

BOOM

Catalogue 11 · 2009 - 2011

The BOOM Catalogue is a working document for all light planners and designers. It provides information on technical and lighting data of over 450 luminaires, their possible areas of application as well as their constructive and design quality. Catalogue 11 is published in German, English, French, Italian and Dutch. It replaces Catalogue 10 which is no longer valid.

BOOM Buitenverlichting N.V.
A specialist manufacturer of outdoor luminaires
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www.boom-luminaires.com

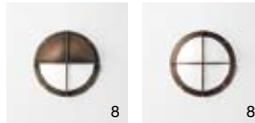
The luminaires in this catalogue
are distributed by

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Die cast bronze



Recessed wall luminaires



Wall luminaires



Copper



Wall luminaires



Ceiling luminaires



Pendant luminaires



Pillar luminaires



Garden luminaires



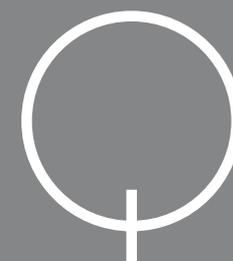


BOOM is part of a group of companies that includes BEGA and GLASHÜTTE LIMBURG. They are medium-sized family companies, managed by the same owners. All the companies in the group manufacture high-quality luminaires, each specializing in its own particular field.

BOOM Buitenverlichting is a specialist factory for outdoor luminaires with a more traditional style. The collection includes luminaires for houses and gardens, for small and large parks and public areas.

The »BOOM« trademark is not a product of our imagination but the name of a small town in Flanders where our company was originally founded as glassworks for illuminating glassware. Translated into English, BOOM means »tree«. The tree symbolizes our great commitment to the responsible development and manufacture of our products.

BOOM



We manufacture our luminaires in different materials which are unparalleled in terms of vividness, quality and beauty. The design and construction of many luminaires is reminiscent of materials and processing techniques of the past which create a distinctive product. Our products are an expression of good taste and value awareness especially in a time of reduced quality and increased mass production.

This catalogue is a comprehensive overview of our programme. It provides information on the appearance, and material and processing quality of our luminaires, and is a good aid to planning and decision-making for all light planners and designers.

Our website at www.boom-luminaires.com provides not only detailed product information but also application photos, planning data and instructions for use for our luminaires.

Our luminaire programme is distributed in Germany and abroad by the professional retail and electrical trade.



Outdoor luminaires are subject to changing weather factors, different climatic conditions and extreme physical stress due to dust and dirt. Material, surface finish and overall technical design have to meet high standards. This requires maximum quality for the intended use. Our product is often connected to a building or garden, or forms an integral part of a public area. This makes high-quality material and perfect technical operation all the more important. Our luminaires are designed to be good building details and lasting investments.

In development and manufacture, our work has focused for many decades on optimum quality for use and good design. Only use for the intended purpose as well as specialist installation and maintenance can guarantee long-lasting safety of operation. Such requirements can only be met by the professional electrical trade.

Copper, die cast bronze, die cast aluminium and hand-blown luminaire glass are the essential materials we use to manufacture our luminaires.

The versatile material copper has been used for thousands of years and is one of man's most valuable materials. This long tradition is not only found in architectural history. All the great cultures and peoples worked with copper: the Colossus of Rhodes was built of copper, and the ancient



Egyptians already used copper for their water pipes. When alloyed with other substances, the properties of pure copper are changed. Copper alloys are therefore extremely resistant to many types of corrosion, and are especially suitable for use in maritime applications.

It is thought that bronze, an alloy of copper and tin, was already used around 2500 BC. This alloy is especially important to us because it is highly resistant to corrosion, durable in sea-water and very resistant to wear and tear. Copper, die cast bronze and brass change in appearance over the course of time. Due to weather factors, the surface develops a patina of unparalleled uniqueness. This material is a unique aesthetic experience. Copper and bronze are symbols of durability and lasting value. They are timelessly modern.

Aluminium and die cast aluminium parts are pretreated, powder coated and given a high-quality enamel finish to ensure maximum resistance to corrosion.

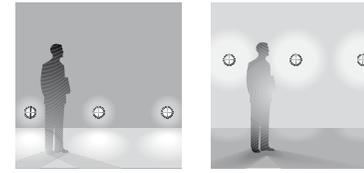
The luminaires with painted surface finish are supplied in the colours graphite or white as indicated in the catalogue. The article number denotes the luminaire in the colour graphite. We supply some luminaires in the colour white. These are denoted by W after the article number. To special order, we also supply luminaires in any other RAL or DB colour.

Recessed wall luminaires made of die cast bronze · shielded or unshielded



These extremely robust recessed luminaires with a high protection class are designed for installation in walls. Dust-proof and jet-proof, they can be used for applications where maximum robustness and corrosion-resistance are required. The life of these luminaires, with their housing made of stainless steel and cover made of die cast corrosion-resistant bronze, is practically unlimited unless they are wantonly destroyed. Installation is simple and economical thanks to the shallow installation depth and patented mounting system. The luminaires are either unshielded or shielded to the top. Available in different sizes and light outputs, they can solve a host of lighting tasks.





Recessed wall luminaires

Protection class IP 65

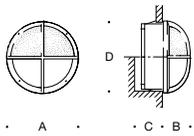
Luminaires with:

- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60
- lamp base GX 24 d for fluorescent lamps TC-T

Our lamp table with information on manufacturers is given on pages 164 -165.

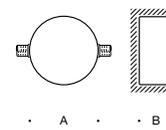
Crystal glass with optical texture, white inside
Die cast bronze cover · Stainless steel housing

When preparing the recessed opening, it may be practical to use an installation housing. Aluminium installation housings are given in the table.



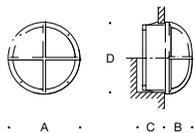
C · D = recessed dimensions

Recessed wall luminaires · shielded									
		Base	Lamp	Lumen	A	B	C	D	
B 1230	Fluorescent or general service lamp	E 27	1 TC-TSE	11 W	660	210	75	80	198
		E 27	1 A 60	60 W	710	210	75	80	198
B 1229	Fluorescent or general service lamp	E 27	1 TC-TSE	20 W	1230	265	85	80	253
		E 27	1 A 60	100 W	1340	265	85	80	253
B 1234	Fluorescent lamp	GX 24 d-1	1 TC-T	13 W	900	210	75	80	198
B 1233	Fluorescent lamp	GX 24 d-3	1 TC-T	26 W	1800	265	85	80	253



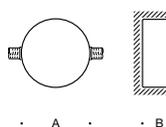
Install. housing

	A	B
B 597	205	90
B 597	205	90
B 598	260	90
B 598	260	90
B 597	205	90
B 598	260	90



C · D = recessed dimensions

Recessed wall luminaires · unshielded									
		Base	Lamp	Lumen	A	B	C	D	
B 1236	Fluorescent or general service lamp	E 27	1 TC-TSE	11 W	660	210	75	80	198
		E 27	1 A 60	60 W	710	210	75	80	198
B 1235	Fluorescent or general service lamp	E 27	1 TC-TSE	20 W	1230	265	85	80	253
		E 27	1 A 60	100 W	1340	265	85	80	253
B 1240	Fluorescent lamp	GX 24 d-1	1 TC-T	13 W	900	210	75	80	198
B 1241	Fluorescent lamp	GX 24 d-3	1 TC-T	26 W	1800	265	85	80	253



Install. housing

	A	B
B 597	205	90
B 597	205	90
B 598	260	90
B 598	260	90
B 597	205	90
B 598	260	90



Wall luminaires made of die cast bronze · shielded or unshielded



Impact-resistant wall luminaires made of die cast bronze. Available in two sizes, they are designed for fluorescent lamps or general service lamps. Dust-proof and jet-proof, the luminaires can be used for applications where a high level of robustness and corrosion-resistance is required. The life of these luminaires with their die cast bronze housing is practically unlimited unless they are wantonly destroyed.

