessed IP67 rectangular fittings designed to take the load and **impact from motor vehicles**. LYN23 fittings can be recessed in ground, walls or ceilings providing **directional and accent lighting** creating dramatic **effects** in public spaces, walkways, underpasses and steps etc. The simple geometry and **contemporary shape** combined with high quality corrosion resistant materials make LYN23 suitable for a variety of both indoor and outdoor applications in the most prestigious of projects.

LYN23 are available in two versions:

- LYN23 with **9 LED** standard signalling (total 1.5W),
- LYN23 HP with **3 high power LED's** (3x1,4W).

Both versions are available in the following finishes:

- LYN23/AL silver-grey aluminium frame.
- LYN23/Inox aluminium frame with AISI 316 stainless steel coated.

- LYN 23/AL aluminium frame finished polyester painted silver-grey or LYN 23/I aluminium frame finished AISI 316.
- **Toughened** safety glass, sanded for a "soft".
- **Technopolymer** body and outer recessing enclosure.
- Silicone rubber **anti-ageing** gaskets.
- **Stainless steel** external fixings.
- All fittings are supplied complete with **two IP68 PG9 anti-tearing cable glands** and one stopping plug for single or through wiring connection.
- LYN23 fittings are supplied complete with **9 panel mounted LED's** which must be fed with extra low voltage 24V CC stabilized supply.
- LYN23 HP fittings are supplied complete with **3 high power LED's** which must be fed with 350mA extra low voltage 24V CC stabilized supply.

## ACCENT LIGHT ARCHITECTURAL - Recessed in-ground LED



94	04	LYN23 AL	Signalling LED
06006094	○ AL	/9 White	9 LED 120° 24V CC - 1,5W
06006194	● AL	/9 Blue	
06006294	● AL	/9 Yellow	
06006394	● AL	/9 Red	
06006494	● AL	/9 Green	
06006504	○ I	/9 White	
06006604	● I	/9 Blue	
06006704	● I	/9 Yellow	
06006804	● I	/9 Red	
06006904	● I	/9 Green	

10W and 40W transformers are available as accessories (A0220/10 and A0220/40) which should be installed in an appropriate enclosed location, or alternatively ordered as recessed IP67 box accessories (A0221/10 and A0221/40).



94	04	LYN23/ HP	High Power LED
06012194	○ AL / HP	White	3 LED 120° 350 mA - 4,2W tot.
06012294	● AL / HP	Blue	
06011904	○ I / HP	White	
06012004	● I / HP	Blue	

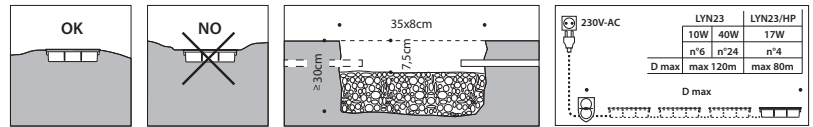
15W transformers are available as accessory (A0374) which should be installed in an appropriate enclosed location, or alternatively ordered as a recessed IP67 box accessory (A0375).



						<b>IK 08 9J</b>						<b>CE</b>	
<b>CLASS III</b>		<b>94</b>	<b>04</b>	<b>IP 67</b>								<b>9x120°</b> Max 1,5W	<b>3x120°</b> Max 4,2W

**INSTALLATION**

LYN fittings are suitable for indoor or outdoor applications and are designed to withstand impact from pedestrians or motor vehicles with a maximum static load of 2500Kg or a maximum travelling load, by motor vehicles with pneumatic tyres, of 12000Kg gross weight at a maximum speed of 30Km/h. To guarantee the IP67 rating we recommended the use of H05RN-F 2x1 max. Ø 8mm cable only, allow for good drainage and do not install the fitting in a hollow position. H05RN-F 2x1 cable is available to order as an accessory (14015820 –A0222).



**ACCESSORIES**



14015420	A0220/10	10W Electronic transformer 95-240V 50/60Hz AC supply - 24V CC output, mounted on galvanised steel tray.
14015520	A0220/40	40W Electronic transformer 115-240V 50/60Hz AC supply - 24V CC output, mounted on galvanised steel tray.
14015620	A0221/10	Remote IP67 recessed gear box in technopolymer finished black with stainless steel cover supplied with 10W electronic transformer 95-240V 50/60Hz AC supply - 24V CC output. Cable glands PG 13.5 for Ø6-10mm cable with Ø25mm sheath.
14015720	A0221/40	Remote IP67 recessed gear box in technopolymer finished black with stainless steel cover supplied with 40W electronic transformer 115-240V 50/60Hz AC supply - 24V CC output. Cable glands PG 13.5 for Ø6-10mm cable with Ø25mm sheath.
14071520	A0374/15W	15W Electronic transformer 95-240V 50/60Hz AC supply to 350mA - 48V CC max. output, mounted on galvanised steel tray.
14071620	A0375/15W	15W Electronic transformer 95-240V 50/60Hz AC supply to 350mA - 48V CC max. output, mounted in a recessed IP67 technopolymer box with stainless steel cover. PG 13.5 cable gland suitable for Ø6-10mm cable and Ø25mm sheath.
14015820	A0222	Cable H05RN-F 2x1 supplied and sold in 1 metre units.

# CRICKET 168



**ACCENT LIGHT ARCHITECTURAL - Recessed in-ground**

**CRICKET 168** is a range of circular recessed in-ground fittings, designed to take the load and impact from motor vehicles up to 50W. Cricket 168 is available in the following versions: **CRICKET 168** – upward light emission.

**CRICKET i 168** - Cover comprising retaining frame in die cast aluminium bonded with AISI 316 stainless steel, and toughened float glass.

**CRICKET 168 RAD** – ground radiated light.

CRICKET 168 provides the following features and benefits:

- wide range of light sources and LED
- narrow beam, wide beam and asymmetric reflectors suitable for wall washer applications.
- vertical adjustment of the lamp/reflector assembly.
- innovative system allows horizontal adjustment.
- reduced glass surface temperatures (see model and lamp options).
- easy to install with separate "WATER STOP" box connection.
- fast installation with "QUICK!" system (depending on the models).

- Technopolymer body and outer recessing enclosure provides high corrosion resistance and stability in variable ambient temperatures.
- Safety toughened float glass IK 09 – 16 joule.
- Anti-ageing silicone gaskets which properties include flexibility and recovery to maintain IP67 integrity.
- Aluminium frame finished polyester painted silver-grey (168-96) or aluminium frame finished AISI 316 (i 168).
- High performance reflectors in high purity (99.85%) aluminium anodized and polished, self-adjustable circular or asymmetrical (wall-washer) optics.
- Cable gland, for Ø6 to 10mm cables.
- WATER STOP system for simple and safe electrical connection.
- 230V - 50/60Hz or 220÷240V - 50/60Hz, other voltages available on request.
- Stainless steel external fixings.

Cricket 168 has a separate "water stop" connection box designed to prevent ingress of moisture into the fitting due to effects of thermal variations. This ensures the longevity and safety of the fitting.



FAST INSTALLATION: See model numbers for fittings supplied complete with lamp.



96	04	CRICKET 168 / C	Circular reflector				T max °C
***	05237996	AL168 / C 20 ETRC		PGJ5	20W	CDM-T	85°
***	05291904	I 168 / C 20 ETRC		PGJ5	20W	CDM-T	85°
***	05238096	AL168 / C 21 ETRC		G8,5	20W	HCI-TC	80°
***	05292004	I 168 / C 21 ETRC		G8,5	20W	HCI-TC	80°
****	05238696	AL 168 / C 10 ETRC		GX24q-1	10W	DULUX-D/E / PL-C	52°
****	05292404	I 168 / C 10 ETRC		GX24q-1	10W	DULUX-D/E / PL-C	52°
**Q!	07023896	AL 168 / C 8 L		E27	8W	DULUX-EL	50°
**Q!	07029704	I 168 / C 8 L		E27	8W	DULUX-EL	50°



96	04	CRICKET 168 / A	Orientable asymmetric reflector				T max °C
**	05238196	AL 168 / A 20 ETRC		PGJ5	20W	CDM-T	83°
**	05292104	I 168 / A 20 ETRC		PGJ5	20W	CDM-T	83°
**	05238296	AL 168 / A 21 ETRC		G8,5	20W	HCI-TC	78°
**	05292204	I 168 / A 21 ETRC		G8,5	20W	HCI-TC	78°



96	04	CRICKET 168	Models with adjustable lamps				T max °C
**	05238796	AL 168 / 50-T		GU5,3 Max 50W/230V/12V	Dicroic		175°
**	05292504	I 168 / 50-T		GU5,3 Max 50W/230V/12V	Dicroic		175°
**	05238896	AL 168 / 51-T		B15d Max 50W/230V/12V	Halospot 70		175°
**	05292604	I 168 / 51-T		B15d Max 50W/230V/12V	Halospot 70		175°
**	01042296	AL 168 / 52		GZ10 Max 50W/230V	Dicroic		175°
**	01047404	I 168 / 52		GZ10 Max 50W/230V	Dicroic		175°
**	01042396	AL 168 / 50		E27 Max 50W/230V	Hispot 80/Par20		175°
**	01047304	I 168 / 50		E27 Max 50W/230V	Hispot 80/Par20		175°
***	05246296	AL 168 / 22		GX10 20W	CMH-MR16		80°
***	05292304	I 168 / 22		GX10 20W	CMH-MR16		80°



96	04	CRICKET 168 / LED HP / INT	Beam reflector				T max °C
* Q!	06015296	AL 168 /HP/ INT ETRC	○ White		6 LED (6000°K)	350mA - 1,2W	---
* Q!	06017704	I 168 / HP/ INT ETRC	○ White		6 LED (6000°K)	350mA - 1,2W	---
* Q!	06015396	AL 168 /HP/ INT ETRC	○ White		6 LED (3000°K)	350mA - 1,2W	---
* Q!	06017804	I 168 / HP/ INT ETRC	○ White		6 LED (3000°K)	350mA - 1,2W	---
* Q!	06015496	AL 168 /HP/ INT ETRC	● Blue		6 LED	350mA - 1,2W	---
* Q!	06017904	I 168 /HP/ INT ETRC	● Blue		6 LED	350mA - 1,2W	---
* Q!	06016896	AL 168 /HP/ INT ETRC	● Amber		6 LED	350mA - 1,2W	---
* Q!	06018004	I 168 / HP/ INT ETRC	● Amber		6 LED	350mA - 1,2W	---



96	04	CRICKET 168 / LED HP / ELL	Elliptical				T max °C
* Q!	06017396	AL 168 /HP/ELL ETRC	○ White		6 LED (6000°K)	350mA - 1,2W	---
* Q!	06018104	I 168 /HP/ELL ETRC	○ White		6 LED (6000°K)	350mA - 1,2W	---
* Q!	06017496	AL 168 /HP/ELL ETRC	○ White		6 LED (3000°K)	350mA - 1,2W	---
* Q!	06018204	I 168 /HP/ELL ETRC	○ White		6 LED (3000°K)	350mA - 1,2W	---
* Q!	06017596	AL 168 /HP/ELL ETRC	● Blue		6 LED	350mA - 1,2W	---
* Q!	06018304	I 168 /HP/ELL ETRC	● Blue		6 LED	350mA - 1,2W	---
* Q!	06017696	AL 168 /HP/ELL ETRC	● Amber		6 LED	350mA - 1,2W	---
* Q!	06018404	I 168 / HP/ELL ETRC	● Amber		6 LED	350mA - 1,2W	---

\* 230V/12V 50/60Hz, complete with transformer suitable for 12V lamps, 230V supply.

\*\* Models for mains voltage lamp versions.

\*\*\* Models with electronic gear suitable for 220-240V, 50/60Hz.

\* Version with adjustable reflector.

\*\* Version with adjustable lamp position.

□ Models with electronic transformer 220-240V 50/60Hz.

Q! Version FAST INSTALLATION.

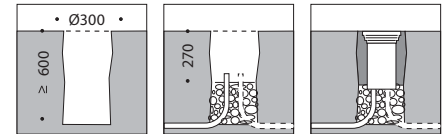
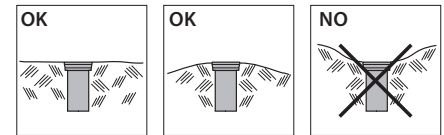


						<b>IK 09 16J</b>					<b>CE</b>			
<b>CLASS II</b>		<b>96</b>	<b>04</b>	<b>IP 67</b>					<b>MD</b>  Max 20W	<b>HR</b>  Max 50W	<b>IPAR</b>  Max 75W	<b>FBT</b>  8W	<b>FSQ</b>  10W	<b>Led</b>  Max 6x1,2W

## INSTALLATION

Cricket 168 recessed in-ground fittings may be subjected to heavy loads and impact from pedestrians and motor vehicles during operation. To ensure optimum performance and safety it is important that they are correctly installed by a suitably qualified person, in strict accordance with the manufacturers installation instructions. Fittings must not be installed in a hollow or submerged underwater and must be provided with proper drainage by means of a  $\geq 30$  cm bed of gravel or a drainpipe.

When installing fittings within public access it is advisable to be aware of the glass surface temperature indicated ( $T_{max}$  °C, values indicated are based on nom 230V at 25°C) and confirm measurements at rated voltage are in accordance with national and local standards.



	100m Max				LED HP	LED RGB
	20W	10W	8W	50W GU 5.3	50W E27	
<b>H07RN-F</b>	n°26	n°58	n°78	n°11	n°12	---
<b>2x1,5mm<sup>2</sup></b>						
<b>2x2,5mm<sup>2</sup></b>	n°42	n°95	n°130	n°19	n°20	---

## ACCESSORIES



14090720	A0450 AL	Frosted glass for a reduced glare more comfortable light emission (suitable for Cricket 168/AL only).
14122820	A0450 I	Frosted glass for a reduced glare more comfortable light emission, suitable for Cricket 168/Inox only.
14090820	A0451 AL	Frosted glass supplement to be ordered together with fitting for factory fitted option. For Cricket 168/AL only, not suitable for RAD models.
14122920	A0451 I	Frosted glass supplement to be ordered together with fitting for factory fitted option, suitable for Cricket 168/Inox only. Not suitable for RAD models.
14090920	A0452 AL/I	Low emission filter glass reduces the outer glass surface temperature, suitable for Cricket 168/AL /C21 – A/21 and Cricket 168/Inox /C21 – A/21.
14091020	A0453 AL/I	Prismatic glass, suitable for Cricket 168/AL /C 20 – C/21 and Cricket 168/Inox /C 20 – C/21 .
14091420	A0454/BL AL	Dichroic blue filter glass in combination with accessory A0455 (suitable for Cricket 168/AL /C21 only).
14123420	A0454/BL I	Dichroic blue filter glass in combination with accessory A0455 (suitable for Cricket 168/Inox /C21 only).
14091220	A0454/G AL	Dichroic yellow filter glass in combination with accessory A0455 (suitable for Cricket 168/AL /C21 only).
14123220	A0454/G I	Dichroic yellow filter glass in combination with accessory A0455 (suitable for Cricket 168/Inox /C21 only).
14091120	A0454/R AL	Dichroic red filter glass in combination with accessory A0455 (suitable for Cricket 168/AL /C21 only).
14123120	A0454/R I	Dichroic red filter glass in combination with accessory A0455 (suitable for Cricket 168/Inox /C21 only).
14091320	A0454/V AL	Dichroic green filter glass in combination with accessory A0455 (suitable for Cricket 168/AL /C21 only).
14123320	A0454/V I	Dichroic green filter glass in combination with accessory A0455 (suitable for Cricket 168/Inox /C21 only).
14091512	A0455/C AL/I	Internal aluminium anti-glare baffle for use with Cricket 168/AL /C20 – /C21 and 168/Inox /C20 – C21 only. Not suitable for use with A0456.
14091612	A0456/C AL/I	Internal aluminium anti-glare shield for use with Cricket 168/AL /C20 /C21 and 168/Inox /C20 – C21 only. Not suitable for use with A0455 baffle.
14091712	A0457/A AL/I	Internal aluminium anti-glare shield For use with Cricket 168/AL /A and 168/Inox /A only.
14091820	A0458/C-Fluo	Internal aluminium anti-glare shield. For use with Cricket 168/AL /C8 - /C10 and 168/Inox /C8 – C10 only.
14018320	A0235 AL/I	H07RN8-F 2x1.5 mm <sup>2</sup> 1 metre rubber cable.

# CRICKET 168 RAD



CRICKET 168 RAD is a range of circular in-ground fittings, designed to take the load and impact from motor vehicles, with ground radiated light distribution. Ideally suited for indoor and outdoor feature lighting giving a prestigious appearance to open public spaces, as marker lighting for drives, pathways and entrances. Available with slotted openings at 360°, 210° and 110°+30°.

Cricket 168 RAD has the same construction as Cricket 168, with the following features:

- Ground radiated light distribution.
- Die cast aluminium glass lens cover, phosphochromate pre-treated and finished polyester powder coated quartz grey colour. Available with slotted openings in 3 options (360°, 210°, 110°+30°).
- The glass lens cover has a surface protrusion in accordance with EN 60598-2-13 ensuring minimum obstruction to public and motor vehicles.
- Moulded toughened safety glass (IK09-15 joule).



ACCENT LIGHT ARCHITECTURAL - Recessed in-ground

Cricket 168 has a separate "water stop" connection box designed to prevent ingress of moisture into the fitting due to effects of thermal variations. This ensures the longevity and safety of the fitting.



FAST INSTALLATION: See model numbers for fittings supplied complete with lamp.



96	CRICKET 168 / RAD 360°			360° Distribution	T max °C
... Q!	07023996	/360 21	ETRCL	G8,5 20W	HCI-TC 56°
□ Q!	06015696	/360 - 8 LED	ETRC ○ White	8x1,2W 350mA	(6000°K) 39°
□ Q!	06015796	/360 - 8 LED	ETRC ● Blue	8x1,2W 350mA	39°



96	CRICKET 168 / RAD 210°			210° Distribution	T max °C
... Q!	07024096	/210 21	ETRCL	G8,5 20W	HCI-TC 56°
□ Q!	06015896	/210 - 5 LED	ETRC ○ White	5x1,2W 350mA	(6000°K) 39°
□ Q!	06015996	/210 - 5 LED	ETRC ● Blue	5x1,2W 350mA	39°



96	CRICKET 168 / RAD 110°			110°+30° Distribution	T max °C
... Q!	07024196	/110 21	ETRCL	G8,5 20W	HCI-TC 56°
□ Q!	06016096	/110 - 4 LED	ETRC ○ White	4x1,2W 350mA	(6000°K) 39°
□ Q!	06016196	/110 - 4 LED	ETRC ● Blue	4x1,2W 350mA	39°

... Models with electronic gear suitable for 220-240V, 50/60Hz.

□ Models with electronic transformer 220-240V 50/60Hz.

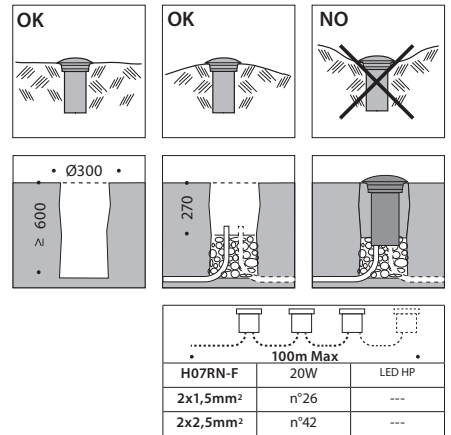
Q! Version FAST INSTALLATION.

						<b>IK 09 15J</b>						
<b>CLASS II</b>		<b>96</b>	<b>IP 67</b>								<b>MD</b> Max 20W	<b>Led</b> Max 8x1,2W

**INSTALLATION**

Cricket 168 recessed in-ground fittings may be subjected to heavy loads and impact from pedestrians and motor vehicles during operation. To ensure optimum performance and safety it is important that they are correctly installed by a suitably qualified person, in strict accordance with the manufacturers installation instructions. Fittings must not be installed in a hollow or submerged underwater and must be provided with proper drainage by means of a ≥ 30 cm bed of gravel or a drainpipe.

When installing fittings within public access it is advisable to be aware of the glass surface temperature indicated ( $T_{max} \text{ } ^\circ\text{C}$ , values indicated are based on nom 230V at 25°C) and confirm measurements at rated voltage are in accordance with national and local standards.



**ACCESSORI**



14018320 A0235 H07RN8-F 2x1.5 mm<sup>2</sup> 1 metre rubber cable.



# CRICKET 16



**CRICKET 16** circular IP67 recessed in-ground fittings designed to take the load and impact from pedestrians and motor vehicles. Suitable for highlighting buildings / houses, architectural features and details, gardens, columns, and public areas etc.

Cricket 16 has a choice of cover rings:

CRICKET 16/ InOX - Stainless steel ring.

CRICKET 16/ AL - Aluminium ring painted aluminium grey.

CRICKET 16/ PA - Technopolymer ring finished black.

With a comprehensive range of light sources and accessories CRICKET 16 is suitable for a variety of applications.

- PVC sump with polyamide flange.
- Hot stabilised technopolymer body (PA 45 FV) black colour.
- Glass bezel frame available in stainless steel (I), aluminium (AL) or polyamide (PA).
- Toughened safety glass.
- Silicone anti-ageing gaskets.
- A2 stainless steel external screws.

Available as through wiring connection using the appropriate accessories (Class II models max 12, class III models max 3). Cricket 16 fittings are pedestrian and motor vehicle impact resistant designed to withstand a maximum static load of 5000Kg or a maximum travelling load, by motor vehicles with pneumatic tyres, of 12000Kg gross weight at a maximum speed of 30Km/h.

## ACCENT LIGHT ARCHITECTURAL - Recessed in-ground

/ InOX



/ AL

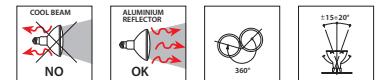


/ PA



04	94	80	CRICKET 16/50-T	Adjustable lamp position	T max °C
04009404			16/50 -T		
	04257016		16/50 -T	GU5,3 20-35-50W 230÷240V/12V	20W=85° 35W=130°
		04249016	16/50 -T		50W=140°
•	01017304		16/50 230		
•	01002901		16/50 230	GU10 50W/230V	50W=135°
•		01003001	16/50 230		

- Not suitable for PAR 30 e HALOPAR 30.



04	94	80	CRICKET 16/20-80	Adjustable lamp position	T max °C
01017504			16/20 E27		
	01973016		16/20 E27	E27 Max 50W/230V PAR 20	50W=146°
		01899016	16/20 E27		
•	01017604		16/80 E27		
•	01974016		16/80 E27	E27 Max 75W/230V HI-SPOT 80	50W=150° 75W=210°
•		01913016	16/80 E27		

- Not suitable for PAR 30 e HALOPAR 30.



04	94	80	CRICKET 16/11	Fixed lamp position	T max °C
01017404			16/11 E27		
	01971016		16/11 E27	E27 7÷11W/230V PLE-C/DULUX-EL	11W=55°
		01963016	16/11 E27		



CRICKET 16 COMPACT are shallow depth fittings, less transformer housing, designed for shallow depth installations.

This model must be supplied by 12V using a silicone sheathed cable only (available as accessory A0159).



04	94	80	CRICKET 16 COMPACT	Adjustable lamp position	T max °C
•	01017704		16/35COMPACT		
•	01004501		16/35COMPACT	GU5,3 20-35W/12V	20W=85° 35W=130°
•		01004601	16/35COMPACT		

- CLASS III models.



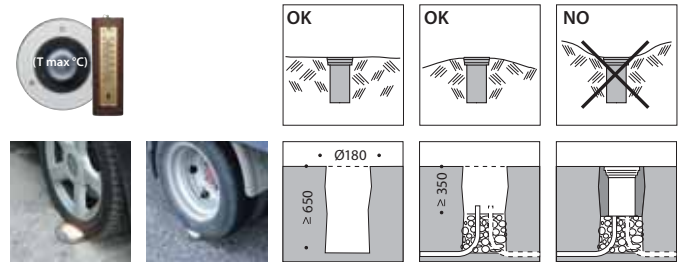


						<b>IK 08 6J</b>							
<b>CLASS II</b>		<b>80</b> <b>94</b>	<b>04</b>	<b>IP 67</b>						<b>FB</b> Max 11W	<b>HR</b> Max 50W	<b>IPAR</b> Max 75W	
<b>CRICKET 16</b> 320 310 		<b>CRICKET 16 COMPACT</b> 140 max 152 		PG13.5 H07RN-F 2x1.5÷2.5 2x2.5mm <sup>2</sup>		Max 30Km/h Max 12.000Kg		Max 3.500Kg					

**INSTALLATION**

Cricket 16 circular IP67 recessed in-ground fittings may be subjected to heavy load and impact from pedestrians and motor vehicles during use. For optimum performance and safety it is important that they are correctly installed by a suitable qualified person, in strict accordance with the manufacturer installation instructions. The fittings must not be located in a hollow.

Fittings should be seated on a gravel sump, of approximately ≥30 cm depth from base of fitting, to allow for water drainage. When installing fittings within public access it is advisable to be aware of the glass temperatures indicated (**T max °C**) and confirm measurements at rated voltage are in accordance with national and local standards. To maintain IP67 integrity, use H07RN-F 2x1.5 2.5 Ø7-12 mm cables only.



**ACCESSORIES**



14416996	A0111	AL/Inox	Frosted glass suitable for Cricket 16/AL-Inox.
14397996	A0106	PA	Frosted glass suitable for Cricket 16/PA.
14386996	A0103		Internal aluminium anti-glare mesh. Not recommended for use with Cricket 16/11 PHILIPS PLE-C lamps.
14002384	A0166		Anti-tearing PG 13.5 cable gland kit for through wiring connection (not suitable for Cricket 16 COMPACT).
14001499	A0158		Anti-tearing PG13.5 nickel-plated brass IP68 cable gland for through wiring connection (suitable for Cricket 16 COMPACT only).
14001599	A0159		Silicone cable H05SS-FX 2x2.5mm <sup>2</sup> - IMQ, supplied and sold in 1 metre units (suitable for Cricket 16 COMPACT only).
14018320	A0235		Rubber cable H07RN8-F 2x1.5mm <sup>2</sup> supplied and sold in 1 metre units.
14076720	A0382		1 metre unit cable H07RN-F 2x1.5 mm <sup>2</sup> supplied inside the luminaire package.



# CRICKET 26



**CRICKET 26** circular IP67 recessed in-ground fittings designed to take the load and impact from pedestrians and motor vehicles. Suitable for highlighting buildings / houses, architectural features and details, historical buildings, façades, columns, and public areas etc.

Cricket 26 has a choice of cover rings:

**CRICKET 26/ Inox** - Stainless steel ring.

**CRICKET 26/ AL** - Aluminium ring painted aluminium grey. With a range of light sources, accessories and adjustable lamp positioning CRICKET 26 is suitable for a variety of design applications.

- PVC sump with polyamide cover flange.
- Extruded aluminium corrosion resistant and heat dissipating body with polyamide (PA 66 F.V.) ends.
- Glass bezel frame available in aluminium (AL) or stainless steel (Inox).
- Toughened "safety" glass.
- Silicone anti-ageing gaskets.
- A2 stainless steel external screws.

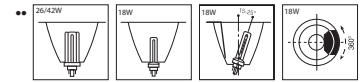
Options for through wiring connection using accessory A0154 (class II models max 12, class III model max 3).

## ACCENT LIGHT ARCHITECTURAL - Recessed in-ground



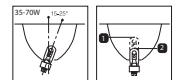
	04	94	CRICKET 26/18-42 - FLUO				T max °C
•	05086904	26/18	CR		G24d-2	18W DULUX-D/PL-C	50°
•	05013898	26/18	CR		G24d-2	18W DULUX-D/PL-C	50°
••	05086804	26/42	ETRC		GX24q-3	26W DULUX-D/E-PL-T	50°
••	05014198	26/42	ETRC		GX24q-4	42W DULUX-T/E	75°

- Self adjustable from symmetric to asymmetric.
- Symmetric version only. Complete with electronic ballast 220-240V 50/60Hz.



	04	94	CRICKET 26 /72 /36 /71				T max °C
	05087304	26/72	CR		E27 70W	NAV-T Super SON-T Plus	130°
	05015098	26/72	CR		E27 70W	NAV-T Super SON-T Plus	130°
	05087404	26/36	CR		G12 35W	HCI-T/CDM-T	78°
	05052194	26/36	CR		G12 35W	HCI-T/CDM-T	78°
	05087504	26/71	CR		G12 70W	HQI-T/HCI-T /CDM-T	105°
	05015998	26/71	CR		G12 70W	HQI-T/HCI-T /CDM-T	105°

Self adjustable from symmetric to asymmetric.  
Adjustable lamp positions: 2 symmetric + 2 asymmetric.



						<b>IK 09 18 J</b>						<b>CE</b>			
<b>CLASS II</b>		<b>94</b>	<b>04</b>	<b>IP 67</b>								<b>FSQ</b> 18W	<b>FSM</b> 26-42W	<b>ST</b> 70W	<b>MD</b> Max 70W
	<b>CRICKET 26</b>	Mod.	A	B					PG16 Ø10-Ø14				Max 30Km/h Max 15.000Kg		Max 5.000Kg
		71-72-36	640						H07RN-F 2x2,5 2x2,5mm <sup>2</sup>						
		42-18	510	Ø270											

**INSTALLATION**

Cricket 26 circular IP67 recessed in-ground fittings may be subjected to heavy load and impact from pedestrians and motor vehicles during use. For optimum performance and safety it is important that they are correctly installed by a suitable qualified person, in strict accordance with the manufacturer installation instructions

Cricket 26 are designed to withstand a maximum static load of 5000Kg or a maximum travelling load, by motor vehicles with pneumatic tyres, of 12000Kg gross weight at a maximum speed of 30Km/h.

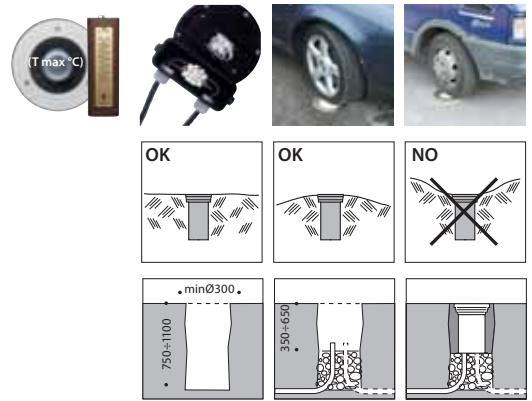
The fittings must not be located in a hollow or submerged underwater.

The fittings should be seated on a gravel sump, of approximately 450 mm depth from base of fitting, to allow for water drainage.

When installing fittings within public access it is advisable to be aware of the glass temperatures indicated (**T max °C**) and confirm measurements at rated voltage are in accordance with national and local standards.

A0157 wire guards accessory (not suitable for vehicles to be driven over).

To maintain IP67 integrity, use H07RN-F2.5 Ø10-14 mm cables only.



**ACCESSORIES**



14000801	A0157	Stainless steel wire guard finished black. Protects against direct human contact with the glass (not suitable for vehicles to be driven over).
14449996	A0123 AL-I	Frosted glass suitable.
14027720	A0253 AL-I	CRICKET26 supplement for frosted glass factory fitted. To be ordered as a separate item along with fitting.
14020120	A0237	Low-emission filter glass fits behind standard glass cover to reduce external glass temperature.
14448996	A0122	Internal anti-glare steel mesh.
14000599	A0154	Anti-tearing PG 16 cable gland kit for through wiring connection.
14053720	A0337	Rubber cable H07RN-F 2x2.5mm <sup>2</sup> supplied and sold in 1 metre units.
14076820	A0383	1 metre unit cable H07RN-F 2x2.5 mm <sup>2</sup> supplied inside the luminaire package.



# CRICKET 21



**CRICKET 21** is a range of compact shallow depth recessed in-ground IP67 rectangular fittings designed to take the load and impact from motor vehicles. The simple contemporary geometry combined with high quality corrosion resistant materials make CRICKET21 suitable for a variety of both indoor and outdoor applications.

- **Technopolymer** body and outer recessing enclosure with high corrosion resistance and stability in variable ambient temperatures.
- Cover frame in die-cast **aluminium** anti-corrosive chromate pre-treated finished polyester coated. Other colour finishes available on request.
- **Reflectors** (where applicable) in high purity 99.85% aluminium anodised and polished.
- Silicone **anti-ageing** gaskets.
- **Toughened** safety glass.
- M20x1.5 **cable gland** for Ø7-12mm cables.
- 2x2.5mm<sup>2</sup> automatic **isolating terminal** interrupts supply on removal of cover.
- **Stainless steel** external fixings.

## ACCENT LIGHT ARCHITECTURAL - Recessed in-ground



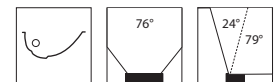
94		CRICKET 21/2x20T - GU 5,3			T max °C		
04017294	21 AL	2x20T	94		GU5,3	2x20W/12V	2x20W=80°

Cricket 21 twin lamp halogen dichroic fitting provides additional security feature of one lamp operating on failure of the other lamp. The lamps are adjustable on site ±10° from vertical position. Fitting supplied complete with toroidal transformer, 220-240 / 50-60Hz supply.



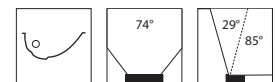
94		CRICKET 21/20 - G8,5			T max °C		
05148994	21 AL	A/20	ETRC 94		G8,5	20W CMH/HCI-TC	20W=75°

Cricket 21 with asymmetrical distribution (Imax 11°) supplied complete with electronic ballast 220-240V / 50-60Hz. **Important note: See recessed enclosure installation instructions for asymmetric distribution aiming.**



94		CRICKET 21/9-26 - FLUO			T max °C		
05155394	21 AL	S/9	ETRC 94		2G7	9W DULUX-S-E/PL-S	9W=48°
05148794	21 AL	A/9	ETRC 94		2G7	9W DULUX-S-E/PL-S	9W=48°
05148894	21	ALS/26	ETRC 94		G24q-3	26W DULUX-D-E/PL-C	26W=75°

Cricket 21 S symmetrical reflector  
 Cricket 21 A asymmetrical reflector  
**Important note: See recessed enclosure installation instructions for asymmetric distribution aiming.**  
 Fittings complete with electronic ballast 220-240V/50-60Hz.





				<b>IK 09 17J</b>		max 2,5kg						
<b>CLASS II</b>		<b>94</b>	<b>IP 67</b>			<b>FSD</b> 9W		<b>FB</b> 26W		<b>HR</b> 2x20W		<b>MT</b> 20W
<b>CRICKET 21/2X20T - 20</b>		<b>CRICKET 21/9-26</b>				M20x1,5 Ø7-Ø12			Max 30Km/h Max 7.500Kg			
						H07RN-F 2x2,5 2x2,5mm <sup>2</sup>			Max 2.000Kg			

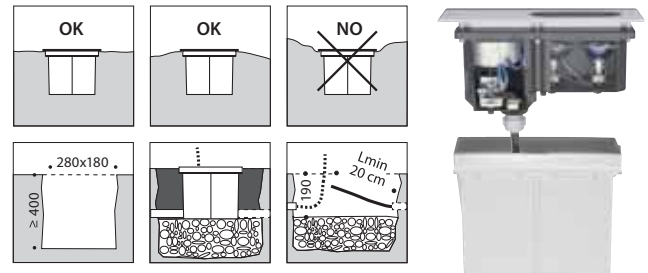
**INSTALLATION**

Cricket 21 IP67 recessed in-ground fittings may be subjected to heavy load and impact from pedestrians and motor vehicles during use. For optimum performance and safety it is important that they are correctly installed by a suitable qualified person, in strict accordance with the manufacturer installation instructions.

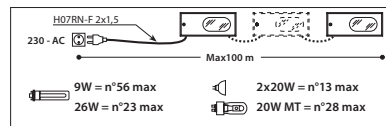
Cricket 21 are designed to withstand a maximum static load of 2000Kg or a maximum travelling load, by motor vehicles with pneumatic tyres, of 12000Kg gross weight at a maximum speed of 30Km/h.

The fittings must not be located in a hollow or submerged underwater. The fittings should be seated on a gravel sump, of approximately ≥ 25 cm depth from base of fitting, to allow for water drainage. When installing fittings within public access it is advisable to be aware of the glass temperatures indicated (T max °C) and confirm measurements at rated voltage are in accordance with national and local standards.

A0157 wire guards accessory (not suitable for vehicles to be driven over). To maintain IP67 integrity, use H07RN-F2.5 Ø10-14 mm cables only.



Cricket 21 fittings are suitable for single and through wiring connection using A0323 accessory.



**ACCESSORIES**

<b>A0321</b>	Tmax °C 20W = 63° 2x20W = 63°	<b>A0323</b>	<b>A0235</b>	<b>A0382</b>

14051420	A0321 / Halo	Low-emission filter glass reduces external temperature on glass, suitable for dichroic and HID lamps.
14051720	A0323	Anti-tearing M20x1.5 cable gland kit for through wiring connection
14018320	A0235	Rubber cable H07RN8-F 2x1.5 mm <sup>2</sup> supplied and sold in 1 metre units.
14076720	A0382	1 metre H07RN-F 2x1.5 mm <sup>2</sup> cable supplied complete with fitting.



# CRICKET 61



**CRICKET 61** contemporary linear IP67 recessed fittings suitable for indoor and outdoor applications with **extremely low glass surface temperatures (47°C max.)**, designed to take the load and **impact from pedestrians and motor vehicles**. CRICKET 61 is suitable for in-ground, **wall, ceiling** and under-canopy installations providing energy efficient lighting for public areas, advertising signage, façades / walls, and highlighting architectural features. CRICKET 61 has a distinctive contemporary linear design manufactured in high quality corrosion resistant materials and finishing, with cover frames in **stainless steel** or die-cast aluminium finished polyester aluminium grey. Cricket 61 lamp options:

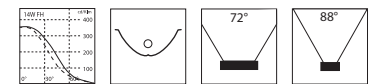
- High Efficiency 14W T5 (HE) and High Output 24W T5 (HO), with excellent colour rendering and longevity.
- High efficiency **LED's** and **RGB** colour changing.

- **Technopolymer** body and outer recessing enclosure provides good corrosion resistance.
- Cover frames in die-cast **aluminium** finished (Cricket 61/AL) or AISI 316 stainless steel (Cricket 61/Inox).
- Reflectors in high purity 99.85% **aluminium** anodised and polished.
- Silicone rubber **anti-ageing** gaskets.
- **Toughened** "safety" glass.
- **Electronic ballasts** 220-240V, 50/60Hz.
- **Two** PG M20x1.5 **cable glands** complete with bung, for single or through wiring connection (no LED RGB).
- **Two** 2x2.5 mm<sup>2</sup> push fit **terminals** pre-wired for through **wiring** connection with 2x1.5 mm<sup>2</sup> cable.
- **Stainless steel** screws. Special options for voltage / frequency, colours and V0-850° **self extinguishing** materials are available on request.