They are imitations of maritime portholes – their shape is defined by simple functional elements. The luminaires shown on this double page can be opened simply and fast without tools for installation and relamping. The closure mechanism made of stainless steel and solid brass is easy to operate and cannot be detached thanks to its special construction. In addition to the cable entries in the bottom of the luminaire, there are two opposite thread connections on the die cast bronze parts. To special order, the luminaires can be prepared for this type of connection. Luminaires with the same technical and design features which can only be opened with tools are given on page 12.





B 1281 · B 1283



B 1285 · B 1287



B 1280 · B 1282



B 1284 · B 1286

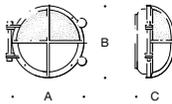
Wall luminaires · **open without tools**
Protection class IP 65

Luminaires with:

- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60
- lamp base GX 24 d for fluorescent lamps TC-T

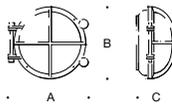
Our lamp table with information on manufacturers is given on pages 164 - 165.

Crystal glass with optical texture, white inside
Die cast bronze and brass



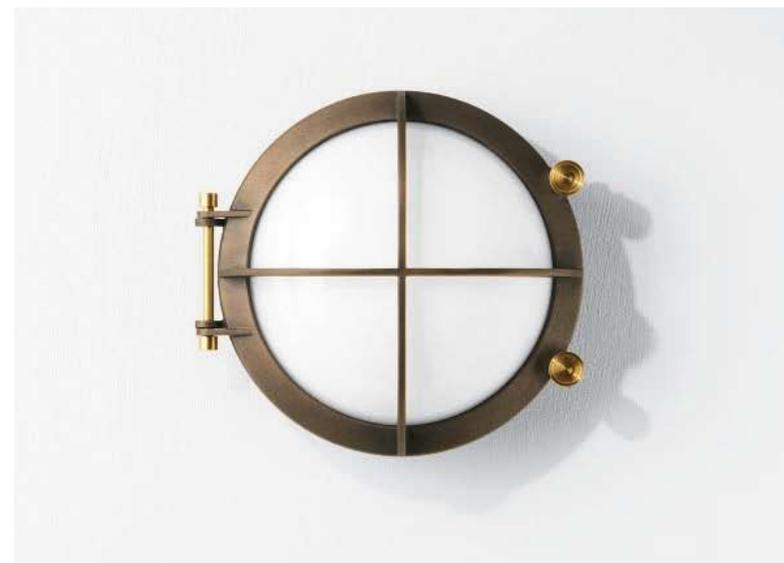
Wall luminaires · **shielded**

		Base	Lamp		Lumen	A	B	C
B 1281	General service lamp	E 27	1 A 60	60 W	710	215	200	160
B 1285	Fluorescent or general service lamp	E 27	1 TC-TSE	20 W	1230	275	260	135
		E 27	1 A 60	100 W	1340	275	260	135
B 1283	Fluorescent lamp	GX 24 d-2	1 TC-T	18 W	1200	215	200	160
B 1287	Fluorescent lamp	GX 24 d-3	1 TC-T	26 W	1800	275	260	135



Wall luminaires · **unshielded**

		Base	Lamp		Lumen	A	B	C
B 1280	General service lamp	E 27	1 A 60	60 W	710	215	200	160
B 1284	Fluorescent or general service lamp	E 27	1 TC-TSE	20 W	1230	275	260	135
		E 27	1 A 60	100 W	1340	275	260	135
B 1282	Fluorescent lamp	GX 24 d-2	1 TC-T	18 W	1200	215	200	160
B 1286	Fluorescent lamp	GX 24 d-3	1 TC-T	26 W	1800	275	260	135



Wall luminaires made of die cast bronze · shielded or unshielded



Impact-resistant wall luminaires made of die cast bronze. Available in two sizes, they are designed for fluorescent lamps or general service lamps. Dust-proof and jet-proof, the luminaires can be used for applications where a high level of robustness and corrosion-resistance is required. The life of these luminaires with their die cast bronze housing is practically unlimited unless they are wantonly destroyed. The luminaires are imitations of maritime portholes. Their technology and design is similar to the luminaires on page 10. They can, however, only be opened with tools. We recommend the luminaires shown here for applications in public areas.





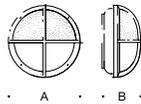
Wall luminaires
Protection class IP 65

Luminaires with:

- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60
- lamp base GX 24 d for fluorescent lamps TC-T

Our lamp table with information on manufacturers is given on pages 164 -165.

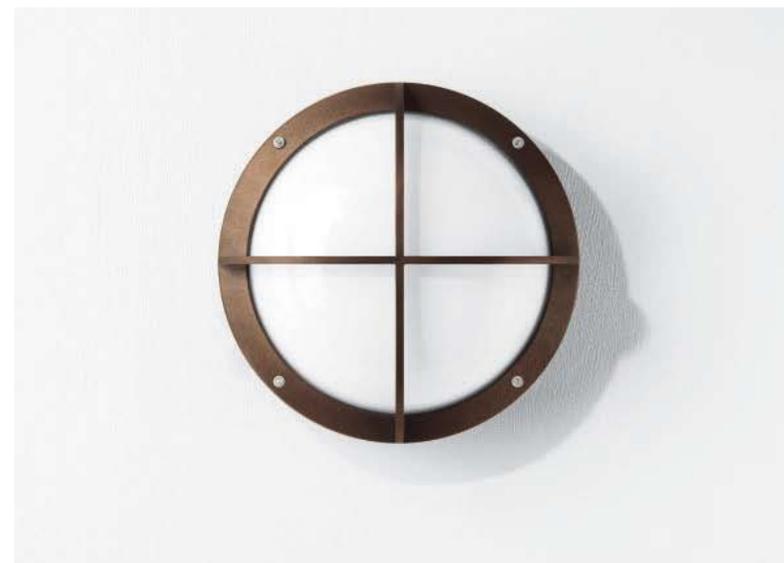
Crystal glass with optical texture, white inside
Die cast bronze and stainless steel



Wall luminaires · shielded						
		Base	Lamp	Lumen	A	B
B 1292	Fluorescent or	E 27	1 TC-TSE	11 W	660	210 120
	general service lamp	E 27	1 A 60	60 W	710	210 120
B 1291	Fluorescent or	E 27	1 TC-TSE	20 W	1230	265 135
	general service lamp	E 27	1 A 60	100 W	1340	265 135
B 1294	Fluorescent lamp	GX 24 d-2	1 TC-T	13 W	900	210 120
B 1293	Fluorescent lamp	GX 24 d-3	1 TC-T	26 W	1800	265 135



Wall luminaires · unshielded						
		Base	Lamp	Lumen	A	B
B 1296	Fluorescent or	E 27	1 TC-TSE	11 W	660	210 120
	general service lamp	E 27	1 A 60	60 W	710	210 120
B 1295	Fluorescent or	E 27	1 TC-TSE	20 W	1230	265 135
	general service lamp	E 27	1 A 60	100 W	1340	265 135
B 1298	Fluorescent lamp	GX 24 d-1	1 TC-T	13 W	900	210 120
B 1297	Fluorescent lamp	GX 24 d-3	1 TC-T	26 W	1800	265 135



Wall luminaires made of die cast bronze · shielded



Impact-resistant wall luminaires made of die cast bronze. Shielded luminaires for fluorescent lamps or general service lamps. Dust-proof and jet-proof – they are suitable for applications wherever luminaires need to be highly robust and resistant to corrosion. The life of these luminaires with their die cast bronze housing is practically unlimited unless they are wantonly destroyed. Arranged singly or in rows and groups – they are robust and perfect architectural elements – both indoors and outdoors.