## ACCENT LIGHT ARCHITECTURAL - Recessed in-ground



94	04	CRICKET 61/S	Symmetrical reflectors					
05096894	AL/S	14/24	ETRC	<table border="0"> <tr><td>G5 14W</td><td>Lumilux FH-14/Master TL5 HE</td></tr> <tr><td>G5 24W</td><td>Lumilux FQ-24/Master TL5 HO</td></tr> </table>	G5 14W	Lumilux FH-14/Master TL5 HE	G5 24W	Lumilux FQ-24/Master TL5 HO
G5 14W	Lumilux FH-14/Master TL5 HE							
G5 24W	Lumilux FQ-24/Master TL5 HO							
05097204	I/S	14/24	ETRC	<table border="0"> <tr><td>G5 14W</td><td>Lumilux FH-14/Master TL5 HE</td></tr> <tr><td>G5 24W</td><td>Lumilux FQ-24/Master TL5 HO</td></tr> </table>	G5 14W	Lumilux FH-14/Master TL5 HE	G5 24W	Lumilux FQ-24/Master TL5 HO
G5 14W	Lumilux FH-14/Master TL5 HE							
G5 24W	Lumilux FQ-24/Master TL5 HO							

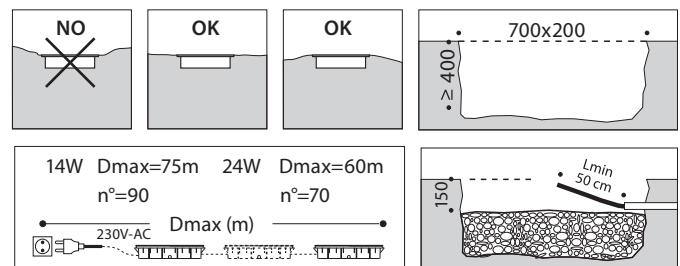


94	04	CRICKET 61/A	Asymmetrical reflectors (Imax 10°)					
05096694	AL/A	14/24	ETRC	<table border="0"> <tr><td>G5 14W</td><td>Lumilux FH-14/Master TL5 HE</td></tr> <tr><td>G5 24W</td><td>Lumilux FQ-24/Master TL5 HO</td></tr> </table>	G5 14W	Lumilux FH-14/Master TL5 HE	G5 24W	Lumilux FQ-24/Master TL5 HO
G5 14W	Lumilux FH-14/Master TL5 HE							
G5 24W	Lumilux FQ-24/Master TL5 HO							
05097004	I/A	14/24	ETRC	<table border="0"> <tr><td>G5 14W</td><td>Lumilux FH-14/Master TL5 HE</td></tr> <tr><td>G5 24W</td><td>Lumilux FQ-24/Master TL5 HO</td></tr> </table>	G5 14W	Lumilux FH-14/Master TL5 HE	G5 24W	Lumilux FQ-24/Master TL5 HO
G5 14W	Lumilux FH-14/Master TL5 HE							
G5 24W	Lumilux FQ-24/Master TL5 HO							



### INSTALLATION

Cricket 61 IP67 recessed in-ground fittings may be subjected to heavy load and impact from pedestrians and motor vehicles during use. For optimum performance and safety it is important that they are correctly installed by a suitable qualified person, in strict accordance with the manufacturer's installation instructions. Cricket 61 are designed to withstand a maximum static load of 3200Kg when correctly installed into concrete and maximum travelling load, by motor vehicles with pneumatic tyres, of 15000Kg gross weight at a maximum speed of 30Km/h. If installed into earth then a maximum weight of 300Kg is advised due to less support. To maintain IP67 integrity use toughened rubber cable H07RN-F2.5 Ø9-12mm (see range of accessories) or H07RN-F 2x2.5 max Ø12mm cables only. Cricket 61 is suitable for through wiring connection subject to recommendations detailed in data shown (see table). The fittings must not be located in a hollow and should be seated on a gravel sump, of approximately 250 mm depth from base of fitting, to allow for water drainage.



### ACCESSORIES



14018320	A0235	Rubber cable H07RN-F 2x1.5mm <sup>2</sup> supplied and sold in 1 metre units.
14076720	A0382	1 metre H07RN-F 2x1.5 mm <sup>2</sup> cable supplied complete with fitting.
14026620	A0250/AL	Mechanical joining kit accessory for continuous line connection of two fittings. A0250/AL - Aluminium plate finished aluminium grey,
14026720	A0250/Inox	A0250/I - AISI 316 stainless steel plate. In outdoor applications we recommend a maximum of five units /AL and ten units /Inox.

						IK 09 18J									
CLASS II		94	04	IP 67									FH 14W	FQ 24W	LED Max 1,5W



94	04	CRICKET 61/ LED HP	With 8 LED from 1.4W, adjustables ±20°
06013594	○ White		
06013804	○ White		8 Led x 1,4W
06013694	● Blue		
06013904	● Blue		



LED versions must be fed from a 220-240V, 50/60Hz mains supply. They are supplied complete with two cable glands with internal wiring suitable for single or through wiring connection (Maximum 35 fittings on a maximum 100M length).



94	04	CRICKET 61/ LED HP / RGB	With 5 colour changing multi-LED
06013794	5 Led multichip		5 Led x 3,6W
06014004	5 Led multichip		



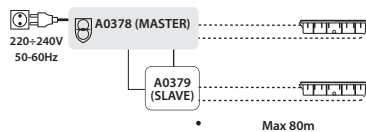
CRICKET 61/LED - HP / RGB Class III fittings complete with 5 colour changing multi-chip LED's (5 x 3.6W - 45°). Fittings require an RGB supply and control unit (MASTER) for operation. Connections between MASTER unit and fittings should be made using the appropriate cable supplied as accessory A0380. The RGB system provides the choice of three colour changing programs: All colour rainbow (70 sec. cycle), warm colours (50 sec. cycle) and cold colours (50 sec. cycle). Single colour fixed options are also possible. MASTER unit (A0378), to be ordered together with fittings, should be installed in a suitable enclosed location at a maximum distance of 80M from the fittings.

- Operating 1 fitting: one MASTER unit A0378
- Operating 2 fittings: one MASTER unit A0378 + one SLAVE unit A0379.
- Operating 3 up to a max 100 fittings: one MASTER unit A0378 + A0379 "qty" SLAVE units + A0220/40 "qty" Transformer. A0379 "qty" = (Total no. fittings - 1) A0220/40 "qty" = ((rounding up total no. fittings to nearest multiple 2) ÷ 2).

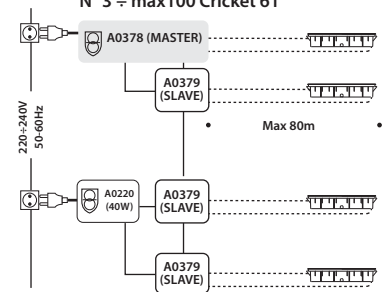
#### N° 1 Cricket 61



#### N° 2 Cricket 61



#### N° 3 ÷ max100 Cricket 61



#### ACCESSORIES



14071920	A0378	Driver and control unit including 40W transformer. 220-240V, 50/60Hz AC 24V CC. complete with MASTER colour changing unit (suitable to operate one CRICKET 61 LED RGB).
14072020	A0379	Additional (SLAVE) colour changing unit (suitable to operate one CRICKET 61 LED RGB). SLAVE units are controlled via MASTER unit.
14015520	A0220/40	40W Electronic transformer 115-240V 50/60Hz AC/24V CC, mounted on galvanised steel tray.
14072220	A0381	Infrared remote control for colour changing MASTER unit.
14072120	A0380	S05RN-F 3x1mm² x RGB cable sold and supplied in 1 metre units.

# CRICKET 25



**CRICKET 25** contemporary square IP67 recessed in-ground fittings designed to take the load and impact from pedestrians and motor vehicles. A range designed and based upon more than ten years experience, and over 100,000 in-ground fittings installed, by SBP world wide. Cricket 25 is suitable for lamp options from 26W compact fluorescent to 150W HID, offering versions with low glass surface temperatures. With a wide range of optics and accessories they are a flexible high performance fitting suitable for creating dramatic effects on historical and modern buildings, highlighting architectural features, illuminating walls / façades, and public area lighting. Glass retaining options available as Cricket 25 frameless with stainless steel corner fixings, **Cricket 25/ I** with stainless steel frame, and **Cricket 25/ AL** aluminium frame.

- **Technopolymer** body and outer recessing enclosure resistant to temperature variances.
- **Toughened** "safety" glass, IK10 - 24J.
- **Anti-ageing** silicone gasket.
- Glass cover retaining options:  
Cricket 25: Frameless with AISI 316 stainless steel corner fixing clamps;  
Cricket 25/AL: Aluminium frame finished  
Cricket25/I: AISI 316 stainless steel frame suitable for installation in marine environment.
- Reflector options; **Circular adjustable** 0° to -10° and **asymmetrical** reflectors adjustable -5° to -15°.
- M20x1.5 cable gland for Ø7 12mm cables. 2x2,5mm<sup>2</sup> automatic **isolating switch**, automatically interrupts supply on opening fitting to provide extra safety.
- **Stainless steel** external screws.

## ACCENT LIGHT ARCHITECTURAL - Recessed in-ground



04	CRICKET 25						with stainless steel clamps - asymmetrical reflector	T max °C
05161490	As 26/42	ETRC		GX24q3	26/32W	DULUX D-E/PLC-4P	55°	
				GX24q4	42W	DULUX T-E/PLT-4P	55°	
05160990	As 70	CR		E27	70W	NAV-T/SON-T/CDO-TT	80°	
05158490	As 72	CR		RX7s	70W	NAV-TS / HQI-TS / MH-TD	90°	
						HCI-TS / CDM-TD		
05161090	As 150	CR		E27	150W	HQI-E	125°	
05161190	As 152	CR		RX7s	150W	NAV-TS/HQI-TS/MH-TD	140°	

04	CRICKET 25						with stainless steel clamps - circular reflector	T max °C
05165390	/C 36	CR		G12	35W	HCI-T / CDM-T	74°	
05161290	/C 71	CR		G12	70W	HQI-T/ HCI-T / CDM-T	120°	
05161390	/C 151	CR		G12	150W	HQI-T/ HCI-T / CDM-T	160°	

94	04	CRICKET 25					with frame - asymmetrical reflector	T max °C
05161990		As 26/42ETRC		GX24q3	26/32W	DULUX D-E/PLC-4P	55°	
				GX24q4	42W	DULUX T-E/PLT-4P	55°	
05161590		As 70 CR		E27	70W	NAV-T/SON-T/CDO-TT	80°	
05158890		As 72 CR		RX7s	70W	NAV-TS / HQI-TS / MH-TD	90°	
						HCI-TS / CDM-TD		
05161690		As 150 CR		E27	150W	HQI-E	125°	
05161790		As 152 CR		RX7s	150W	NAV-TS / HQI-TS / MH-TD	140°	
		05162604		GX24q3	26/32W	DULUX D-E/PLC-4P	55°	
				GX24q4	42W	DULUX T-E/PLT-4P	55°	
		05162004		E27	70W	NAV-T/SON-T/CDO-TT	80°	
		05162104		RX7s	70W	NAV-TS / HQI-TS / MH-TD	90°	
						HCI-TS / CDM-TD		
		05162204		E27	150W	HQI-E	125°	
		05162304		RX7s	150W	NAV-TS / HQI-TS / MH-TD	140°	

94	04	CRICKET 25					with frame - circular reflector	T max °C
05165490		/C 36 CR		G12	35W	HCI-T / CDM-T	74°	
05158590		/C 71 CR		G12	70W	HQI-T/ HCI-T / CDM-T	120°	
05161890		/C 151 CR		G12	150W	HQI-T/ HCI-T / CDM-T	160°	
		05165504		G12	35W	HCI-T / CDM-T	74°	
		05162404		G12	70W	HQI-T/ HCI-T / CDM-T	120°	
		05162504		G12	150W	HQI-T/ HCI-T / CDM-T	160°	

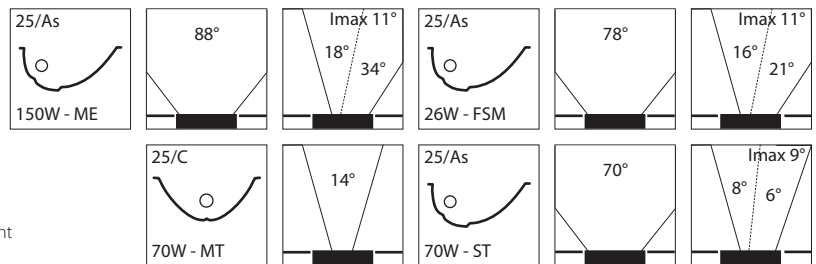


						<b>IK 10 24J</b>						<b>CE</b>			
<b>CLASS II</b>		<b>94</b>	<b>04</b>	<b>IP 67</b>						<b>ST</b> Max 70W	<b>SD</b> Max 150W	<b>MD</b> Max 150W	<b>ME</b> Max 150W	<b>MT</b> Max 150W	<b>FSM</b> 26-42W
									M20x1,5 Ø7-Ø12 H07RN-F 2x1,5 2x2,5mm <sup>2</sup>		Max 30Km/h Max 12.000Kg		Max 3.000Kg		



### T max °C

Maximum external glass working temperature, measured at an ambient temperature of 25°C and with 230V/50Hz main supply. Glass surface temperature can be reduced by up to 10°C by using A0349 filter glass accessory, or up to 5°C using A0350 frosted glass accessory.

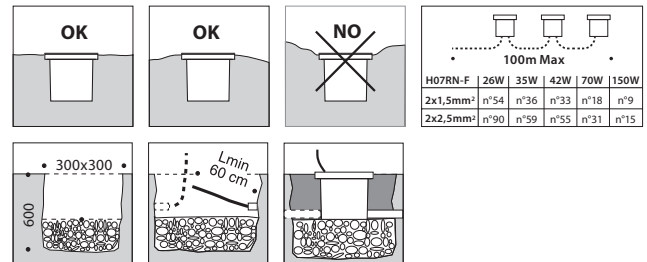


### INSTALLATION

Cricket 25 IP67 recessed in-ground fittings may be subjected to heavy load and impact from pedestrians and motor vehicles during use. For optimum performance and safety it is important that they are correctly installed by a suitable qualified person, in strict accordance with the manufacturer's installation instructions.

Cricket 25, when correctly installed into concrete they are designed to withstand a maximum static load of 3000Kg or a maximum travelling load, by motor vehicles with pneumatic tyres, of 12000Kg gross weight at a maximum speed of 30Km/h. If installed into soil they are suitable for impact from passing light vehicles (max 300Kg).

- Allow for good water drainage
- Use H07RN-F 2x1.5 mm<sup>2</sup> Ø7-12mm cables only (see accessory A0235).
- The fittings must not be located in a hollow or submerged underwater.
- When installing fittings within public access it is advisable to be aware of the glass temperatures indicated (**T max °C**) and confirm measurements at rated voltage are in accordance with national and local standards.



### ACCESSORIES



14058412	A0348	Internal aluminium circular baffle for CRICKET 25/C only.
14058520	A0349	Internal low emission filter glass fits behind standard glass cover to reduce the outer glass surface temperature by 10°C. (Not suitable for C/70-150W - A/150W and not to be combined with A0350).
14058820	A0350	Internal frosted glass fits behind standard glass cover to reduce glare and the outer glass surface temperature by 5°C. Not to be combined with A0349.
14051720	A0323	M20 x 1.5 anti-tearing cable gland kit for through wiring connection.
14018320	A0235	H07RN8-F 2x1.5mm <sup>2</sup> rubber cable supplied and sold in 1 metre units.
14076720	A0382	1 metre H07RN8-F 2x1.5 mm <sup>2</sup> cable supplied complete with fitting.

# CRICKET 40



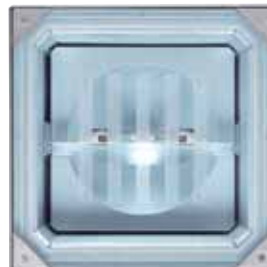
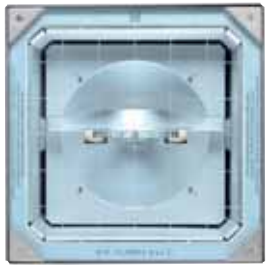
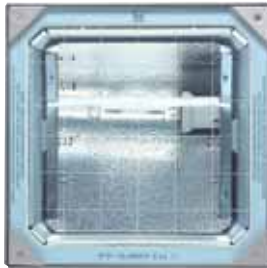
CRICKET 40 are high performance contemporary square IP67 recessed in-ground fittings for up to 250W HID lamps, designed to take the load and impact from pedestrians and motor vehicles.

Cricket 40 are made from high quality corrosion resistant materials with precision finishing and attention to design, which makes them suitable for a variety of both indoor and outdoor installations. With a wide range of reflectors allowing flexibility with optics and design the Cricket 40 is a high performance fitting suitable for creating dramatic effects on historical and modern buildings, highlighting architectural features, illuminating walls / façades, and public area lighting.

Cricket 40 LT versions for 150W lamps complete with low emission filter glass to reduce external glass temperatures for use in sensitive areas with public access.

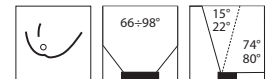
- Strong AISI 304 (A2) stainless steel external frame and outer recessing enclosure.
- Glass reinforced fibre (GRP) polyamide body in grey.
- Two PG16 cable-glands for Ø10-14mm<sup>2</sup> cables complete with bung for single or through wiring connection.
- Reflectors in high purity aluminium, adjustable  $\pm 10^\circ$ .
- Anti-ageing one piece silicone gasket.
- 2mm toughened "safety" glass etched in light grey. Non-slip (NS) glass available on request.
- Stainless steel corner fixing clips (AISI 304).
- Stainless steel internal and external screws.

## ACCENT LIGHT ARCHITECTURAL - Recessed in-ground



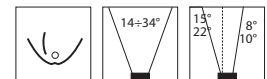
04		CRICKET 40		Asymmetrical reflector adjustable $\pm 10^\circ$			T max °C
•	05072790	40/A	70	CR		RX7s 70W NAV-TS/HQI-TS MH-TD/CDM-TD	67°
•	05065990	40/A	102	CR		E40 100W NAV-T/SON-T	69°
•	05066090	40/A	150	CR		RX7s 150W NAV-TS/HQI-TS	88°
◊	05068590	40/A	150/LT	CR		RX7s 150W MH-TD/CDM-TD	72°
•	05066390	40/A	151	CR		E40 150W CDO-TT/NAV-T	89°
◊	05068690	40/A	151/LT	CR		E40 150W CDO-TT/NAV-T	76°
•	05066290	40/A	250	CR		E40 250W NAV-T/HQI-T/D HPI-T Plus	122°
••	05072890	40/A	NS 70	CR		RX7s 70W NAV-TS/HQI-TS MH-TD/CDM-TD	67°
••	05063490	40/A	NS 102	CR		E40 100W NAV-T/SON-T	69°
••	05063590	40/A	NS 150	CR		RX7s 150W NAV-TS/HQI-TS	88°
◊	05068890	40/A	NS 150/LT	CR		RX7s 150W MH-TD/CDM-TD	72°
••	05063690	40/A	NS 151	CR		E40 150W CDO-TT/NAV-T	89°
◊	05068990	40/A	NS 151/LT	CR		E40 150W CDO-TT/NAV-T	76°
••	05063790	40/A	NS 250	CR		E40 250W NAV-T/HQI-T/D HPI-T Plus	122°

- Models with clear glass.
- Models with non-slip glass.
- ◊ Models with low-emission filter reducing external temperature on glass.



04		CRICKET 40 / C		Circular reflector adjustable $\pm 10^\circ$			T max °C
•	05095790	40/C	70	CR		RX7s 70W NAV-TS/HQI-TS/MH-TD/CDM-TD	75°
•	05066490	40/C	150	CR		RX7s 150W NAV-TS/HQI-TS/MH-TD/CDM-TD	101°
◊	05068790	40/C	150/LT	CR		RX7s 150W NAV-TS/HQI-TS/MH-TD/CDM-TD	93°
•	05066590	40/C	250	CR		Fc2 250W HQI-TS/MH-TD	150°
•	05066890	40/C	252	CR		Fc2 250W NAV-TS	147°
••	05095890	40/C NS	70	CR		RX7s 70W NAV-TS/HQI-TS/MH-TD/CDM-TD	75°
••	05063890	40/C NS	150	CR		RX7s 150W NAV-TS/HQI-TS/MH-TD/CDM-TD	101°
◊	05069090	40/C NS	150/LT	CR		RX7s 150W NAV-TS/HQI-TS/MH-TD/CDM-TD	93°
••	05066190	40/C NS	250	CR		Fc2 250W HQI-TS/MH-TD	150°
••	05066990	40/C NS	252	CR		Fc2 250W NAV-TS	147°

- Models with clear glass.
- Models with non-slip glass.
- ◊ Models with low-emission filter reducing external temperature on glass.



				<b>IK 09 18J</b>		max 23kg										
<b>CLASS II</b>		<b>04</b>	<b>IP 67</b>			Max150W		Max150W		Max 250W		Max 250W		Max 250W		Max 250W
			$\text{PG16}$ $\text{Ø10-Ø14}$		$\text{H07RN-F } 2 \times 2,5 \text{--} 4$	$4 \times 10 \text{mm}^2$		Max 30Km/h Max 20.000Kg		Max 4.000Kg						

**INSTALLATION**

Cricket 40 IP67 recessed in-ground fittings may be subjected to heavy load and impact from pedestrians and motor vehicles during use. For optimum performance and safety it is important that they are correctly installed by a suitable qualified person, in strict accordance with the manufacturer installation instructions. The fittings must not be located in a hollow or submerged underwater and should be seated on a gravel sump, of approximately  $\geq 600$  mm depth from base of fitting, to allow for water drainage. When correctly installed into concrete Cricket 40 are designed to withstand a maximum travelling load, by motor vehicles with pneumatic tyres, of 20000Kg gross weight (5,000Kg / per wheel) at a maximum speed of 30Km/h. If installed into earth the fittings are suitable for pedestrian use only, not motor vehicles. Use H07 RN-F 2x2.5 or 2x4 of  $\text{Ø10}$  to  $14 \text{ mm}^2$  cables only. When installing fittings within public access it is advisable to be aware of the glass temperatures indicated (T max °C) and confirm measurements at rated voltage are in accordance with national and local standards.

**OK** **OK** **NO**

$\geq 650 \times 650$   
 $\geq 1100$   
460

230V-AC

	H07RN-F	2x2,5	L max	2x4	L max
100W	12	120	16	160	
150W	10	100	13	130	
250W	5	100	7	140	

**ACCESSORIES**



14011320	A0205	Anti-vandal locking set comprising 20 stainless steel screws DIN 7991 TP4 (sufficient for no.5 fittings) plus 1 key.
14027420	A0252	CRICKET 40 frosted glass.
14027320	A0251	Supplement for Cricket 40 frosted glass factory fitted to be ordered as a separate item along with fitting.
14053720	A0337	H07RN-F 2x2.5mm <sup>2</sup> rubber cable supplied and sold in 1 metre units.
14076820	A0383	1 metre H07RN-F 2x2.5 mm <sup>2</sup> cable supplied complete with fitting.



# TYCO 10



**TYCO** die cast aluminium IP66 spot lights for halogen, dichroic and LED lamps suitable for indoor and outdoor applications. A compact and contemporary designed fitting manufactured from high quality materials and precision finishing. Ideal for highlighting and architectural feature / effect lighting, museums, sculptures, galleries, retail, showrooms, gardens and parks etc.

TYCO are available in two sizes:

- Tyco 10, suitable for lamp types (maximum); 50W halogen, 50W dichroic and 3x1W LED.
- Tyco 20, suitable for lamp types (maximum); 150W metal halide and 75W halogen (see page 72).

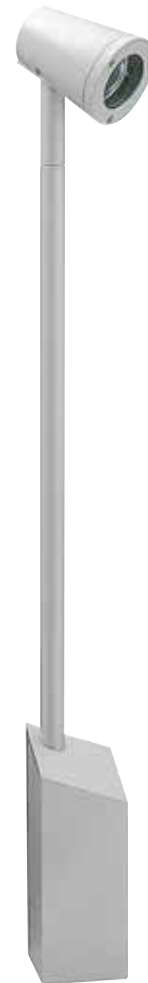
- Body, frame and control gear box in chromate pre treated corrosion resistant die cast painted aluminium grey or matt black.
- Toughened safety glass.
- Reflector in high purity 99.85% aluminium anodized and polished.
- Gasket locating ring in technopolymer, resistant to very high temperatures.
- Silicone gaskets
- Internal Teflon / silicone sheathed cables.
- Cable entry Ø7-10mm-2x1-1.5mm<sup>2</sup>
- Stainless steel external screws.



TYCO 10



TYCO 12



TYCO 13



TYCO 14



TYCO 15



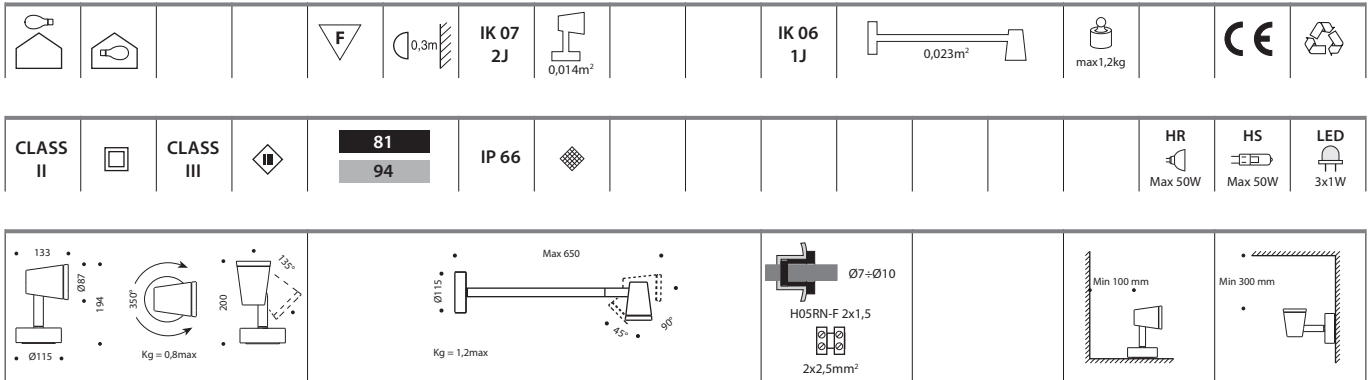
Tyco offers a solution to a variety of applications with the following versions:

- Tyco 10
- Tyco 12
- Tyco 13
- Tyco 14
- Tyco 15

Tyco LED versions are non-UV transmitting and minimum heat radiated fittings making them particularly useful for areas sensitive to UV and heat e.g. galleries, paintings, artwork, museums, ancient artefacts etc.

Tyco 10/51 - 12/51 - 14/51 - 13/51 models are complete with self adjustable lamp positioning for wide to narrow beam light distributions.





## TYCO 10/12

### 94 TYCO 10



•	01019294	10/50/12	94	◊	▲	GU5,3	50W/12V
*•	01019394	10/51/12	94	◊	▶	GY6,35	50W/12V
••	01020494	10/52/230	94	◻	▲	GZ10	50W/220-240V
•••	04010094	10/50T/12	94 ETRC	◻	▲	GU5,3	50W/230V/12V
*•••	04012094	10/51T/12	94 ETRC	◻	▶	GY6,35	50W/230V/12V
◊	06009994	10/Led-B	94	◻	▶	Led	3x1W - 95/230-240V

### 81 TYCO 10



•	01028681	10/50/12	81	◊	▲	GU5,3	50W/12V
*•	01028781	10/51/12	81	◊	▶	GY6,35	50W/12V
••	01028881	10/52/230	81	◻	▲	GZ10	50W/220-240V
•••	04017481	10/50T/12	81 ETRC	◻	▲	GU5,3	50W/230V/12V
*•••	04017581	10/51T/12	81 ETRC	◻	▶	GY6,35	50W/230V/12V
◊	06010081	10/Led-B	81	◻	▶	Led	3x1W - 95/230-240V

### 94 TYCO 12



•	01020894	12/50/12	94	◊	▲	GU5,3	50W/12V
*•	01020994	12/51/12	94	◊	▶	GY6,35	50W/12V
••	01021094	12/52/230	94	◻	▲	GZ10	50W/220-240V
•••	04012194	12/50T/12	94 ETRC	◻	▲	GU5,3	50W/230V/12V
*•••	04012294	12/51T/12	94 ETRC	◻	▶	GY6,35	50W/230V/12V

### 81 TYCO 12

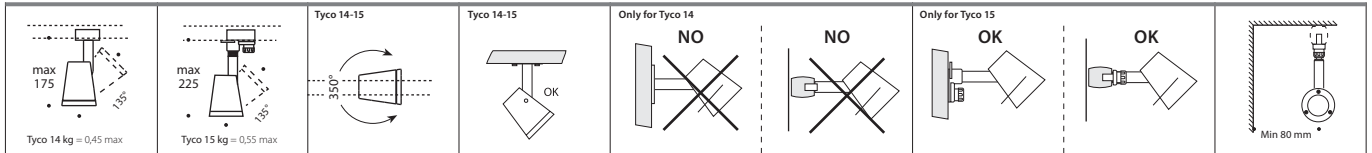


•	01028981	12/50/12	81	◊	▲	GU5,3	50W/12V
*•	01029081	12/51/12	81	◊	▶	GY6,35	50W/12V
••	01029181	12/52/230	81	◻	▲	GZ10	50W/220-240V
•••	04017681	12/50T/12	81 ETRC	◻	▲	GU5,3	50W/230V/12V
*•••	04017781	12/51T/12	81 ETRC	◻	▶	GY6,35	50W/230V/12V

- Models less transformer require 12V supply.
- Models for mains voltage lamp versions.
- Models for low voltage 12V lamps with electronic transformer 230-240V/12V 50/60Hz.
- ◊ Models with three white 1W LED's 12V and electronic driver. Supplied with 45° light distribution lens.
- \* Models complete with self adjustable lamp, in three positions, for wide to narrow beam light distributions.



CLASS II		CLASS III		<b>81</b> 94	IP 20						HR Max 50W	HS Max 50W	LED 3x1W
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ACCENT LIGHT ARCHITECTURAL

# TYCO 14-15



94	81	TYCO 14	Low voltage track fixing	
•	<b>01020594</b>	14/50/12		GU5,3 50W/12V
•	<b>01029581</b>	14/50/12		GU5,3 50W/12V
*	<b>01020694</b>	14/51/12		GY6,35 50W/12V
*•	<b>01029681</b>	14/51/12		GY6,35 50W/12V

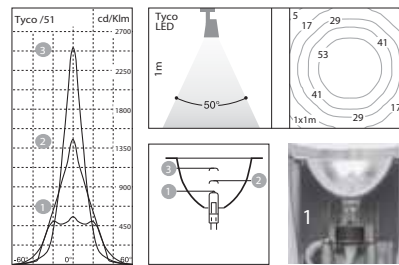
• Models less transformer for 12V lamp supply.



94	81	TYCO 15	Low voltage track fixing	
••	<b>01020794</b>	15/52/230		GZ10 50W/230-240V
••	<b>01029781</b>	15/52/230		GZ10 50W/230-240V
◇	<b>06009894</b>	15/Led-B		3x1W - 95/240V
◇	<b>06010181</b>	15/Led-B		3x1W - 95/240V

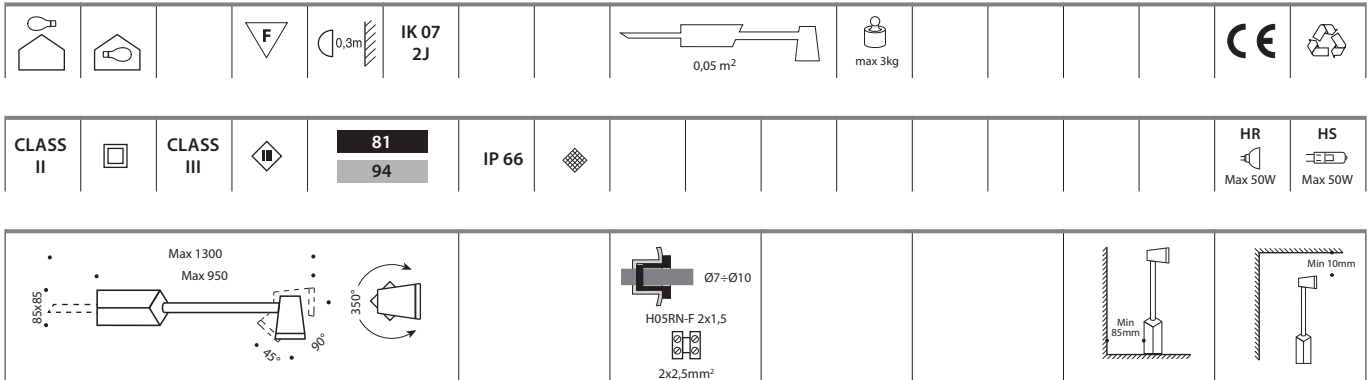
• Models less transformer 12V lamp supply.  
•• Models for mains voltage supply 230-240V, 50/60Hz.

◇ Models with three white 1W LED's 12V and electronic driver. Supplied with 45° light distribution lens. Mains voltage supply.



\* Tyco 10/51 and 12/51 models are complete with self adjustable lamp positioning for wide to narrow beam light distributions. Supplied factory set in wide position.





**ACCENT LIGHT ARCHITECTURAL**

**TYCO 13**



94	81	TYCO 13	Mains voltage track fixing		
•	<b>01021194</b>	13/50/12	◆	△	GU5,3 50W/12V
•	<b>01029281</b>		◆	△	GU5,3 50W/12V
*•	<b>01021294</b>	13/51/12	◆	⊞	GY6,35 50W/12V
*•	<b>01029381</b>		◆	⊞	GY6,35 50W/12V
••	<b>01021394</b>	13/52/230	□	△	GZ10 50W/220-240V
••	<b>01029481</b>		□	△	GZ10 50W/220-240V
•••	<b>04012394</b>	13/50T/12 - ETRC	□	△	GU5,3 50W/220-240V/12V
•••	<b>04017881</b>		□	△	GU5,3 50W/220-240V/12V
•••	<b>04012494</b>	13/51T/12 - ETRC	□	⊞	GY6,35 50W/220-240V/12V
•••	<b>04017981</b>		□	⊞	GY6,35 50W/220-240V/12V

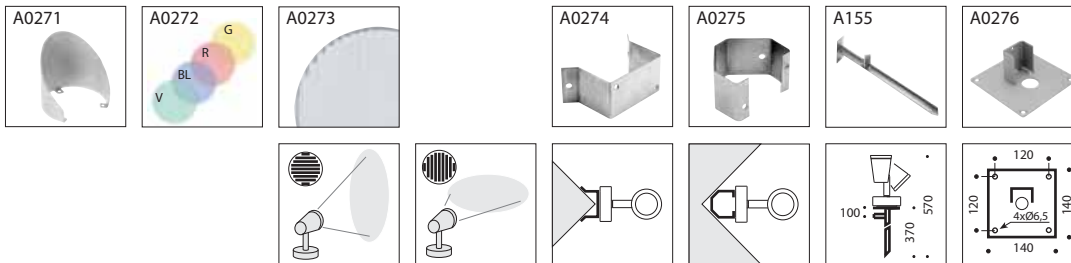
- Complete with die cast aluminium wiring box / ground mounting base unit.
- Models less transformer require 12V supply. Models mains voltage lamp versions.
- Models for low voltage 12V lamps with electronic transformer 220-240V/12V, 50/60Hz.
- \* Models complete with self adjustable lamp, in three positions, for wide to narrow beam light distributions.

Tyco 13 ground mounted spot light suitable for small architectural detail and feature lighting, gardens, and pathways etc.

Tyco 13 painted aluminium grey

- Wiring box / ground mounting base unit suitable for through wiring connection.
- Tubular aluminium arm and die cast aluminium body.
- Supplied complete with hot dipped galvanised stainless steel spike for ground or concrete installation.
- A0276 ground mounting plate accessory.

**ACCESSORIES**



14048381	A0271	81	External aluminium cowl finished polyester painted matt black.
14037894	A0271	94	External aluminium cowl finished polyester painted aluminium grey.
14037920	A0272	/R	Internal dichroic colour filters (not suitable for TYCO GZ 10 lamp or use with A0273 accessory).
14038020	A0272	/G	Internal dichroic colour filters (not suitable for TYCO GZ 10 lamp or use with A0273 accessory).
14038120	A0272	/V	Internal dichroic colour filters (not suitable for TYCO GZ 10 lamp or use with A0273 accessory).
14038220	A0272	/BL	Internal dichroic colour filters (not suitable for TYCO GZ 10 lamp or use with A0273 accessory).
14038320	A0273		Internal prismatic glass rotates through 180° to give oval light distribution (not suitable for TYCO GZ10 lamp or use with A0273 accessory).
14038404	A0274	/04	AISI 304 stainless steel bracket for external 90° corner mounting (not suitable for TYCO 13, 14 and 15).
14038504	A0275	/04	AISI 304 stainless steel bracket for internal 90° corner mounting (not suitable for TYCO 13, 14 and 15).
14040936	A155		TYCO 10/12 galvanised steel spike for ground installation.
14048481	A0276	81	TYCO 13 stainless steel ground mounting plate finished polyester painted matt black.
14038694	A0276	94	TYCO 13 stainless steel ground mounting plate finished polyester painted aluminium grey.

# TYCO 11



 ACCENT LIGHT ARCHITECTURAL

**TYCO 11** die cast aluminium spotlight fittings suitable for indoor and outdoor applications, designed for use with new generation compact metal halide lamps; CDM-TM 20W/CMH MR16 20W. A contemporary designed fitting manufactured from high quality materials, suitable for a variety of applications as accent and feature lighting; for buildings façades, highlighting architectural features in museums, churches, galleries or effect lighting in retail and showrooms etc.

TYCO 11 is available in the following versions:


- TYCO 11 MT for floor or wall mounted
- TYCO 11 SLIM FL (floor) floor mounted only.
- TYCO 11 SLIM WL (wall) wall mounted only.
- TYCO 11 RM + BOX TYCO 11 RM MT with remote gear box.

Ideal for applications that require gear box to be hidden discreetly, gear box to be ordered as a separate item in addition to spotlight fitting.

- Fitting constructed from corrosion resistant die-cast and extruded aluminium finished polyester powder coated or MATT BLACK.
  - 5mm toughened safety glass.
  - High performance reflectors, where utilised, in high purity (99.85%) aluminium anodised and polished.
  - Anti-ageing silicon gaskets
  - Teflon insulated cables with silicon sleeving.
  - Automatic isolating terminal.
  - Rubber grommet for cables diam.7-10mm - 2x1,5mm<sup>2</sup>
  - Stainless steel external fixings.
- Accessories to meet the most varied installation requirements.




## 81 94 96 TYCO 11/20 MT

• 04023881	20 MT	ETRC		PGJ5	20W	CDM-TM
• 04023994	20 MT	ETRC		PGJ5	20W	CDM-TM
• 04024096	20 MT	ETRC		PGJ5	20W	CDM-TM


## 81 94 96 TYCO 11/21 MT

• 04025181	21 MT	ETRC		Gx10	20W	CMH-MR16
• 04025294	21 MT	ETRC		Gx10	20W	CMH-MR16
• 04025396	21 MT	ETRC		Gx10	20W	CMH-MR16

- CLASS I models. 

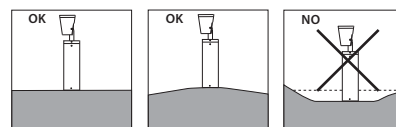


## 81 94 96 TYCO 11/20 SLIM/FL (floor)

04024181	20 MT	ETRC		PGJ5	20W	CDM-TM
04024294	20 MT	ETRC		PGJ5	20W	CDM-TM
04024396	20 MT	ETRC		PGJ5	20W	CDM-TM

## 81 94 96 TYCO 11/21 SLIM/FL (floor)

04025481	21 MT	ETRC		Gx10	20W	CMH-MR16
04025594	21 MT	ETRC		Gx10	20W	CMH-MR16
04025696	21 MT	ETRC		Gx10	20W	CMH-MR16



## 81 94 96 TYCO 11/20 SLIM/WL (wall)

04025781	20 MT	ETRC		PGJ5	20W	CDM-TM
04025894	20 MT	ETRC		PGJ5	20W	CDM-TM
04025996	20 MT	ETRC		PGJ5	20W	CDM-TM

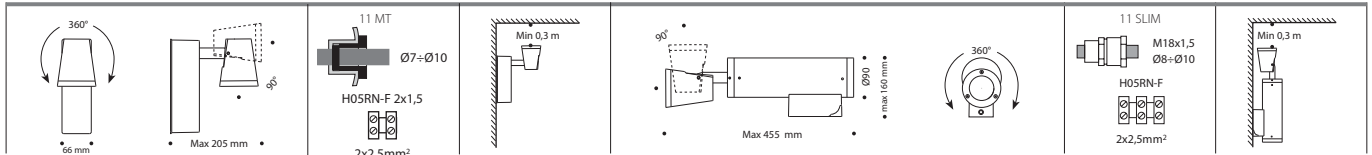
## 81 94 96 TYCO 11/21 SLIM/WL (wall)

04026081	21 MT	ETRC		Gx10	20W	CMH-MR16
04026194	21 MT	ETRC		Gx10	20W	CMH-MR16
04026296	21 MT	ETRC		Gx10	20W	CMH-MR16





only for 11/MT		CLASS I	CLASS II	81	94	96	IP 66	MT 20W	MT 20W
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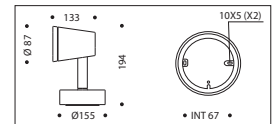


81 94 96 TYCO 11/20 RM (remote)

01043581	20 MT	ETRC	PGJ5	20W	CDM-TM
01043694	20 MT	ETRC	PGJ5	20W	CDM-TM
01043796	20 MT	ETRC	PGJ5	20W	CDM-TM

81 94 96 TYCO 11/21 RM (remote)

01044781	21 MT	ETRC	Gx10	20W	CMH-MR16
01044894	21 MT	ETRC	Gx10	20W	CMH-MR16
01044996	21 MT	ETRC	Gx10	20W	CMH-MR16

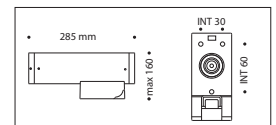


81 94 96 BOX TYCO 11/20 RM (remote) - Complete with 2m of cable

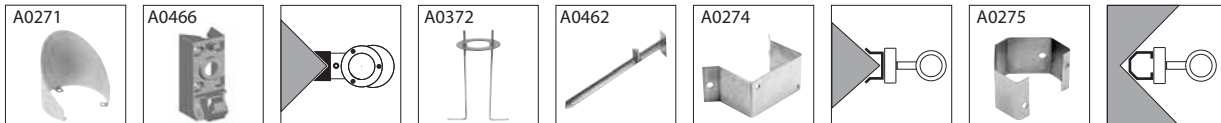
14092581	20 MT	ETRC	PGJ5	20W	CDM-TM
14094194	20 MT	ETRC	PGJ5	20W	CDM-TM
14094296	20 MT	ETRC	PGJ5	20W	CDM-TM

81 94 96 BOX TYCO 11/21 RM (remote) - Complete with 2m of cable

14094381	21 MT	ETRC	Gx10	20W	CMH-MR16
14094494	21 MT	ETRC	Gx10	20W	CMH-MR16
14094596	21 MT	ETRC	Gx10	20W	CMH-MR16



ACCESSORIES



14048381	A0271	81	External aluminium cowl finished powder coated black
14037894	A0271	94	External aluminium cowl finished powder painted aluminium grey.
14096296	A0271	96	External aluminium cowl finished powder coated.
14038404	A0274	/ 04	AISI 304 stainless steel bracket for external 90° corner mounting (only for TYCO 11 RM).
14038504	A0275	/ 04	AISI 304 stainless steel bracket for internal 90° corner mounting (only for r TYCO 11 RM).
14094681	A0466	81	90 °Angle wall bracket TYCO 11 SLIM/FL black.
14094794	A0466	94	90 °Angle wall bracket TYCO 11 SLIM painted aluminium grey.
14094896	A0466	96	90 °Angle wall bracket TYCO 11 SLIM grey.
14071320	A0372		Anchor rods for in-ground concrete mounting stainless steel plate with galvanised steel rods (TYCO11 SLIM/FL only).
14092202	A0462		Galvanised steel ground mounting spike (TYCO11 SLIM/FL only)
14093920	A0464		20W CDM-TM electronic ballast mounted on galvanised steel gear tray supplied with 2M cable.
14094020	A0465		20W CMH-MR16 electronic ballast mounted on galvanised steel gear tray supplied with 2M cable.

# TYCO 20



 ACCENT LIGHT ARCHITECTURAL

**TYCO 20** higher wattage spot lights are the larger versions within the TYCO range suitable for lamps up to 150W metal halide and Halospot 111 max 75W. Providing dramatic effect lighting for modern and historical buildings, walls, façades, parks and gardens.

Available in three versions:




**TYCO 20:** with integral control gear box.

**TYCO 21 + Box Tyco 21:** fitting with remote control gear box. Ideal for installations that require hidden gear boxes, appropriate gear box should be ordered as a separate item in addition to fitting.

**TYCO 22:** fitting complete with transformer.


- Body, frame and control gear box in sand-blasted chromate pre-treated corrosion resistant die cast aluminium finished polyester or matt black
- Toughened safety glass.
- Silicone anti-ageing gaskets.
- Reflector in high purity aluminium anodized and polished, available as **INT** (narrow beam), **M** (medium) and **W** (wide).
- M16x1.5 cable gland for Ø5-10mm cables (Tyco 21 and 22; M18x1.5 for Ø8-10mm cables).
- 3x2.5 mm<sup>2</sup> automatic isolating terminal switch, automatically interrupts supply on opening fitting to provide extra safety. Tyco 22 standard terminal; 2x2.5mm<sup>2</sup>.
- Stainless steel external screws.





94	81	TYCO 20							
05162794	05163781	20	INT	36	CR	G12	35W	CDM-T / HCI-T	
05162894	05163881	20	INT	71	CR	G12	70W	CDM-T / HCI-T	
05162994	05163981	20	INT	151	CR		G12	150W	CDM-T / HCI-T
• 05168694	05169281	20	INT	36	ETRC	G12	35W	CDM-T / HCI-T	
• 05168794	05169381	20	INT	71	ETRC	G12	70W	CDM-T / HCI-T	
05163094	05164081	20	M	36	CR	G12	35W	CDM-T / HCI-T	
05163194	05164181	20	M	71	CR	G12	70W	CDM-T / HCI-T	
05163294	05164281	20	M	151	CR		G12	150W	CDM-T / HCI-T
• 05168894	05169481	20	M	36	ETRC	G12	35W	CDM-T / HCI-T	
• 05168994	05169581	20	M	71	ETRC	G12	70W	CDM-T / HCI-T	
05163394	05164381	20	W	36	CR	G12	35W	CDM-T / HCI-T	
05163494	05164481	20	W	71	CR	G12	70W	CDM-T / HCI-T	
05163594	05164581	20	W	151	CR		G12	150W	CDM-T / HCI-T
• 05169094	05169681	20	W	36	ETRC	G12	35W	CDM-T / HCI-T	
• 05169194	05169781	20	W	71	ETRC	G12	70W	CDM-T / HCI-T	

- CLASS I Models 



94	81	TYCO 21							
01032794	01033081	21	INT	151		G12	35-70-150W	CDM-T / HCI-T	
01032894	01033181	21	M	151			G12	35-70-150W	CDM-T / HCI-T
01032994	01033281	21	W	151		G12	35-70-150W	CDM-T / HCI-T	

94	81	Box Tyco 21 - Complete with 3,5m of cable					
14057494	14057981	36	3.5	CR		35W	CDM-T / HCI-T
14057594	14058081	71	3.5	CR		70W	CDM-T / HCI-T
14057694	14058181	151	3.5	CR		150W	CDM-T / HCI-T

94	81	Box Tyco 21 - Complete with 20m of cable					
14066594	14066881	36	20	CR		35W	CDM-T / HCI-T
14066694	14066981	71	20	CR		70W	CDM-T / HCI-T
14066794	14067081	151	20	CR		150W	CDM-T / HCI-T

						<b>IK 08 6J</b>							
<b>CLASS II</b>		<b>94</b>	<b>81</b>	<b>IP 66</b>								<b>HRGI</b> 	<b>MD</b> 

**Tyco 22** suitable for **Halospot 111** low voltage **halogen** lamps (not included). Fitting complete with adjustable base and low voltage transformer 230-240V, 50/60Hz supply for 35/50 and 75W lamps.



Tyco 22 fittings are designed for highlighting / feature lighting offering high uniformity and flexibility with a range light distributions; 4°, 24° or 45° and 3000°K colour temperature.

- Body, frame and wiring / gear box in chromate pre-treated corrosion resistant die-cast aluminium finished polyester or matt black.
- **Toughened** safety glass.

- **Anti-ageing** silicone gasket.
- M18x1.5 cable gland for Ø8-10mm cables.
- 2x2,5 mm<sup>2</sup> automatic **isolating terminal**, automatically interrupts supply on opening fitting to provide extra safety.
- Stainless steel external screws.

<b>94</b>	<b>81</b>	<b>TYCO 22</b>		<b>With integral transformer</b>
<b>04018994</b>	<b>04019081</b>	22 75T		G53 75W Halospot 111 / Aluline Pro

#### ACCESSORIES

<b>A0351</b>	<b>A0352</b>	<b>A0353/A0354 A0355</b>	<b>A0356</b>	<b>A0357</b>	<b>A0358</b>	<b>A0359</b>	<b>A0360</b>

14064994	A0351	94	External aluminium cowl finished polyester aluminium grey.
14065081	A0351	81	External aluminium cowl finished polyester painted matt black.
14065112	A0352		Internal aluminium circular baffle, suitable for INT versions only.
14065220	A0353		Frosted glass.
14065320	A0354		Supplement for frosted glass.
14065420	A0355		Prismatic glass suitable for Tyco 20-21 70W max only.
14065502	A0356		Ground/ceiling angle bracket.
14065602	A0357		Galvanised steel ground mounting spike, for TYCO 20 or Box TYCO 21.
14065702	A0358		Galvanised steel ground mounting spike, suitable for TYCO 21.
14065894	A0359	94	Pole mounting clamp finished aluminium grey suitable for TYCO 20 or Box TYCO 21 only.
14065981	A0359	81	Pole mounting clamp finished black suitable for TYCO 20 or Box TYCO 21 only.
14066020	A0360		M16x1.5 anti-tearing cable gland kit.



# ISTHAR



**ISTHAR** slim linear high performance extruded aluminium IP66 fluorescent fitting suitable for indoor and outdoor applications. Available in T5 lamps; FH 14-35W / FQ 24-80W, compact fluorescent DULUX-DE / PL-C 4p 26W, DULUX-L / PL-L 55-80W and LED.

Their slim contemporary design makes them ideal for a variety of applications from general area lighting to highlighting and architectural feature lighting.

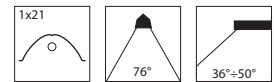
Special versions; voltages, 850° glow wire resistance etc. available on request.

- Pair of stainless steel wall brackets finished adjustable  $\pm 12^\circ$ .
- Extruded aluminium body.
- Die cast aluminium ends finished.
- Toughened safety glass, hinged to the body.
- Anti-ageing silicone rubber gasket.
- High purity 99.85% aluminium faceted reflector.
- Electronic ballast 220-240V, 50/60Hz class A2 (losses).
- Cable gland for  $\varnothing 8$ -10mm cables
- ISTHAR/C versions are complete with two cable glands and  $2 \times 1.5 \text{mm}^2$  terminal blocks for through wiring connection.
- IP66 breather mounted in one end.
- Stainless steel external screws.

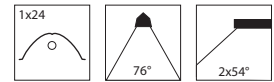
## ACCENT LIGHT ARCHITECTURAL



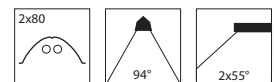
94		ISTHAR - ISTHAR /C		L mm	
05097311	114	ETRC	FH / HE Ø16 mm T5	G5 14W	LUMILUX FH-14/MASTER TL5 HE 700
05097411	121	ETRC		G5 21W	LUMILUX FH-21/MASTER TL5 HE 1000
05097511	128	ETRC		G5 28W	LUMILUX FH-28/MASTER TL5 HE 1300
05097611	135	ETRC		G5 35W	LUMILUX FH-35/MASTER TL5 HE 1600
• 05107311	/C 114	ETRC		G5 14W	LUMILUX FH-14/MASTER TL5 HE 700
• 05107411	/C 121	ETRC		G5 21W	LUMILUX FH-21/MASTER TL5 HE 1000
• 05107511	/C 128	ETRC		G5 28W	LUMILUX FH-28/MASTER TL5 HE 1300
• 05107611	/C 135	ETRC		G5 35W	LUMILUX FH-35/MASTER TL5 HE 1600



94		ISTHAR - ISTHAR /C		L mm	
05097711	124	ETRC	FQ / HO Ø16 mm T5	G5 24W	LUMILUX FQ-24/MASTER TL5 HO 700
05097811	139	ETRC		G5 39W	LUMILUX FQ-39/MASTER TL5 HO 1000
05098011	149	ETRC		G5 49W	LUMILUX FQ-49/MASTER TL5 HO 1600
05097911	154	ETRC		G5 54W	LUMILUX FQ-54/MASTER TL5 HO 1300
05098111	180	ETRC		G5 80W	LUMILUX FQ-80/MASTER TL5 HO 1600
• 05107711	/C 124	ETRC		G5 24W	LUMILUX FQ-24/MASTER TL5 HO 700
• 05107811	/C 139	ETRC		G5 39W	LUMILUX FQ-39/MASTER TL5 HO 1000
• 05107911	/C 149	ETRC		G5 49W	LUMILUX FQ-49/MASTER TL5 HO 1600
• 05108011	/C 154	ETRC		G5 54W	LUMILUX FQ-54/MASTER TL5 HO 1300
• 05108111	/C 180	ETRC		G5 80W	LUMILUX FQ-80/MASTER TL5 HO 1600



94		ISTHAR - ISTHAR /C		L mm	
•• 05212811	343	ETRC	2G11	G24q-3 26W	DULUX-DE / PL-C 4p 343
05126911	155	ETRC		1x55W	DULUX-L / PL-L 700
05127011	255	ETRC		2x55W	DULUX-L / PL-L 1300
05127111	280	ETRC		2x80W	DULUX-L / PL-L 1600
• 05127211	/C 155	ETRC		2G11	1x55W DULUX-L / PL-L 700
• 05127311	/C 255	ETRC		2G11	2x55W DULUX-L / PL-L 1300
• 05127411	/C 280	ETRC		2G11	2x80W DULUX-L / PL-L 1600



- Isthar 26 /343 an extremely compact fitting with high light outputs ideal for mounting in discreet locations on columns, arches and alcoves etc. This version is supplied with a single mounting bracket, as opposed to standard two mounting brackets, and appropriate quantities should be considered when ordering accessories; A0265, A0277, A0264, A0263/100 and A0263/300.

		Ta FH Min - 20° Max+50°C FQ Min - 0° Max+50°C					IK 07 3J			max 4,9kg				
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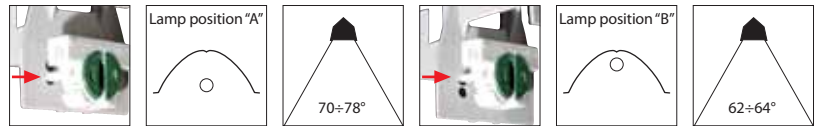
CLASS II		94	IP 66								FH 14÷35W	FQ 24÷80W	FSD 55÷80W	FSQ 26W
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				<table border="1"> <thead> <tr> <th>FH</th> <th>FQ</th> <th>FSD-FSQ</th> <th>L (mm)</th> </tr> </thead> <tbody> <tr> <td>14W</td> <td>24W</td> <td>1x55W</td> <td>700</td> </tr> <tr> <td>21W</td> <td>39W</td> <td></td> <td>1000</td> </tr> <tr> <td>28W</td> <td>54W</td> <td>2x55W</td> <td>1300</td> </tr> <tr> <td>35W</td> <td>49-80W</td> <td>2x80W</td> <td>1600</td> </tr> <tr> <td></td> <td></td> <td>26W</td> <td>343</td> </tr> </tbody> </table>	FH	FQ	FSD-FSQ	L (mm)	14W	24W	1x55W	700	21W	39W		1000	28W	54W	2x55W	1300	35W	49-80W	2x80W	1600			26W	343	 M18x1,5 Ø8÷Ø10,5 H05RN-F 2x1 H07RN-F 2x1,5 2x2,5mm <sup>2</sup>			
FH	FQ	FSD-FSQ	L (mm)																													
14W	24W	1x55W	700																													
21W	39W		1000																													
28W	54W	2x55W	1300																													
35W	49-80W	2x80W	1600																													
		26W	343																													

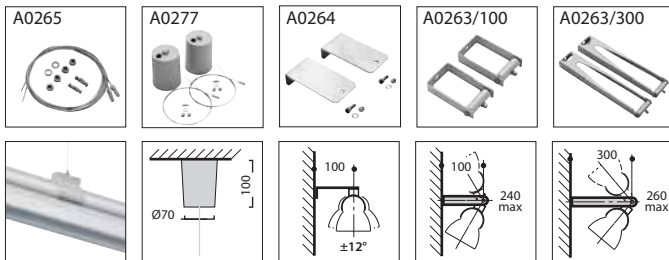
- ISTHAR/C versions are complete with internal cable 2x1,5mm<sup>2</sup> for through wiring connection. See table opposite for maximum quantities of fittings (n°) for through wiring connection and recommended maximum distance (D max).

Watt	14	21	28	35	24	39	49	54	80	55	2x55	2x80
N°	80	62	50	40	70	45	35	32	22	30	15	11
Dmax (m)	75	75	75	72	63	56	63	53	45	45	40	38

Adjustable lamp position for wide beam (Pos. A) and medium factory set Pos.B.



#### ACCESSORIES



14032420	A0265	Pair 2m wire suspension cables, suitable for indoor installation only.
14041320	A0277	Pair 2m wire suspension cables with ceiling roses finished, for indoor installation only.
14041220	A0264	Pair of stainless steel wall brackets.
14032294	A0263/100	Pair of sheet steel 100mm adjustable brackets finished, suitable for wall or ceiling installation.
14032394	A0263/300	Pair of sheet steel 300mm adjustable brackets finished, suitable for wall or ceiling installation.
14031820	A0262 / 14-24W	Frosted glass optional replacement for standard clear glass to be ordered together with fitting for factory fitted option.
14031920	A0262 / 21-39W	Frosted glass optional replacement for standard clear glass to be ordered together with fitting for factory fitted option.
14032020	A0262 / 28-54W	Frosted glass optional replacement for standard clear glass to be ordered together with fitting for factory fitted option.
14032120	A0262 / 35-49-80W	Frosted glass optional replacement for standard clear glass to be ordered together with fitting for factory fitted option.





# ISTHAR LED



ISTHAR fittings are available with LED's in the following two versions:





- Isthari LED / HP supplied with 4 x 3.2W, or 8 x 1.4W white or blue LED's
- Isthari LED / RGB providing colour changing or single colour fixed options.

ISTHAR LED fittings are ideal for creating dramatic colour lighting effects by highlighting façades and architectural features.

- Pair of stainless steel wall brackets finished adjustable  $\pm 12^\circ$ .
- Extruded aluminium body.
- Die cast aluminium ends finished aluminium grey.
- Toughened safety glass, hinged to the body.
- Anti-ageing silicone rubber gasket.
- Electronic ballast 220-240V, 50/60Hz.
- Cable gland for  $\varnothing 8-10,5$ mm cables
- ISTHAR/LED versions (no RGB) are complete with two cable glands and  $3 \times 1.5$ mm<sup>2</sup> terminal blocks for through wiring connection.
- IP66 breather mounted in one end.
- Stainless steel external screws.

 ACCENT LIGHT ARCHITECTURAL



94		ISTHAR LED / HP		L mm
06013011	○ White		4 LED x 3,2W	343
06013111	● Blue		4 LED x 3,2W	343
06013211	○ White		8 LED x 1,4W	700
06013311	● Blue		8 LED x 1,4W	700

ISTHAR/LED - HP Class I fitting complete with integral electronic transformer and LED driver for 220-240V, 50/60Hz mains supply. Supplied with internal cable  $3 \times 1.5$ mm<sup>2</sup> and terminal blocks  $3 \times 2.5$ mm<sup>2</sup> for through wiring connection up to a maximum of 35 fittings over a maximum recommended distance of 100m.

This version is supplied with a single mounting bracket, as opposed to standard two mounting brackets, and appropriate quantities should be considered when ordering accessories; A0277, A0264, A0263/100-300.



94		ISTHAR LED / HP-RGB		L mm
06013411	 5 Led multichip		5 LED x 3,6W	700

ISTHAR/LED - HP are supplied complete with five colour changing RGB multi-chip LED's (5 x 3.6W - 45°). Fittings require an RGB supply and control unit (MASTER) for operation. Connections between MASTER unit and fittings should be made using the appropriate cable supplied as accessory A0380. The RGB system provides the choice of three colour changing programs: All colour rainbow (70 sec. cycle), warm colours (50 sec. cycle) and cold colours (50 sec. cycle). Single colour fixed options are also possible.

MASTER unit (A0378) comprising driver and colour change device, to be ordered together with fittings, which should be installed in a suitable enclosed location at a maximum distance of 80m from the fittings.

- Operating 1 fitting: one MASTER unit A0378
- Operating 2 fittings: one MASTER unit A0378 + one SLAVE unit A0379.
- Operating 3 up to a max 100 fittings: one MASTER unit A0378 + A0379 "qty" SLAVE units + A0220/40 "qty" transformer Driver. A0379 "qty" = (total no. fittings - 1)

Transformer A0220/40 "qty" = ((rounding up total no. fittings to nearest multiple 2 ÷ 2) - 1).



# UWF10



**UWF 10** extra low voltage (12V) small underwater floodlights for installation in fresh water only, to depths between 0.2 - 5.0 metres.

UW 10 fittings are designed for mounting underwater, but may also be used above ground with 20W lamps max. Ideal for small fountains and water displays.

UWF 10 fittings are ideal for small fountains and water displays.



- Body and frame in technopolymer.
- Toughened safety glass.
- AISI 304 stainless steel bracket
- Nickel plated brass screws with PG11 cable gland for Ø6-10mm cables.

IP68 guaranteed only when using H07RN8-F 2x1.5 toughened rubber cable supplied with fitting as accessory (A0235).

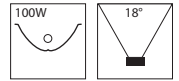
 **ACCENT LIGHT ARCHITECTURAL - Submersible**





**80** UWF 10/75-100

<b>01951018</b>	10/75 DICR.		GU5,3 max 50W/12V	■
<b>01962018</b>	10/100 HAL. B.T.		GY 6,35 max 100W/12V	■

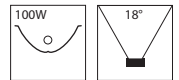
■ Minimum order 12 pcs. or multiple quantities thereof.



**80** UWF 10/75-100 + H07RN8-F

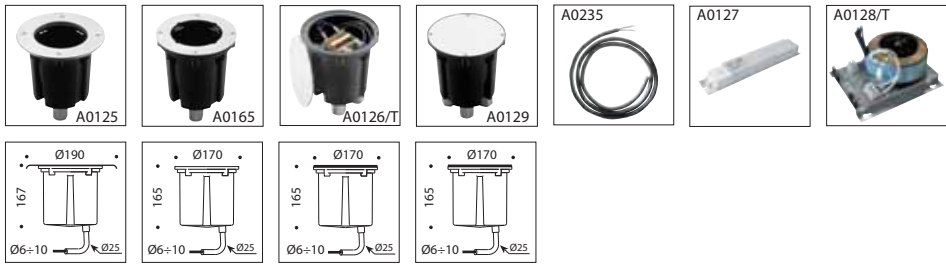
<b>01958018</b>	10/75 + H07RN8-F 2G1,5		GU5,3 max 50W/12V	
<b>01959018</b>	10/100 + H07RN8-F 2G1,5		GY 6,35 max 100W/12V	

Fitting supplied complete with 4 metres of H07RN8-F 2x1.5 cable.

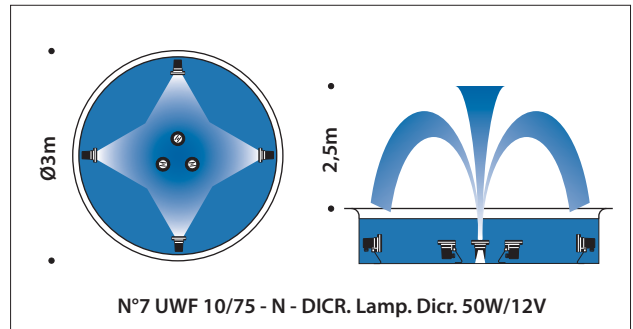
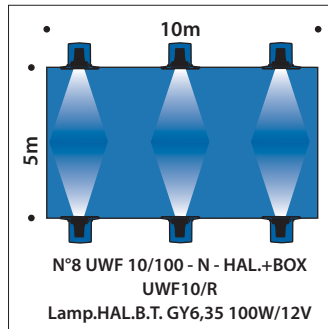
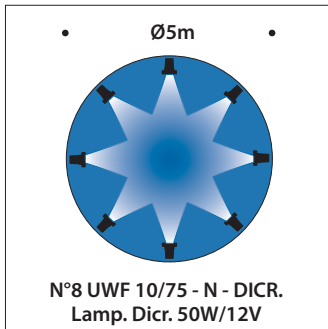


				<b>IK 08 6J</b>		max 0,4kg		<b>CE</b>	
<b>CLASS III</b>		<b>80</b>	<b>IP 68</b>					<b>HRGS</b> Max 50W	<b>HSGS</b> Max 100W

**ACCESSORIES**



14421018	A0125	Floor / wall recessing accessory for UWF 10 fitting.
14002289	A0165	Accessory for recessed installations into plastic sheet wall.
14096120	A0126/T	CLASS II IP67 box complete with 1x100VA 220-240/12V transformer for ground and concrete recessed installation (non submersible above ground use only).
14422018	A0129	CLASS II IP67 wiring box for ground and wall recessed installation (non submersible above ground use only).
14018320	A0235	H07RN8-F 2x1.5mm <sup>2</sup> rubber cable supplied and sold in 1 metre units.
14423998	A0127	1x100VA 220-240/12V safety transformer. Not suitable for installing within A0126 accessory.
14094920	A0128/T	1x350VA 240/12V safety transformer. Not suitable for installing within A0126 accessory.



# UWF22



**UWF 22** high power 300W PAR 56 extra low voltage (12V) **underwater** floodlights. Suitable for permanent submersible installation into depths between 0.3 - 5.0 metres. UWF 22 fittings are especially suited for swimming pools, water displays and fountains, creating **dramatic and exciting effects**.

UWF 22 is available in two versions: bronze (BR) and technopolymer (PPH).

UWF 22 BR (Bronze) version is suitable for **sea water installations**.

UWF 22 PPH (Technopolymer) version is suitable for **fresh water installations** only.

UWF 22 BR:

- Body and frame in **bronze alloy**
- Anti-tearing IP68 nickel brass cable gland
- **Stainless steel** bracket
- **Stainless steel** external screws.

UWF 22 PPH:

- Body and frame in white or black **technopolymer**
- Anti-tearing IP68 nickel brass cable gland
- **Stainless steel** bracket
- **Stainless steel** external screws.



ACCENT LIGHT ARCHITECTURAL - Submersible



## 40 UWF 22/BR

Suitable for sea water installations

<b>01979998</b>	22/BR - L		-	PAR 56/WFL - 300W/12V
• <b>01941998</b>	22/BR - L + H07RN8-F 2x4		-	PAR 56/WFL - 300W/12V

- Bronze (BR) version is not suitable for recessing into walls or floors.
- Supplied complete with 4m of H07RN8-F 2x4 cable.



## 80 UWF 22/PPH

Suitable for installation in fresh water only

<b>01980998</b>	22/PPH - L		-	PAR 56/WFL - 300W/12V
• <b>01981998</b>	22/PPH - L + H07RN8-F 2x4		-	PAR 56/WFL - 300W/12V

- Supplied complete with 4m of H07RN8-F 2x4 cable.



## 85 UWF 22/PPH

Suitable for installation in fresh water only

<b>01003102</b>	22/PPH - L		-	PAR 56/WFL - 300W/12V
• <b>01003202</b>	22/PPH - L + H07RN8-F 2x4		-	PAR 56/WFL - 300W/12V

- Supplied complete with 4m of H07RN8-F 2x4 cable.





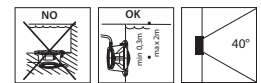
		IK 04 0,5J		max 5,5kg	CE									
CLASS III		80 85	40	IP 68		5 m	HDG		300W					
UWF22/BR		220	UWF22/PPH		153	UWF22/PPH-R		180		OK		NO		PG16 Ø10=Ø14 H07RN8-F 2x4



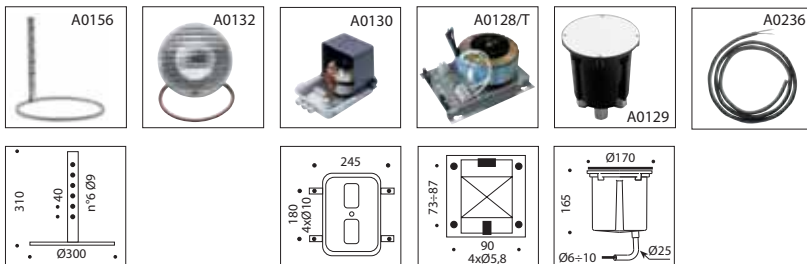
**85** UWF 22/PPH-Recessed Suitable for installation in fresh water only

**03003585** 22/PPH - R 85 + H07RN8-F 2x4 - PAR 56/WFL - 300W/12V

UWF 22/PPH Recessed is made of the UWF 22/PPH fixture, 4 mt of H07RN8 -F 2x4 mm<sup>2</sup> cable and a tecnopolymer box for wall recessed installation. PPH versions are suitable for working in fresh water only.



#### ACCESSORIES



14000799	A0156	AISI 304 stainless steel support bracket, to mount UWF 22 fittings at different heights.
14417998	A0132/BR	Seal and lamp set. Replacement lamp and seal during re-lamping.
14451998	A0133/PPH	Seal and lamp set. Replacement lamp and seal during re-lamping.
14410998	A0130/T1	CLASS I IP65 box complete with one 330VA 220-240V/12V transformer for one UWF 22 fittings.
14411998	A0130/T2	CLASS I IP65 box complete with two 330VA 220-240V/12V transformers for two UWF 22 fittings.
14412998	A0130/T3	CLASS I IP65 box complete with three 330VA 220-240V/12V transformers for three UWF 22 fittings.
14094920	A0128/T	1 x 350VA 240/12V safety transformer.
14422018	A0129	CLASS II IP67 wiring box for ground and wall recessed installation (non submersible above ground use only).
14018420	A0236	H07RN8-F 2x4mm <sup>2</sup> rubber cable supplied and sold in 1 metre units.



# KHA



**KHA** are high performance **IP66 bollards** suitable for indoor and outdoor ground installation providing functional and dramatic effect lighting for residential and urban applications, commercial and corporate complexes, parks and gardens.

KHA bollards are available in **stainless steel** or extruded **aluminium** finished polyester painted matt grey or matt black, supplied in two height options **900mm (KHA 9)** or **550mm (KHA 5)**.

KHA bollards are suitable for a variety of light sources and optics providing high performance with zero upward light pollution, combining functional lighting and engineering with contemporary **aesthetics** making KHA suitable for the most prestigious projects.

- Die cast **aluminium** ground fixing **base**.
- **Body and top cover** available in aluminium or AISI 316 **stainless steel** for marine applications
- **Tecnopolymer** wiring connection box, complete with automatic **isolating switch**, which interrupts supply on opening fitting to provide extra safety.
- High purity aluminium reflector
- Impact resistant UV stabilised clear **polycarbonate** lamp cover.
- IP68 breather mounted in gear compartment.
- **Anti-ageing** silicone gaskets.
- **Stainless steel** external screws.



**81** **96** **04** KHA 5 5 /... = H 55 cm

<b>05150281</b>	<b>05210896</b>	5 /AL	36		G12	35W	CDM-T/HCI-T
<b>05150381</b>	<b>05210996</b>	5 /AL	71		G12	70W	CDM-T/HCI-T
<b>05150681</b>	<b>05211296</b>	5 /AL	42		Gx24q-3	26-32W	DULUX D-E/PLC-4P
					Gx24q-4	42W	DULUX T-E/PLT-4P
	<b>05151404</b>	5 /Inox	36		G12	35W	CDM-T/HCI-T
	<b>05151504</b>	5 /Inox	71		G12	70W	CDM-T/HCI-T
	<b>05151804</b>	5 /Inox	42		Gx24q-3	26-32W	DULUX D-E/PLC-4P
					Gx24q-4	42W	DULUX T-E/PLT-4P

- Electronic transformer 220-240V/12V, 50/60Hz.



**81** **96** **04** KHA 9 9 /... = H 90 cm

<b>05152081</b>	<b>05211396</b>	9 /AL	36		G12	35W	CDM-T/HCI-T
<b>05152181</b>	<b>05211496</b>	9 /AL	71		G12	70W	CDM-T/HCI-T
• <b>05152481</b>	<b>05211796</b>	9 /AL	42		Gx24q-3	26-32W	DULUX D-E/PLC-4P
					Gx24q-4	42W	DULUX T-E/PLT-4P
	<b>05153204</b>	9 /Inox	36		G12	35W	CDM-T/HCI-T
	<b>05153304</b>	9 /Inox	71		G12	70W	CDM-T/HCI-T
•	<b>05153604</b>	9 /Inox	42		Gx24q-3	26-32W	DULUX D-E/PLC-4P
					Gx24q-4	42W	DULUX T-E/PLT-4P

- Electronic transformer 220-240V/12V, 50/60Hz.

				<b>IK 10 24J</b>						<b>CE</b>		
<b>CLASS I</b>		<b>81</b> <b>96</b>	<b>04</b>	<b>IP 66</b>						<b>MT</b>  max 70W	<b>FSQ</b>  26W	<b>FSM</b>  42W
<b>KHA 9</b>  900 Ø155	<b>KHA 5</b>  550 Ø155	 Ø108 3xØ9 3xM8					 PGx13,5 Ø6-Ø12 H05RN-F 3G2,5 3x2,5mm <sup>2</sup>					

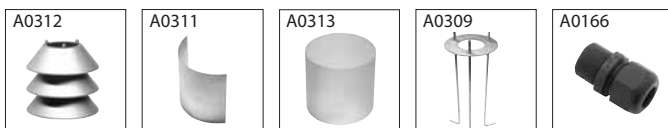
KHA 36 and KHA 71, for 35 and 70W Metal Halide lamps, with indirect light distribution, entirely kept under the horizon line, providing for a pleasant and charming visual effect, very comfortable and not glaring no light pollution towards the sky.



KHA 42 for compact fluorescent lamps, KHA 52 and KHA 72 for high pressure sodium vapours lamps, have direct light distribution, spread at 360°. They are therefore mostly suitable for indoor use or outdoor use in protected areas. Accessory A0312 (antidazzle barrier) is available for installation in open external areas where it is necessary to get downward light emission.



**ACCESSORIES**



14049820	A0312	Internal anti-glare louvre provides controlled light distribution below horizontal, suitable for KHA 42. Not possible for use in combination with A0313 accessory.
14049720	A0311	Internal aluminium cowl limits horizontal light output to 200°.
14049920	A0313	Internal frosted glass sleeve fits inside the clear polycarbonate lamp cover to give a diffused light distribution, suitable for KHA 42. Not possible for use in combination with A0312 accessory.
14049320	A0309	Concrete mounting adaptor with stainless steel plate and galvanised steel rods.
14002384	A0166	PG 13.5 anti-tearing cable gland for through wiring connection.



# KHAslim



**KHAslim** lean profile bollards available in stainless steel or extruded aluminium as follows:

**Khaslim MT**; suitable for 20W CDM-TM metal halide lamps, full cut-off zero upward light pollution, ground mounted. Available range: 20W CDM-TM (310mm, 950mm or 2200mm height)

**KHA-Slim FLUO**; suitable for compact fluorescent lamps, 360° light emission, ground mounted.

Available range; 10W TC-D (350mm height), 55/80w TC-L (2500mm height).

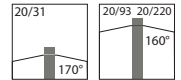
**KHAWall**; wall mounted version, 360° wall washing radiated light. Available range: 25/40W G9 base mains voltage tungsten halogen.

- Body and top cover in AISI 316 stainless steel or aluminium polyester powder coated, black or grey sanded finished.
- UV stabilised high-tech techno polymer impact resistant lamp cover (PC-HT).
- High purity aluminium reflectors provide comfortable low glare light control and avoid reflection back onto lamp to improve its longevity.
- Techno polymer gear housing.
- Models with 220cm and 250cm height are complete with fast and simple PA66 IP68 plug for electrical connection, suitable to take up to 3x2,5mm<sup>2</sup> cables Ø9-14mm.
- Models with 31/35cm and 93cm height have a polyamide connection box provided with M16x1.5 anti tearing IP68 cable gland, for Ø5-10mm cables.
- 220-240V, 50/60Hz supply electronic control gear.
- Anti-ageing silicone rubber gaskets.
- Stainless steel external screw fixings.



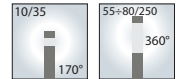
81	96	04	KHAslim MT	20W - CDM-Tm	H (cm)
05192681	05192596		20/31	PGJ5 20W	31
05192981	05192896		20/93	PGJ5 20W	93
05193281	05193196		▲ 20/220	PGJ5 20W	220
		05192704	20/31	PGJ5 20W	31
		05193004	20/93	PGJ5 20W	93
		05193304	▲ 20/220	PGJ5 20W	220

▲ Versions for 2200mm heights are supplied without fixing base. Ground mounting accessories A0373 and A0370 are available to order.



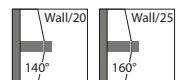
81	96	04	KHAslim FLUO	10-55/80W Dulux-De	H (cm)
05192081	05191996		10/35	G24q-1 10W	35
05194181	05194096		55-80/250	2G11 55-80W	250
		05192104	10/35	G24q-1 10W	35
		▲ 05194204	55-80/250	2G11 55-80W	250

▲ Versions for 2500mm heights are supplied without fixing base. Ground mounting accessories A0373 and A0370 are available to order.



81	96	04	KHAWall	20W-MT / 25W-HSGST	H (cm)
		• 01036127	25	G9 25W	15
• 01036081	01035996		25	G9 25W	15
		• • 03003827	25	PGJ5 20W	15
• • 03003781	03003696		25	PGJ5 20W	15

- Mains voltage tungsten halogen version for max. 250V, 50/60Hz supply (Class II).
- Class I remote gear versions are supplied with electronic control gear box and 3m cable for connection to fitting. The remote gear box should be installed in a suitable location at a maximum distance of 3m from the fitting.