Wall luminaires
Protection class IP 65

Luminaires with:

- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60
- lamp base G 24 d-2 for fluorescent lamps TC-D

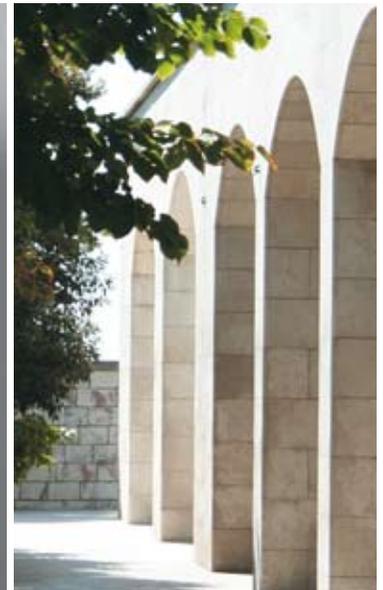
Our lamp table with information on manufacturers is given on pages 164 -165.

Crystal glass with optical texture, white inside
Die cast bronze and stainless steel



		Base	Lamp		Lumen	A	B	C
B 1357	Fluorescent or	E 27	1 TC-TSE	15 W	900	285	145	170
	general service lamp	E 27	1 A 60	75 W	935	285	145	170
B 1358	Fluorescent lamp	G 24 d-2	1 TC-D	18 W	1200	285	145	170

Wall washers



Wall washers with symmetrical light distribution to illuminate walls and adjacent ceiling and building constructions, and to illuminate arcades, vaults and colonnades. They are suitable for applications wherever architecture needs to be illuminated by reflecting light from walls and ceilings. Made of copper and die cast bronze, these luminaires are equipped with planar luminaire glass, on which no water can collect. They are robust products of exceptionally high material quality. Classic wall luminaires, their style is reminiscent of bygone epochs, and yet they are equipped with modern lighting technology. Luminaires with a similar shape and lighting characteristics but made of aluminium with an enamel finish in the colour graphite are given on page 96.



Wall washers
Protection class IP 44

Luminaires with:

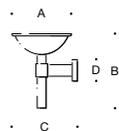
- lamp base R7s for halogen lamps QT-DE 12
- lamp base G 8.5 for discharge lamps HIT-TC-CE

Our lamp table with information on manufacturers is given on pages 164 - 165.

Matt safety glass

Die cast bronze, copper and stainless steel

The luminaires are fixed to the mounting surface by a stainless steel mounting plate.



		Base	Lamp		Lumen	A	B	C	D
B 1516	Halogen lamp	R7s	1 QT-DE 12	200 W	3500	355	460	395	130
B 1535	Discharge lamp	G 8,5	1 HIT-TC-CE	35 W	3400	355	460	395	130



Wall luminaires · unshielded



Unshielded wall luminaires, either for fluorescent lamps or general service lamps.

Hand-blown luminaire glass held by a wall arm made of die cast bronze and copper. A combination of materials in perfect harmony with this classic luminaire shape. Durable metals, full of character – impressive glass.

Luminaires B 1217 and B 1219 are equipped with crystal bubble glass, providing brilliant and expressive light. Luminaires B 1212 and B 1220 are equipped with hand-blown, three-ply opal glass. Their light distribution is pleasantly soft and uniform.

Arranged singly or in rows and groups – they are robust and perfect architectural elements – both for indoors and outdoors.

The wall luminaires on this page have a perfect mounting system. A stainless steel wall plate allows adjustment of the luminaire after installation, and makes it highly resistant to corrosion.



Wall luminaires
Protection class IP 44

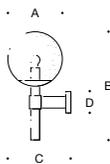
Luminaires with:

- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60 · A 65
- lamp base GX 24 d-3 for fluorescent lamps TC-T

Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown crystal bubble glass or hand-blown opal glass
Die cast bronze, copper and stainless steel

The luminaires are fixed to the mounting surface by a stainless steel mounting plate.

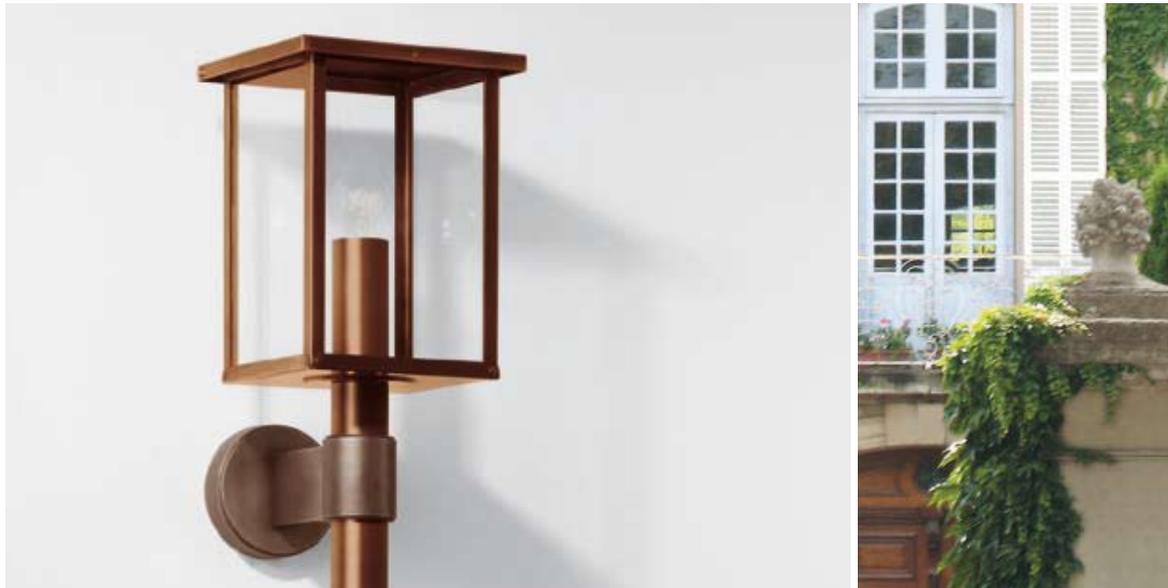


Crystal bubble glass									
		Base	Lamp	Lumen	A	B	C	D	
B 1217	Fluorescent or general service lamp	E 27	1 TC-TSE	11 W	660	250	550	310	130
		E 27	1 A 60	60 W	710	250	550	310	130
B 1219	General service lamp	E 27	1 A 65	150 W	2160	350	680	395	130

Opal glass									
		Base	Lamp	Lumen	A	B	C	D	
B 1212	Fluorescent or general service lamp	E 27	1 TC-TSE	11 W	660	250	550	310	130
		E 27	1 A 60	60 W	710	250	550	310	130
B 1220	Fluorescent lamp	GX 24 d-3	1 TC-T	26 W	1800	350	680	395	130



Wall luminaires · unshielded



Unshielded wall luminaires, either for fluorescent lamps or general service lamps. A lantern that is reminiscent of the charm and craftsmanship of old traditional luminaires. The luminaire body and wall arm are made of copper and die cast bronze with single panes of crystal glass. A combination of materials in perfect harmony with this classic luminaire shape – durable and full of character. Arranged singly around buildings or in groups – they are stylish elements for illuminating doors, gates and entrances. The luminaire top can be opened for convenient relamping.



Wall luminaires
Protection class IP 44

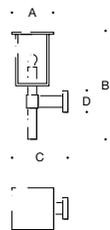
Luminaires with:

- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60
- lamp base G 24 d-1 for fluorescent lamps TC-D

Our lamp table with information on manufacturers is given on pages 164 - 165.

Crystal glass · Copper and die cast bronze

The luminaires are fixed to the mounting surface by a stainless steel mounting plate.



		Base	Lamp		Lumen	A	B	C	D
B 1386	Fluorescent or	E 27	1 TC-TSE	15 W	900	235	650	335	130
	general service lamp	E 27	1 A 60	75 W	935	235	650	335	130
B 1388	Fluorescent lamp	G 24 d-1	1 TC-D	13 W	900	235	650	335	130



Wall luminaires · unshielded



Wall luminaires made of copper and die cast bronze with hand-blown, three-ply opal glass. Luminaires in different sizes and light outputs. Their design makes these luminaires especially suitable for installation on columns, wall pillars and wall faces. They are ideal to illuminate impressive entrances or colonnades, arcades and large wall surfaces, and for a host of lighting applications in interior and exterior design. These luminaires are robust and reliable lighting tools that guarantee their technical function and aesthetic quality for long periods thanks to modern lamp technology.



Wall luminaires
Protection class IP 44

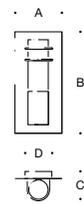
Luminaires with:

- lamp base G 23 for fluorescent lamps TC-S
- lamp base G 24 d-3 for fluorescent lamps TC-D

Our lamp table with information on manufacturers is given on pages 164 -165.

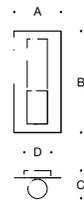
Hand-blown opal glass with thread
Copper, die cast bronze and brass

The luminaires are fixed to the mounting surface by a stainless steel mounting plate.



Wall luminaires with protective brackets

		Base	Lamp		Lumen	A	B	C	D
B 1274	Fluorescent lamp	G 23	1 TC-S	11 W	900	170	360	115	90
B 1275	Fluorescent lamp	G 24 d-3	1 TC-D	26 W	1800	220	570	165	150



Wall luminaires

		Base	Lamp		Lumen	A	B	C	D
B 1272	Fluorescent lamp	G 23	1 TC-S	11 W	900	170	360	100	90
B 1273	Fluorescent lamp	G 24 d-3	1 TC-D	26 W	1800	220	570	150	150



Unshielded wall luminaires and pillar luminaires



Unshielded wall luminaires and pillar luminaires in different sizes.

They are designed for fluorescent lamps or general service lamps. The hand-blown, three-ply opal glass distributes the light softly and uniformly. Matching garden luminaires are given on page 74. They are ideal for illuminating impressive entrances, arcades, colonnades and wall surfaces, and for a host of other applications.

The striking, clear shape and quality of the materials make these luminaires effective and lasting design elements in architecture. Luminaires with a similar shape and lighting characteristics but made of aluminium with an enamel finish in the colour graphite are given on page 90.



Page 74



Wall luminaires Protection class IP 44
 Pillar luminaires Protection class IP 65

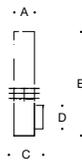
Luminaires with:

- lamp base E 14 for fluorescent lamps TC-DSE · TC-TSE or general service lamps C 35
- lamp base 2 G 11 for fluorescent lamps TC-L

Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown opal glass with thread · Copper and brass

The luminaires are fixed to the mounting surface by a stainless steel mounting plate.



Wall luminaires									
		Base	Lamp	Lumen	A	B	C	D	
B 1224	Fluorescent or	E 14	1 TC-DSE	7 W	400	95	240	115	80
	general service lamp	E 14	1 C 35	40 W	400	95	240	115	80
B 1227	Fluorescent or	E 14	1 TC-TSE	11 W	660	120	410	135	90
	general service lamp	E 14	1 C 35	60 W	660	120	410	135	90
B 1261	Fluorescent lamp	2 G 11	1 TC-L	36 W	2900	160	645	170	110



Pillar luminaires								
		Base	Lamp	Lumen	A	B	C	
B 1407	Fluorescent or	E 14	1 TC-TSE	11 W	660	120	470	135
	general service lamp	E 14	1 C 35	60 W	660	120	470	135
B 1514	Fluorescent lamp	2 G 11	1 TC-L	36 W	2900	160	705	180



Unshielded wall luminaires and pillar luminaires

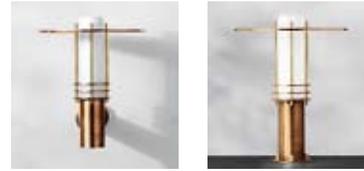


A series of wall luminaires, pillar luminaires and pole-top luminaires – matching pole-top luminaires are given on page 88.

Unshielded luminaires providing symmetrical light distribution. They are available in two sizes and different light outputs for fluorescent lamps or general service lamps.

The luminaire housing is made of copper and brass. The hand-blown three-ply opal glass distributes the light in a pleasantly soft and uniform way.





Wall luminaires Protection class IP 44
 Pillar luminaires Protection class IP 65

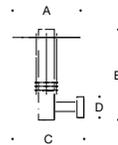
Luminaires with:

- lamp base E 14 for fluorescent lamps TC-TSE or general service lamps C 35
- lamp base 2 G 11 for fluorescent lamps TC-L

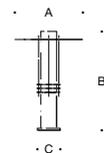
Our lamp table with information on manufacturers is given on pages 164 - 165.

Hand-blown opal glass with thread
 Copper and brass

The luminaires are fixed to the mounting surface by a stainless steel mounting plate.



Wall luminaires									
		Base	Lamp	Lumen	A	B	C	D	
B 1299	Fluorescent or	E 14	1 TC-TSE	11 W	660	350	410	385	110
	general service lamp	E 14	1 C 35	60 W	660	350	410	385	110
B 1649	Fluorescent lamp	2 G 11	1 TC-L	36 W	2900	450	645	500	150



Pillar luminaires								
		Base	Lamp	Lumen	A	B	C	
B 1600	Fluorescent or	E 14	1 TC-TSE	11 W	660	350	470	135
	general service lamp	E 14	1 C 35	60 W	660	350	470	135
B 1519	Fluorescent lamp	2 G 11	1 TC-L	36 W	2900	450	705	180



Unshielded wall luminaires and pillar luminaires
» Copenhagen «



A series of wall luminaires, pillar luminaires and pole-top luminaires. The pole-top luminaires are given on page 156. These luminaires of different sizes, types of glass and light outputs are designed for fluorescent lamps or general service lamps. Information on lamps, light outputs and types of glass is given in the tables. The luminaires for fluorescent lamps TC-TEL are equipped with electronic ballasts. These luminaires can be fitted with either 26 · 32 · 42 W lamps.



Crystal glass Opal glass



Page 156





B 1369



B 1367 · B 1352



Wall luminaires and pillar luminaires
Protection class IP 23

Luminaires with:

- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60 · A 65
- lamp base GX 24 q-3/4 for fluorescent lamps TC-TEL

Our lamp table with information on manufacturers is given on pages 164 -165.