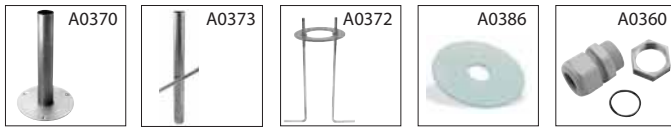




CLASS II		81	04	IP 66												MT	HSGST	FSQ	FSD
		20W														25W	10W	55÷80W	

 Ø90	Models	L (cm)	Kg	 2xØ7 Ø54	SLIM H 31-35	SLIM H 93÷250	Wall	OK	OK	NO																
	<table border="1"> <tr><td>20/31</td><td>31</td><td>1,8</td></tr> <tr><td>20/93</td><td>93</td><td>4,1</td></tr> <tr><td>20/220</td><td>220</td><td>8,6</td></tr> <tr><td>10/35</td><td>35</td><td>2,0</td></tr> <tr><td>55/250</td><td>250</td><td>9,4</td></tr> <tr><td>80/250</td><td>250</td><td>9,4</td></tr> </table>	20/31	31		1,8	20/93	93	4,1	20/220	220	8,6	10/35	35	2,0	55/250	250	9,4	80/250	250	9,4			M16x1,5 Ø5÷Ø10 H07RN-F 2x2,5 4x2,5mm <sup>2</sup>	Ø9÷Ø14 H07RN-F 2x2,5 3x2,5mm <sup>2</sup>	Ø7÷Ø10 Hal = 4x2,5mm <sup>2</sup> MT = 3x2,5mm <sup>2</sup>	
20/31	31	1,8																								
20/93	93	4,1																								
20/220	220	8,6																								
10/35	35	2,0																								
55/250	250	9,4																								
80/250	250	9,4																								

**ACCESSORIES**



14071120	A0370	AlSi 316 stainless steel floor installation base (suitable only for models 220/250 cm height).
14071220	A0373	Hot dipped galvanised fixing base for recessing into concrete (suitable only for models 220/250 cm height).
14071320	A0372	Galvanized steel rods with AlSi 304 plate. Floor recessed anchorage unit (only for models 93cm height).
14073220	A0386	"Soft" glass for mounting inside the PC lamp cover provides a more diffused light emission.
14066020	A0360	M16x1.5 anti-tearing cable gland for through-wiring.



**KHAslim H = 31 - 35 - 93cm**

Codes for models with 31cm to 93cm height are inclusive of a die cast aluminium floor fixing base which remains hidden within the fitting.



**KHAslim H = 220 - 250cm**

Codes for models with 220cm to 250cm height do not include the fixing base, which must be ordered separately and is available in two versions:

- 14071220 – A0373: Hot dipped galvanised fixing base (requires a 400mm recess into concrete) remains hidden within the fitting.
- 14071120 – A0370: Stainless steel floor installation base, complete with fixing accessories.





# HEDO



**HEDO pole top luminaires** suitable for gardens, parks, residential, public area, path / walkways and car parking lighting. Die cast aluminium housing available in quartz grey or stainless steel.

Main features:

- Energy efficient luminaire providing high performance and efficacy with good uniformity and zero upward light pollution.
- Aesthetic design luminaire with fast retrofit, onto existing pole installations, replacing old inefficient light polluting fittings.

- Die cast aluminium pole head with galvanised steel expandable / retractable anchoring device.
- Die cast aluminium housing finished quartz grey (96), matt black (81) or AISI 316 stainless steel sheet bonded for Inox versions (04).
- U.V. stabilised clear polycarbonate diffuser
- High purity aluminium polished and anodised reflector
- Electronic ballasts class A2, 220-240V, 50/60Hz
- Automatic isolating terminal interrupts supply when cover is opened to provide added safety.
- Anti-ageing silicone rubber gaskets.
- Stainless steel external screw fixings.

## ENERGY SAVING / FLEXIBILITY

HEDO utilise high efficiency light sources up to 83 Lm/W and energy efficient class A2 electronic control gear.

Hedo is suitable for use with a combination of one, two or three T5 circular fluorescent lamps; 22W for inner circle, 40W or 55W for middle circle, and 60W for outer circle. The combination of lamps provides a power consumption of between 22W to 137W and a light flux of 1800 to 11000 lumens. The possibility of circuit switching combinations of lamps at different times provides options for further energy savings.



## LIGHTING POLLUTION

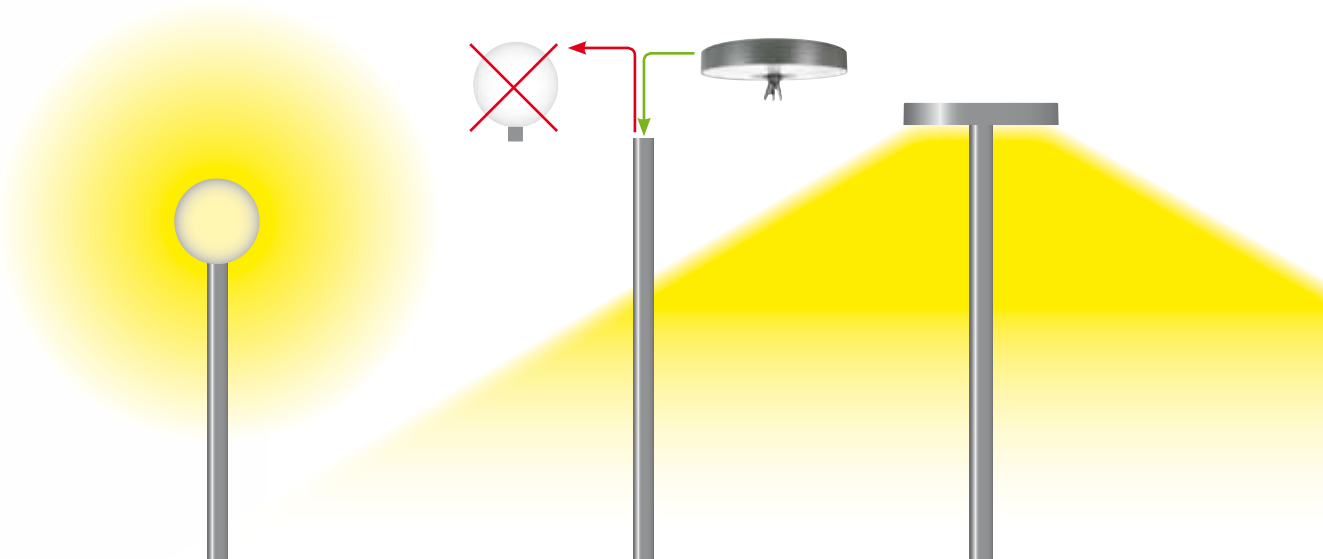
HEDO full cut-off optic is designed to comply with regulations in areas sensitive to upward light pollution.

Broad distribution ( $I_{max} / 2 = 2 \times 68^\circ$ ) with good uniformity provides an efficient spacing for area lighting.

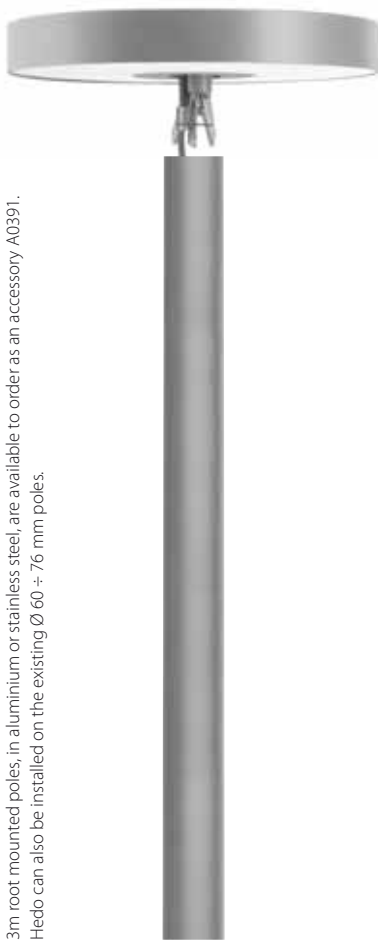
The clear polycarbonate diffuser with internal prisms obscures the lamp from direct view whilst providing high light transmission and visual comfort.

## RETROFIT

HEDO can quickly and easily be installed as a convenient retrofit replacement, to old inefficient upward light polluting luminaires (e.g. spheres), for use on existing poles.



						<b>IK 09</b> 17J							
<b>CLASS II</b>		<b>81</b> 96	<b>04</b>	<b>IP 65</b>									



3m root mounted poles, in aluminium or stainless steel, are available to order as an accessory A0391. Hedo can also be installed on the existing Ø 60 ÷ 76 mm poles.

<b>81</b>	<b>96</b>	<b>04</b>	<b>HEDO</b>		
<b>05194681</b>	<b>05194996</b>		/AL		2Gx13 55WFC/TL5-C
	<b>05195204</b>		/Inox		2Gx13 55WFC/TL5-C



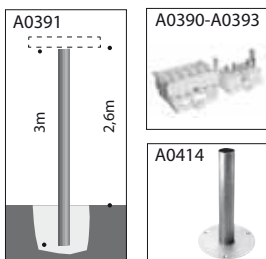
<b>81</b>	<b>96</b>	<b>04</b>	<b>HEDO</b>		
<b>05194781</b>	<b>05195096</b>		/AL		2Gx13 55+60W FC/TL5-C
	<b>05195304</b>		/Inox		2Gx13 55+60W FC/TL5-C



<b>81</b>	<b>96</b>	<b>04</b>	<b>HEDO</b>		
<b>05194881</b>	<b>05195196</b>		/AL		2Gx13 22+55+60W FC/TL5-C
	<b>05195404</b>		/Inox		2Gx13 22+55+60W FC/TL5-C



#### ACCESSORIES



14074981	A0391	81	Ø76mm x H 3000mm (2700mm above ground) root mounting poles in aluminium finished black (81)
14075096	A0391	96	or quartz grey (96) and stainless steel (04).
14075104	A0391	04	
14083120	A0414	04	AlSi 316 stainless steel floor installation base.
14074820	A0390		5 poles 2.5 mm <sup>2</sup> automatic isolating terminal suitable for separate lamp circuit switching.
14076320	A0393		Supplement for factory fitted 4 pole automatic isolating terminal.

# ESPERIA HID/BI



**ESPERIA HID/BI** are fittings complete with integral control gear for discharge lamps up to a **max 400W**, manufactured from **AISI 316L** corrosion resistant stainless steel. Suitable for use in chemically aggressive harsh ambient conditions and corrosive atmospheres e.g. tunnel lighting, galvanic treatment plants, mines, marine and coastal applications etc. To satisfy a variety of lighting applications **ESPERIA HID** floodlights are available with a range of reflectors; **symmetrical**, **extra wide beam symmetrical**, **asymmetrical** **Imax 40°, 45° and 55°** and **street lighting**.

Polycarbonate cover versions, suitable for food industries, are being developed.

- **AISI 316** stainless steel body and **adjustable** bracket
- Reflectors in **high purity** 99.85% aluminium anodised and polished.
- 5mm **toughened** safety glass (IK 10 – 24Joule).
- **Anti-ageing** foam silicone gasket
- **Stainless steel** glass cover clips.
- Lampholder **fast release bayonet** enclosure manufactured complete with **anti-vacuum** IP68 breathing device.
- **Quick** and easy electrical connection by means of IP66 plug & socket for Ø9-14mm cable.
- **Stainless steel** external screws.

## INDUSTRIAL LIGHTING and Special Application



04	Esperia HID / BI - S		Symmetrical reflector
05231304	/S 100 CR		E40 100W NAV-T / SON-T / CDO - TT
05231404	/S 150 CR		E40 150W NAV-T / SON-T / CDO - TT
05231504	/S 252 CR		E40 250W NAV-T / SON-T / HQI-T/D
05230004	/S 402 CR		E40 400W NAV-T / SON-T / HQI-BT/D



04	Esperia HID / BI - SSD		Extra wide beam symmetrical reflector
05232404	/SSD 100 CR		E40 100W NAV-T / SON-T / CDO - TT
05232504	/SSD 150 CR		E40 150W NAV-T / SON-T / CDO - TT
05232604	/SSD 252 CR		E40 250W NAV-T / SON-T / HQI-T/D
05232704	/SSD 402 CR		E40 400W NAV-T / SON-T / HQI-BT/D



04	Esperia HID / BI - A40		Asymmetrical reflector Imax = 40°
05231604	/A40 100 CR		E40 100W NAV-T / SON-T / CDO - TT
05231704	/A40 150 CR		E40 150W NAV-T / SON-T / CDO - TT
05231804	/A40 252 CR		E40 250W NAV-T / SON-T / HQI-T/D
05231904	/A40 402 CR		E40 400W NAV-T / SON-T / HQI-BT/D



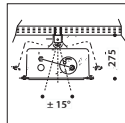
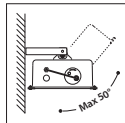
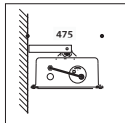
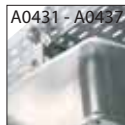
04	Esperia HID / BI - A55		Asymmetrical reflector Imax = 55°
05232004	/A55 100 CR		E40 100W NAV-T / SON-T / CDO - TT
05232104	/A55 150 CR		E40 150W NAV-T / SON-T / CDO - TT
05232204	/A55 252 CR		E40 250W NAV-T / SON-T / HQI-T/D
05232304	/A55 402 CR		E40 400W NAV-T / SON-T / HQI-BT/D

				IK 10 24J					max 12,5kg				
CLASS I		04		IP 65								ST 400W	MT Max 400W



04		Esperia HID / BI - SR			Roadway reflector		
05232804	/SR	100	CR		E40	100W	NAV-T / SON-T / CDO - TT
05232904	/SR	150	CR		E40	150W	NAV-T / SON-T / CDO - TT
05233004	/SR	252	CR		E40	250W	NAV-T / SON-T / HQI-T/D

#### ACCESSORIES



14087004	A0433	Supplement for wall long arm mounting bracket to be ordered together with fitting for factory fitted option.
14086804	A0431 (Legrand F31 200x75)	AISI 316L stainless steel fast fixing system suitable for installation on fittings on Legrand 200x75mm cable tray. Other options available on request.
14088004	A0437 (Femi CZ3 100x75)	AISI 316L stainless steel fast fixing system suitable for installation on fittings on Femi CZ3 100x75mm cable tray. Other options available on request.

# ESPERIA HID/RM



**ESPERIA HID / RM** are a range of fittings suitable for discharge lamps up to a **max 600W**, manufactured from **AISI 316L** corrosion resistant stainless steel. Suitable for use in chemically aggressive harsh ambient conditions and corrosive atmospheres e.g. tunnel lighting, galvanic treatment plants, mines, marine and coastal applications etc. Fittings require **remote control** gear box to be ordered as a separate item along with fitting.

Control gear boxes should be installed at a max distance of 1.5M from fitting.

ESPERIA HID fittings are available with a range of reflectors; **symmetrical**, **extra wide beam symmetrical**, **asymmetrical** **Imax 40°** and **55°** and **street lighting**, to satisfy a variety of applications. Fittings are supplied complete with 1.5M H07RN-F2x1.5 cable.

Polycarbonate cover versions, suitable for food industries, are under development.



- AISI 316 stainless steel body and adjustable bracket.
- Reflectors in **high purity** aluminium anodised and polished.
- 5mm **toughened** safety glass (IK 10 – 24Joule).
- **Anti-ageing** foam silicone gaskets
- Stainless steel glass cover clips.
- Lampholder **fast release bayonet** enclosure manufactured from V0-UL94/ 850°C technopolymer. Complete with **anti-vacuum** IP68 breathing device.
- M20x1.5 cable gland for Ø10-14mm cables.
- **Stainless steel** external screws.

Control gear boxes to be ordered as a separate item along with fitting.



Control gear boxes should be installed at a max distance of 1.5m from fitting.

## INDUSTRIAL LIGHTING and Special Application





04		Esperia HID / RM - S		Symmetrical reflector	
01038704	/ S	100 / 150		E40	100W NAV-T / SON-T / CDO - TT
				E40	150W NAV-T / SON-T / CDO - TT
01038404	/ S	250 / 600		E40	250W NAV-T / SON-T / HQI-T/D
				E40	400W NAV-T / SON-T / HQI-BT/D
				E40	600W NAV-T Super / SON-T Plus





04		Esperia HID / RM - SSD		Extra wide beam symmetrical reflector	
01039204	/ SSD	100 / 150		E40	100W NAV-T / SON-T / CDO - TT
				E40	150W NAV-T / SON-T / CDO - TT
01039304	/ SSD	250 / 600		E40	250W NAV-T / SON-T / HQI-T/D
				E40	400W NAV-T / SON-T / HQI-BT/D
				E40	600W NAV-T Super / SON-T Plus



04		Esperia HID / RM - A45		Asymmetrical reflector Imax = 45°	
01038804	/ A45	100 / 150		E40	100W NAV-T / SON-T / CDO - TT
				E40	150W NAV-T / SON-T / CDO - TT
01038904	/ A45	250 / 600		E40	250W NAV-T / SON-T / HQI-T/D
				E40	400W NAV-T / SON-T / HQI-BT/D
				E40	600W NAV-T Super / SON-T Plus



04		Esperia HID / RM - A55		Asymmetrical reflector Imax = 55°	
01039004	/ A55	100 / 150		E40	100W NAV-T / SON-T / CDO - TT
				E40	150W NAV-T / SON-T / CDO - TT
01039104	/ A55	250 / 600		E40	250W NAV-T / SON-T / HQI-T/D
				E40	400W NAV-T / SON-T / HQI-BT/D
				E40	600W NAV-T Super / SON-T Plus



				IK 10 24J		max 7,0kg		
CLASS II		04	IP 65				ST Max 600W	MT Max 600W



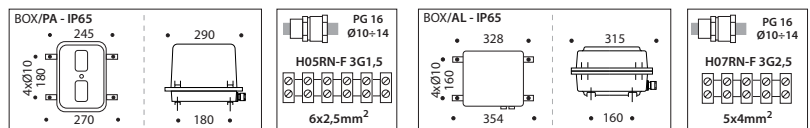
04	Esperia HID / RM - SR	Roadway reflector
01039404	/ SR 100 / 150	E40 100W NAV-T / SON-T / CDO - TT E40 150W NAV-T / SON-T / CDO - TT
01039504	/ SR 250 / 600	E40 250W NAV-T / SON-T / HQI-T/D E40 400W NAV-T / SON-T / HQI-BT/D E40 600W NAV-T Super / SON-T Plus

Control gear boxes to be ordered as a separate item along with Esperia HID/RM. Control gear boxes should be installed at a max distance of 1.5m from fitting.



94	Control gear boxes	
• 14087494	Box / PA 100 CR 94	100W/230V NAV-T / SON-T / CDO - TT
• 14087594	Box / PA 150 CR 94	150W/230V NAV-T / SON-T / CDO - TT
• 14415013	Box / PA 252 CR 94	250W/230V NAV-T/SON-T/HQI-T/D
• 14414013	Box / PA 402 CR 94	400W/230V NAV-T/SON-T/HQI-BT/D
• 14088894	Box / PA 600 CR 94	600W / 9,5÷10,3A NAV-T Super / SON-T Plus
•• 14087694	Box / AL 100 CR 94	100W/230V NAV-T / SON-T / CDO - TT
•• 14087794	Box / AL 150 CR 94	150W/230V NAV-T / SON-T / CDO - TT
•• 14087894	Box / AL 252 CR 94	250W/230V NAV-T/SON-T/HQI-T/D
•• 14088994	Box / AL 402 CR 94	400W/230V NAV-T/SON-T/HQI-BT/D
•• 14089094	Box / AL 600 CR 94	600W / 9,5÷10,3A NAV-T Super / SON-T Plus
••• 14086320	A0430 / 100 CR 94	100W/230V NAV-T / SON-T / CDO - TT
••• 14086420	A0430 / 150 CR 94	150W/230V NAV-T / SON-T / CDO - TT
••• 14086520	A0430 / 252 CR 94	250W/230V NAV-T/SON-T/HQI-T/D
••• 14086620	A0430 / 402 CR 94	400W/230V NAV-T/SON-T/HQI-BT/D
••• 14086720	A0430 / 600 CR 94	600W / 9,5÷10,3A NAV-T Super / SON-T Plus

- IP65 control gear box in aluminium base finished painted grey with polyamide cover.
- IP65 control gear box in aluminium finished painted grey.
- IP66 - Class II, V0-UL94-850°C technopolymer box for use with RM fittings.



#### ACCESSORIES



Other accessories available on page 93.

A0430 - IP65 / Classe II			
	A	B	H
	100W	238	122 140
	400W	238	122 140
	600W	310	122 140

14087904	A0436 (Legrand F31 - 200x75)	AISI 316L stainless steel fast fixing system suitable for suspended installation of Box/PA and Box/AL on Legrand F31 200x75mm or Femi CZ - 105x75mm cable tray. Other options available on request.
14088204	A0439 (Femi CZ3 - 100x75)	
14086904	A0432 (Legrand F31 - 200x75)	AISI 316L stainless steel fast fixing system suitable for suspended installation of Box A0430 on Legrand F31 200x75mm or Femi CZ - 105x75mm cable tray. Other options available on request.
14088104	A0438 (Femi CZ3 - 100x75)	
14087320	A0435	Supplement for fast connection plug to be ordered together with fitting for factory fitted option (on fitting cable). Provides connection between fitting and control gear box A0430.

# ESPERIA



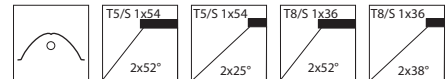
 INDUSTRIAL LIGHTING and Special Application

**ESPERIA** IP65 stainless steel corrosion resistant, moisture and dust proof fitting, developed for T5 (28W/35W FH/HE and 49W/54W/80W FQ/HO) and T8 (36W/58W) linear fluorescent lamps. Suitable for use in chemically aggressive and corrosive atmospheres e.g. road / rail tunnels, chemical production plants, oil industries, marine / coastal environments, galvanic treatment plants, livestock / abattoir industry, vegetable oil and food production. ESPERIA are high performance fittings for use in very demanding installations.

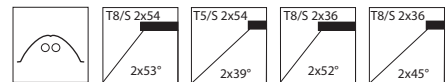
- Body in AISI 304 or in AISI 316L stainless steel.
- High purity anodised specular aluminium reflectors available as symmetrical for single, twin and three lamp versions and asymmetrical for single and twin lamp only.
- Toughened safety glass cover (V) or polycarbonate (PC). Hinges down for easy maintenance.
- Silicone rubber anti-ageing gasket.
- Stainless steel hinged spring clips.
- PG16 polyamide cable gland IP68 for Ø10-14mm cables.
- IP66 anti-vacuum breathing device.
- 220-240V, 50/60Hz electronic ballasts positioned to allow maximum heat dissipation and longevity in high ambient temperatures. For operations in ambient temperatures -20° to +50°C specific fittings are recommended. (Please contact our technical department for further information).



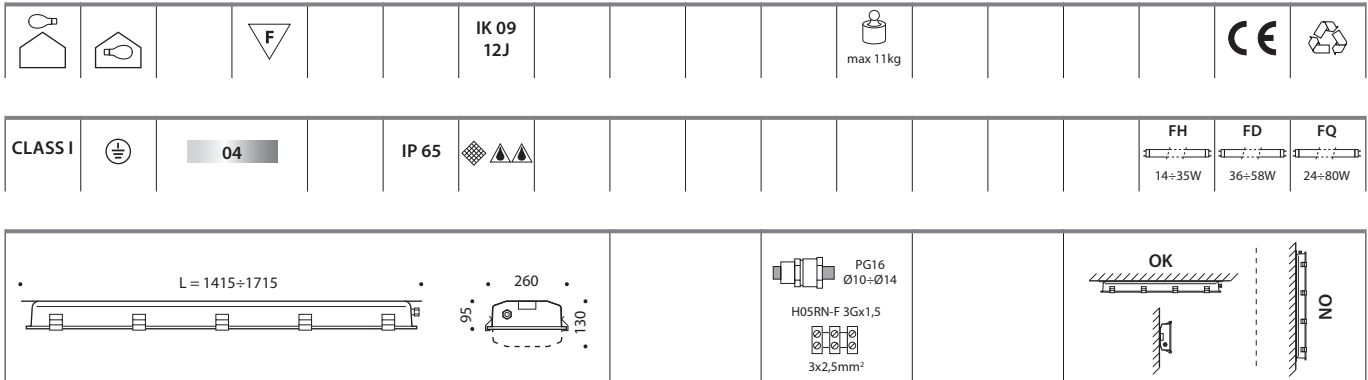
/Glass	/ PC	/ S 1x.. - ETRC		Symmetrical reflector for single lamp	L mm	
05171104		T5/S 128 ETRC	T5 Ø16mm	G5 28W LUMILUX FH/MASTER T5 HE	1415	
05171204		T5/S 135 ETRC		G5 35W LUMILUX FH/MASTER T5 HE	1715	
	05202904	T5/S 135 ETRC			1715	
05174404		T5/S 149 ETRC		G5 49W LUMILUX FQ/MASTER T5 HO	1715	
	05203004	T5/S 149 ETRC			1715	
05171704		T5/S 154 ETRC		G5 54W LUMILUX FQ/MASTER T5 HO	1415	
05171804		T5/S 180 ETRC		G5 80W LUMILUX FQ/MASTER T5 HO	1715	
	05203104	T5/S 180 ETRC			1715	
05200504		T8/S 136 ETRC		T8 Ø26mm	G13 36W LUMILUX / TL-D	1415
05200604		T8/S 158 ETRC			G13 58W LUMILUX / TL-D	1715
	05207404	T8/S 158 ETRC			1715	



/Glass	/ PC	/ S 2x.. - ETRC		Symmetrical reflector for twin lamps	L mm	
05171304		T5/S 228 ETRC	T5 Ø16mm	G5 28W LUMILUX FH/MASTER T5 HE	1415	
05171404		T5/S 235 ETRC		G5 35W LUMILUX FH/MASTER T5 HE	1715	
	05203204	T5/S 235 ETRC			1715	
05174504		T5/S 249 ETRC		G5 49W LUMILUX FQ/MASTER T5 HO	1715	
	05203304	T5/S 249 ETRC			1715	
05171904		T5/S 254 ETRC		G5 54W LUMILUX FQ/MASTER T5 HO	1415	
05172004		T5/S 280 ETRC		G5 80W LUMILUX FQ/MASTER T5 HO	1715	
	05203404	T5/S 280 ETRC			1715	
05200704		T8/S 236 ETRC		T8 Ø26mm	G13 36W LUMILUX / TL-D	1415
05200804		T8/S 258 ETRC			G13 58W LUMILUX / TL-D	1715
	05207504	T8/S 258 ETRC		1715		



/Glass	/ PC	/ S 3x.. - ETRC		Symmetrical reflector for twin lamps	L mm	
05171504		T5/S 328 ETRC	T5 Ø16mm	G5 28W LUMILUX FH/MASTER T5 HE	1415	
05171604		T5/S 335 ETRC		G5 35W LUMILUX FH/MASTER T5 HE	1715	
	05203504	T5/S 335 ETRC			1715	
05174604		T5/S 349 ETRC		G5 49W LUMILUX FQ/MASTER T5 HO	1715	
	05203604	T5/S 349 ETRC			1715	
05172104		T5/S 354 ETRC		G5 54W LUMILUX FQ/MASTER T5 HO	1415	
05172204		T5/S 380 ETRC		G5 80W LUMILUX FQ/MASTER T5 HO	1715	
	05203704	T5/S 380 ETRC			1715	
05200904		T8/S 336 ETRC		T8 Ø26mm	G13 36W LUMILUX / TL-D	1415
05201004		T8/S 358 ETRC			G13 58W LUMILUX / TL-D	1715
	05207604	T8/S 358 ETRC			1715	



/ Glass	/ PC	/ A 1x.. - ETRC	Symmetrical reflector for single lamp	L mm
05172304		T5/A 128 ETRC	G5 28W LUMILUX FH/MASTER TL5 HE	1415
05172404		T5/A 135 ETRC	G5 35W LUMILUX FH/MASTER TL5 HE	1715
	05203804	T5/A 135 ETRC		1715
05174704		T5/A 149 ETRC	G5 49W LUMILUX FQ/MASTER TL5 HO	1715
	05203904	T5/A 149 ETRC		1715
05172704		T5/A 154 ETRC	G5 54W LUMILUX FQ/MASTER TL5 HO	1415
05172804		T5/A 180 ETRC	G5 80W LUMILUX FQ/MASTER TL5 HO	1715
	05204004	T5/A 180 ETRC		1715
05201104		T8/A 136 ETRC	G13 36W LUMILUX /TL-D	1415
05201204		T8/A 158 ETRC	G13 58W LUMILUX /TL-D	1715
	05207704	T8/A 158 ETRC		1715



/ Glass	/ PC	/ A 2x.. - ETRC	Asymmetrical reflector for twin lamps	L mm
05172504		T5/A 228 ETRC	G5 28W LUMILUX FH/MASTER TL5 HE	1415
05172604		T5/A 235 ETRC	G5 35W LUMILUX FH/MASTER TL5 HE	1715
	05204104	T5/A 235 ETRC		1715
05174804		T5/A 249 ETRC	G5 49W LUMILUX FQ/MASTER TL5 HO	1715
	05204204	T5/A 249 ETRC		1715
05172904		T5/A 254 ETRC	G5 54W LUMILUX FQ/MASTER TL5 HO	1415
05173004		T5/A 280 ETRC	G5 80W LUMILUX FQ/MASTER TL5 HO	1715
	05204304	T5/A 280 ETRC		1715

ESPERIA body manufactured in AISI 304 stainless steel as standard or AISI 316 L, available on request, for more demanding conditions such as tunnels or marine environments where greater corrosion resistance is required.

ACCESSORIES



14070020	A0365/28-54-36W	Fast fit IP65 plug and socket accessory kit.
14072720	A0365/35-49-80-58W	Not possible for use in combination with A0366/36 and /58 (T8), through wiring accessory.
14070120	A0366/304 28-54W	Supplement for factory fitted through wiring complete with internal cable and terminal blocks (AISI 304 stainless steel).
14070220	A0366/304 35-49-80W	A0366/36 and /58 (T8) not possible for use in combination with A0365 plug and socket accessory.
14075620	A0366/304 36W	
14075920	A0366/304 58W	
14074220	A0366/316L 28-54W	Supplement for factory fitted through wiring complete with internal cable and terminal blocks (AISI 316 stainless steel).
14074420	A0366/316L 35-49-80W	A0366/36 and /58 (T8) not possible for use in combination with A0365 plug and socket accessory.
14075720	A0366/316L 36W	
14076020	A0366/316L 58W	
• 14070320	A0367/28-54W	Supplement for T5/T8 single and twin lamp emergency version factory fitted 1hr maintained (other options available on request).
• 14070420	A0367/35-49-80W	Not available for 3 lamp versions.
• 14073020	A0367/36W	
• 14073120	A0367/58W	
14069820	A0364/303	AISI 303 stainless steel cable gland for Ø10-14mm cables
14069920	A0364/316	AISI 316 stainless steel cable gland for Ø10-14mm cables.
14070720	A0368	Pair of AISI 304 stainless steel mounting brackets.
14071020	A0369	Pair of AISI 304 stainless adjustable mounting brackets.

• Accessories not suitable with A0365.

# LF4











**LF4** extruded aluminium **robust** and corrosion **resistant** fluorescent **fittings**, suitable for indoor and outdoor installations, developed for **T5** or **T8** linear fluorescent **lamps**. Ends manufactured in V0-UL94 **self-extinguishing** glow wire resistance tested to 850°C. Options available include **through wiring** for T5 lamps, **polycarbonate** covers, dimmable ballasts, **special voltage** / frequencies and mounting accessories.

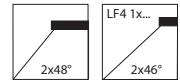
- Body in extruded anodized **aluminium** with V0-UL94 (850°C) technopolymer ends.
- Reflectors in high purity aluminium anodised and polished.
- **Toughened** safety glass hinged to the body.
- **Silicone** gaskets.
- Extruded aluminium cover fixing clips with stainless steel springs.
- **A2 stainless steel** externals screws.
- Supplied complete with two AISI 316 stainless steel **quick fit surface mounting** brackets. Optional mounting accessories include A0076 pair of sliding adjustable heavy duty surface mounting brackets or A0077 heavy duty sliding adjustable and pivoting surface mounted bracket.









## INDUSTRIAL LIGHTING and Special Application



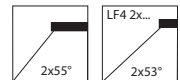
11		LF4 T8			Single lamp	L mm
05673025	118	CR			G13 1x18W LUMILUX/TL-D	785
05674025	136	CR			G13 1x36W LUMILUX/TL-D	1395
05675025	158	CR			G13 1x58W LUMILUX/TL-D	1695
• 05769025	118	ETRC			G13 1x18W LUMILUX/TL-D	785
• 05770025	136	ETRC			G13 1x36W LUMILUX/TL-D	1395
• 05771025	158	ETRC			G13 1x58W LUMILUX/TL-D	1695
* 03000911	EM 136	CRF			G13 1x36W LUMILUX/TL-D	1395
* 03001011	EM 158	CRF			G13 1x58W LUMILUX/TL-D	1695

- Electronic high frequency ballast (non dimmable). Specials with dimmable ballasts or low temperature versions down to -40° are available on request.
- \* Emergency version - one hour integral maintained, nickel cadmium cells. Other versions available on request.



11		LF4 T8			Twin lamp	L mm
05677025	218	CR			G13 2x18W LUMILUX/TL-D	785
05761025	236	CR			G13 2x36W LUMILUX/TL-D	1395
05762025	258	CR			G13 2x58W LUMILUX/TL-D	1695
• 05772025	218	ETRC			G13 2x18W LUMILUX/TL-D	785
• 05773025	236	ETRC			G13 2x36W LUMILUX/TL-D	1395
• 05774025	258	ETRC			G13 2x58W LUMILUX/TL-D	1695
* 03001111	EM 236	CRF			G13 2x36W LUMILUX/TL-D	1395
* 03001211	EM 258	CRF			G13 2x58W LUMILUX/TL-D	1695

- Electronic high frequency ballast (non dimmable). Ta 0°-50°C. Specials with dimmable ballasts or low temperature versions down to -40° are available on request.
- \* Emergency version – integral one hour maintained, nickel cadmium cells. Other versions available on request.



						IK 08 6J		max 8,5kg					
CLASS I		11		IP 66							FH 14+35W	FQ 24+80W	FD 18+58W



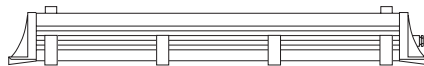
11 LF4 T5		Single lamp	L mm
05129911	114 ETRC	G5 1x14W LUMILUX FH-/MASTER TL5 HE	785
05130011	128 ETRC	G5 1x28W LUMILUX FH-/MASTER TL5 HE	1395
05130111	135 ETRC	G5 1x35W LUMILUX FH-/MASTER TL5 HE	1695
05130211	124 ETRC	G5 1x24W LUMILUX FQ/MASTER TL5 HO	785
05130311	149 ETRC	G5 1x49W LUMILUX FQ/MASTER TL5 HO	1695
05130411	154 ETRC	G5 1x54W LUMILUX FQ/MASTER TL5 HO	1395
05130511	180 ETRC	G5 1x80W LUMILUX FQ/MASTER TL5 HO	1695

Ø16mm T5



11 LF4 T5		Twin lamp	L mm
05130611	214 ETRC	G5 2x14W LUMILUX FH-/MASTER TL5 HE	785
05130711	228 ETRC	G5 2x28W LUMILUX FH-/MASTER TL5 HE	1395
05130811	235 ETRC	G5 2x35W LUMILUX FH-/MASTER TL5 HE	1695
05130911	224 ETRC	G5 2x24W LUMILUX FQ/MASTER TL5 HO	785
05131011	249 ETRC	G5 2x49W LUMILUX FQ/MASTER TL5 HO	1695
05131111	254 ETRC	G5 2x54W LUMILUX FQ/MASTER TL5 HO	1395
05131211	280 ETRC	G5 2x80W LUMILUX FQ/MASTER TL5 HO	1695

Ø16mm T5



LF4 T5 ETRC FH/HE and FQ/HO versions are complete with electronic high frequency ballast (non dimmable). Specials with dimmable ballasts, low temperature version to -25°C and through wiring connection are available on request. See following page.





**INDUSTRIAL LIGHTING and Special Application**



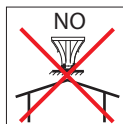
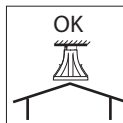
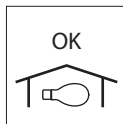
11	LF4/C T5	Through wiring version	L mm
05131311	/C 114 ETRC		G5 1x14W LUMILUX FH/MASTER TL5 HE 785
05131411	/C 128 ETRC		G5 1x28W LUMILUX FH/MASTER TL5 HE 1395
05131511	/C 135 ETRC		G5 1x35W LUMILUX FH/MASTER TL5 HE 1695
05131611	/C 124 ETRC		G5 1x24W LUMILUX FQ/MASTER TL5 HO 785
05131711	/C 149 ETRC		G5 1x49W LUMILUX FQ/MASTER TL5 HO 1695
05131811	/C 154 ETRC		G5 1x54W LUMILUX FQ/MASTER TL5 HO 1395
05131911	/C 180 ETRC		G5 1x80W LUMILUX FQ/MASTER TL5 HO 1695

11	LF4/C T5	Through wiring version	L mm
05132011	/C 214 ETRC		G5 2x14W LUMILUX FH/MASTER TL5 HE 785
05132111	/C 228 ETRC		G5 2x28W LUMILUX FH/MASTER TL5 HE 1395
05132211	/C 235 ETRC		G5 2x35W LUMILUX FH/MASTER TL5 HE 1695
05132311	/C 224 ETRC		G5 2x24W LUMILUX FQ/MASTER TL5 HO 785
05132411	/C 249 ETRC		G5 2x49W LUMILUX FQ/MASTER TL5 HO 1695
05132511	/C 254 ETRC		G5 2x54W LUMILUX FQ/MASTER TL5 HO 1395
05132611	/C 280 ETRC		G5 2x80W LUMILUX FQ/MASTER TL5 HO 1695

LF4/C T5 differ from standard LF4 T5 versions as they are factory fitted complete with internal cable 5x1.5mm<sup>2</sup>, two terminal blocks at either end and two cable glands, for through wiring installation.

**LF4/PC (Polycarbonate cover IP 65)**

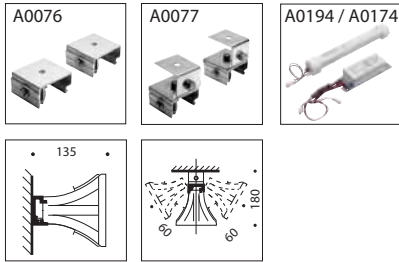
All LF4 fittings are available with UV stabilized clear polycarbonate IP65 cover, on request, as an alternative to the standard glass cover. The polycarbonate cover is ideal for food industry applications or installations where glass breakage may occur. To order LF4 with polycarbonate cover accessory A0289 - PC, the appropriate accessory number corresponding with the fitting, should be ordered as a separate item along with the fitting. See table below.