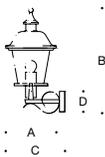
Hand-blown crystal glass or opal glass

Luminaire top made of copper

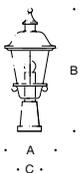
Fitting made of die cast aluminium and aluminium

Enamel finish, colour graphite

B 1352 · B 1640 with electronic ballast



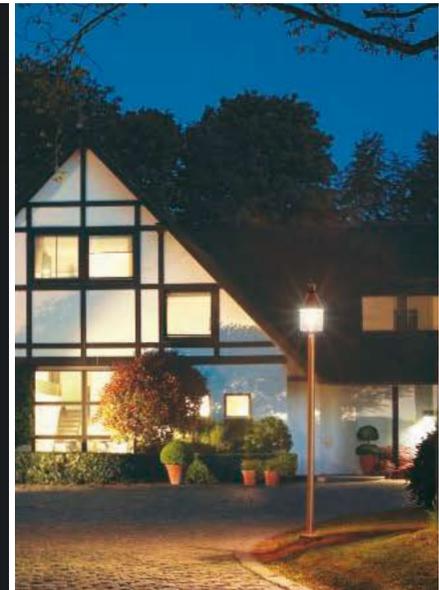
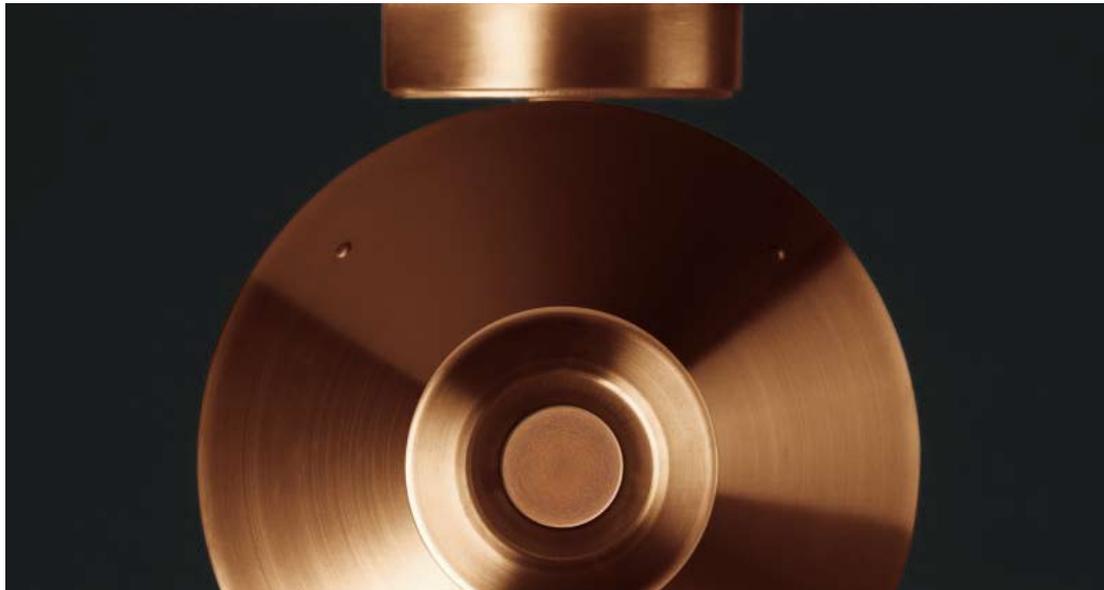
Wall luminaires										
		Base	Lamp	Lumen	A	B	C	D	Type of glass	
B 1369	Fluorescent or	E 27	1 TC-TSE	20 W	1230	275	570	320	110	Crystal
	general service lamp	E 27	1 A 60	100 W	1340	275	570	320	110	Crystal
B 1367	General service lamp	E 27	1 A 65	150 W	2160	360	840	530	130	Crystal
B 1352	Fluorescent lamp	GX 24 q-3/4	1 TC-TEL	42 W	3200	360	840	530	130	Opal



Pillar luminaires									
		Base	Lamp	Lumen	A	B	C		Type of glass
B 1657	Fluorescent or	E 27	1 TC-TSE	20 W	1230	275	670	130	Crystal
	general service lamp	E 27	1 A 60	100 W	1340	275	670	130	Crystal
B 1650	General service lamp	E 27	1 A 65	150 W	2160	360	1030	150	Crystal
B 1640	Fluorescent lamp	GX 24 q-3/4	1 TC-TEL	42 W	3200	360	1030	150	Opal



Unshielded wall luminaires and pillar luminaires



Pole-top luminaires, page 84

A series of wall luminaires, pillar luminaires and pole-top luminaires.

Matching pole-top luminaires are given on page 84.

Unshielded luminaires with lamp base E 27 for fluorescent lamps TC-TSE or general service lamps.

These luminaires are made of copper, die cast brass and hand-blown crystal bubble glass. Crystal bubble glass with its countless air inclusions is both impressive and strikingly expressive. It gives the impression of a continuous rain of luminous pearls falling from the luminaire, a joy to the eye and heart.

The shape of these luminaires is defined by their design craftsmanship.

The production quality and materials used make them impressive and durable lighting tools.



Wall luminaires and pillar luminaires
Protection class IP 23

Luminaires with:

- lamp base E 27 either for fluorescent lamps TC-TSE or general service lamps A 60 · A 65

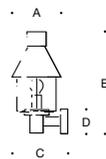
Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown crystal bubble glass

Copper and die cast brass

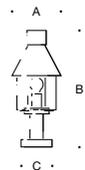
The luminaires are fixed to the mounting surface by a stainless steel mounting plate.

Pillar luminaires have a die cast bronze base plate.



Wall luminaires

		Base	Lamp		Lumen	A	B	C	D
B 1441	Fluorescent or	E 27	1 TC-TSE	20 W	1230	210	450	240	110
	general service lamp	E 27	1 A 60	100 W	1340	210	450	240	110
B 1323	General service lamp	E 27	1 A 65	150 W	2160	250	530	285	110



Pillar luminaires

		Base	Lamp		Lumen	A	B	C
B 1570	Fluorescent or	E 27	1 TC-TSE	20 W	1230	210	520	130
	general service lamp	E 27	1 A 60	100 W	1340	210	520	130
B 1623	General service lamp	E 27	1 A 65	150 W	2160	250	710	150



Unshielded wall luminaires, pillar luminaires and pendant luminaires



Wall luminaires, pillar luminaires Protection class IP 44
Pendant luminaire Protection class IP 20

Luminaires with:

- lamp base E 27 either for fluorescent lamps TC-TSE or general service lamps A 60

Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown crystal bubble glass
Copper, die cast brass and brass

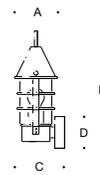
The luminaires are fixed to the mounting surface by a stainless steel mounting plate.

Pillar luminaires have a die cast bronze base plate.
Pendant luminaire with chain pendant and canopy.

A comprehensive luminaire series comprising wall, pillar, pendant and pole-top luminaires. Matching pole-top luminaires are given on page 86. Unshielded luminaires with lamp base E 27 for fluorescent lamps TC-TSE or general service lamps. Luminaires made of copper, die cast brass, brass and hand-blown crystal bubble glass. Crystal bubble glass with its countless air inclusions is both impressive and strikingly expressive. The glass is unique – the number, frequency and size of the striking air inclusions are determined by the skilled craftsmanship of our glassmakers. These fascinating luminaires are characterized by their craftsmanship, the quality of the materials and their timeless beauty.



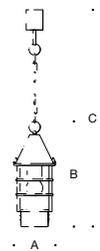
Page 86



Wall luminaires									
		Base	Lamp	Lumen	A	B	C	D	
B 1382	Fluorescent or	E 27	1 TC-TSE	15 W	900	150	415	175	110
	general service lamp	E 27	1 A 60	75 W	935	150	415	175	110
B 1406	Fluorescent or	E 27	1 TC-TSE	20 W	1230	210	520	240	110
	general service lamp	E 27	1 A 60	100 W	1340	210	520	240	110



Pillar luminaires								
		Base	Lamp	Lumen	A	B	C	
B 1667	Fluorescent or	E 27	1 TC-TSE	15 W	900	150	535	130
	general service lamp	E 27	1 A 60	75 W	935	150	535	130
B 1687	Fluorescent or	E 27	1 TC-TSE	20 W	1230	210	660	150
	general service lamp	E 27	1 A 60	100 W	1340	210	660	150



Pendant luminaire								
		Base	Lamp	Lumen	A	B	C	
B 1070	Fluorescent or	E 27	1 TC-TSE	11 W	660	150	335	1600
	general service lamp	E 27	1 A 60	60 W	710	150	335	1600



Unshielded wall luminaires, pillar luminaires and pendant luminaires



Wall luminaire, pillar luminaire Protection class IP 44
Pendant luminaire Protection class IP 20

Luminaires with:

- lamp base E 27 either for fluorescent lamps TC-TSE or general service lamps A 60

Our lamp table with information on manufacturers is given on pages 164 -165.

Cylindrical lens made of crystal glass

Copper · Brass guard

The luminaires are fixed to the mounting surface by a stainless steel mounting plate.

Pendant luminaire with chain pendant and canopy.

A comprehensive luminaire series comprising wall, pillar, pendant and garden luminaires.

Matching garden luminaires are given on page 80. Luminaires with lamp base E 27 for fluorescent lamps TC-TSE or general service lamps.

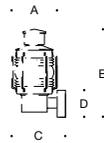
The impressive crystal glass is a defining design element of these luminaires.

We have recreated the optical lenses of historic ship lanterns.

The light from the luminaires is as vivid as the material. Copper forms its own protective coating and develops its distinctive character only when enhanced by its resulting patina. Durability and beauty are attributes which have characterized this material for centuries.

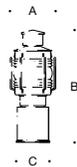


Page 80



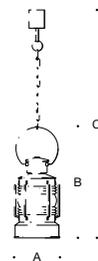
Wall luminaire

		Base	Lamp	Lumen	A	B	C	D
B 1019	Fluorescent or	E 27	1 TC-TSE 20 W	1230	180	345	210	110
	general service lamp	E 27	1 A 60 100 W	1340	180	345	210	110



Pillar luminaire

		Base	Lamp	Lumen	A	B	C
B 1020	Fluorescent or	E 27	1 TC-TSE 20 W	1230	180	430	130
	general service lamp	E 27	1 A 60 100 W	1340	180	430	130



Pendant luminaire

		Base	Lamp	Lumen	A	B	C
B 1021	Fluorescent or	E 27	1 TC-TSE 15 W	900	180	440	1600
	general service lamp	E 27	1 A 60 75 W	935	180	440	1600



Unshielded wall luminaires and pillar luminaires

A series of wall luminaires and pillar luminaires.

Different in size – but similar in design. Luminaires with lamp base E 27 for fluorescent lamps

TC-TSE or general service lamps A 60.

These luminaires are defined by heavy, hand-blown crystal glass. Glass and copper top become one during the impressive glassmaking process. The strong relationship between copper and glass is further intensified as both are melted in the glow of the fire. The unique colouring of the copper achieved during this process is retained unchanged, and accentuates the distinctive character of these luminaires.



The wall luminaires shown here have a perfect mounting system. A stainless steel wall plate allows adjustment of the luminaire after installation, and makes it highly resistant to corrosion.



B 1010



B 1009



B 1664



B 1011



Wall luminaires and pillar luminaires
Protection class IP 44

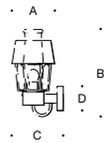
Luminaires with:

- lamp base E 27 either for fluorescent lamps TC-TSE or general service lamps A 60

Our lamp table with information on manufacturers is given on pages 164 -165.

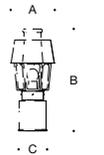
Hand-blown crystal glass
Copper and die cast brass

The luminaires are fixed to the mounting surface by a stainless steel mounting plate.



Wall luminaires

		Base	Lamp	Lumen	A	B	C	D	
B 1010	Fluorescent or	E 27	1 TC-TSE	20 W	1230	220	350	245	110
	general service lamp	E 27	1 A 60	100 W	1340	220	350	245	110
B 1009	Fluorescent or	E 27	1 TC-TSE	20 W	1230	220	430	245	110
	general service lamp	E 27	1 A 60	100 W	1340	220	430	245	110



Pillar luminaires

		Base	Lamp	Lumen	A	B	C	
B 1664	Fluorescent or	E 27	1 TC-TSE	20 W	1230	220	420	130
	general service lamp	E 27	1 A 60	100 W	1340	220	420	130
B 1011	Fluorescent or	E 27	1 TC-TSE	20 W	1230	220	490	130
	general service lamp	E 27	1 A 60	100 W	1340	220	490	130



Unshielded wall luminaires and pillar luminaires

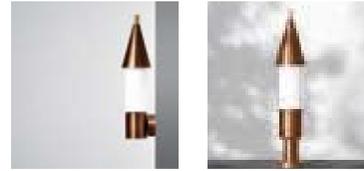


A luminaire series comprising wall luminaires and pillar luminaires – for fluorescent lamps or general service lamps. Unshielded luminaires made of copper, brass, die cast bronze and hand-blown, three-ply opal glass.

Different sizes and light outputs make these luminaires versatile light objects. They are discreetly elegant, classic in shape, and harmonize well with their surroundings – natural, innovative and durable.

Luminaires with a similar shape and lighting characteristics but made of aluminium with an enamel finish in the colour graphite are given on page 92.





Wall luminaires and pillar luminaires
Protection class IP 44

Luminaires with:

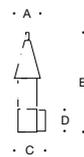
- lamp base E 14 for fluorescent lamps TC-DSE or general service lamps C 35
- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60
- lamp base 2 G 11 for fluorescent lamps TC-L

Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown opal glass with thread · Copper and brass

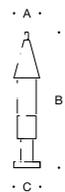
The luminaires are fixed to the mounting surface by a stainless steel mounting plate.

Pillar luminaires have a die cast bronze base plate.



Wall luminaires

		Base	Lamp	Lumen	A	B	C	D	
B 1255	Fluorescent or	E 14	1 TC-DSE	7 W	400	95	375	100	75
	general service lamp	E 14	1 C 35	40 W	400	95	375	100	75
B 1211	Fluorescent or	E 27	1 TC-TSE	11 W	660	130	530	145	90
	general service lamp	E 27	1 A 60	60 W	710	130	530	145	90
B 1257	Fluorescent lamp	2 G 11	1 TC-L	24 W	1800	185	750	195	110



Pillar luminaires

		Base	Lamp	Lumen	A	B	C	
B 1432	Fluorescent or	E 27	1 TC-TSE	11 W	660	130	675	130
	general service lamp	E 27	1 A 60	60 W	710	130	675	130
B 1510	Fluorescent lamp	2 G 11	1 TC-L	24 W	1800	185	915	150



Wall luminaires and pillar luminaires



A luminaire series comprising wall luminaires, pillar luminaires and garden luminaires. Matching garden luminaires are given on page 82.

Unshielded luminaires made of copper, die cast bronze and hand-blown crystal bubble glass.

Different sizes and light outputs make these luminaires suitable for a host of applications.

Luminaires for private house entrances, for small and large gardens and wherever atmospheric lighting is required.

The light from the luminaires is as vivid as the material. Copper forms its own protective coating and develops its distinctive character when enhanced by its resulting patina. Durability and beauty are attributes which have characterized this material for centuries.



Garden luminaires, page 82



Wall luminaires and pillar luminaires
Protection class IP 44

Luminaires with:

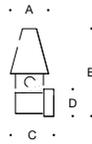
- lamp base E 27 for general service lamps A 60

If the luminaires are to be operated with energy-saving lamps instead of general service lamps, we recommend using halogen lamps type QA. Our lamp table with information on manufacturers is given on pages 164 -165.

Crystal bubble glass with thread · Copper

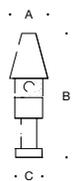
The luminaires are fixed to the mounting surface by a stainless steel mounting plate.

Pillar luminaires have a die cast bronze base plate.