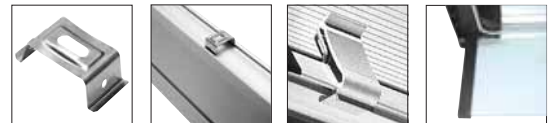
14044320	A0289/18	05673025	LF4 T8	118	CR	05677025	LF4	T8	218	
		05769025	LF4 T8	118	ETRC	05772025	LF4	T8	218 ETRC	
14044420	A0289/36	05674025	LF4 T8	136	CR	05761025	LF4	T8	236 CR	
		05770025	LF4 T8	136	ETRC	05773025	LF4	T8	236 ETRC	
		03000911	LF4 T8	EM	136	CRF	03001111	LF4	T8	EM 236 CRF
14044520	A0289/58	05675025	LF4 T8	158	CR	05762025	LF4	T8	258 CR	
		05771025	LF4 T8	158	ETRC	05774025	LF4	T8	258 ETRC	
		03001011	LF4 T8	EM	158	CRF	03001211	LF4	T8	EM 258 CRF
		05129911	LF4 T5	114	ETRC	05130611	LF4	T5	214 ETRC	
14046420	A0289/14-24	05130211	LF4 T5	124	ETRC	05130911	LF4	T5	224 ETRC	
		05130011	LF4 T5	128	ETRC	05130711	LF4	T5	228 ETRC	
14046520	A0289/28-54	05130411	LF4 T5	154	ETRC	05131111	LF4	T5	254 ETRC	
		05130111	LF4 T5	135	ETRC	05130811	LF4	T5	235 ETRC	
		05130311	LF4 T5	149	ETRC	05131011	LF4	T5	249 ETRC	
14046620	A0289/35-49-80	05130511	LF4 T5	180	ETRC	05131211	LF4	T5	280 ETRC	

						<b>IK 09 11J</b>									
<b>CLASS I</b>		<b>11</b>		<b>IP 65</b>									<b>FH</b> 14+35W	<b>FQ</b> 24+80W	<b>FD</b> 36+58W

**ACCESSORIES**



14296005	A0076	Pair of sliding adjustable heavy duty surface mounting brackets as an optional alternative to standard brackets.
14297005	A0077	Pair of sliding adjustable and pivoting heavy duty surface mounting brackets as an optional alternative to standard brackets.
14007620	A0194/4Ah-3.6V (T8-36W/T5-28W)	In addition to the emergency fittings, other single lamp emergency options are available for LF4 (except T8/118-218 and T5/114-214-124-224 versions) with 1hr maintained, self contained and nickel cadmium batteries. Other options available on request.
14295005	A0074/4Ah-6V (T8-58W/T5-35-49-54W)	
14014920	A0218/4h-2x3.6V (T5-80W)	



# LF8 Flu



**LF8 Flu** is an adaptable range of high performance IP65 fittings, developed for linear fluorescent or HID lamps, manufactured in extruded aluminium with toughened glass covers, suitable for a variety of indoor and outdoor applications. Available in the following versions:

- **LF8-FLU**; suitable for **T8** and **T5** linear fluorescent with **symmetrical** and **asymmetrical** reflectors.
- **LF8-HB**; suitable for ST-MT 100-400W HID lamps with adaptable **symmetrical** reflectors and options for integral emergency compact fluorescent lamp.

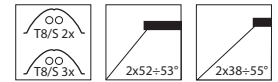
Suitable for a wide range of installations **up to 10m** mounting heights. E.g. Factories, warehouses, storage / racking aisle, indoor sports halls and tunnel lighting.

## INDUSTRIAL LIGHTING and Special Application



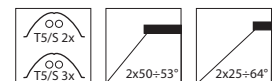
11 LF8 FLU T8/S - ETRC			Symmetrical reflector	L mm
05044511	FLU T8/S 236	ETRC	G13 2x36W LUMILUX/TL-D	1408
05044611	FLU T8/S 258	ETRC	G13 2x58W LUMILUX/TL-D	1708
05044811	FLU T8/S 336	ETRC	G13 3x36W LUMILUX/TL-D	1408
05044911	FLU T8/S 358	ETRC	G13 3x58W LUMILUX/TL-D	1708

Ø26mm T8



11 LF8 FLU T5/S - ETRC			Symmetrical reflector	L mm
05138811	FLU T5/S 249	ETRC	G5 2x49W LUMILUX FQ/TL-5	1648
05045711	FLU T5/S 254	ETRC	G5 2x54W LUMILUX FQ/TL-5	1348
05045811	FLU T5/S 280	ETRC	G5 2x80W LUMILUX FQ/TL-5	1648
05138911	FLU T5/S 349	ETRC	G5 3x49W LUMILUX FQ/TL-5	1648
05046011	FLU T5/S 354	ETRC	G5 3x54W LUMILUX FQ/TL-5	1348
05046111	FLU T5/S 380	ETRC	G5 3x80W LUMILUX FQ/TL-5	1648

Ø16mm T5





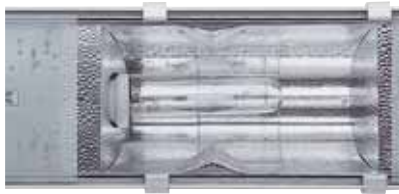


# LF8 HB








**LF8 HB** designed for use with metal halide and high pressure sodium HID lamps for a variety of indoor and outdoor applications e.g. factory and warehouse lighting, sports hall lighting and general area lighting. **LF8 HB** can be used as an alternative to the traditional high bay fitting offering similar performances in a shallow depth fitting. Other options for voltage / frequency, and auxiliary lamp facility are available on request.

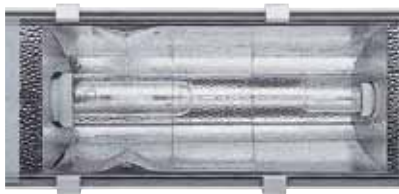
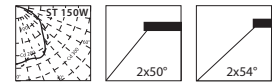
 **INDUSTRIAL LIGHTING and Special Application**





## 11 LF8 HB /S - CR

							L mm
05047611	HB/S 100	CR		E40	100W	NAV-T/SON-T	798
05047711	HB/S 150	CR		E40	150W	NAV-T/SON-T	798
05047811	HB/S 252	CR		E40	250W	NAV-T/SON-T/HQI-T/D	798
05042211	HB/S 402	CR		E40	400W	NAV-T/SON-T/HQI-BT/D	798
• 05085111	HB/S 2x252	CR		E40	2x250W	NAV-T/SON-T/HQI-T/D	1348

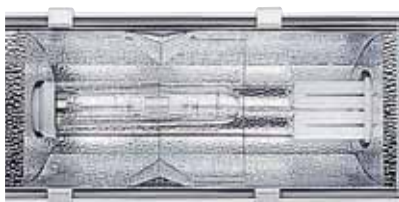
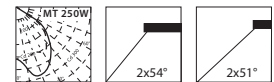
• Other twin lamp options available on request.





## 11 LF8 HB /S - CO CR

				Auxiliary lamp version		L mm	
03000711	HB/S CO 252	CR		E40	250W	NAV-T/SON-T/HQI-T/D	1016
03000811	HB/S CO 402	CR		E40	400W	NAV-T/SON-T/HQI-BT/D	1016

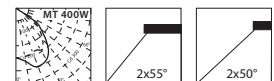
LF8 HB-CO fittings complete with auxiliary lamp facility (max. 250W tungsten halogen E27, lamp not included) provides instant light during run up of the discharge lamp until it reaches near full output at which point the internal discharge light sensor switches off the auxiliary tungsten halogen lamp source.



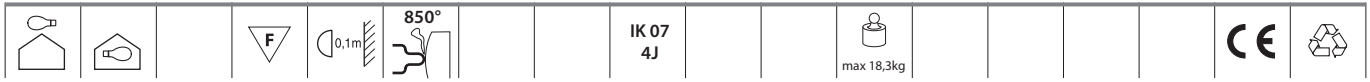
## 11 LF8 HB /S - EM CR

				Emergency lamp version		L mm	
03000311	HB/S EM 252	CR		E40	250W	NAV-T/SON-T/HQI-T/D	1016
03000411	HB/S EM 402	CR		E40	400W	NAV-T/SON-T/HQI-BT/D	1016

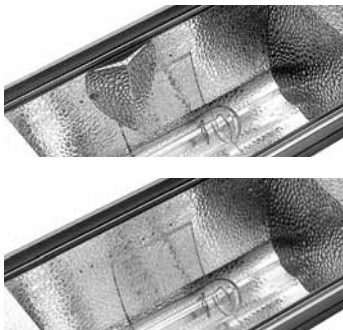
LF8 HB-EM fittings complete with self contained, non-maintained emergency gear, module and 4Ah-3.6V batteries, for DULUX F/18W-2G10 lamp 1hr 30% BLF (Ballast Lumen Factor).



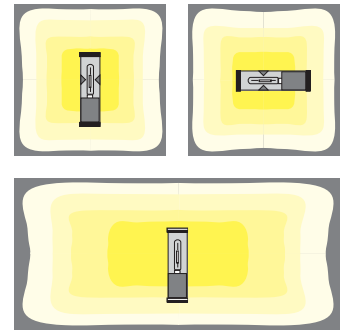




CLASS I		11	IP 65															ST Max 400W	MT Max 400W
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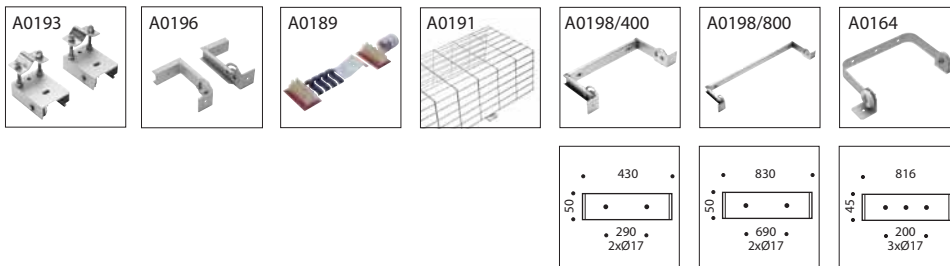


The high performance reflectors are supplied with two 'V' shaped side reflector providing a square light distribution in any orientation of the fitting.



Removal of the two 'V' Shaped side reflectors changes the light distribution to rectangular through the transverse plane. Consideration should be given to the orientation of fitting and its application.

**ACCESSORIES**



14007411	A0193	Pair of mounting brackets with stainless steel clamps for Ø33-42mm pole / rail installation.
14008194	A0196	Pair of wall / ceiling mounting brackets, allowing fitting to pivot for adjustable positioning, finished aluminium grey.
14009320	A0198/400	400mm AISI 304 stainless steel mounting cradle for LF8 fittings length ≤ to 1016mm.
14009420	A0198/800	800mm AISI 304 stainless steel mounting cradle for LF8 fittings length ≥1348mm.
14002124	A0164	Steel mounting cradle finished aluminium grey for wall / ceiling mounting LF8 fittings, allows fitting to pivot for adjustable positioning, suitable for fittings length ≤800 mm.
14006620	A0189	Through wiring kit comprising: PG16 IP68 anti-tearing cable gland, two 5x10 mm <sup>2</sup> terminal blocks with insulated base and cable guides (cable not supplied).
14054520	A0340	Supplement for factory fitted through wiring comprising: PG16 IP68 anti-tearing cable gland, two 5x10 mm <sup>2</sup> terminal blocks with insulated base, internal cable and cable guides. To be ordered as a separate item in addition to the fitting.
14006802	A0191/9	Protection grid in galvanized steel wire, for ceiling mounting. (For FLU-18W / HB).
14006902	A0191/11	Protection grid in galvanized steel wire, for ceiling mounting. (For HB Em/FLU-T5-39W).
14007002	A0191/14	Protection grid in galvanized steel wire, for ceiling mounting. (For FLU-T8-36W/T5-54W).



IKE is a range of moisture and dust proof IP65 fittings suitable for low to medium mounting height installations e.g. industrial buildings, factories and warehouses, dusty and moist environments, or for exterior use in areas not exposed to severe weather conditions, such as under canopy installations, car ports, subways and multi-storey car parks etc..

- Body in polycarbonate light grey colour, auto extinguishing V2 UL94 and 850°C glow wire test resistant, with injected polyurethane double gasket.
- Cover in clear UV stabilized polycarbonate, auto extinguishing V2 UL94 and 850°C glow wire test resistant, internally prismatic with smooth external surface
- AISI 304 stainless steel fast fit brackets for ceiling / suspended installation.
- Internal reflector pre-painted white anti-oxidising steel.
- Standard mains supply wired 230V / 50Hz, other voltages available on request, with capacitor in parallel  $\cos\phi \geq 0.9$


Available models for dimmable electronic ballast, fuses, other voltage / frequencies are available on request.

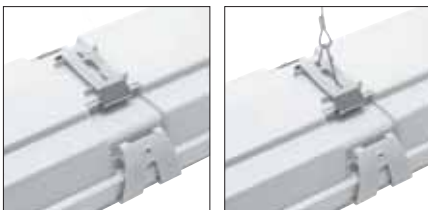
## INDUSTRIAL LIGHTING and Special Application



90 IKE - T8			Single lamp
05220890	1x18	CR	G13 1x18W LUMILUX/TL-D
05220990	1x36	CR	G13 1x36W LUMILUX/TL-D
05221090	1x58	CR	G13 1x58W LUMILUX/TL-D
• 05221490	1x18	ETRC	G13 1x18W LUMILUX/TL-D
• 05221590	1x36	ETRC	G13 1x36W LUMILUX/TL-D
• 05221690	1x58	ETRC	G13 1x58W LUMILUX/TL-D
•• 05227790	II 1x18	ETRC	G13 1x18W LUMILUX/TL-D
•• 05227890	II 1x36	ETRC	G13 1x36W LUMILUX/TL-D
•• 05227990	II 1x58	ETRC	G13 1x58W LUMILUX/TL-D
* • 05222090	EM 1x36	ETRC	G13 1x36W LUMILUX/TL-D
* • 05222190	EM 1x58	ETRC	G13 1x58W LUMILUX/TL-D

90 IKE - T8			Twin lamp
05221190	2x18	CR	G13 2x18W LUMILUX/TL-D
05221290	2x36	CR	G13 2x36W LUMILUX/TL-D
05221390	2x58	CR	G13 2x58W LUMILUX/TL-D
• 05221790	2x18	ETRC	G13 2x18W LUMILUX/TL-D
• 05221890	2x36	ETRC	G13 2x36W LUMILUX/TL-D
• 05221990	2x58	ETRC	G13 2x58W LUMILUX/TL-D
•• 05228090	II 2x18	ETRC	G13 2x18W LUMILUX/TL-D
•• 05228190	II 2x36	ETRC	G13 2x36W LUMILUX/TL-D
•• 05228290	II 2x58	ETRC	G13 2x58W LUMILUX/TL-D
* • 05222290	EM 2x36	ETRC	G13 2x36W LUMILUX/TL-D
* • 05222390	EM 2x58	ETRC	G13 2x58W LUMILUX/TL-D

- Supplied with electronic non dimmable ballast for operating ambient temperatures 0° to + 35° depending on the specific lamp version. Temperature class T6 (CEI-EN 50014:5.1.2).
- CLASS II  fittings. Temperature class T4 (CEI-EN 50014:5.1.2).
- \* Single lamp emergency 1hr, maintained, self contained, complete with electronic non dimmable ballast, emergency module and nickel cadmium batteries.



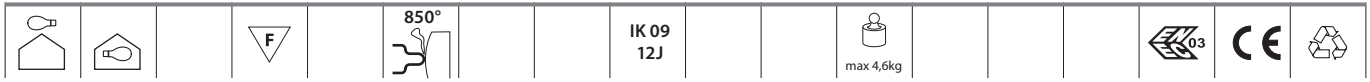
Pair of fast fit strong AISI 304 stainless steel brackets for ceiling mounted or suspended installation.



Technopolymer wide dimension cover clips distribute the loading force for a good seal and ease of operation (6x18W, 10x36W and 12x58W). Clips are lockable using anti-tamper screw accessory (A0412).



Pre-moulded knockout clearance hole in back of body for gland / cable entry.



CLASS I	CLASS II	90	IP 65	FH	FQ	FD
				14=35W	24=80W	18=58W

	Annex	Beam	Beam	Beam	Beam
1/2x18	145	95	330	675	
1/2x36	145	95	800	1285	
1/2x58	145	95	860	1585	
1/2x14	145	95	330	675	
1/2x28	145	95	800	1285	
1/2x35	145	95	860	1585	
1x24	145	95	330	675	
1x54	145	95	800	1285	
1x49-80	145	95	860	1585	



90	IKE - T5	Single lamp
05223090	1x14 ETRC	G5 1x14W LUMILUX/Master TL-5
05223190	1x28 ETRC	G5 1x28W LUMILUX/Master TL-5
05223290	1x35 ETRC	G5 1x35W LUMILUX/Master TL-5
05223990	1x24 ETRC	G5 1x24W LUMILUX/Master TL-5
05224190	1x49 ETRC	G5 1x49W LUMILUX/Master TL-5
05224090	1x54 ETRC	G5 1x54W LUMILUX/Master TL-5
05224290	1x80 ETRC	G5 1x80W LUMILUX/Master TL-5

90	IKE - T5	Twin lamp
05223390	2x14 ETRC	G5 2x14W LUMILUX/Master TL-5
05223490	2x28 ETRC	G5 2x28W LUMILUX/Master TL-5
05223590	2x35 ETRC	G5 2x35W LUMILUX/Master TL-5

Supplied with electronic non dimmable ballast for operating ambient temperatures 0° to +40° depending on the specific lamp version. Temperature class T6 (CEI-EN 50014:5.1.2).

**THROUGH WIRING**

Available upon request complete with two cable glands (5x2.5mm<sup>2</sup>) subject to minimum order quantities and cost supplement. See diagram below.

W	1x 18	1x 36	1x 58	1x 14	1x 24	1x 28	1x 35	1x 49	1x 54	1x 80	2x 18	2x 36	2x 58	2x 14	2x 28	2x 35
	75	50	32	90	78	55	40	27	33	24	44	25	16	62	32	26
<b>D max (m)</b>	60	70	65	70	60	80	80	55	64	50	50	55	50	55	60	60

**ACCESSORIES**



14430995	A0116 / 36-28-54W	Galvanized steel protection grills, to be fixed on ceiling.
14431995	A0116 / 58-35-49-80W	Galvanized steel protection grills, to be fixed on ceiling.
14082920	A0412	Set of 60 anti-tamper stainless steel self-threading screws.

# RF7



**RF7** low bay fitting manufactured in **sheet steel** finished polyester painted light grey suitable for indoor surface mounted or suspended installations; sports halls, factories and warehouses etc.

Fittings are available with or without clear toughened safety glass cover, and are provided with a choice of optics; **symmetrical (S)**, **asymmetrical (A)** and **symmetrical extra wide distribution (SSD)** which is particularly suitable for low mounting heights. All fittings are available with strong galvanized steel **wire guard accessory (A0416 - 20Joules** conforming to ball impact regulations).

- Body in **galvanized** sheet steel finished polyester painted (other colour options available on request for additional supplement).
- Flat **toughened** clear safety glass (IK09) **secured** to body on two technopolymer hinges with **quick release** extruded aluminium cover fixing clips.
- Control gear and lamp holder assembly manufactured in galvanized sheet steel which hinges down for access and can be easily removed for maintenance.
- Reflectors manufactured in high purity **99.85%** aluminium anodized and polished available in **symmetrical (S)** wide distribution or **asymmetrical (A)**.
- Two plugged clearance holes in body end for mains cable supply. 6x4mm<sup>2</sup> terminal positioned for **quick and easy** connection without need to open control gear housing section. **Through wiring** available on request.

 **INDUSTRIAL LIGHTING and Special Application**

### FITTINGS WITHOUT GLASS COVER



**85** RF7 - S

<b>05233585</b>	S / 150	CR
<b>05224685</b>	S / 252	CR
<b>05224785</b>	S / 402	CR
<b>05224885</b>	S / 250	CR
<b>05224985</b>	S / 400	CR



Symmetrical reflector

E40	150W	NAV-T/SON-T / HCI-TT
E40	250W	NAV-T/SON-T / HQI-T/D
E40	400W	NAV-T/SON-T / HQI-BT/D
E40	250W	HPI-T Plus
E40	400W	HPI-T Plus



**85** RF7 - SSD

<b>05233685</b>	SSD / 150	CR
<b>05227385</b>	SSD / 252	CR
<b>05227485</b>	SSD / 402	CR
<b>05227585</b>	SSD / 250	CR
<b>05227685</b>	SSD / 400	CR



Extra wide beam symmetrical reflector

E40	150W	NAV-T/SON-T / HCI-TT
E40	250W	NAV-T/SON-T / HQI-T/D
E40	400W	NAV-T/SON-T / HQI-BT/D
E40	250W	HPI-T Plus
E40	400W	HPI-T Plus



**85** RF7 - A

<b>05233485</b>	A / 150	CR
<b>05225085</b>	A / 252	CR
<b>05225185</b>	A / 402	CR
<b>05225285</b>	A / 250	CR
<b>05225385</b>	A / 400	CR



Asymmetrical reflector

E40	150W	NAV-T/SON-T / HCI-TT
E40	250W	NAV-T/SON-T / HQI-T/D
E40	400W	NAV-T/SON-T / HQI-BT/D
E40	250W	HPI-T Plus
E40	400W	HPI-T Plus

 **Glass cannot be retrofitted to versions without glass.**

						<b>IK 09 10J</b>			max 13,5kg			
<b>CLASS I</b>		<b>85</b>				<b>RF7 IP 20</b>	<b>RF7 / V IP 40</b>				<b>ST</b>  250÷ 400W	<b>MT</b>  250÷ 400W
		635	180	330			195	600	20 (4x)		Ø8,5=Ø14,5 Max H07RN-F 3Gx2,5 6x4mm <sup>2</sup>	

### FITTINGS WITH GLASS COVER



**85** RF7 - S / V - S

Symmetrical reflector

<b>05233885</b>	/V - S / 150	CR		E40	150W	NAV-T/SON-T/HCI-TT
<b>05228485</b>	/V - S / 252	CR		E40	250W	NAV-T/SON-T/HQI-T/D
<b>05228585</b>	/V - S / 402	CR		E40	400W	NAV-T/SON-T/HQI-BT/D
<b>05228685</b>	/V - S / 250	CR		E40	250W	HPI-T Plus
<b>05228785</b>	/V - S / 400	CR		E40	400W	HPI-T Plus



**85** RF7 - / V - SSD

Extra wide beam symmetrical reflector

<b>05233985</b>	/V - SSD / 150	CR		E40	150W	NAV-T/SON-T/HCI-TT
<b>05229285</b>	/V - SSD / 252	CR		E40	250W	NAV-T/SON-T/HQI-T/D
<b>05229385</b>	/V - SSD / 402	CR		E40	400W	NAV-T/SON-T/HQI-BT/D
<b>05229485</b>	/V - SSD / 250	CR		E40	250W	HPI-T Plus
<b>05229585</b>	/V - SSD / 400	CR		E40	400W	HPI-T Plus

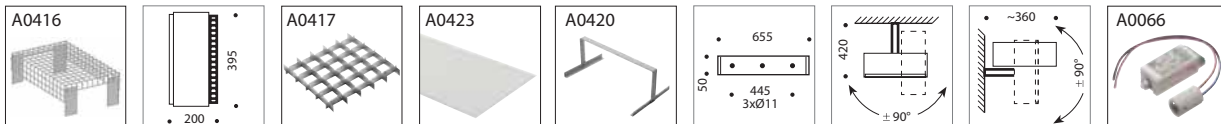


**85** RF7 - / V - A

Asymmetrical reflector

<b>05233785</b>	/V - A / 150	CR		E40	150W	NAV-T/SON-T/HCI-TT
<b>05228885</b>	/V - A / 252	CR		E40	250W	NAV-T/SON-T/HQI-T/D
<b>05228985</b>	/V - A / 402	CR		E40	400W	NAV-T/SON-T/HQI-BT/D
<b>05229085</b>	/V - A / 250	CR		E40	250W	HPI-T Plus
<b>05229185</b>	/V - A / 400	CR		E40	400W	HPI-T Plus

### ACCESSORIES



14083320	A0416		Galvanised steel wire guard (20J) suitable for mounting, on fixing supports, in combination with toughened safety glass.
14083420	A0417		Anti-glare louvre in anodized aluminium suitable for mounting in combination with toughened safety glass. Symmetrical version only, not suitable for use with symmetrical extra wide beam or asymmetrical versions.
14084120	A0423	85	Supplement for factory fitted frosted glass to be ordered as a separate item along with fitting.
14083785	A0420	85	Wall / ceiling mounting bracket finished polyester painted light grey allows fitting to pivot for adjustable positioning.
14249002	A0066		Auxiliary lamp facility complete with B15d lamp holder for tungsten halogen lamp 250W max (lamp not included) provides instant light during run up of the max 250W discharge lamp until it reaches near full output at which point the internal discharge light sensor switches off the auxiliary tungsten halogen lamp source.



# LAMA



**LAMA** range of high bay fittings are available with a variety of lamp options and reflectors / refractors making them ideal for commercial and industrial lighting applications. LAMA comprises three parts; (1) Gear box, (2) reflector / refractor and (3) covers (optional) may be required with certain lamps and versions.

The fitting is available in two versions:

**LAMA Quick** – IP65 complete with fast fit plug and socket. Die cast aluminium body finished. Requires A0120 toughened safety cover glass.

**LAMA 33** - IP23 die cast aluminium body finished.

**LAMA 08 / 43-65** New suspended fitting available in two options: IP43 and IP65. Aluminium fabricated upper body finished polyester with technopolymer base.

## PENDANT



### 94 BOX LAMA Quick

94 BOX LAMA Quick					CLASS I
05158394	<b>05166194</b>	Q/ 401	94	CR	E40 400W *HPI-BUS
05158194	<b>05166294</b>	Q/ 150	94	CR	E40 150W NAV-E / SON
05157094	<b>05166394</b>	Q/ 252	94	CR	E40 250W NAV-E / SON * HQI-E/D * • HPI-BU Plus
05156994	<b>05166494</b>	Q/ 402	94	CR	E40 400W NAV-E / SON * HQI-E/D * • HPI-BU Plus
05156894	<b>05166594</b>	Q/ 250	94	CR	E40 250W * HQI-E N/SI * • HPI-BU Plus
05156794	<b>05166694</b>	Q/ 400	94	CR	E40 400W * HQI-E N/SI * • HPI-BU Plus

**Product codes** in bold indicate versions LAMA Quick complete with auxiliary lamp facility with B15d lamp holder for tungsten halogen lamp (lamp not included) provides instant light during run up of the discharge lamp.



### 94 BOX LAMA 33

94 BOX LAMA 33					CLASS I
05048594	33 / 401	94	CR		E40 400W *HPI-BUS
05048694	33 / 150	94	CR		E40 150W NAV-E / SON
05048794	33 / 252	94	CR		E40 250W NAV-E / SON * HQI-E/D * • HPI-BU Plus
05048894	33 / 402	94	CR		E40 400W NAV-E / SON * HQI-E/D * • HPI-BU Plus
05048994	33 / 250	94	CR		E40 250W * • HPI-BU Plus
05049094	33 / 400	94	CR		E40 400W * • HPI-BU Plus

Lamp with integral ignitor.



### 94 BOX LAMA 08 / 43-65

94 BOX LAMA 08 / 43-65					CLASSE I
<b>IP 43</b>	05236594	<b>05239594</b>	08 - 43 / 150	94 CR	E40 150W NAV-E / SON
	05236694	<b>05239794</b>	08 - 43 / 252	94 CR	E40 250W NAV-E / SON * HQI-E/D * • HPI-BU Plus
	05236294	<b>05239994</b>	08 - 43 / 402	94 CR	E40 400W NAV-E / SON * HQI-E/D * • HPI-BU Plus
	05236794	<b>05239694</b>	08 - 43 / 250	94 CR	E40 250W * • HPI-BU Plus
	05225494	<b>05239894</b>	08 - 43 / 400	94 CR	E40 400W * • HPI-BU Plus
<b>IP 65</b>	05236894	<b>05240094</b>	08 - 65 / 150	94 CR	E40 150W NAV-E / SON
	05236994	<b>05240294</b>	08 - 65 / 252	94 CR	E40 250W NAV-E / SON * HQI-E/D * • HPI-BU Plus
	05237094	<b>05240494</b>	08 - 65 / 402	94 CR	E40 400W NAV-E / SON * HQI-E/D * • HPI-BU Plus
	05237194	<b>05240194</b>	08 - 65 / 250	94 CR	E40 250W * • HPI-BU Plus
	05237294	<b>05240394</b>	08 - 65 / 400	94 CR	E40 400W * • HPI-BU Plus

**Product codes** in bold indicate versions LAMA 08 complete with auxiliary lamp facility with B15d lamp holder for tungsten halogen lamp (lamp not included) provides instant light during run up of the discharge lamp.

	34D 34PR	48D 48I 48PR	41 PMMA	57 PMMA
150W SE	OK	OK	OK	OK
250W SE/ME	OK *	OK *	NO	OK ■
400W SE/ME	NO	OK *	NO	NO

### REFLECTORS / LAMPS COMPATIBILITY

All LAMA fittings are suitable for use with aluminium reflectors and PMMA refractors, see table for recommended options.

Using LAMA Quick with PMMA refractors = IP33.

• HPI-BU PLUS operating with sodium control gear: 250W = 25,500 lumens and 400W = 42,500 lumens.

\* Metal halide lamps unsuitable for use in open fittings require toughened glass cover protection (see accessory A0120).

■ For use with protected lamps only (.../Protected).

						<b>IK 09 15J</b>					
<b>CLASS I</b>	<b>IP 65</b>	<b>94</b>	<b>Box LAMA 33</b>	<b>CLASS I</b>	<b>IP 23</b>	<b>Box LAMA 08-43</b>	<b>CLASS I</b>	<b>IP 43</b>	<b>Box LAMA 08-65</b>	<b>CLASS I</b>	<b>ME/SE</b>  Max 400W
<b>Box LAMA Quick + 48D</b>  max 620 Max Ø500	 300 325 Ø270	 Ø9-Ø14 H05RN-F 3G1 3x2,5mm <sup>2</sup>	<b>Box LAMA 33 + 57/PC</b>  max 665 Max Ø570	 Ø260 315	 PG11 Ø5-Ø10 H05RN-F 3G1 3x2,5mm <sup>2</sup>	<b>Box LAMA 08/43-65 + 48/D</b>  max 600 max Ø480	 Ø280 ~220	 M20x1,5 Ø10-Ø14 H07RN-F 3x1 3x2,5mm <sup>2</sup>			

## RIFLECTORS and REFRACTORS



14440994	A0119/34D	Reflector 34D broad distribution (max 250W).	■
14004710	A0176/34PR	Reflector 34PR faceted for greater visual comfort (max 250W).	■
14441994	A0119/48D	Reflector 48D broad distribution (250 - 400W) for typical installations heights of 8-10m.	■
14053620	A0119/48PR	Reflector 48PR (250-400W) with prismatic surface, gives a diffused and comfortable light emission.	□
14442994	A0119/48I	Reflector 48I narrow distribution (250 - 400W) for typical installations heights of >10m.	■
14004320	A0174/41PMMA	Refractor Ø410mm in methacrylate (PMMA) with aluminium fixing plate painted aluminium grey.	□
14004520	A0175/57PMMA	Refractor Ø570mm in methacrylate (PMMA) with aluminium fixing plate painted aluminium grey.	□

- Minimum order 10pcs. or multiple quantities thereof.
- Minimum order 6pcs. or multiple quantities thereof.
- ▽ Minimum order 5pcs. or multiple quantities thereof.
- ▲ Minimum order 2pcs. or multiple quantities thereof.

## ACCESSORIES



14322994	A0081 / 34D-PR	Galvanized steel wire guard suitable for 34/D-PR.
14321994	A0080 / 48D-PR-I	Galvanized steel wire guard suitable for 48/D-I.
14008820	A0120 / AL-34	Toughened safety glass cover with aluminium clips and nylon safety retainer. Suitable for 34D/PR refractors.
14008920	A0120 / AL-48	Toughened frosted glass cover with aluminium clips and nylon safety retainer. Suitable 48D/I refractors.
14020220	A0120 / AL-34 Soft	Toughened frosted glass cover with aluminium clips and nylon safety retainer. Suitable 34 refractors.
14089794	A0445 / 94 - 48	Toughened glass cover with ring in technopolymer, aluminium cover clips and nylon safety retainer, not suitable for use with acrylic (PMMA) refractors.
14089894	A0445 / 94 - 48 Soft	Toughened glass cover with ring in technopolymer, aluminium cover clips and nylon safety retainer, not suitable for use with acrylic (PMMA) refractors.
14010120	A0199 / 48	Dished polycarbonate cover with black technopolymer fixings. Suitable for food production facilities.
14005420	A0180 / 41PMMA	PMMA refractor covers for A0174/41-PMMA (IP43).
14005620	A0181 / 57PMMA	PMMA refractor covers for A0175/57-PMMA (IP43).
14007920	A0195 / 33	Auxiliary lamp facility with B15d lamp holder for 250 tungsten halogen lamp (lamp not included) provides instant light during run up of the discharge lamp. Factory fitted to be ordered as separate item along with fitting.
14054020	A0338/3,15A-125/150	Fused terminal block to be ordered as separate item along with the fitting. (only for Lama Quick)
14054120	A0338/6,3A-250/251/252	Fused terminal block to be ordered as separate item along with the fitting. (only for Lama Quick)
14054220	A0338/8A-400/401	Fused terminal block to be ordered as separate item along with the fitting. (only for Lama Quick)
14054320	A0338/10A-402	Fused terminal block to be ordered as separate item along with the fitting. (only for Lama Quick)
14054420	A0339 (Box LAMA Quick)	LAMA Quick plug and socket through wiring accessory kit suitable for 3x2.5mm <sup>2</sup> cable. To be ordered as a separate item along with the fitting.
14089220	A0443 (Box Lama 08)	Through wiring facility with M20 x 1.5 anti-tearing, non-stripping cable gland and 5x2.5mm <sup>2</sup> cable. To be ordered together with fitting for factory fitted option.

# ARCHIS 14



PENDANT

**ARCHIS 14** mini version is part of a comprehensive range of ARCHIS (mini, midi and maxi) **suspended pendants**. ARCHIS are manufactured from high quality materials with a **simple clean design** offering a wide range of reflector distributions and styles. Suitable for commercial and retail applications, showrooms, atriums, halls and general area lighting.

ARCHIS comprises three parts; (1) gear / wiring box, (2) reflector/refractors and (3) covers (optional). Each individual part has its own product number which must be ordered together to form a complete fitting.

- Gear / wiring box in aluminium finished
- Aluminium reflectors **smooth or faceted**.
- Refractors linear prismatic PMMA
- **Frosted** diffuser or **clear**.

- Die cast aluminium housing and chassis finished.
  - Wiring terminal block inside aluminium housing with cable gland entry for Ø5 to 8mm flexible cable, 110-240V, 50/60Hz.
  - Supplied complete with 1.5m steel wire suspension cable. Fitting is also suitable to be suspended by M13x1 conduit (not included).
- Aluminium **ceiling** rose accessory A0256.

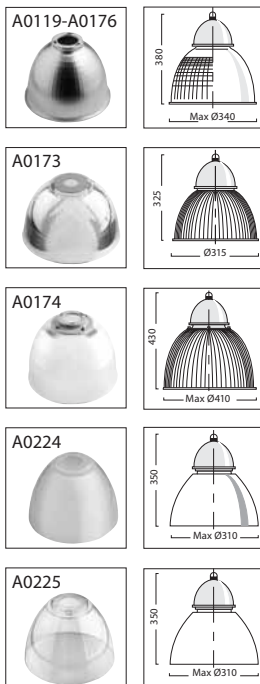


## 94 BOX ARCHIS 14

• <b>01005894</b>	14 E27 94		E27 100W Inc.	<input type="checkbox"/>
			E27 150W Inc.	<input type="checkbox"/>
			E27 160W HWL/ML	<input type="checkbox"/>
			E27 100W HALOLUX-T32	<input type="checkbox"/>
			E27 150W HALOLUX-T32	<input type="checkbox"/>
			E27 23W DULUX-EL / PLE-D	<input type="checkbox"/>
• <b>01005994</b>	14 FLUO 94 C		E27 23W DULUX-EL / PLE-T	<input type="checkbox"/>
			E27 18W PLE-C	<input type="checkbox"/>
			G24d-2 18W DULUX-D / PLE-C	<input type="checkbox"/>

- Mains supply voltage: 110-240V, 50/60Hz.
- Mains supply voltage: 230V 50Hz.

## REFLECTORS - REFRACTORS - DIFFUSERS



<b>14440994</b>	<b>A0119/34D</b>	34D Smooth surface aluminium reflector.	<input type="checkbox"/>
<b>14004710</b>	<b>A0176/34PR</b>	34PR faceted surface aluminium reflector for greater visual comfort.	<input type="checkbox"/>
<b>14004120</b>	<b>A0173/PMMA</b>	Acrylic (PMMA) linear prismatic clear refractor Ø315 and Ø410mm, complete	<input type="checkbox"/>
<b>14004320</b>	<b>A0174/PMMA</b>	with aluminium fixing plate finished.	<input type="checkbox"/>
<b>14016420</b>	<b>A0224</b>	Acrylic diffuser with special microspheres for frosted appearance.	<input type="checkbox"/>
<b>14016520</b>	<b>A0225</b>	Polycarbonate clear diffuser (V2 UL94-850°).	<input type="checkbox"/>

- Minimum order 10 pcs. or multiple thereof.
- Minimum order 6 pcs. or multiple thereof.

						<b>IK 08 6J</b>			max 2,6kg												
<b>CLASS I</b>		<b>94</b>		<b>IP 20</b>					max 160W		max 100W		max 23W		max 150W		23W		max 18W		18W
							M1 3x1 Ø5-Ø8 H05RN-F 3G1 3x2,5mm <sup>2</sup>		IP 20 IP 40		IP 20 IP 54										

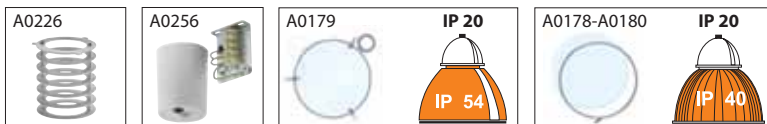
Recommended lamp and reflector / refractor combinations table.

Recommended.

Not recommended.

A0176/34-PR 										
A0119/34D 										
A0173/31PMMA 										
A0174/41PMMA 										
A0224 										
A0225 										

#### ACCESSORIES



14016694	A0226	Aluminium anti-glare louvre finished for A0225 clear polycarbonate diffuser.	<input type="checkbox"/>
14028320	A0256	Ceiling rose finished aluminium grey with galvanized steel support plate and 5x2.5mm <sup>2</sup> terminal block.	<input type="checkbox"/>
14009020	A0179/AL	Toughened clear glass cover with aluminium cover clips suitable for aluminium reflectors 34D-34PR. IP54 lamp chamber.	<input type="checkbox"/>
14020320	A0179/AL Soft (x A0119/34D-A0176/34PR)	Toughened frosted glass cover with aluminium cover clips suitable for aluminium reflectors 34D-34PR. IP54 lamp chamber.	<input type="checkbox"/>
14005120	A0178/PMMA (x A0173/PMMA)	Acrylic cover with stainless steel ring. IP40 lamp chamber.	<input type="checkbox"/>
14005420	A0180/PMMA (x A0174/PMMA)	Acrylic cover with stainless steel ring. IP40 lamp chamber.	<input type="checkbox"/>

- Minimum order 10 pcs. or multiple thereof.
- Minimum order 6 pcs. or multiple thereof.

# ARCHIS 15



 PENDANT

**ARCHIS 15** midi versions are part of a comprehensive range of ARCHIS (mini, midi and maxi) **suspended pendants**. ARCHIS are manufactured from high quality materials with a **simple clean design** offering a wide range of reflector distributions and styles. Suitable for commercial and retail applications, showrooms, atriums, halls and general area lighting.











ARCHIS comprises three parts; (1) gear / wiring box, (2) reflector/refractors and (3) covers (optional). Each individual part has its own product number which must be ordered together to form a complete fitting.

- Gear / wiring box in aluminium finished
- Aluminium reflectors **smooth or faceted**.
- Refractors linear prismatic PMMA
- **Frosted diffuser or clear**.

- Die cast aluminium housing and gear tray finished.
  - Wiring terminal block inside aluminium housing with cable gland entry for Ø5-8mm flexible cable.
  - Supplied complete with 1.5m steel wire suspension cable.
- Aluminium **ceiling** rose accessory A0256.