Wall luminaires

		Base	Lamp	Lumen	A	B	C	D
B 1258	General service lamp	E 27	1 A 60 60 W	710	130	300	145	90
B 1259	General service lamp	E 27	1 A 60 75 W	935	185	425	190	110



Pillar luminaires

		Base	Lamp	Lumen	A	B	C
B 1511	General service lamp	E 27	1 A 60 60 W	710	130	425	130
B 1512	General service lamp	E 27	1 A 60 75 W	935	185	585	150



Shielded wall luminaires



A luminaire series of wall luminaires and garden luminaires – for fluorescent lamps or general service lamps. Matching garden luminaires are given on page 70. Shielded luminaires made of copper with hand-blown, three-ply opal glass. Luminaires for houses, courtyards and gardens – wherever atmospheric lighting is required. These luminaires are shielded to the top, creating a pleasant atmosphere with their soft light.



Garden luminaires, page 70

Wall luminaires
Protection class IP 44

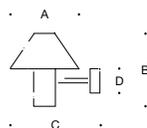
Luminaires with:

- lamp base E 14 for fluorescent lamps TC-DSE or general service lamps D 45
- lamp base G 24 d-1 for fluorescent lamps TC-D

Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown opal glass with thread · Copper

The luminaires are fixed to the mounting surface by a stainless steel mounting plate.



		Base	Lamp		Lumen	A	B	C	D
B 1253	Fluorescent or	E 14	1 TC-DSE	7 W	400	220	235	320	75
	general service lamp	E 14	1 D 45	40 W	400	220	235	320	75
B 1254	Fluorescent lamp	G 24 d-1	1 TC-D	10 W	600	220	235	320	75



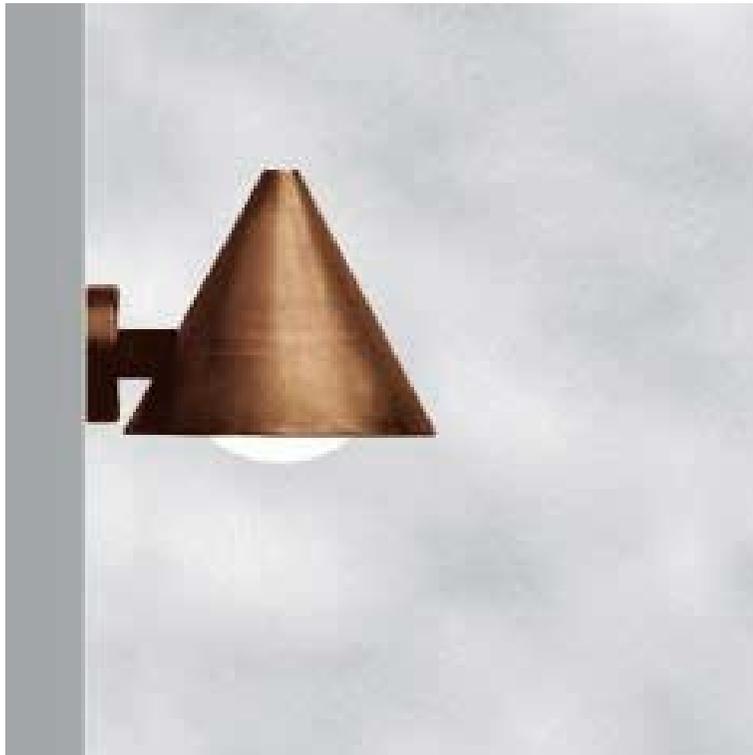
Wall luminaires and pendant luminaires

Luminaires with lamp base E 27 for fluorescent lamps TC-TSE or for general service lamps.

A luminaire series comprising wall luminaires, pendant luminaires and garden luminaires. Matching garden luminaires are given on page 72.

Shielded luminaires made of copper and hand-blown, three-ply opal glass, available in different sizes and light outputs.

Luminaires for house entrances, terraces and outdoor seating areas, wherever atmospheric lighting is required. They are designed for both indoors and outdoors, creating a pleasant atmosphere with their soft light.



Wall luminaires Protection class IP 44

Pendant luminaire Protection class IP 20

Luminaires with:

- lamp base E 27 either for fluorescent lamps TC-TSE or general service lamps A 60

Our lamp table with information on manufacturers is given on pages 164 - 165.

Hand-blown opal glass with thread

Copper and cast brass

The wall luminaires are fixed to the mounting surface by a stainless steel mounting plate.

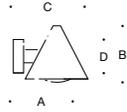
Pendant luminaire with canopy made of copper.



The wall luminaires shown here have a perfect mounting system. A stainless steel wall plate allows adjustment of the luminaire after installation, and makes it highly resistant to corrosion.



Page 72



Wall luminaires

		Base	Lamp	Lumen	A	B	C	D
B 1472	Fluorescent or	E 27	1 TC-TSE 11 W	660	210	185	240	110
	general service lamp	E 27	1 A 60 60 W	710	210	185	240	110
B 1473	Fluorescent or	E 27	1 TC-TSE 15 W	900	250	225	285	110
	general service lamp	E 27	1 A 60 75 W	935	250	225	285	110



Pendant luminaire

		Base	Lamp	Lumen	A	B	C
B 1073	Fluorescent or	E 27	1 TC-TSE 11 W	660	250	225	1500
	general service lamp	E 27	1 A 60 60 W	710	250	225	1500



Wall luminaires



Luminaires with lamp base E 14 for general service lamps or with lamp base E 27 for fluorescent lamps TC-TSE or general service lamps.

The shape of the lantern is unmatched in its diversity. Originally intended to illuminate houses and courtyards, its shape was clearly determined by function. The luminaires on pages 46-49 aim to continue this tradition.

The wall luminaires shown here direct their light primarily downwards. They are ideal for illuminating areas directly below the installation surface.

The luminaires on page 48 have a predefined light direction. They are particularly suitable for areas in front of the installation surface.

Copper with its vivid surface accentuates the special character of these luminaires. Luminaires designed for houses and courtyards, alongside and over doors, and for a host of other lighting applications.



Page 62

Wall luminaires
Protection class IP 44

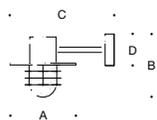
Luminaires with:

- lamp base E 14 for general service lamps D 45
- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60

Our lamp table with information on manufacturers is given on pages 164 -165.

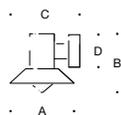
Hand-blown crystal bubble glass with thread
or hand-blown opal glass with thread
Copper and brass

The luminaires are fixed to the mounting surface by a stainless steel mounting plate.



Crystal bubble glass + louvres

		Base	Lamp	Lumen	A	B	C	D
B 1354	Fluorescent or	E 27	1 TC-TSE 11 W	660	235	225	370	110
	general service lamp	E 27	1 A 60 60 W	710	235	225	370	110



Opal glass

		Base	Lamp	Lumen	A	B	C	D
B 1262	General service lamp	E 14	1 D 45 40 W	400	180	165	200	90
B 1263	Fluorescent or	E 27	1 TC-TSE 11 W	660	260	205	280	110
	general service lamp	E 27	1 A 60 60 W	710	260	205	280	110



Wall luminaires with directed light



Luminaires with lamp base E 14 and E 27 for fluorescent lamps or general service lamps. The shape of the lantern is unmatched in its diversity. Originally intended to illuminate houses and courtyards, its shape was clearly determined by function. The luminaires on pages 46 - 49 continue this tradition.

The wall luminaires on page 46 direct their light primarily downwards. They are ideal for illuminating areas directly below the installation surface.

The wall luminaires on this double page have a predefined light direction. They are particularly suitable for illuminating areas in front of the installation surface.

Copper with its vivid surface accentuates the special character of these luminaires. Stylish light objects designed for houses and courtyards, alongside and over doors, and for a host of other lighting applications.

Luminaires with a similar shape and lighting characteristics but made of aluminium with an enamel finish in the colour graphite are given on page 108.





Wall luminaires
Protection class IP 44

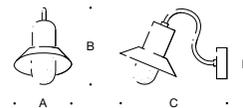
Luminaires with:

- lamp base E 14 for fluorescent lamps TC-DSE or general service lamps C 35
- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60

Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown crystal bubble glass with thread · Copper

The luminaires are fixed to the mounting surface by a stainless steel mounting plate.