## 94 BOX ARCHIS 15

• <b>05100494</b>	15/35	94	CR		G12	35W	CDM-T / HCI-T
• <b>05100594</b>	15/70	94	CR		G12	70W	HQI-T / HCI-T / CDM-T
• <b>05100694</b>	15/71	94	CR		E27	70W	CDO-TT/HCI-TT CDO-ET/HCI-EP/HQI-E
• <b>05185694</b>	15/150	94	CR		G12	150W	HQI-T / HCI-T / CDM-T
• <b>05245894</b>	15/150	94	CR		E27	150W	HQI-E
•• <b>05100794</b>	15/35	94	ETRC		G12	35W	CDM-T / HCI-T
•• <b>05100894</b>	15/70	94	ETRC		G12	70W	HQI-T / HCI-T / CDM-T
•• <b>05100994</b>	15/71	94	ETRC		E27	70W	CDO-TT/HCI-TT CDO-ET / HCI-EP/HQI-E
•• <b>05101094</b>	15/42	94	ETRC		Gx24q-3/4	26/42W	DULUX-T/E DULUX-D/E-PL-T
•• <b>05101194</b>	15/57	94	ETRC		Gx24q-5	57W	DULUX-T/E

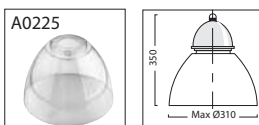
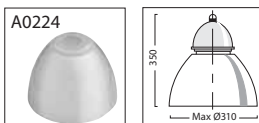
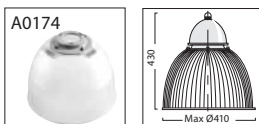
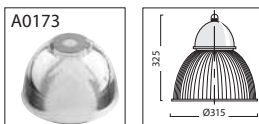
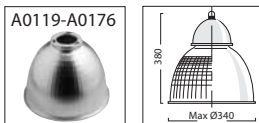
Specials available on request (emergency versions, colours options, and special voltage etc).

- Mains supply voltage: 230V 50Hz.
- Electronic ballast 220 - 240V, 50/60Hz supply.

## REFLECTORS - REFRACTORS - DIFFUSERS

<b>14440994</b>	<b>A0119/34D</b>	34D Smooth surface aluminium reflector.	■
<b>14004710</b>	<b>A0176/34PR</b>	34PR faceted surface aluminium reflector for greater visual comfort.	■
<b>14004120</b>	<b>A0173/PMMA</b>	Acrylic (PMMA) linear prismatic clear refractor Ø315 and Ø410mm, complete with aluminium fixing plate finished.	□
<b>14004320</b>	<b>A0174/PMMA</b>		□
<b>14016420</b>	<b>A0224</b>	Acrylic diffuser with special microspheres for frosted appearance.	□
<b>14016520</b>	<b>A0225</b>	Polycarbonate clear diffuser (V2 UL94-850°).	□

- Minimum order 10 pcs. or multiple thereof.
- Minimum order 6 pcs. or multiple thereof.





							<b>IK 08 6J</b>								
<b>CLASS I</b>		<b>94</b>		<b>IP 20</b>								<b>MT</b>  max 150W	<b>ME</b>  max 70W	<b>MT</b>  max 70W	<b>FSQ</b>  max 57W
Box ARCHIS 15 															

Recommended lamp and reflector / refractor combinations table.

Recommended.

Not recommended.

With toughened glass cover A0120/AL.

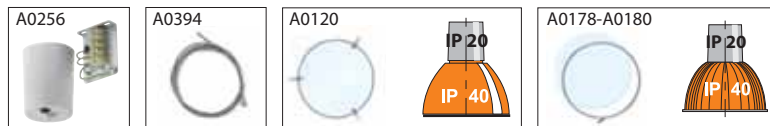
With Acrylic cover A0178 - A0180/PMMA

Electronic ballasts

Metal Halide lamps must be used with a toughened glass cover. (Except +HQI-E max 150W +HCI-EP "open" type protected lamps).

	35W CDM-T HCI-T	35W CDM-T HCI-T	70W HQI-T HCI-T CDM-T	70W HQI-T HCI-T CDM-T	150W HQI-E	150W HQI-T HCI-T CDM-T	70W CDM-TT HCI-TT CDM-ET	70W CDM-TT HCI-TT CDM-ET	70W • HQI-E • HCI-EP	70W • HQI-E • HCI-EP	42W Dulux-T/E Dulux-D/E PL-T	57W Dulux-T/E
A0176/34D												
A0176/34D + A0120/AL ●												
A0119/34D												
A0119/34D + A0120/AL ●												
A0173/31PMMA												
A0173/31PMMA + A0178/PMMA ▲												
A0174/41PMMA												
A0174/41PMMA + A0180/PMMA ▲												
A0224												
A0225												

#### ACCESSORIES



14028320	A0256	Ceiling rose finished aluminium grey with galvanized steel support plate and 5x2,5mm <sup>2</sup> terminal block.	<input type="checkbox"/>
14076620	A0394	4 metre galvanised steel wire suspension cable for ARCHIS 15/16.	<input type="checkbox"/>
14008820	A0120/AL - 34 (x A0119/34D - x A0176/34PR)	Toughened glass cover with aluminium cover clips suitable for aluminium reflectors 34D-34PR. IP40 lamp chamber.	<input type="checkbox"/>
14020220	A0120/AL - 34 Soft (x A0119/34D - x A0176/34PR)	Toughened glass cover with aluminium cover clips suitable for aluminium reflectors 34D-34PR. IP40 lamp chamber.	<input type="checkbox"/>
14005120	A0178/PMMA (x A0173/PMMA)	Acrylic cover with stainless steel ring. IP40 lamp chamber.	<input type="checkbox"/>
14005420	A0180/PMMA (x A0174/PMMA)	Acrylic cover with stainless steel ring. IP40 lamp chamber.	<input type="checkbox"/>

■ Minimum order 10 pcs. or multiple thereof.

□ Minimum order 6 pcs. or multiple thereof.

# ARCHIS 16



 PENDANT

**ARCHIS 16** maxi version is part of a comprehensive range of ARCHIS (mini, midi and maxi) **suspended pendants**. ARCHIS are manufactured from high quality materials with a **simple clean design** offering a wide range of reflector distributions and styles. Suitable for commercial and retail applications, showrooms, atriums, halls and general area lighting.








ARCHIS comprises three parts; (1) gear / wiring box, (2) reflector/refractors and (3) covers (optional). Each individual part has its own product number which must be ordered together to form a complete fitting.

- Gear / wiring box in aluminium finished
- Aluminium reflectors **smooth or faceted**.
- Refractors linear prismatic PMMA
- Frosted diffuser or clear.

- Die cast aluminium housing and gear tray finished.
  - Wiring terminal block inside aluminium housing with cable gland entry for max. Ø11 mm flexible cable.
  - Supplied complete with 1.5m steel wire suspension cable.
- Aluminium **ceiling** rose accessory A0256.



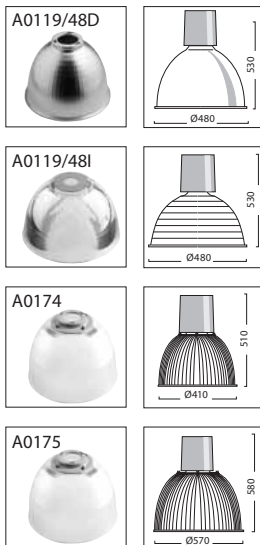
## 94 BOX ARCHIS 16

• <b>05139794</b>	16/150	94	CR		E27	150W	HQI-E
• <b>05139894</b>	16/152	94	CR		E40	150W	NAV-T / NAV-E CDO-TT/CDO-ET
• <b>05139994</b>	16/250	94	CR		E40	250W	HPI-BU
• <b>05140194</b>	16/252	94	CR		E40	250W	NAV-E/HQI-E/D
• <b>05140494</b>	16/402	94	CR		E40	400W	NAV-E/HQI-E/D
•• <b>05140594</b>	16/70	94	ETRC		GX24-q6	70W	DULUX-T/E
•• <b>05140694</b>	16/60÷120	94	ETRC		2G8	60/85/120W	PLH

Auxiliary lamp facility, not ETRC versions (max 250W B15d tungsten halogen lamp - not included). Provides instant light during run up of discharge lamp. Available on request as a factory fitted accessory when ordered with fitting. Specials available on request (emergency versions, colours options, and special voltage etc.).

- Mains supply voltage: 230V 50Hz.
- Electronic ballast 220 - 240V, 50/60Hz supply.

## REFLECTORS - REFRACTORS



<b>14441994 A0119/48D</b>	Broad distribution reflector 48D (250-400W HID) for typical installation heights 8-10m.	■
<b>14442994 A0119/48I</b>	Narrow distribution reflector 48I (250-400W HID) for typical installation heights >10m.	■
<b>14004320 A0174/PMMA</b>	Linear prismatic clear methacrylate refractor.	□
<b>14004520 A0175/PMMA</b>	Downward light distribution with refracted upward light component. Complete with fixing plate finished aluminium grey.	□

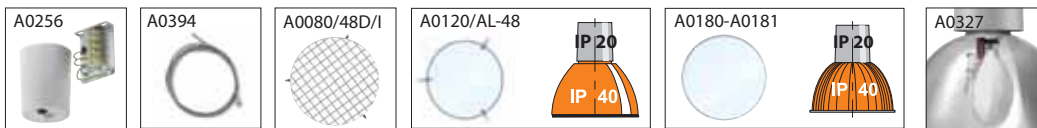
- Minimum order 10 pcs. or multiple thereof.
- Minimum order 6 pcs. or multiple thereof.

					<b>IK 08 8J</b>		max 11kg					
<b>CLASS I</b>		<b>94</b>	<b>IP 20</b>					<b>MT</b>  max 400W	<b>ME</b>  max 400W	<b>ST</b>  max 400W	<b>SE</b>  max 400W	<b>FSQ</b>  max 120W
Box ARCHIS 16  225 Ø200		Box ARCHIS 16 [H Max] Ø Max +A0119 / 48D 530 Ø480 +A0176 / 48I 530 Ø480 +A0174 / PMMA 510 Ø410 +A0175 / PMMA 580 Ø570		 PG13,5 Ø6-Ø12	 H07RN-F 3x1 3x2,5mm <sup>2</sup>							

Recommended.      ● With toughened glass cover A0120/AL.      Metal Halide lamps must be used with a toughened glass cover. (Except •Hqi-E max 150W •Hci-EP "open" type protected lamps).  
 Not recommended.      ▲ With PMMA cover A0180- A0181/PMMA.

A0119/48D 																		
A0119/48D + A0120/AL ●																		
A0119/48I 																		
A0119/48I + A0120/AL ●																		
A0174/41PMMA 																		
A0174/41PMMA + A0180/PMMA ▲																		
A0175/57PMMA 																		
A0175/57PMMA + A0181/PMMA ▲																		

**ACCESSORIES**



14028320	A0256	Ceiling rose finished aluminium grey with galvanized steel support plate and 5x2,5mm <sup>2</sup> terminal block.	<input type="checkbox"/>
14076620	A0394	4 metre galvanised steel wire suspension cable for ARCHIS 15/16.	<input type="checkbox"/>
14321994	A0080/48D-I	Galvanised steel wire guard, which can be used in combination with toughened glass cover. Suitable for A0119/48D-48I only.	<input type="checkbox"/>
14008920	A0120/AL-48	Toughened glass cover with aluminium cover clips and nylon safety retainer. Suitable for A0119/48D-48I only.	<input type="checkbox"/>
14005420	A0180/PMMA (x A0174/41PMMA)	Acrylic (PMMA) cover. IP40 lamp chamber.	<input type="checkbox"/>
14005620	A0181/PMMA (x A0175/57PMMA)	Acrylic (PMMA) cover. IP40 lamp chamber.	<input type="checkbox"/>
14051920	A0327 / 16	Auxiliary lamp facility with B15d lamp holder for 250 tungsten halogen lamp (lamp not included) provides instant light during run up of the discharge lamp. Accessory A0327 to be ordered as separate item along with fitting for factory fitted option. Not available for fluorescent lamp versions.	<input type="checkbox"/>

■ Minimum order 10 pcs. or multiple thereof.      □ Minimum order 6 pcs. or multiple thereof.      ▲ Minimum order 5 pcs. or multiple thereof.

# KYRO 1-2



**PUBLIC LIGHTING**

**KYRO** high performance public area lighting fittings available in two sizes; KYRO 1 and KYRO 2, combine contemporary aesthetics with a highly functional performance to suit a variety of public area lighting applications.

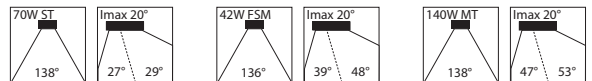
- Light quality: high uniformity distribution and high performance with visual comfort, full cut-off for zero upward light pollution.
- Efficiency: high performance optics provides efficient luminaire spacing with the added benefit of reduction in installation and maintenance costs.
- Harmonised installation
- Flexibility
- Easy fast installation and maintenance.
- Longevity.

- Body and cover in die-cast aluminium finished classified IP65 rating.
- High purity aluminium reflector anodised and polished.
- Toughened safety glass (KYRO 1: IK 09/10J, KYRO 2: IK 08/7J).
- Silicone rubber anti-ageing gaskets.
- Supply: 230V/50Hz  $\cos\phi \geq 0.9$ , other voltages available on request.
- Dual power ballast with light flux regulation control system and photocell sensors are available on demand.
- Polyamide M25 cable gland for Ø9-14mm cables.
- Rubber sealing gaskets to suit various cable sizes are available as a kit of accessories.
- A2 stainless steel external screws.
- Special versions; voltage / frequency, fuses, timed ignitor, photocell, light flux regulation control system etc. available on request.

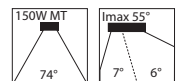


96	KYRO 1		Roadway reflector	
05214496	1 / 52	96 CR		E27 50W NAV-T / SON-T
05214596	1 / 72	96 CR		E27 70W NAV-T / SON-T
05214696	1 / 100	96 CR		E40 100W NAV-T / SON-T / CDO-TT
05214796	1 / 150	96 CR		E40 150W NAV-T / SON-T / CDO-TT
05216196	1 / 70	96 CR		E27 70W NAV-E/SON
05214896	1 / 71	96 CR		E27 70W HQI-E / HQI-E Clear / CDO-ET
05214996	1 / 101	96 CR		E27 100W HQI-E / HQI-E Clear
05215096	1 / 151	96 CR		E27 150W HQI-E / HQI-E Clear
• 05215396	1 / 60	96 ETRC		PGZ12 60W Master CPO - White
• 05215496	1 / 140	96 ETRC		PGZ12 140W Master CPO - White
• 05215196	1 / 42	96 ETRC		GX24q-3 26W Dulux - DE / PLC -4p GX24q-3 32W Dulux - TE / PLT -4p GX24q-4 42W Dulux - TE / PLT -4p
• 05215296	1 / 57	96 ETRC		GX24q-5 57W Dulux - TE / PLT -4p

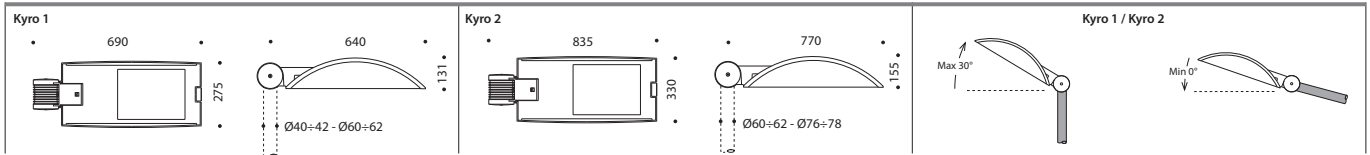
- For lamps with integral ignitor.
- Electronic ballast 220 - 240V, 50/60Hz supply.



96	KYRO 1 / A		Asymmetrical reflector $I_{max} = 54^\circ$	
05236396	1 / 71	96 CR		RX7s 70W HQI-TS / MH-TD / CDM-TD / NAV-TS
05236496	1 / 151	96 CR		RX7s 150W HQI-TS / MH-TD / CDM-TD / NAV-TS

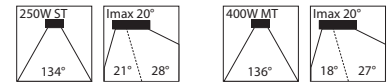


		Kyro 1 IK 09 10J	Kyro 2 IK 08 7J	Kyro 1 0,170m <sup>2</sup> 0,068m <sup>2</sup>	Kyro 2 0,240m <sup>2</sup> 0,095m <sup>2</sup>	Kyro 1 max 6,8kg	Kyro 2 max 12,8kg				
CLASS II		96	IP 65								
						Kyro 1 ST - MT 50÷150W	SE 70W	ME 70÷150W	FSM 26÷57W	MT 60÷140W	Kyro 2 ST - MT 150÷400W



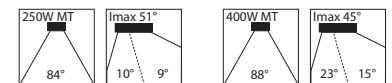
96 KYRO 2 Roadway reflector

05213996	2 / 150	96	CR		E40	150W	NAV-T / SON-T / CDO-TT
05214096	2 / 252	96	CR		E40	250W	NAV-T / SON-T / HQI-T / CDO-TT
05214196	2 / 402	96	CR		E40	400W	NAV-T / SON-T / HQI-BT



96 KYRO 2 / A Asymmetrical reflector Imax = 52°

05237496	2 / A - 151	96	CR		Rx7S	150W	NAV-TS / HQI-TS / MH-TD / CDM-TD
05237596	2 / A - 251	96	CR		Fc2	250W	HQI-TS / MH-TD
05237696	2 / A - 252	96	CR		Fc2	250W	NAV-TS
05237796	2 / A - 402	96	CR		Fc2	400W	NAV-TS / HQI-TS



ACCESSORIES



14025220	A0247 / 70W	Supplement for factory fitted timed ignitor, to be ordered as a separate item along with fitting, according to specific lamp version.
14015020	A0219 / 100÷250W	
14078520	A0403 / 400W	
14077820	A0400	Kit of 10 rubber sealing gaskets for up to 2 no. Ø8mm cables
14077920	A0401	Kit of 10 rubber sealing gasket for 1 no. flat cable 19x5.8mm.
14078120	A0402 / 2A 50-70-100W	Supplement for factory fitted fuse holder + ceramic fuse 10x38mm, to be ordered as a separate item along with fitting, according to specific lamp version.
14078220	A0402 / 4A 150W	
14078320	A0402 / 6A 250W	
14078420	A0402 / 10A 400W	
14078620	A0404	Supplement for factory fitted photocell (250W max. non-adjustable), to be ordered as a separate item along with fitting.



# KYRO 1-2



PUBLIC LIGHTING



14077102 A0395/1

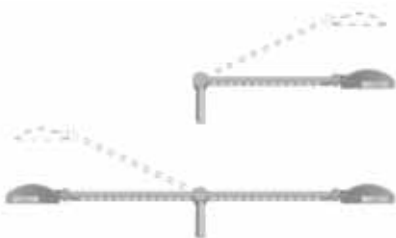
14077202 A0395/2

Single 1200mm or twin (back to back) 2x1200mm extension arms, hot dipped galvanised steel, suitable for installation on Ø60mm pole top.

14088396 A0395/1 96

14088496 A0395/2 96

Single 1200mm or twin (back to back) 2x1200mm extension arms, hot dipped galvanised steel finished, suitable for installation on Ø60mm pole top.



14077396 A0396/1-96

14077496 A0396/2-96

Single 1500mm or twin (back to back) 2x1500mm extension arms, phospho-chromate and cathaphoresis pre-treated steel finished polyester painted. Aluminium pole top mounting joint suitable for Ø60 poles (with sleeve) or Ø76mm poles, available in horizontal or 25° inclined position.



14082096 A0397/1-96

850mm steel extension arm finished complete with adjustable sliding aluminium pole clamp for Ø76-90mm poles.

## MOUNTING ACCESSORIES

KYRO fittings are designed to take standard pole and side entry mounting or can be supplied complete with a variety of arms and wall mounting accessories finished. Other colour options available on request.

Mounting arm options:

- Functional: Outreach arms available up to 2 meters
- Design: Mounting arms offering both function and design in harmony with the fitting.



14077596 A0398-96 (Kyro 1)

14077696 A0399-96 (Kyro 2)

Wall mounting bracket L=310mm (Kyro1) and L=370mm (Kyro2), in phospho-chromate and cathaphoresis pre-treated steel finished polyester painted.



14081902 A0406 / 1

14084202 A0406 / 2

Hot dipped galvanised steel brackets suitable for installing single or twin fittings (back to Back) on Ø80-120mm poles. Complete with fixing rods and nuts, requires poles to be drilled.

14088696 A0406 / 1 96

14088796 A0406 / 2 96

Hot dipped galvanised steel finished matt grey brackets suitable for installing single or twin fittings (back to Back) on Ø80÷120mm poles. Complete with fixing rods and M8 nuts, requires poles to be drilled.



# PAL








**PAL** (Public Area Lighting) a simple clean contemporary design of a classical pendant luminaire offering a functional **street / road lighting fitting** suitable for residential areas, parks, squares and car parks providing full **cut-off** zero upward light pollution. With a comprehensive range of mounting **accessories** PAL is suitable for a variety of installations.

- Die cast aluminium **pole locator 48mm dia.** finished black or light grey.
- Reinforced polyamide housing in black or light grey colour.
- Internal galvanised sheet steel reinforcing plate.
- Aluminium gear tray for **heat dissipation**, hangs down for easy maintenance.
- High purity aluminium full "Cut off" reflector.
- Impact resistant UV stabilised **polycarbonate** cover with moulded clips easily removed by hand, without the need for tools, hangs down for easy maintenance.
- **Long-life** silicone gasket.
- **Stainless steel** external screws.

## PUBLIC LIGHTING

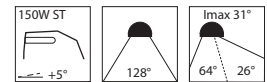


### 90 PAL






<b>05028411</b>	70	90	CR		E27	70W	NAV-E/SON	
<b>05028511</b>	100	90	CR		E40	100W	NAV-T Super/SON-T Plus/CDO-TT	
<b>05085090</b>	150	90	CR		E40	150W	NAV-T/SON-T/CDO-TT	
• <b>05028111</b>	42	90	ETRC		GX24q-4	42W	DULUX T/E	


 Lamps with integral ignitor.

- Electronic ballast 220 - 240V, 50/60Hz supply.

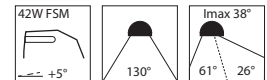


### 80 PAL

<b>05046880</b>	70	80	CR		E27	70W	NAV-E/SON	
<b>05046980</b>	100	80	CR		E40	100W	NAV-T Super/SON-T Plus/CDO-TT	
<b>05084980</b>	150	80	CR		E40	150W	NAV-T/SON-T/CDO-TT	
• <b>05046580</b>	42	80	ETRC		GX24q-4	42W	DULUX T/E	

 Lamps with integral ignitor.

- Electronic ballast 220 - 240V, 50/60Hz supply.



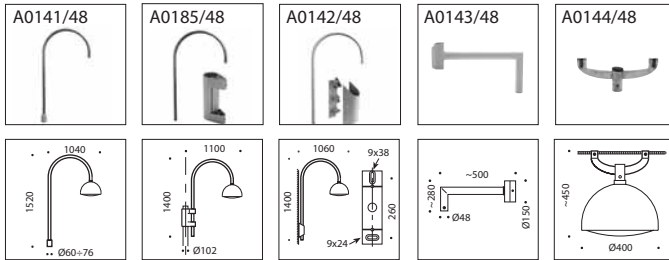
						<b>IK 08 6J</b>							
<b>CLASS II</b>		<b>80</b> <b>90</b>		<b>IP 54</b>							<b>SE</b>  70W	<b>ST</b>  max 150W	<b>FSD</b>  42W
 90° 270 Ø400						 PG 13,5 Ø9-Ø11,5 H07RN-F 2x1,5  2x2,5mm²			 <b>OK</b> Max ± 10°	 <b>NO</b> ±150°			

### INSTALLATION ACCESSORIES

PAL is suitable for a variety of mounting options. Accessories should be selected and ordered as a separate item code along with the PAL product code.



### ACCESSORIES



14462117	A0141/48	U shape tube for direct installation on top of poles Ø60÷76, in galvanized steel.
14019190	A0141/48 90	U shape tube for direct installation on top of poles Ø60÷76, in grey painted galvanized steel.
14003280	A0141/48 80	U shape tube for direct installation on top of poles Ø60÷76, in black painted galvanized steel.
14008011	A0185/48	Accessory for installation of U shaped tube on a cylindrical pole Ø102mm in galvanized steel.
14019390	A0185/48 90	Accessory for installation of U shaped tube on a cylindrical pole Ø102mm in grey painted galvanized steel.
14019280	A0185/48 80	Accessory for installation of U shaped tube on a cylindrical pole Ø102mm in black painted galvanized steel.
14463117	A0142/48 90	Accessory for wall installation and angled mounting, in steel painted in grey.
14006480	A0142/48 80	Accessory for wall installation and angled mounting, in steel painted black.
14464117	A0143/48 90	Arm painted in light grey, for wall installation and angled mounting.
14006580	A0143/48 80	Arm painted in black, for wall installation and angled mounting.
14465117	A0144/48	Suspension bracket in hot-galvanized steel for Ø8 to 12mm wires.



# 5STARS

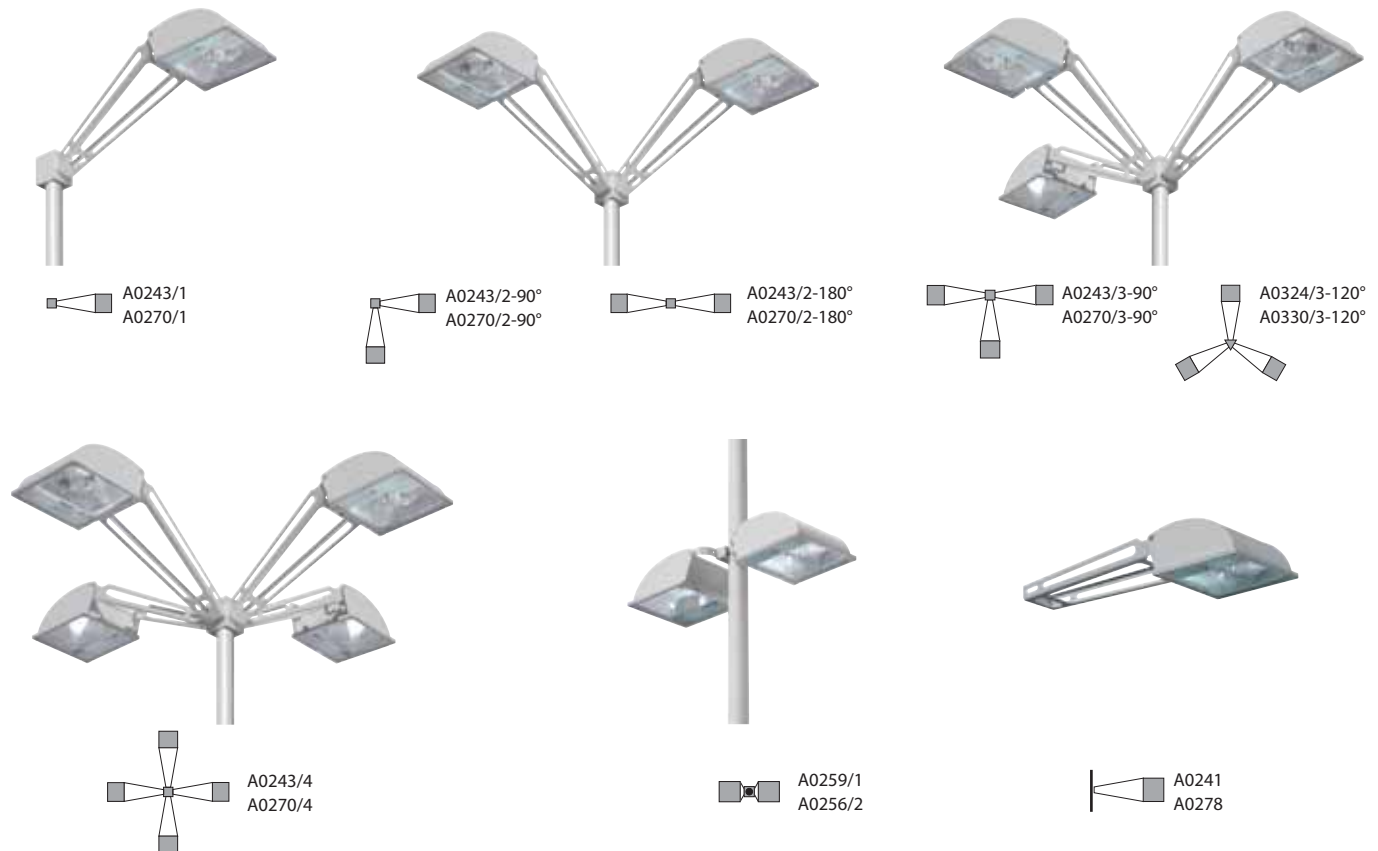


**5STARS** (see page 26) are stylish floodlights ideal for modern aesthetic cityscape lighting for car parks, retail and commercial complexes, public area lighting etc. Featuring the following:

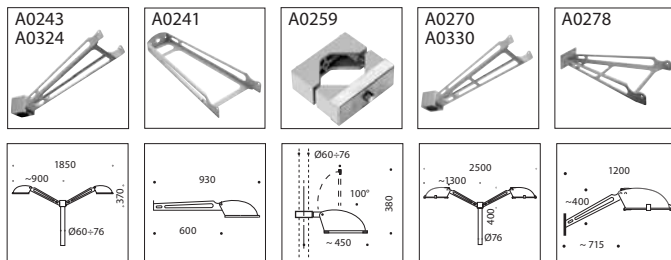
- Contemporary, compact, with simple clean line designs.
- High quality corrosion resistant materials and finishes.
- Extensive range of high performance optics for use with a variety of light sources.

A comprehensive range of mounting accessories and contemporary brackets suitable for 5STARS1-2 and WIN01-02 provide options to suit a variety of installation.

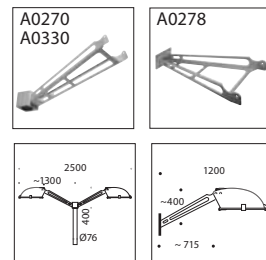
- **A0243 - A0324** - aluminium pole top fitting with steel outreach arm finished available for single, twin, three and four 5Stars1 fittings, for Ø60-76mm poles.
- **A0259** - die cast aluminium sliding pole clamp finished aluminium grey suitable for single or twin 5Stars fitting on Ø60-76mm poles.
- **A0241** - 5Stars1 600mm wall mounting extension arm in steel finished aluminium grey.
- **A0270 - A0330** - aluminium pole top fitting with steel outreach arm finished aluminium grey available for single, twin, three and four 5Stars2 fittings, for Ø60-76mm poles.
- **A0278** - 5Stars2 800mm wall mounting extension arm in steel finished aluminium grey.



## 5STARS 1



## 5STARS 2



## 5STARS 1

14021194	A0243/1
14063894	A0243/2-90°
14021294	A0243/2-180°
14063994	A0243/3-90°
14050194	A0324/3-120°
14021394	A0243/4
14029094	A0259/1
14047194	A0259/2
14020994	A0241

## 5STARS 2

14063594	A0270/1
14045294	A0270/2-90°
14063694	A0270/2-180°
14045394	A0270/3-90°
14052394	A0330/3-120°
14063794	A0270/4
14041494	A0278



# WIN

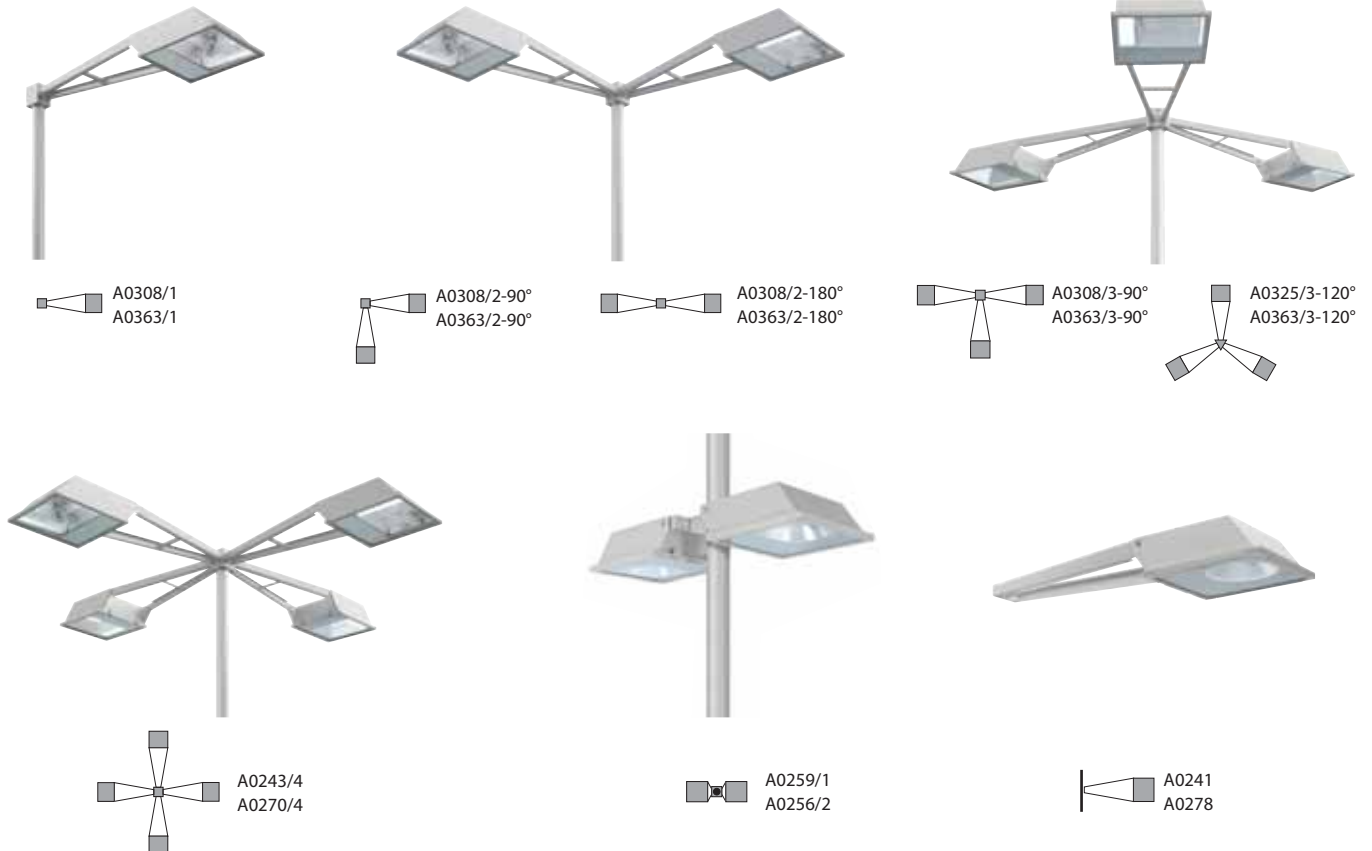


**WIN** (see page 22) range of compact floodlights with a distinctive clean **linear design** and a wide range of **mounting accessories** makes them suitable for a variety of installations providing an ideal and unique solution for contemporary cityscape lighting, commercial / corporate complex area lighting, car parks and retail parks etc.

- **A0308 - A0325** - aluminium pole top fitting with steel outreach arm finished aluminium grey available for single, twin, three and four WIN01 fittings, for  $\text{\O}60\text{-}76\text{mm}$  poles.
- **A0259** - die cast aluminium **sliding pole clamp** finished aluminium grey suitable for single or twin 5Stars fitting on  $\text{\O}60\text{-}76\text{mm}$  poles.

- **A0287** - WIN01 500mm **wall mounting** extension arm in sheet steel finished aluminium grey.
- **A0363** - aluminium pole top fitting with steel outreach arm finished aluminium grey available for twin, three and four WIN02 fittings, for  $\text{\O}76\text{mm}$  poles.
- **A0307** - WIN 02 **wall mounting** extension arm in heavy gauge steel finished aluminium grey.

## PUBLIC LIGHTING



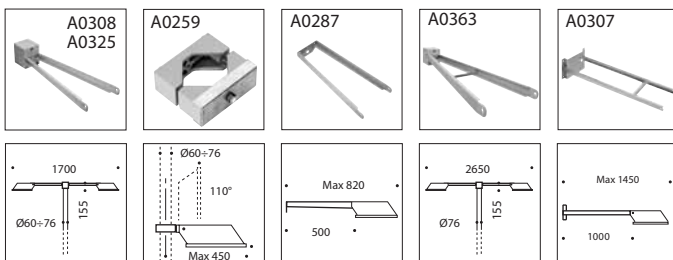
### WIN 01

14048894	A0308/1
14049094	A0308/2-90°
14048994	A0308/2-180°
14049194	A0308/3-90°
14050294	A0325/3-120°
14049294	A0308/4
14029094	A0259/1
14047194	A0259/2
14043394	A0287/500

### WIN 02

14068694	A0363/1
14068794	A0363/2-90°
14068894	A0363/2-180°
14068994	A0363/3-90°
14069094	A0363/3-120°
14069194	A0363/4
14048694	A0307

### WIN 01



# LYRA 11



**LYRA 11** street lighting fittings are manufactured in UV stabilised **technopolymer** providing a high mechanical strength and corrosion resistance. With a full **cut-off** reflector for zero upward light pollution, LYRA 11 is suitable for local and side street road lighting, minor roads, residential estates, commercial and industrial complexes. Pole top and side entry mounting suitable for **straight arms** Ø60-76mm or **curved arms** Ø42-60mm externally adjustable 0° to +20°.

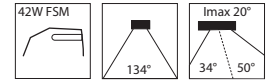
- Polyamide body and cover light grey.
- Automatic **isolating switch**, on cover removal.
- Die cast aluminium pole clamp finished light grey with stainless steel locking screw, **suitable for Ø42-76mm poles**.
- Quick hand release gear tray, no tools required. 2x2.5mm<sup>2</sup> terminal block.
- Reflector in polished and anodized aluminium. **IP66** optical compartment.
- **Toughened** clear safety glass, also available in frosted (etched) glass. Silicone gasket factory injection bonded direct to glass.
- Quick and **easy re-lamping**.
- **Stainless steel** external screws.



## 90 LYRA 11

<b>05145990</b>	11/80÷125	90	CR		E27	80÷125W	HQL/HPL-N
<b>05146090</b>	11/70	90	CR		E27	70W	NAV-E/I / SON-I

Lamps with integral ignitor.



## 90 LYRA 11

<b>05146190</b>	11/72	90	CR		E27	70W	NAV-T/SON-T-CDO-TT
<b>05146290</b>	11/100	90	CR		E40	100W	NAV-T/SON-T-CDO-TT
<b>05146390</b>	11/150	90	CR		E40	150W	NAV-T/SON-T-CDO-TT
<b>05149490</b>	11/252	90	CR		E40	250W	NAV-T/SON-T/HQ-T/D

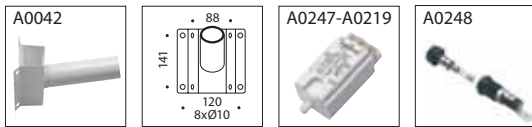


All fittings are available, on request, with dual-power ballast and switching device. Fittings with photocell available on request.



						<b>IK 08 5J</b>							
<b>CLASS II</b>		<b>90</b>								<b>QE</b>  80÷125W	<b>SE</b>  70W	<b>ST</b>  max 250W	<b>MT</b>  max 250W
				<b>H05RN-F 2x1</b> 2x2,5mm <sup>2</sup>									

**ACCESSORIES**



14152017	A0042 90	■ Wall mounting bracket in hot dipped galvanized steel, cataphoresis and polyester painted light grey.
14025220	A0247 /70W	Supplement for timed ignitor, to be ordered together with the fitting.
14015020	A0219 /100÷250W	Supplement for timed ignitor, to be ordered together with the fitting.
14025520	A0248 /3,15A 125-150	Fuse holder complete with fuse, to be ordered together with fitting.
14025320	A0248 /2A 70-72	Fuse holder complete with fuse, to be ordered together with fitting.
14025420	A0248 /2,5A 100	Fuse holder complete with fuse, to be ordered together with fitting.
14025620	A0248 /6,3A 252	Fuse holder complete with fuse, to be ordered together with fitting.

■ Minimum order 10 pcs. or multiple quantities thereof.



# MYRA 12



**MYRA 12** street lighting fitting for pole top or side entry mounting with high performance optics suitable for street lighting, side roads and residential lighting. Complete with a full "cut-off" reflector for precise control providing a lighting solution in accordance with the relevant standards for zero upward light pollution. Myra 12 is available with the following cover options:  
**MYRA 12/PMMA** - methacrylate cover.  
**MYRA 12/V** - flat safety glass (17J) cover.

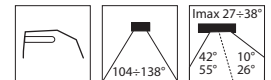
- Die cast aluminium pole clamp finished light grey for pole top and side arm installations, suitable for  $\varnothing 42-60$ mm poles.
- **Stainless steel** pole fixing bolt.
- Body in light grey **technopolymer**.
- Removable easy access control gear tray and lampholder assembly
- Quick release aluminium cover clips. Cover hinges to body for easy maintenance.
- Reflector in high purity aluminium anodised and polished. External surface finished polyester powder coated light grey.
- **Anti-ageing** dual foam silicone gasket, factory injection direct to glass.



## 90 MYRA 12/V

<b>05055990</b>	80-125	90	CR		E27	80÷125W	HQL/HPL-N
• <b>05056090</b>	70	90	CR		E27	70W	NAV-E/I / SON-I
<b>05082390</b>	72	90	CR		E27	70W	NAV-T/SON-T/CDO-TT
<b>05056190</b>	100	90	CR		E40	100W	NAV-T/SON-T/CDO-TT
<b>05056290</b>	150	90	CR		E40	100W	NAV-E/SON
						150W	NAV-T/SON-T/CDO-TT
<b>05056390</b>	251	90	CR		E40	250W	HQL/HPL-N
<b>05056490</b>	252	90	CR		E40	250W	NAV-T / HQI-T/D
						250W	NAV-E/SON
•• <b>05058890</b>	42	90	CR		GX24q-4	42W	DULUX T/E
<b>05059190</b>	218	90	CR		2G11	2x18W	DULUX-L/PL-L

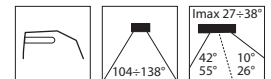
- Electronic ballast 220 - 240V, 50/60Hz supply.



## 90 MYRA 12/PMMA

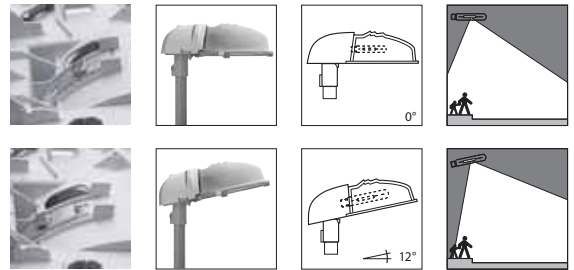
<b>05050399</b>	80-125	90	CR		E27	80÷125W	HQL/HPL-N
• <b>05050099</b>	70	90	CR		E27	70W	NAV-E/I / SON-I
<b>05052690</b>	72	90	CR		E27	70W	NAV-T/SON-T/CDO-TT
<b>05050199</b>	100	90	CR		E40	100W	NAV-T/SON-T
						100W	NAV-E/SON
<b>05050299</b>	150	90	CR		E40	150W	NAV-T/SON-T/CDO-TT
						150W	NAV-E/SON

- Lamps with integral ignitor.



CLASS II		90						FSM 18W	FSM 42W	QE max 250W	SE max 250W	ST max 250W	MT max 250W
							H05RN-F 2x1 2x4mm²						

Fitting adjustable from horizontal (parallel to ground) 0° to +12°.



The innovative "V" shape facets produce a very high performance with high visual comfort complying with CIE 31 norms.



**ACCESSORIES**



14006320	A0188	Plug and socket terminal factory fitted on request.
14152017	A0042 90	Wall angled bracket in hot dipped galvanized steel, cataphoresis and finished polyester painted light grey.

■ Minimum order 10 pcs. or multiples quantities thereof.



# FLUOLINE



## MULTI-FUNCTIONAL

**FLUOLINE** is a range of technopolymer corrosion resistant IP65 fittings designed for use with energy efficient compact fluorescent lamps. The multifunctional FLUOLINE range compliments the existing compact fluorescent FLUOSPOT and RANDA fittings offering a comprehensive choice of energy efficient luminaires.

Fluoline is available in three versions:

- FLUOLINE 1
- FLUOLINE 2
- FLUOLINE 3

With a choice of body styles and lamp options Fluoline is suitable for indoor and outdoor use in a variety of applications for residential lighting, security, walkways and paths, displays, signage, and small to medium area lighting.

Fluoline fittings are constructed from a technopolymer body with a clear UV stabilised polycarbonate cover and stainless steel brackets (where applicable) producing a corrosion resistant fitting suitable for installation in marine / sea climate applications.

Insulation Class II product. Available as through wiring connection with appropriate accessories. Easy low cost maintenance and installation.



**FLUOLINE 1** is the most compact model in the Fluoline range with modern clean simple lines ideal for discreet installations.

Fluoline 1 is suitable for use with 7-9W compact fluorescent lamps (equivalent to 40/50W incandescent) complete with high frequency electronic ballast.

Fluoline 1 is complete with a moulded fixing base for wall or ceiling installation allowing various mounting positions. Options for stainless steel mounting brackets are also available.



**FLUOLINE 2** is the intermediate model in the Fluoline range with a unique cylindrical compact design.

Fluoline 2 are ideal for walkways and path lighting, wall mounted on buildings to provide general area lighting, security lighting and residential lighting.

Fluoline 2 is suitable for use with 26-42W compact fluorescent lamps complete with conventional or electronic control gear. An option for 70W HID E27 lamps with integral ignitor and toughened glass cover, instead of polycarbonate, is available.



**FLUOLINE 3** is the larger and higher powered of the compact fluorescent versions within the Fluoline range. The contemporary clean geometry and shallow depth combined with a light source of up to 2x36W (5800 lm) making Fluoline 3 particularly suitable for shop façades, sign lighting, advertising boards, walkways, and security lighting.

Fluoline 3 is suitable for single or twin Dulux-L 24 or 36W lamps complete with conventional or electronic control gear for single lamp version and electronic control gear for twin lamp. Lamp positions on the single lamp versions can be adjusted on site for asymmetrical or symmetrical distribution.

Fluoline 3 is supplied with two stainless steel brackets for wall or ceiling installation. Accessories are available for bracket mounting (A0300), extension arm bracket (A0301).



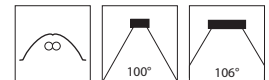
										max0,35kg			
CLASS II		85 90		IP 65								FSD 7W	FSD 9W

## FLUOLINE 1



85 90 FLUOLINE 1

05146585 05146490 1/9 ETRC 2G7 7-9W DULUX-SE/PL-S 220=240V, 50/60Hz



### ACCESSORIES

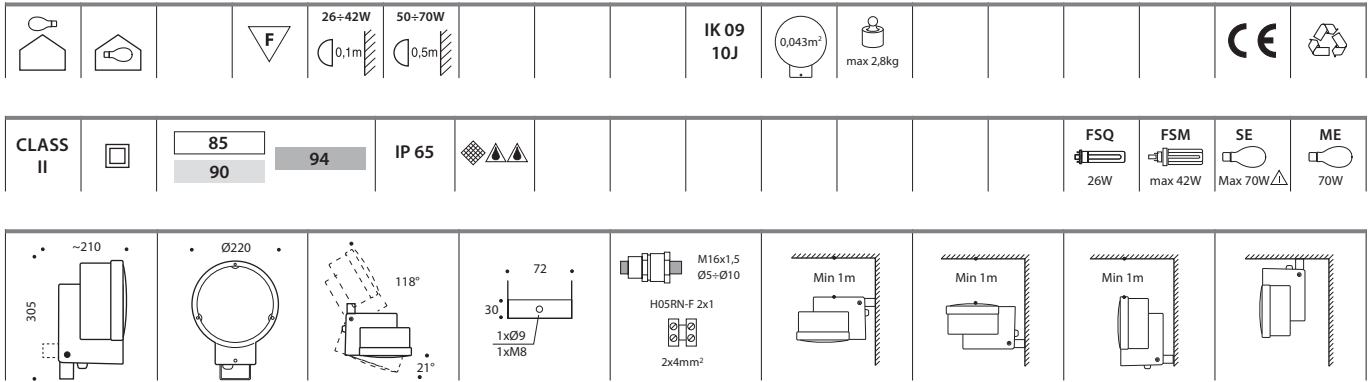


14051085	A0317	85	Fluoline 1 adjustable wall / ceiling bracket in stainless steel with moulded fixing base finished white.
14050790	A0317	90	Fluoline 1 adjustable wall / ceiling bracket in stainless steel with moulded fixing base finished grey.
14051185	A0318	85	Side mounting adjustable wall bracket in steel finished white
14050890	A0318	90	Side mounting adjustable wall bracket in steel finished light grey.
14050920	A0319		Through wiring kit



- Body in tecnopolymer white or grey.
- Cover in clear UV stabilized polycarbonate
- Polyurethane long life gasket
- Reflector high purity polished aluminium
- Cable entry 7-10mm dia. 2x1 mm<sup>2</sup> cables.
- A2 stainless steel external screws.
- Recommended cables type HO5RNF2x1mm<sup>2</sup>.
- A0319 Through wiring accessory kit (max no. 40x9W fittings on a max length of 100m).





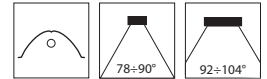
**M** MULTI-FUNCTIONAL

## FLUOLINE 2

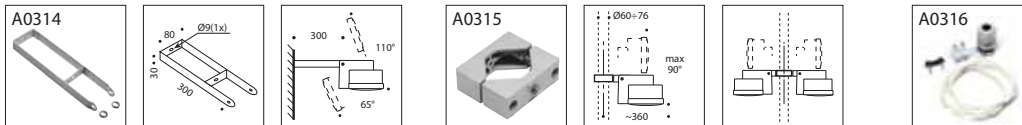


	85	90	94	FLUOLINE 2								
	05147485	05146890		2/26	CR		G24-d3	26W	DULUX-D/PL-C			
	• 05147885	05147290		2/26-42	ETRC		G24-q3	26W	DULUX-DE/PL-C			
							G24-q4	42W	DULUX-TE/PL-T			
				05155890	2/50	CR		50W	NAV-E/1 / SON-I			
				05146990	2/70	CR		70W	NAV-E/1 / SON-I			
				05170494	2/71	CR		70W	HQI-E/CDO-ET			

- Lamps with integral ignitor.
- ⚠ Electronic ballast 220 - 240V, 50/60Hz supply.



### ACCESSORIES



14050390	A0314	90	300mm extension arm bracket finished light grey, allows adjustable orientation of the FLUOLINE 2 fitting.
14050485	A0314	85	300mm extension arm bracket finished white, allows adjustable orientation of the FLUOLINE 2 fitting.
14050590	A0315	94	Die-cast aluminium pole fixing clamp finished white suitable for single or two Fluoline 2 fittings, back to back, on Ø60-76mm poles.
14050620	A0316		Through wiring kit complete with M16x1.5 anti-rupturing IP68 cable gland, 2x4 mm² terminal block with insulated support and cable guide (cables not supplied).

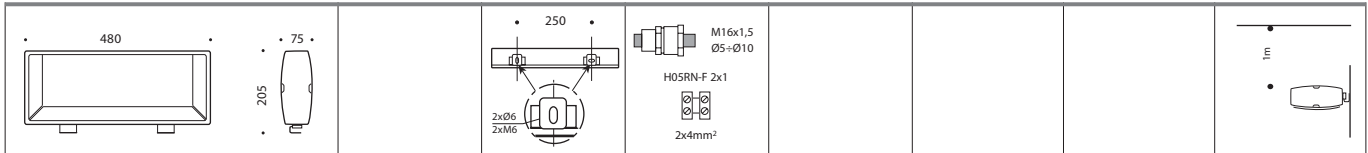


- Body in tecnopolymer white or light grey (FLUO 26-42W) and aluminium grey (SE ME 50-70W).
- Cover in clear UV stabilized polycarbonate (FLUO 26-42W) complete with anti-ageing silicone gasket.
- Toughened flat glass cover (SE-ME 50/70W) with anti-ageing dual foam silicone gasket, factory injection direct to glass.
- Reflector in high purity aluminium anodised and polished.
- Anti-tearing M16x1.5 cable gland for Ø5-10mm cables.
- Stainless steel adjustable fixing bracket
- A2 stainless steel external screws.

Through wiring accessory kit (A0316) suitable for maximum 13x26W, 10x42W, 7x50W or 5x70W on max. 100m length.



CLASS II		85 90	IP 65		FSD 24W	FSD 36W
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**MULTIUSO**

## FLUOLINE 3

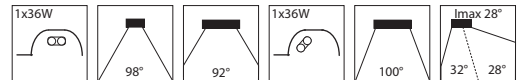


85 90 FLUOLINE 3

05145285	05135994	3/124	CR	2G11	24W	DULUX-L/PL-L
• 05145485	05136194	3/136	CR	2G11	36W	DULUX-L/PL-L
05145385	05136094	3/124	ETRC	2G11	24W	DULUX-L/PL-L
05145585	05136294	3/136	ETRC	2G11	36W	DULUX-L/PL-L
05145685	05136394	3/236	ETRC	2G11	2x36W	DULUX-L/PL-L



- Electronic ballast 220 - 240V, 50/60Hz supply.



### ACCESSORIES

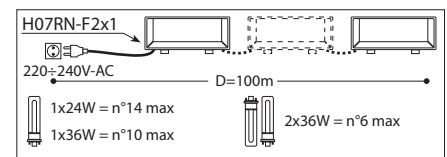


14048504	A0300	04	Stainless steel bracket allows adjustable orientation of the FLUOLINE 3 fitting.
14047385	A0301	85	500mm extension arm bracket finished white, allows adjustable orientation of the FLUOLINE 3 fitting.
14046990	A0301	90	500mm extension arm bracket finished grey, allows adjustable orientation of the FLUOLINE 3 fitting.
14047020	A0302		Through wiring kit comprising: M16x1.5-IP68 anti-rupturing cable gland, 2x4mm <sup>2</sup> . terminal block and 1mm <sup>2</sup> . double insulated cables.



- Body in tecnopolymer white or grey.
- Impact resistant clear UV stabilized polycarbonate cover.
- Dual foam polyurethane gasket.
- Reflector in high purity polished aluminium.
- Anti-tearing M16x1.5 cable gland for Ø5-10mm cables.
- A0302 Through wiring kit accessory.
- A2 stainless steel external screws.

Fluoline 3 are suitable for single or through wiring connection with maximum n°14/24W, n°10/1x36W or n°6/2x36W twin lamp on max. 100m length.



# FLUOSPOT



**FLUOSPOT** multi-functional compact fluorescent energy saving IP55 fittings suitable for indoor and outdoor installation, manufactured in **technopolymer**. With a variety of mounting accessories and lamp options (24W max) FLUOSPOT are ideal for small advertising and signage panels, garden and small area lighting, security lighting. Other mounting accessories include extension arms (500mm/1000mm), and telescopic tri-pod stand.

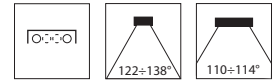
- Polyamide body reinforced with fibreglass available in black or white.
- Long life polyurethane gasket.
- Stabilized UV polycarbonate cover.
- Polyamide pivot joint and wiring connection box.
- Reflectors in high purity aluminium anodised and polished which provide a cover plate and support for electrical components.
- Steel sheet wall fixing bracket complete with polyamide cover.
- Stainless steel external screws.

## MULTI-FUNCTIONAL



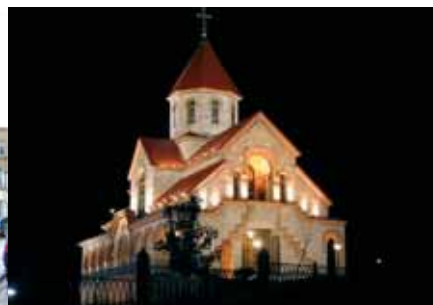
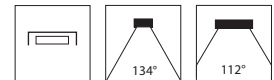
**80** **85** FLUOSPOT PC

<b>05836013</b>	<b>05901023</b>	PC 29 CR		G23 2x9W DULUX-S/PL-S
<b>05835013</b>	<b>05900023</b>	PC 49 CR		G23 4x9W DULUX-S/PL-S



**80** **85** FLUOSPOT PC

<b>05893013</b>	<b>05903023</b>	PC 24F CR		2G10 24W DULUX FLAT
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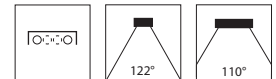
						<b>IK 09 12J</b>								
<b>CLASS I</b>		<b>80</b> <b>85</b>		<b>IP 55</b>									<b>FSD</b> 9W	<b>FSD</b> 24W



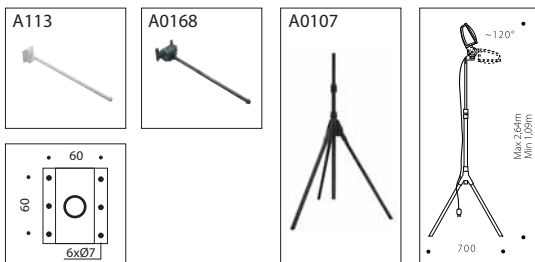
**80** **85** FLUOSPOT KIT

**03002280** **03002385** KIT 49 CRL G23 4x9W DULUX-S/PL-S

FLUOSPOT Kit comprising one fitting complete with 4x9W lamps and 500mm extension arm. Available in white or black colour.



#### ACCESSORIES



14002680 - A0168/500	80	Die cast aluminium connection box (IP54) and 50cm arm in steel painted in black. It allows connection of fittings in series.
14002785 - A0168/500	85	Die cast aluminium connection box (IP54) and 50cm arm in steel painted in white. It allows connection of fittings in series.
14002880 - A0168/1000	80	Die cast aluminium connection box (IP54) and 100cm arm in steel painted in black. It allows connection of fittings in series.
14002985 - A0168/1000	85	Die cast aluminium connection box (IP54) and 100cm arm in steel painted in white. It allows connection of fittings in series.
14004011 A113/500	80	Extension arm available in 500 length finished black.
14005021 A113/500	85	Extension arm available in 500 length finished white.
14323013 A113/1000/R	80	Extension arm available 1000mm length finished black.
14324023 A113/1000/R	85	Extension arm available 1000mm length finished white.
14337011 A107/T	80	Adjustable steel telescopic tri-pod stand with polyamide joints.

# RANDA



**RANDA** corrosion resistant IP55 fittings manufactured from **technopolymer** suitable for indoor and outdoor applications. Available with various mounting options and suitable for use with a wide range of light sources: compact fluorescent, **mercury vapour**, high pressure sodium and **metal halide (100W max)**.

Randa are available in two versions:

**RANDA fixed** surface mounted

**RANDA OR** cradle mounted for **adjustable** positioning.

Randa are highly versatile luminaires to suit a variety of applications.

- Glass fibre reinforced **polyamide black body**.
- Cover in UV stabilized **polycarbonate**. RANDA 80 and 100 are supplied with an internal toughened glass to further shield the polycarbonate cover from UV.
- Silicone gaskets.
- **Stainless steel** external screws.



A0047 pole mounting accessories for single or twin fittings on 60mm poles.

Through wiring connection using A0052 gland accessory. RANDA OR fittings are suitable for use with **extension arm bracket** accessory A0026 (500mm or 1000mm).

## MULTI-FUNCTIONAL

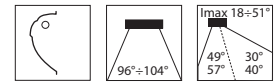


### 80 RANDA OR

<b>05417013</b>	OR	70	80	CR		E27	70W	NAV-E/I / SON-I 
• <b>05421013</b>	OR	80	80	CR		E27	80W	HQL/HPL-N
• <b>05425013</b>	OR	100	80	CR		E27	100W	HQI-E

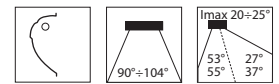
 Lamp with integral ignitor.

- Complete with toughened glass fitted behind polycarbonate cover.



### 80 RANDA OR

<b>05413013</b>	OR	218	80	CR		2G11	2x18W	DULUX-/PL-L
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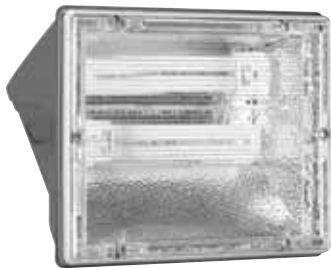
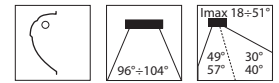
					<b>IK 09</b> <b>18J</b>								
<b>CLASS I</b>		<b>80</b>	<b>IP 55</b>							<b>FSD</b> 9W	<b>SE</b> 70W	<b>QE</b> 80W	<b>ME</b> 100W
<b>RANDA OR</b>						<b>RANDA OR</b>							



**80** RANDA

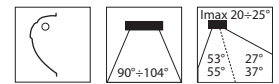
<b>05415013</b>	70	80	CR		E27	70W	NAV-E/I / SON-I
• <b>05419013</b>	80	80	CR		E27	80W	HQL/HPL-N
• <b>05423013</b>	100	80	CR		E27	100W	HQI-E

- Lamp with integral ignitor.  
 • Complete with toughened glass fitted behind polycarbonate cover.

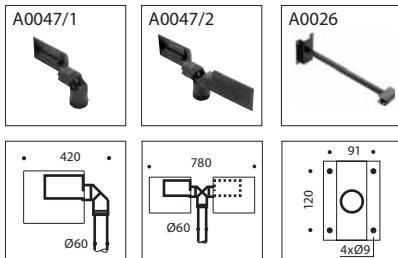


**80** RANDA

<b>05411013</b>	218	80	CR		2G11	2x18W	DULUX-/PL-L
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**ACCESSORIES**



14193013	A0047/1	80	Single pole top mounting in technopolymer for Ø60mm poles. Suitable for use with RANDA fixed surface mounted fittings (not for RANDA OR).
14194013	A0047/2	80	Twin pole top mounting in technopolymer for Ø60mm poles. Suitable for use with RANDA fixed surface mounted fittings (not for RANDA OR).
14235013	A0026/500	80	500 mm steel extension arm bracket finished black (RANDA OR only).
14237013	A0026/1000	80	1000 mm steel extension arm bracket finished black (RANDA OR only).

# JAY



**JAY** is a range of multifunctional spot lights for indoor and outdoor applications suitable for ground and wall mounting. JAY is a clean and simple designed fitting which is suitable for highlighting architectural details and features.

Available in the following versions:

- **JAY** with **dychroic** lamp :
  - 50W / 12V (without transformer)
  - 50W / 12V (with integrated electronic transformer)
  - 50W / 230V (mains voltage)
- **JAY** with E27 compact **fluorescent** lamp max 12W.
- **JAY LED** 3x1.4W in three different colours warm white (3000°K), white (6000°K) and blue.

- Body in corrosion resistant aluminium finished polyester powder coated black.
- Sodium calcium safety toughened float glass.
- Glass closing frame in nylon PA46 + 30% F.V.
- Cover and connection box in nylon PA66 + 30%F.V.
- Anti-ageing silicon rubber gaskets.
- Bracket in stainless steel plate polyester powder coated.
- Ø 7 to 10 mm cables entry – 2x2.5 mm<sup>2</sup>.
- Stainless steel external screw fixings.

## MULTI-FUNCTIONAL



### 81 JAY 50 - 50T - 52

<b>01043281</b>	50 / 12	DICR.			GU5,3 Max 50W/12V
<b>04023781</b>	50T / 12	HAL. B.T.			GU5,3 Max 50W/230V/12V
<b>01043381</b>	52 / 230				GZ10 Max 50W/230V






### 81 JAY FLUO - E27

<b>01043481</b>	FLUO / 12W			E27 Max 12W DULUX EL
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### 81 JAY - LED

<b>06016581</b>	LED	○ White		3 LED (3000°K) 350mA - 3x1.4W
<b>06016481</b>	LED	○ White		3 LED (6000°K) 350mA - 3x1.4W
<b>06016681</b>	LED	● Blue		3 LED 350mA - 3x1.4W

									max 0,6 kg				
<b>CLASS II</b>		<b>CLASS III</b> (cod. 01043281)		<b>81</b>	<b>IP 65</b>						<b>HR</b> Max 50W	<b>FB</b> Max 12W	<b>LED</b> Max 1,4W
									$\varnothing 7-\varnothing 10$ H05RN-F 3G1,5 2x2,5mm <sup>2</sup>				

#### ACCESSORIES



14091981	A0459	81	600mm stainless steel bracket complete with base in die-cast aluminium finished painted black.
14092081	A0460	81	350mm stainless steel bracket complete with base in die-cast aluminium finished painted black.
14092181	A0461	81	Base in die-cast aluminium finished painted black.
14092202	A0462		Ground installation spike in galvanised steel.





# JAGUAR



**JAGUAR** spot light fittings designed for highlighting and feature **effect lighting** suitable for indoor or outdoor installations.

Available in three versions:

**JAGUAR 01/02** suitable for **PAR 38** lamps

**JAGUAR PA38** suitable for PAR38 lamps. Manufactured from corrosion resistant technopolymer, suitable for **marine / sea environments**.

Direct ground installation is not recommended. For ground mounting we recommend the use of A0071 accessories.

JAGUAR 01-02:







Aluminium body with polyamide wiring box and silicone gasket.

JAGUAR PA38: Polyamide body and wiring box.

 **MULTI-FUNCTIONAL**



**80** **85** JAGUAR 01 - PA 38

• <b>03001016</b>	⊕ 01				E27	Max 120W	PAR 38	■
• <b>03002026</b>	⊕ 02				E27	Max 120W	PAR 38	■
•• <b>01883011</b> •• <b>01000802</b>	□ PA 38				E27	Max 120W	PAR 38	■

- Aluminium body.
- Polyamide body.

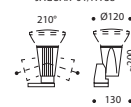
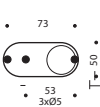



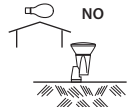

## ACCESSORIES



14288931 A0071 Galvanised steel ground installation spike suitable for JAGUAR 01-02 and PA38: 19-23.

					IK 07 2J							
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CLASS I	CLASS II	<b>80</b> <b>85</b>	IP 55									IPAR Max 120W
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JAGUAR 01/PA 38 				PG11 Ø8,5-Ø10,5		H05RN-F 2G1 01=02/3x1,5mm <sup>2</sup>			
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# SKIPPER



SKIPPER are small asymmetrical tungsten halogen floodlights (300W max) suitable for shop sign lighting, advertising boards, architectural details in building, and security lighting.

Available in two versions:

SKIPPER and SKIPPER COMPACT

SKIPPER COMPACT is suitable for indoor installation only.

SKIPPER is suitable for indoor and outdoor lighting subject to recommended installation positions.

- Body in die cast aluminium alloy finished black or white.
- Toughened safety glass cover attached to the body with two stainless steel spring fixings.
- Reflector in high purity aluminium anodised and polished.
- Polyamide wiring box allows adjustable orientation of the fitting.

Available in two versions:

- SKIPPER – complete with moulded wall mounting bracket and pivot joint. Suitable for use with accessories A113/500-1000 extension arm bracket.
- SKIPPER COMPACT – Recommended for indoor and wall mounting only.

Pivot joint adjustment complete with an anti-slide secure fixing.

## MULTI-FUNCTIONAL

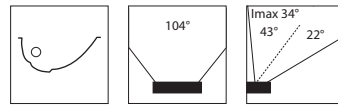


80 85 SKIPPER COMPACT / V - SKIPPER / V

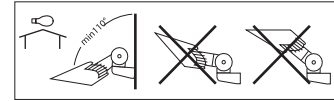
• 01036011	01037021	COMPACT / V		R7s	max 300W	■
01032011	01033021	/V		R7s	max 300W	■

- Not suitable for use with A113/500-1000 accessories.

- Minimum order 8 pcs. or multiple quantities thereof.



Compulsory positions for outdoor installation. Only Skipper/V



COMPACT / V

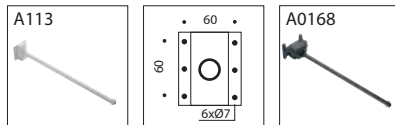


80 85 SKIPPER KIT

• 03051011	03052021	KIT / V L		R7s	max 300W	
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SKIPPER Kit comprising one fitting complete with 300W tungsten halogen lamp and 500mm extension arm. Available in white or black colour.

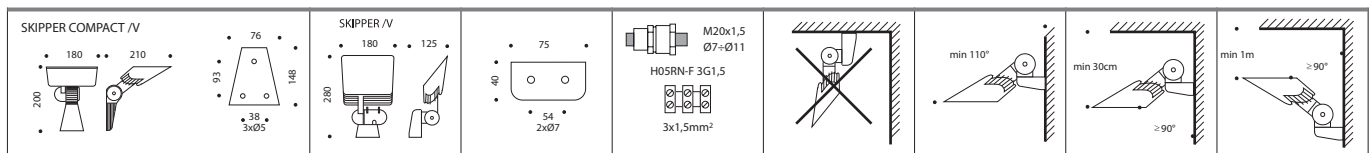
## ACCESSORIES




















14002680 - A0168/500	80	Die cast aluminium connection box (IP54) and 50cm arm in steel painted in black. It allows connection of fittings in series.
14002785 - A0168/500	85	Die cast aluminium connection box (IP54) and 50cm arm in steel painted in white. It allows connection of fittings in series.
14002880 - A0168/1000	80	Die cast aluminium connection box (IP54) and 100cm arm in steel painted in black. It allows connection of fittings in series.
14002985 - A0168/1000	85	Die cast aluminium connection box (IP54) and 100cm arm in steel painted in white. It allows connection of fittings in series.
14004011 A113/500	80	500mm steel extension arm bracket finished black. Not suitable for SKIPPER COMPACT.
14005021 A113/500	85	500mm steel extension arm bracket finished white. Not suitable for SKIPPER COMPACT.
14086011 A113/1000	80	1000mm steel extension arm bracket finished black. Not suitable for SKIPPER COMPACT.
14089021 A113/1000	85	1000mm steel extension arm bracket finished white. Not suitable for SKIPPER COMPACT.









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CLASS I		80 85	IP 23							HDG Max 300W
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LAMPS		ILCOS				OSRAM		PHILIPS		G.E.	
Compact Fluorescent		8W	E27	FBT	<b>08010720</b>	DULUX-EL 8 W/41-827	-	-	-	-	-
		9W	 G23	FSD	<b>08069000</b>	DULUX-S 9 W/21-840	PL-S/2p 9W-840	F9BX/840	-	-	-
		10W	G24q1	FSQ	<b>08008620</b>	DULUX-D/E 10 W/21-840	PL-C/4p 10W-840	-	-	-	-
		13W	 G24d1	FSQ	<b>08070000</b>	DULUX-D 13 W/21-840	PL-C/2p 13W-840	F13DBX/840	-	-	-
		18W	 G24d2	FSQ	<b>08086000</b>	DULUX-D 18 W/840	PL-C/2p 18W-840	F18DBX/840	-	-	-
		26W	 G24q3	FSQ	<b>08006420</b>	DULUX-D/E 26 W/840	PL-C/4p 26W-840	-	-	-	-
		18W	2G11	FSD	<b>08045000</b>	DULUX-L 18 W/840	PL-L/4p 18W-840	F18BX/840	-	-	-
		24W	2G11	FSD	<b>08062000</b>	DULUX-L-SP 24W/830	-	-	-	-	-
		24W	2G11	FSD	<b>08005620</b>	DULUX-L 24W/840	-	-	-	-	-
		36W	2G11	FSD	<b>08095000</b>	DULUX-L 36 W/840	PL-L/4p 36W-840	F36BX/840	-	-	-
		55W	2G11	FSD	<b>08064000</b>	DULUX-L 55 W/827	-	F55BX/827	-	-	-
		42W	Gx24q-4	FSM	<b>08087000</b>	DULUX-T/E 42 W/21-840	PL-T/4p 42W-840	F42QBX/840/4p	-	-	-
		57W	Gx24q-5	FSM	<b>08004120</b>	DULUX-T/E 57 W/21-840 IN	-	F57QBX/840/4p	-	-	-
		18W	2G10	FSS	<b>08002620</b>	DULUX-FLAT 18 W/21-840	-	H125/27	-	-	-
		24W	2G10	FSS	<b>08067000</b>	DULUX-FLAT 24 W/21-840	-	H250/40	-	-	-
		22W	2Gx13	FC	<b>08008320</b>	FC LUMILUX 22W/840	Circular TL-5 22W/840	-	-	-	-
		55W	2Gx13	FC	<b>08008420</b>	FC LUMILUX 55W/840	Circular TL-5 55W/840	-	-	-	-
		60W	2Gx13	FC	<b>08008520</b>	-	Circular TL-5 60W/840	-	-	-	-
High Pressure Sodium		70W	 E27	SE	<b>08029000</b>	NAV-E 70W/I	SON 70W/I	LU70/90/D/I/27	-	-	-
		100W	E40	SE	<b>08030000</b>	NAV-E 100 SUPER	SON-T PLUS 100W	LU100/100/T/40	-	-	-
		150W	E40	SE	<b>08033000</b>	NAV-E 150	SON 150W	LU150/100/D/40	-	-	-
		250W	E40	SE	<b>08035000</b>	NAV-E 250	SON 250W	LU250/D/40	-	-	-
		400W	E40	SE	<b>08037000</b>	NAV-E 400	SON 400W	LU400/D/40	-	-	-
		70W	E27	ST	<b>08026000</b>	NAV-T 70 SUPER	SON-T PLUS 70W	LU70/90/T12/27	-	-	-
		100W	E40	ST	<b>08031000</b>	NAV-T 100 SUPER	SON-T PLUS 100W	LU100/100/T/40	-	-	-
		150W	E40	ST	<b>08032000</b>	NAV-T 150	SON-T 150W	LU150/100/40	-	-	-
		250W	E40	ST	<b>08034000</b>	NAV-T 250	SON-T 250W	LU250/T/40	-	-	-
		400W	E40	ST	<b>08036000</b>	NAV-T 400	SON-T 400W	LU400/T/40	-	-	-
		600W	E40	ST	<b>08078000</b>	NAV-T 600 SUPER	SON-T 600 PLUS	LU 600/HO/T/40	-	-	-
		1000W	E40	ST	<b>08039000</b>	NAV-T 1000	SON-T 1000	LU 1000/110/T/40	-	-	-
		70W	RX7s	SD	<b>08042000</b>	NAV-TS 70 SUPER	-	-	-	-	-
		150W	RX7s	SD	<b>08082000</b>	NAV-TS 150 SUPER	-	-	-	-	-
		250W	Fc2	SD	<b>08088000</b>	NAV-TS 250	-	-	-	-	-
	400W	Fc2	SD	<b>08089000</b>	NAV-TS 400	-	-	-	-	-	
Metal Halide		70W	RX7s	MD	<b>08019000</b>	HQI-TS 70/WDL UVS	MHW-TD 70 UVS	ARC 70/TD/730	-	-	-
		70W	RX7s	MD	<b>08052000</b>	HQI-TS 70/NDL UVS	MHN-TD 70 UVS	ARC 70/TD/742	-	-	-
		150W	RX7s	MD	<b>08020000</b>	HQI-TS 150/WDL UVS	MHW-TD 150 UVS	ARC 150/TD/730	-	-	-
		150W	RX7s	MD	<b>08053000</b>	HQI-TS 150/NDL UVS	MHN-TD 150 UVS	ARC 150/TD/742	-	-	-
		70W	RX7s	MD	<b>08000820</b>	HCI-TS 70/WDL	CDM-TD 70/830	-	-	-	-
		70W	RX7s	MD	<b>08004520</b>	HCI-TS 70/NDL	CDM-TD 70/942	-	-	-	-
		150W	RX7s	MD	<b>08001320</b>	HCI-TS 150/WDL	CDM-TD 150/830	-	-	-	-
		150W	RX7s	MD	<b>08001420</b>	HCI-TS 150/NDL	CDM-TD 150/942	-	-	-	-

LAMPS OFFERED ARE BASED UPON OUR SELECTED BRAND AND STOCK AVAILABILITY.

LAMPS		OSRAM				PHILIPS	G.E.
Metal Halide		20W	PGJ5	MT	<b>08007620</b>	CDM-Tm 20/830	
		20W	G8,5	MT	<b>08005920</b>	HCI-TC 20W/WDL	CMH 20/TC/U/830
		35W	G12	MT	<b>08005420</b>	HCI-T 35WDL	CDM-T 35/830
		70W	G12	MT	<b>08055000</b>	HQI-T 70/WDL	-
		70W	G12	MT	<b>08079000</b>	HQI-T 70/NDL	ARC 70/T/U/730
		150W	G12	MT	<b>08056000</b>	HQI-T 150/WDL	-
		150W	G12	MT	<b>08080000</b>	HQI-T 150/NDL	ARC 150/T/U/830
		70W	G12	MT	<b>08004220</b>	HCI-T 70/WDL	CDM-T 70/830
		70W	G12	MT	<b>08001120</b>	HCI-T 70/NDL	CDM-T 70/942
		150W	G12	MT	<b>08004420</b>	HCI-T 150/WDL	CDM-T 150/830
		150W	G12	MT	<b>08004320</b>	HCI-T 150/NDL	CDM-T 150/942
		250W	Fc2	MD	<b>08001520</b>	HQI-TS 250/WDL	-
		250W	Fc2	MD	<b>08074000</b>	HQI-TS 250/NDL	MHN-TD 250
		400W	Fc2	MD	<b>08090000</b>	HQI-TS 400/NDL	-
		70W	E27	ME	<b>08005520</b>	HQI-E 70W/WDL	-
		100W	E27	ME	<b>08043000</b>	HQI-E 100/WDL	-
		150W	E27	ME	<b>08002520</b>	HQI-E 150W/NDL	-
		150W	E27	ME	<b>08005720</b>	HQI-E 150W/WDL	-
		250W	E40	ME	<b>08024000</b>	HQI-E 250/D	-
		250W	E40	ME	<b>08060000</b>	-	● HPI-BU PLUS 250
		400W	E40	ME	<b>08065000</b>	HQI-E 400/D	-
		400W	E40	ME	<b>08066000</b>	-	● HPI-BU PLUS 400
		400W	E40	ME	<b>08054000</b>	-	HPI-BUS PLUS 400
		70W	E27	MT	<b>08007520</b>	HCI-TT 70W/WDL	CDO/TT 70W/828
		150W	E40	MT	<b>08001220</b>	HCI-TT 150/WDL	CDO-TT 150/830
		250W	E40	MT	<b>08022000</b>	HQI-T 250/D	-
		250W	E40	MT	<b>08058000</b>	-	HPI-T Plus 250
		400W	E40	MT	<b>08023000</b>	HQI-T 400-BT/D	-
		400W	E40	MT	<b>08059000</b>	-	HPI-T Plus 400
		1000W	E40	MT	<b>08038000</b>	HQI-T 1000/D	-
		1000W	E40	MT	<b>08050000</b>	-	HPI-T 1000
		2000W/230V	E40	MT	<b>08057000</b>	-	HPI-T 2000
	2000W/400V	E40	MT	<b>08040000</b>	HQI-T 2000/D/I	SPL 2000/I/T/H/960	
	1000W/230V		MN	<b>08000000</b>	-	MHN-LA 1000	
	2000W/400V		MN	<b>08091000</b>	-	MHN-LA 2000	
	1000W/230V		MN	<b>08001620</b>	HQI-TS 1000/D/S	-	
	2000W/400V		MN	<b>08001720</b>	HQI-TS 2000/D/S	-	
	2000W/400V		MN	<b>08010620</b>	HQI-TS 2000/N/L	-	

 Lamp with integral ignitor.

- PHILIPS HPI-BU PLUS lamps operate on H.P.S. control gear (250W/25.500 lumens and 400W/42.500 lumens) and on M.H./M.V. control gear (250W/18.000 lumens and 400W/32.500 lumens).

**PRODUCTS**

Code	Page	Kg	m <sup>3</sup>	Code	Page	Kg	m <sup>3</sup>	Code	Page	Kg	m <sup>3</sup>
01000802	136	0,35	0,00	01981998	80	2,50	0,01	04024294	70	1,55	0,00
01002901	54	1,65	0,01	01986013	18	23,00	0,18	04024396	70	1,55	0,00
01003001	54	1,55	0,01	01987013	18	23,00	0,18	04025094	17	17,50	0,18
01003102	80	1,64	0,01	03000311	100	14,25	0,05	04025181	70	1,27	0,00
01003202	80	2,44	0,01	03000411	100	15,60	0,05	04025294	70	1,27	0,00
01004501	54	1,08	0,01	03000711	100	13,60	0,05	04025396	70	1,27	0,00
01004601	54	1,95	0,01	03000811	100	15,00	0,05	04025481	70	1,55	0,00
01005894	108	0,74	0,00	03000911	94	6,20	0,03	04025594	70	1,55	0,00
01005994	108	1,03	0,00	03001011	94	7,60	0,03	04025696	70	1,55	0,00
01017304	54	1,88	0,01	03001016	136	0,43	0,00	04025781	70	1,80	0,00
01017404	54	1,90	0,01	03001111	94	6,80	0,03	04025894	70	1,80	0,00
01017504	54	1,95	0,01	03001211	94	8,80	0,03	04025996	70	1,80	0,00
01017604	54	1,96	0,01	03002026	136	0,43	0,00	04026081	70	1,80	0,00
01017704	54	1,31	0,01	03002280	131	2,37	0,02	04026194	70	1,83	0,00
01019294	67	0,82	0,00	03002385	131	2,41	0,02	04026296	70	1,83	0,00
01019394	67	0,83	0,00	03003585	81	3,49	0,03	04026394	21	17,70	0,14
01020494	67	0,83	0,00	03003696	84	1,62	0,00	04026494	21	17,30	0,14
01020594	68	0,54	0,00	03003781	84	1,62	0,00	04026594	21	17,70	0,14
01020694	68	0,55	0,00	03003827	84	1,86	0,00	04026694	21	17,70	0,14
01020794	68	0,59	0,00	03046011	40	4,80	0,04	04249016	54	2,45	0,01
01020894	67	1,34	0,02	03051011	137	1,78	0,02	04257016	54	2,57	0,01
01020994	67	1,35	0,02	03052021	137	1,79	0,02	05013898	56	6,60	0,05
01021094	67	1,36	0,02	04000394	14	22,80	0,20	05014198	56	6,40	0,05
01021194	69	2,97	0,01	04000494	14	22,80	0,20	05015098	56	8,60	0,06
01021294	69	2,98	0,01	04000594	14	22,20	0,20	05015998	56	8,80	0,06
01021394	69	3,04	0,01	04000694	14	22,26	0,20	05028111	118	4,20	0,07
01028681	67	0,82	0,00	04000994	14	22,80	0,20	05028411	118	5,20	0,07
01028781	67	0,83	0,00	04001094	14	23,00	0,20	05028511	118	5,60	0,07
01028881	67	0,84	0,00	04001794	12	10,00	0,07	05042211	100	12,60	0,04
01028981	67	1,34	0,02	04001994	12	10,40	0,07	05044511	98	11,80	0,07
01029081	67	1,35	0,02	04002094	13	10,40	0,07	05044611	98	13,80	0,08
01029181	67	1,35	0,02	04002094	12	10,20	0,07	05044811	98	12,20	0,07
01029281	69	2,97	0,01	04002294	12	10,40	0,07	05044911	98	14,00	0,08
01029381	69	2,98	0,01	04002394	20	13,40	0,12	05045711	98	11,40	0,07
01029481	69	3,04	0,01	04002494	20	13,20	0,12	05045811	98	14,50	0,08
01029581	68	0,53	0,00	04002594	20	13,40	0,12	05046011	98	11,60	0,07
01029681	68	0,54	0,00	04002694	20	12,20	0,12	05046111	98	14,60	0,08
01029781	68	0,60	0,00	04002794	20	12,40	0,12	05046311	99	11,30	0,07
01032011	137	1,10	0,00	04002894	20	12,60	0,12	05046411	99	14,30	0,08
01032794	72	1,82	0,01	04002994	20	13,40	0,12	05046580	118	4,20	0,07
01032894	72	1,80	0,01	04003094	20	13,40	0,12	05046880	118	5,60	0,07
01032994	72	1,81	0,01	04003194	20	13,40	0,12	05046980	118	6,00	0,07
01033021	137	1,10	0,00	04003594	12	10,40	0,07	05047611	100	9,20	0,04
01033081	72	1,81	0,01	04003794	12	10,06	0,07	05047711	100	9,80	0,04
01033181	72	1,81	0,01	04003894	20	13,20	0,12	05047811	100	11,20	0,04
01033281	72	1,80	0,01	04004094	20	13,40	0,12	05048594	106	5,59	0,02
01035996	84	0,92	0,00	04008394	14	23,20	0,20	05048694	106	4,47	0,02
01036011	137	1,00	0,00	04008494	14	21,60	0,20	05048794	106	5,9	0,02
01036081	84	0,92	0,00	04009404	54	2,74	0,01	05048894	106	7,2	0,02
01036127	84	1,15	0,00	04010094	67	0,87	0,00	05048994	106	4,63	0,02
01037021	137	1,00	0,00	04011994	20	12,60	0,12	05049094	106	5,67	0,02
01038404	90	8,14	0,06	04012094	67	0,89	0,00	05050099	124	3,99	0,05
01038704	90	8,14	0,06	04012194	67	1,40	0,02	05050199	124	3,31	0,05
01038804	90	8,18	0,06	04012294	67	1,42	0,02	05050299	124	5,04	0,05
01038904	90	8,18	0,06	04012394	69	3,07	0,01	05050399	124	3,99	0,05
01039004	90	8,15	0,06	04012494	69	3,08	0,01	05052194	56	8,20	0,06
01039104	90	8,15	0,06	04016794	12	10,26	0,07	05052690	124	4,15	0,05
01039204	90	8,28	0,06	04016994	12	10,46	0,07	05055990	124	4,64	0,03
01039304	90	8,28	0,06	04017294	58	2,40	0,01	05056090	124	4,62	0,03
01039404	91	8,27	0,06	04017481	67	0,88	0,00	05056190	124	4,95	0,03
01039504	91	8,27	0,06	04017581	67	0,90	0,00	05056290	124	5,61	0,03
01042296	50	2,00	0,01	04017681	67	1,39	0,02	05056390	124	5,64	0,03
01042396	50	2,10	0,01	04017781	67	1,40	0,02	05056490	124	6,80	0,03
01043281	134	0,58	0,00	04017881	69	3,07	0,01	05056694	36	9,40	0,05
01043381	134	0,57	0,00	04017981	69	3,08	0,01	05056794	36	10,80	0,05
01043481	134	0,59	0,00	04018994	73	3,35	0,01	05056894	36	12,20	0,05
01043581	70	0,83	0,00	04019081	73	3,34	0,01	05056994	36	9,40	0,05
01043694	70	0,83	0,00	04019494	14	23,80	0,20	05057094	36	10,60	0,05
01043796	70	0,83	0,00	04019594	14	23,86	0,20	05057194	36	9,00	0,05
01044781	70	0,83	0,00	04019694	20	12,40	0,12	05057594	36	9,60	0,05
01044894	70	0,83	0,00	04019794	20	12,40	0,12	05057694	36	10,80	0,05
01044996	70	0,83	0,00	04019894	20	12,60	0,12	05057794	36	12,20	0,05
01047304	50	2,10	0,01	04019994	20	12,60	0,12	05057894	36	9,60	0,05
01047404	50	2,00	0,01	04021594	16	15,50	0,09	05057994	36	10,60	0,05
01086011	40	1,35	0,01	04021694	16	15,50	0,09	05058094	36	9,40	0,05
01090021	40	1,35	0,01	04021794	16	15,50	0,09	05058494	36	9,40	0,05
01150013	18	21,60	0,18	04021894	16	15,50	0,09	05058890	124	3,65	0,03
01208013	18	21,40	0,18	04021994	16	15,50	0,09	05059190	124	3,89	0,03
01590011	40	1,35	0,01	04022094	16	15,50	0,09	05061394	37	8,55	0,05
01648011	40	1,37	0,01	04022194	16	15,50	0,09	05061494	37	9,20	0,05
01717011	40	3,33	0,02	04022294	16	15,50	0,09	05061594	37	10,60	0,05
01882011	40	3,73	0,02	04022394	16	16,50	0,09	05061794	37	8,35	0,05
01883011	136	0,35	0,00	04022494	16	15,50	0,09	05061894	37	9,00	0,05
01899016	54	1,62	0,01	04022594	16	15,50	0,09	05061994	37	10,60	0,05
01913016	54	1,63	0,01	04022694	16	15,50	0,09	05063490	64	19,15	0,10
01941998	80	5,41	0,01	04022794	16	15,50	0,09	05063590	64	19,80	0,10
01958018	78	0,88	0,00	04022894	16	15,50	0,09	05063690	64	20,40	0,10
01959018	78	0,90	0,00	04022994	16	15,50	0,09	05063790	64	23,00	0,10
01961018	78	0,44	0,00	04023094	16	15,50	0,09	05063890	64	20,60	0,10
01962018	78	0,47	0,00	04023194	17	17,50	0,18	05065990	64	19,15	0,10
01963016	54	1,57	0,01	04023294	17	17,50	0,18	05066090	64	19,80	0,10
01971016	54	1,68	0,01	04023781	134	0,64	0,00	05066190	64	23,40	0,10
01973016	54	1,71	0,01	04023881	70	1,25	0,00	05066290	64	23,00	0,10
01974016	54	1,73	0,01	04023994	70	1,25	0,00	05066390	64	20,40	0,10
01979998	80	4,47	0,01	04024096	70	1,25	0,00	05066490	64	20,60	0,10
01980998	80	1,64	0,01	04024181	70	1,55	0,00	05066590	64	23,40	0,10



Fitting codes in ascending order indicating catalogue page number, gross weight and volume when packed.

Code	Page	Kg	m <sup>3</sup>	Code	Page	Kg	m <sup>3</sup>	Code	Page	Kg	m <sup>3</sup>
05066890	64	23,20	0,10	05107411	74	3,34	0,01	05147485	128	1,96	0,01
05066990	64	23,20	0,10	05107511	74	4,14	0,01	05147885	128	1,52	0,01
05067894	38	4,45	0,01	05107611	74	4,84	0,02	05148794	58	1,57	0,01
05067994	38	5,14	0,01	05107711	74	2,58	0,01	05148894	58	1,68	0,01
05068294	38	4,19	0,01	05107811	74	3,35	0,01	05148994	58	1,72	0,01
05068394	38	4,45	0,01	05107911	74	4,85	0,02	05149490	122	8,40	0,06
05068494	38	5,16	0,01	05108011	74	4,16	0,01	05150281	82	5,27	0,02
05068590	64	21,40	0,10	05108111	74	4,93	0,02	05150381	82	5,77	0,02
05068690	64	22,00	0,10	05122094	32	16,00	0,08	05150681	82	4,41	0,02
05068790	64	21,80	0,10	05126394	22	4,33	0,01	05151404	82	6,80	0,02
05068890	64	21,40	0,10	05126494	22	5,07	0,01	05151504	82	7,25	0,02
05068990	64	22,00	0,10	05126594	22	4,37	0,01	05151804	82	5,93	0,02
05069090	64	21,80	0,10	05126694	22	5,10	0,01	05152081	82	6,80	0,03
05069694	30	12,80	0,07	05126911	74	2,53	0,01	05152181	82	7,20	0,03
05069794	30	14,00	0,07	05127011	74	4,06	0,01	05152481	82	5,80	0,03
05069894	30	13,80	0,07	05127111	74	4,77	0,01	05153204	82	9,40	0,03
05069994	30	15,20	0,07	05127211	74	2,58	0,01	05153304	82	9,80	0,03
05070094	30	12,80	0,07	05127311	74	4,27	0,01	05153604	82	8,40	0,03
05070194	30	14,00	0,07	05127411	74	5,02	0,01	05154394	31	19,73	0,08
05070294	30	13,80	0,07	05129594	28	7,23	0,03	05154494	31	20,13	0,08
05070394	30	15,60	0,07	05129911	95	3,00	0,02	05155394	58	1,56	0,01
05070994	30	12,80	0,07	05130011	95	4,96	0,03	05155890	128	2,98	0,01
05071094	30	13,80	0,07	05130111	95	5,95	0,03	05156794	106	6,2	0,02
05071194	30	13,80	0,07	05130211	95	3,00	0,02	05156894	106	5,15	0,02
05071294	30	15,40	0,07	05130311	95	5,95	0,03	05156994	106	7,6	0,02
05071394	31	13,20	0,07	05130411	95	4,96	0,03	05157094	106	6,2	0,02
05071494	31	14,60	0,07	05130511	95	5,95	0,03	05158194	106	4,97	0,02
05071594	31	14,40	0,07	05130611	95	3,15	0,02	05158394	106	6,2	0,02
05071694	31	15,80	0,07	05130711	95	5,19	0,03	05158490	62	6,20	0,03
05071794	31	14,20	0,07	05130811	95	6,20	0,03	05158590	62	6,60	0,03
05071894	31	14,40	0,07	05130911	95	3,15	0,02	05158890	62	6,40	0,03
05071994	31	15,60	0,07	05131011	95	6,20	0,03	05160990	62	6,60	0,03
05072790	64	19,40	0,10	05131111	95	5,19	0,03	05161090	62	7,40	0,03
05072890	64	19,20	0,10	05131211	95	6,20	0,03	05161190	62	7,60	0,03
05075094	32	15,51	0,08	05131311	96	3,21	0,02	05161290	62	6,20	0,03
05075294	32	15,80	0,08	05131411	96	5,10	0,03	05161390	62	7,20	0,03
05075394	32	17,60	0,08	05131511	96	6,20	0,03	05161490	62	4,61	0,03
05075494	32	15,80	0,08	05131611	96	3,21	0,02	05161590	62	6,80	0,03
05075594	32	18,00	0,08	05131711	96	6,20	0,03	05161690	62	7,80	0,03
05077294	26	5,50	0,02	05131811	96	5,10	0,03	05161790	62	8,00	0,03
05077394	26	6,40	0,02	05131911	96	6,20	0,03	05161890	62	7,60	0,03
05077494	26	5,30	0,02	05132011	96	3,31	0,02	05161990	62	4,94	0,03
05077594	26	5,48	0,02	05132111	96	5,22	0,03	05162004	62	7,80	0,03
05077694	26	5,47	0,02	05132211	96	6,30	0,03	05162104	62	7,40	0,03
05077794	26	5,43	0,02	05132311	96	3,31	0,02	05162204	62	8,60	0,03
05077894	26	5,94	0,02	05132411	96	6,30	0,03	05162304	62	8,60	0,03
05077994	26	4,15	0,02	05132511	96	5,22	0,03	05162404	62	7,40	0,03
05078094	26	5,27	0,02	05132611	96	6,30	0,03	05162504	62	8,20	0,03
05078194	26	6,20	0,02	05133194	28	7,02	0,03	05162604	62	5,89	0,03
05082390	124	4,78	0,03	05133294	32	16,60	0,08	05162794	72	4,26	0,02
05084980	118	6,80	0,07	05135994	129	2,18	0,01	05162894	72	4,54	0,02
05085090	118	6,60	0,07	05136094	129	1,78	0,01	05162994	72	5,77	0,02
05085111	100	19,20	0,07	05136194	129	2,44	0,01	05163094	72	4,26	0,02
05085694	26	4,20	0,02	05136294	129	1,77	0,01	05163194	72	4,53	0,02
05085994	26	5,33	0,02	05136394	129	1,78	0,01	05163294	72	5,77	0,02
05086094	26	6,20	0,02	05138611	99	14,30	0,08	05163394	72	4,26	0,02
05086194	26	5,33	0,02	05138811	98	14,50	0,08	05163494	72	4,56	0,02
05086294	26	6,20	0,02	05138911	98	14,60	0,08	05163594	72	5,78	0,02
05086804	56	6,80	0,05	05139011	99	14,40	0,08	05163781	72	4,28	0,02
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05087404	56	8,60	0,06	05139794	112	3,60	0,01	05164081	72	4,28	0,02
05087504	56	9,00	0,06	05139894	112	3,76	0,01	05164181	72	4,53	0,02
05087794	28	7,17	0,03	05139994	112	3,93	0,01	05164281	72	5,77	0,02
05087894	28	8,16	0,03	05140194	112	5,05	0,01	05164381	72	4,25	0,02
05095790	64	19,85	0,10	05140494	112	6,40	0,01	05164481	72	4,53	0,02
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05096694	60	4,27	0,02	05140694	112	1,80	0,01	05165390	62	5,69	0,03
05096894	60	4,24	0,02	05143494	24	9,60	0,04	05165490	62	6,20	0,03
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05097204	60	5,31	0,02	05143694	24	12,60	0,04	05166194	106	6,4	0,03
05097311	74	2,50	0,01	05143794	24	10,00	0,04	05166294	106	5,44	0,03
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05097611	74	4,71	0,02	05144194	24	11,20	0,04	05166594	106	5,45	0,03
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05097811	74	3,25	0,01	05144394	24	10,00	0,04	05168694	72	3,58	0,02
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05098011	74	4,77	0,02	05144694	24	11,40	0,04	05168894	72	3,58	0,02
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05101094	110	1,06	0,01	05145990	122	6,20	0,06	05169681	72	3,58	0,02
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05101894	27	5,52	0,02	05146390	122	7,20	0,06	05171204	92	10,59	0,05
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05102294	27	4,24	0,02	05146990	128	3,04	0,01	05171604	92	10,99	0,05
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05172304	93	8,80	0,04	05214596	114	7,10	0,03	05233985	105	10,9	0,05
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05189794	30	14,10	0,07	05222290	102	3,04	0,01	05239794	106	5,71	0,03
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05200504	92	8,45	0,04	05227790	102	1,10	0,01	05674025	94	5,45	0,03
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





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14021394	29	8,00	0,08
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14021420	29	0,16	0,00
14021720	33	0,16	0,00
14023011	41	0,63	0,01
14025220	123	0,13	0,00
14025220	115	0,13	0,01
14025320	123	0,10	0,00
14025420	123	0,10	0,00
14025520	123	0,10	0,00
14025620	123	0,10	0,00
14025701	13	10,75	0,04
14025701	15	10,75	0,04
14025701	19	10,75	0,04
14026520	13	2,80	0,01
14026520	33	2,80	0,01
14026620	60	0,24	0,00
14026720	60	0,40	0,00
14027320	65	7,30	0,00
14027420	65	8,00	0,00
14027720	57	1,26	0,00
14028320	109	0,18	0,00
14028320	111	0,18	0,00
14028320	113	0,18	0,00
14028894	29	1,39	0,00
14028994	29	1,88	0,00
14029094	23	0,62	0,00
14029094	120	0,62	0,00
14029094	29	0,62	0,00
14029094	121	0,62	0,00
14031820	75	0,46	0,00
14031920	75	0,67	0,00
14032020	75	0,88	0,00
14032120	75	1,10	0,00
14032294	75	0,45	0,00
14032394	75	0,92	0,00
14032420	75	0,07	0,00
14037894	69	0,05	0,00
14037894	71	0,05	0,00
14037920	69	0,02	0,00
14038020	69	0,02	0,00
14038120	69	0,02	0,00
14038220	69	0,02	0,00
14038320	69	0,04	0,00
14038404	69	0,13	0,00
14038404	71	0,13	0,00
14038504	69	0,12	0,00
14038504	71	0,12	0,00
14038694	69	0,77	0,00
14040936	69	0,47	0,00
14041220	75	0,27	0,00
14041320	75	0,34	0,00
14041494	120	5,50	0,05
14041494	33	5,50	0,05
14042320	33	0,27	0,00
14042520	29	1,10	0,00
14042620	33	2,80	0,00
14042620	13	2,80	0,00
14042920	23	0,85	0,00
14043020	23	0,00	0,00
14043194	23	0,40	0,01
14043294	23	0,52	0,00
14043394	121	0,95	0,01
14043394	23	0,95	0,01
14044320	96	0,28	0,00
14044420	96	0,49	0,00
14044520	96	0,60	0,00
14044620	13	0,10	0,00
14044620	33	0,10	0,00
14044720	19	0,35	0,00
14044820	19	0,37	0,00
14044920	19	0,06	0,00
14045020	19	18,80	0,02
14045294	33	7,60	0,07
14045294	120	7,60	0,07

Code	Page	Kg	m <sup>3</sup>
14045394	33	11,48	0,12
14045394	120	11,48	0,12
14045694	25	0,94	0,01
14045794	25	0,84	0,03
14045820	25	2,17	0,00
14045920	25	2,23	0,00
14046120	25	0,60	0,00
14046420	96	0,28	0,00
14046520	96	0,49	0,00
14046620	96	0,60	0,00
14046990	129	1,08	0,01
14047020	129	0,07	0,00
14047194	23	0,86	0,00
14047194	121	0,86	0,00
14047194	120	0,86	0,00
14047194	29	0,86	0,00
14047385	129	1,08	0,01
14047904	29	0,30	0,00
14048004	29	0,30	0,00
14048104	23	0,25	0,00
14048204	23	0,26	0,00
14048381	69	0,06	0,00
14048381	71	0,05	0,00
14048481	69	0,77	0,00
14048504	129	0,33	0,00
14048694	121	5,40	0,08
14048694	25	5,40	0,08
14048894	121	2,50	0,01
14048894	23	2,50	0,01
14048894	121	3,09	0,01
14048894	23	3,09	0,01
14049094	121	3,09	0,01
14049094	23	3,09	0,01
14049194	121	4,00	0,01
14049194	23	4,00	0,01
14049294	121	4,92	0,02
14049294	23	4,92	0,02
14049320	83	0,67	0,00
14049720	83	0,05	0,00
14049820	83	0,22	0,00
14049920	83	0,51	0,00
14050194	120	6,80	0,08
14050194	29	6,80	0,08
14050294	23	4,12	0,01
14050294	121	4,12	0,01
14050390	128	0,48	0,00
14050485	128	0,48	0,00
14050590	128	0,48	0,00
14050620	128	0,04	0,00
14050790	127	0,11	0,00
14050890	127	0,10	0,00
14050920	127	0,02	0,00
14051085	127	0,11	0,00
14051185	127	0,10	0,00
14051294	25	2,02	0,00
14051394	25	3,16	0,00
14051420	59	0,09	0,00
14051720	63	0,04	0,00
14051720	59	0,04	0,00
14051920	113	0,40	0,00
14052394	120	11,60	0,12
14052394	33	11,60	0,12
14053620	107	1,33	0,02
14053720	57	0,20	0,00
14053720	65	0,20	0,00
14054020	107	0,1	0,00
14054120	107	0,1	0,00
14054220	107	0,1	0,00
14054320	107	0,1	0,00
14054420	107	0,25	0,00
14054520	101	0,10	0,00
14057394	25	1,06	0,00
14057494	72	3,10	0,01
14057594	72	3,35	0,01
14057694	72	4,63	0,01
14057981	72	3,13	0,01
14058081	72	3,41	0,01
14058181	72	4,63	0,01
14058412	63	0,04	0,00
14058520	63	0,47	0,00
14058601	15	5,70	0,04
14058701	15	7,00	0,04
14058820	63	0,47	0,00
14059294	15	20,00	0,02
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







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14065220	73	0,20	0,00	14078520	115	0,13	0,01	14237013	133	2,13	0,02
14065320	73	0,00	0,00	14078620	115	0,05	0,01	14237013	39	2,13	0,02
14065420	73	0,17	0,00	14081902	117	1,1	0,01	14238023	41	2,13	0,02
14065502	73	0,50	0,00	14082096	116	5,00	0,02	14238023	39	2,13	0,02
14065602	73	0,93	0,00	14082920	103	0,05	0	14249002	105	0,40	0,00
14065702	73	0,54	0,00	14083120	87	5,90	0,05	14260003	21	10,48	0,00
14065894	73	0,16	0,00	14083320	105	0,00	0,05	14260003	17	10,48	0,00
14065981	73	0,17	0,00	14083420	105	0,30	0,00	14261013	19	10,47	0,02
14066020	85	0,04	0,00	14083785	105	2,95	0,08	14266011	41	0,32	0,00
14066020	73	0,04	0,00	14084120	105	2,05	0,00	14274013	19	18,87	0,02
14066594	72	3,30	0,02	14084202	117	2,4	0,01	14288931	136	0,45	0,00
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14066794	72	4,73	0,02	14086011	137	1,00	0,01	14295005	99	1,10	0,00
14066881	72	3,33	0,02	14086320	91	2,75	0,01	14296005	97	0,32	0,00
14066981	72	3,51	0,02	14086420	91	3,71	0,01	14297005	97	0,42	0,00
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14068694	25	3,97	0,04	14086620	91	5,78	0,01	14321994	113	1,14	0,01
14068694	121	3,97	0,04	14086720	91	7,81	0,01	14322994	107	0,59	0,01
14068794	25	6,50	0,04	14086804	89	0,5	0	14323013	131	1,02	0,01
14068794	121	6,50	0,04	14086904	91	0,92	0	14324023	131	1,02	0,01
14068894	121	6,50	0,04	14087004	89	0,91	0	14327933	37	1,37	0,01
14068894	25	6,50	0,04	14087320	91	0,1	0	14337011	131	3,30	0,03
14068994	25	9,50	0,10	14087494	91	3,8	0,02	14337011	41	3,30	0,03
14068994	121	9,50	0,10	14087594	91	4,65	0,02	14350993	39	0,38	0,00
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14069094	25	9,62	0,10	14087794	91	5,6	0,02	14352993	39	0,32	0,00
14069194	121	12,16	0,10	14087894	91	7,1	0,02	14359993	15	10,30	0,02
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14069820	93	0,03	0,00	14088004	89	0,61	0	14361993	15	11,65	0,02
14069920	93	0,03	0,00	14088104	91	0,82	0	14386996	55	0,02	0,00
14070020	93	0,10	0,00	14088204	91	0,9	0	14396993	37	0,56	0,00
14070120	93	0,20	0,00	14088396	116	8,00	0,06	14396993	25	0,56	0,00
14070220	93	0,20	0,00	14088696	117	1,1	0,01	14397996	55	0,17	0,00
14070320	93	0,55	0,00	14088894	91	8,8	0,02	14410998	81	5,21	0,02
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14070520	13	0,07	0,00	14089021	137	1,00	0,01	14412998	81	11,00	0,02
14070620	13	0,07	0,00	14089094	91	10,4	0,02	14413998	81	5,14	0,00
14070720	93	1,06	0,00	14089220	107	0,25	0,00	14414013	91	6,8	0,02
14071020	93	1,60	0,00	14089794	107	1,87	0,01	14415013	91	6	0,02
14071120	85	7,00	0,05	14089894	107	1,87	1,01	14416996	55	0,21	0,00
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14071320	71	0,18	0,00	14090394	17	0,80	0,03	14421018	79	0,74	0,01
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14071620	49	1,10	0,01	14090920	51	0,10	0,00	14431995	103	2,8	0,06
14071720	44	0,23	0,00	14091020	51	0,10	0,00	14440994	110	0,50	0,01
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14072720	93	0,10	0,00	14093920	71	0,62	0,00	14463117	119	6,55	0,11
14073020	93	0,55	0,00	14094020	71	0,62	0,00	14464117	119	1,97	0,02
14073120	93	0,55	0,00	14094681	71	0,05	0,00	14465117	119	0,78	0,00
14073220	85	0,53	0,00	14094794	71	0,05	0,00	14467013	39	0,12	0,00
14074220	93	0,20	0,00	14094896	71	0,05	0,00				
14074420	93	0,20	0,00	14094920	79	5,14	0,00				
14074820	87	0,06	0,00	14096120	79	2,56	0				
14074981	87	5,64	0,02	14096296	71	0,05	0,00				
14075096	87	5,64	0,02	14104003	19	12,55	0,02				
14075104	87	8,50	0,02	14106003	19	19,50	0,02				
14075620	93	0,20	0,00	14106003	17	19,50	0,02				
14075720	93	0,20	0,00	14122820	51	0,33	0,00				
14075920	93	0,20	0,00	14122920	51	0,33	0,00				
14076020	93	0,20	0,00	14123120	51	0,33	0,00				
14076320	87	0,06	0,00	14123220	51	0,33	0,00				
14076620	111	0,06	0,00	14123320	51	0,33	0,00				
14076620	113	0,06	0,00	14123420	51	0,33	0,00				
14076720	55	0,16	0,00	14152017	123	1,08	0,01				
14076720	63	0,16	0,00	14152017	125	1,08	0,01				
14076720	60	0,16	0,00	14172003	19	0,65	0,00				
14076720	59	0,16	0,00	14193013	133	0,34	0,01				
14076820	57	0,22	0,00	14194013	133	0,57	0,01				
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14077102	116	8,00	0,06	14215003	19	12,20	0,02				
14077202	116	11,6	0,09	14215003	17	12,20	0,02				
14077396	116	7,5	0,03	14215003	15	12,20	0,02				
14077496	116	13,5	0,08	14216003	15	10,40	0,02				
14077596	117	2,4	0,01	14216003	13	10,40	0,02				
14077696	117	3,5	0,01	14224013	19	2,10	0,07				
14077820	115	0,06	0,01	14235013	133	1,40	0,01				
14077920	115	0,06	0,01	14235013	39	1,40	0,01				
14078120	115	0,07	0,01	14235013	41	1,40	0,01				
14078220	115	0,07	0,01	14236023	41	1,40	0,01				
14078320	115	0,07	0,01	14236023	39	1,40	0,01				






**94** WIN 01 / S-A

<b>07017294</b>	/S 70 94	CRL		RX7s	70W	HQI-TS/MH-TD
<b>07017394</b>	/S 150 94	CRL		RX7s	150W	HQI-TS/MH-TD
<b>07014594</b>	/A 70 94	CRL		RX7s	70W	HQI-TS/MH-TD
<b>07014694</b>	/A 150 94	CRL		RX7s	150W	HQI-TS/MH-TD
<b>07014794</b>	/C 70 94	CRL		RX7s	70W	HQI-TS/MH-TD
<b>07014894</b>	/C 150 94	CRL		RX7s	150W	HQI-TS/MH-TD






**94** WIN 02 / S-A

<b>07017894</b>	/S 252 94	CRL		E40	250W	NAV-T/SON-T
<b>07017994</b>	/S 402 94	CRL		E40	400W	NAV-T/SON-T
<b>07018094</b>	/S 250 94	CRL		E40	250W	HPI-T Plus
<b>07018194</b>	/S 400 94	CRL		E40	400W	HPI-T Plus
<b>07018294</b>	/A 252 94	CRL		E40	250W	NAV-T/SON-T
<b>07018394</b>	/A 402 94	CRL		E40	400W	NAV-T/SON-T
<b>07018494</b>	/A 250 94	CRL		E40	250W	HPI-T Plus
<b>07018594</b>	/A 400 94	CRL		E40	400W	HPI-T Plus










**80** **85** **94** "Y" psilon 70

<b>07252013</b>	<b>07253023</b>	<b>07010294</b>	Y 70	CRL		RX7s	70W	HQI-TS/MH-TD
<b>07254013</b>	<b>07255023</b>	<b>07010394</b>	Y 150	CRL		RX7s	150W	CDM-TD/NAV-TS


**94** JOLLY 1 / S-A

<b>07023194</b>	/S 70 94	CRL		RX7s	70W	HQI-TS/MH-TD
<b>07023094</b>	/S 150 94	CRL		RX7s	150W	HQI-TS/MH-TD
<b>07022994</b>	/A 70 94	CRL		RX7s	70W	HQI-TS/MH-TD
<b>07022894</b>	/A 150 94	CRL		RX7s	150W	HQI-TS/MH-TD


**94** JOLLY 2 / S-A

<b>07020494</b>	/S 252 94	CRL		E40	250W	NAV-T/SON-T
<b>07020694</b>	/S 402 94	CRL		E40	400W	NAV-T/SON-T
<b>07020394</b>	/S 250 94	CRL		E40	250W	HPI-T Plus
<b>07020594</b>	/S 400 94	CRL		E40	400W	HPI-T Plus
<b>07020894</b>	/A 252 94	CRL		E40	250W	NAV-T/SON-T
<b>07021094</b>	/A 402 94	CRL		E40	400W	NAV-T/SON-T
<b>07020794</b>	/A 250 94	CRL		E40	250W	HPI-T Plus
<b>07020994</b>	/A 400 94	CRL		E40	400W	HPI-T Plus



**94** LEO / S-A

<b>07017794</b>	/S 150	94	CRL		E40	150W	NAV-T/SON-T
<b>07003194</b>	/S 252	94	CRL		E40	250W	NAV-T/SON-T
<b>07003294</b>	/S 402	94	CRL		E40	400W	NAV-T/SON-T
<b>07003394</b>	/S 250	94	CRL		E40	250W	HPI-T Plus
<b>07003494</b>	/S 400	94	CRL		E40	400W	HPI-T Plus
<b>07003694</b>	/A 150	94	CRL		E40	150W	NAV-T/SON-T
<b>07003794</b>	/A 252	94	CRL		E40	250W	NAV-T/SON-T
<b>07003894</b>	/A 402	94	CRL		E40	400W	NAV-T/SON-T
<b>07003994</b>	/A 250	94	CRL		E40	250W	HPI-T Plus
<b>07004094</b>	/A 400	94	CRL		E40	400W	HPI-T Plus



**94** MYRA 12 / V

<b>07013890</b>	/V 70				E27	70W	NAV-E/I / SON-I
<b>07013990</b>	/V 100				E40	100W	NAV-T/SON-T
<b>07014090</b>	/V 150				E40	150W	NAV-T/SON-T
<b>07014190</b>	/V 252				E40	250W	NAV-T/SON-T



**80** **85** FLUOSPOT

<b>07199013</b>	<b>07204023</b>	PC 49	CRL		G23	4x9W	DULUX-S 21-840 / PL-S 9/84
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**80** RANDA

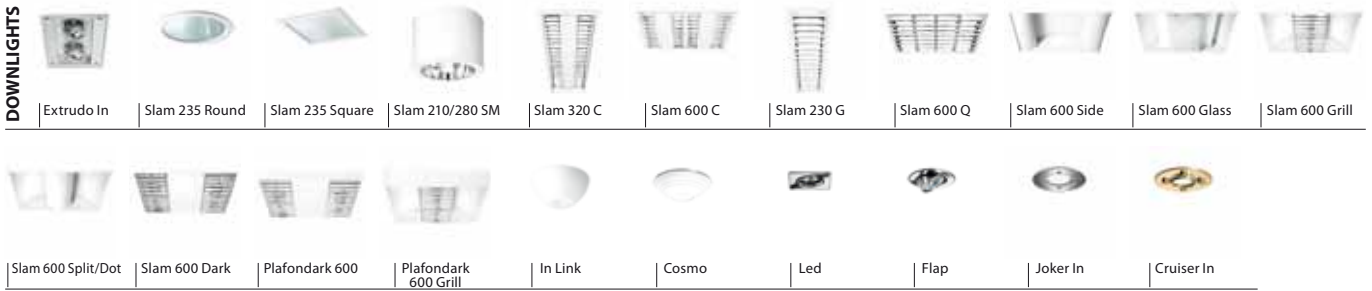
<b>07079013</b>	OR 70	80	CRL		E27	70W	NAV-E/I / SON-I
<b>07108013</b>	OR 100	80	CRL		E27	100W	HQI/E
<b>07075013</b>	OR 218	80	CRL		2G112x18W		DULUX-/PL-L
<b>07077013</b>	70	80	CRL		E27	70W	NAV-E/I / SON-I
<b>07106013</b>	100	80	CRL		E27	100W	HQI/E
<b>07073013</b>	218	80	CRL		2G112x18W		DULUX-/PL-L

Lamps with integral ignitor.

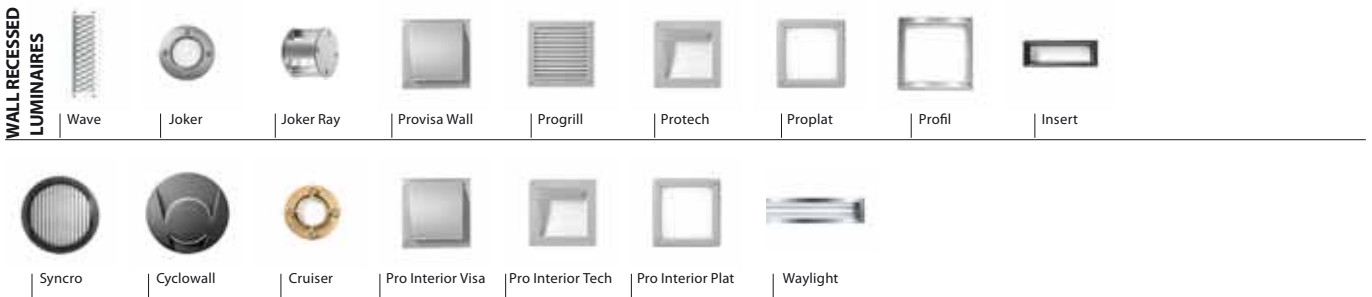
WALL-AND CEILING  
MOUNT LUMINAIRES



DOWNLIGHTS



WALL RECESSED  
LUMINAIRES



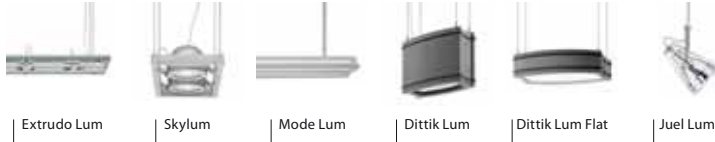
GARDEN LUMINAIRES



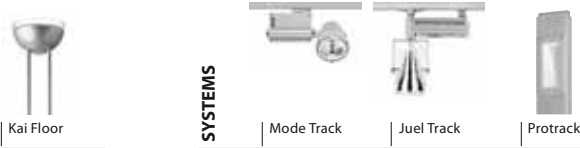
AMENITY LIGHTING



SUSPENDED LUMINAIRES



FLOOR STANDING LUMINAIRES

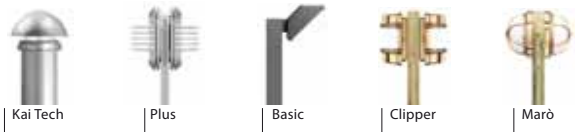


SYSTEMS

FLOODLIGHTS (INTERIOR)



INGROUND LUMINAIRES



FLOODLIGHTS (EXTERIOR)



For more information on these products refer to the latest Prisma Architectural catalogue or visit our website [www.prisma-pil.com](http://www.prisma-pil.com)

WALL/CEILING MOUNT LUMINAIRES



Aura



Bliz



Blob



Chip



Drop 22/28



Drop 20/25



Katà



Lightball Wall



Logos



Magiclick



Mega



Megaline



Multi



Radia



Ronda



Shapes



Signo



Superdelta



Tesi

GARDEN LUMINAIRES



Chip



Country



Duplex Mono



Goal



Katà



Magiclick



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- Product arbitrarily modified or broken by the user.
- Product damage due to user negligence or inexperience.
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The guarantee does not apply to any other claims (for instance additional costs incurrent by the customer) unless agreed and accepted by SBP in writing when the order is placed.

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The guarantee is valid in all countries where SBP or their authorized distributors operate.

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