		Base	Lamp		Lumen	A	B	C	D
B 1152	Fluorescent or	E 14	1 TC-DSE	7 W	400	180	245	320	90
	general service lamp	E 14	1 C 35	40 W	400	180	245	320	90
B 1153	Fluorescent or	E 27	1 TC-TSE	11 W	660	260	300	425	110
	general service lamp	E 27	1 A 60	60 W	710	260	300	425	110

Wall luminaires · shielded

These luminaires are designed for fluorescent lamps and general service lamps. They are made of copper and hand-blown, three-ply opal glass and shielded to the front or top.

The luminaires on page 50 shield the light to the top. Surfaces and building details above the luminaire remain largely unlit while primarily the surface below the luminaire is illuminated.

The luminaires on page 51 shield the light to the front, and use the reflection of the installation surface to distribute the light softly and uniformly. Wall luminaires for house entrances, stairways and terraces which create glarefree, pleasant atmospheric lighting, both indoors and outdoors.



Wall luminaires
Protection class IP 64

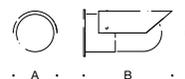
Luminaires with:

- lamp base E 14 for general service lamps D 45
- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60

Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown opal glass with thread · Copper

The luminaires have stainless steel support points on the mounting surface.



		Base	Lamp		Lumen	A	B	C
B 1481	General service lamp	E 14	1 D 45	40 W	400	90	185	90
B 1478	Fluorescent or general service lamp	E 27	1 TC-TSE	11 W	660	115	230	120
		E 27	1 A 60	60 W	710	115	230	120
B 1479	Fluorescent or general service lamp	E 27	1 TC-TSE	15 W	900	130	260	140
		E 27	1 A 60	75 W	935	130	260	140
B 1487	Fluorescent or general service lamp	E 27	1 TC-TSE	20 W	1230	150	295	160
		E 27	1 A 60	100 W	1340	150	295	160

Wall luminaires

Protection class IP 44

Luminaires with:

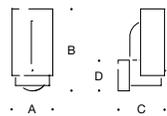
- lamp base E 14 for fluorescent lamps TC-DSE or general service lamps D 45
- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60
- lamp base G 24 d-2 for general service lamps TC-D

Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown opal glass with thread · Copper

The luminaires are fixed to the mounting surface by a stainless steel mounting plate.

Luminaires with a similar shape and lighting characteristics but made of aluminium are given on page 104.



		Base	Lamp		Lumen	A	B	C	D
B 1249	Fluorescent or	E 14	1 TC-DSE	7 W	400	95	230	115	75
	general service lamp	E 14	1 D 45	40 W	400	95	230	115	75
B 1250	Fluorescent or	E 27	1 TC-TSE	11 W	660	120	245	140	90
	general service lamp	E 27	1 A 60	60 W	710	120	245	140	90
B 1248	Fluorescent lamp	G 24 d-2	1 TC-D	18 W	1200	120	320	140	90



Wall luminaires



Luminaires made of copper and brilliant crystal bubble glass, available in single or double configuration.

An annular shield made of copper prevents glare from the luminaires, without affecting the brilliance of the crystal bubble glass. These luminaires are designed for applications around the house, alongside doors, gates and on pillars. The light from the luminaires is as vivid as the material.

Copper forms its own protective coating and develops its distinctive character when enhanced by its resulting patina.

Quality, durability and beauty are attributes which have characterized this material for centuries.





Single or **double** wall luminaires
Protection class IP 44

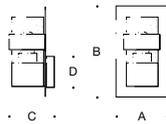
Luminaires with:

- lamp base E 14 for general service lamps D 45
- lamp base E 27 for general service lamps A 60

If the luminaires are to be operated with energy-saving lamps instead of general service lamps, we recommend using halogen lamps type QA. Our lamp table with information on manufacturers is given on pages 164 -165.

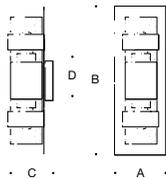
Hand-blown crystal bubble glass with thread · Copper

The luminaires are fixed to the mounting surface by a stainless steel mounting plate.



Single wall luminaires

		Base	Lamp	Lumen	A	B	C	D
B 1222	General service lamp	E 14	1 D 45	40 W 400	115	200	105	90
B 1223	General service lamp	E 27	1 A 60	60 W 710	150	265	135	90



Double wall luminaires

		Base	Lamp	Lumen	A	B	C	D
B 1225	General service lamp	E 14	2 D 45	40 W 800	115	320	105	90
B 1226	General service lamp	E 27	2 A 60	60 W 1420	150	435	135	90



Wall luminaires for light in two directions

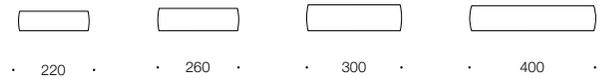


Wall luminaires in four sizes designed for fluorescent lamps or halogen lamps.

These luminaires made of copper and hand-blown, three-ply opal glass are shielded to the front.

The light from the lamps exits in two directions. The wall acts as reflection surface for the soft diffuse light radiating upwards and downwards.

The luminaires are impressive for their extremely pleasant atmospheric lighting and high level of visual comfort. Arranged singly or in groups, they can solve many design and lighting tasks, both indoors and outdoors.



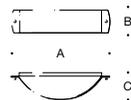
Wall luminaires
Protection class IP 54

Luminaires with:

- lamp base G 9 for halogen lamps QT 14
- lamp base E 27 for halogen lamps QT 32
- lamp base G 24 d for fluorescent lamps TC-D
- lamp base GX 24 d-2 for fluorescent lamps TC-T

Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown opal glass
Copper and brass



		Base	Lamp		Lumen	A	B	C
B 1448	Halogen lamp	G 9	1 QT 14	40 W	460	220	90	95
B 1451	Halogen lamp	E 27	1 QT 32	60 W	790	260	90	115
B 1453	Halogen lamp	E 27	1 QT 32	75 W	1050	300	100	130
B 1455	Halogen lamp	E 27	2 QT 32	60 W	1580	400	100	115
B 1452	Fluorescent lamp	G 24 d-2	1 TC-D	18 W	1200	260	90	115
B 1454	Fluorescent lamp	G 24 d-3	1 TC-D	26 W	1800	300	100	130
B 1456	Fluorescent lamp	GX 24 d-2	2 TC-T	18 W	2400	400	100	115



Wall luminaires for light in two directions



Luminaires available in three sizes, with lamp base E 14 and E 27 for fluorescent lamps TC-TSE and general service lamps. They are made of copper and brilliant, hand-blown crystal bubble glass, and shielded to the front by a copper shield protecting the glass.

The direct and brilliant light from the lamps is radiated upwards and downwards, projecting impressive light graphics onto the wall.

These luminaires produce expressive light. Arranged singly or in groups, they highlight surfaces and vertical architectural details effectively.

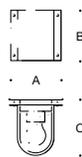
Wall luminaires
Protection class IP 64

Luminaires with:

- lamp base E 14 for general service lamps D 45
- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60

Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown crystal bubble glass with thread
Copper and brass



		Base	Lamp		Lumen	A	B	C
B 1206	General service lamp	E 14	1 D 45	40 W	400	120	120	170
B 1207	Fluorescent or	E 27	1 TC-TSE	11 W	660	160	160	200
	general service lamp	E 27	1 A 60	60 W	710	160	160	200
B 1208	Fluorescent or	E 27	1 TC-TSE	15 W	900	190	190	220
	general service lamp	E 27	1 A 60	75 W	935	190	190	220



Wall luminaires



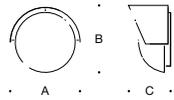
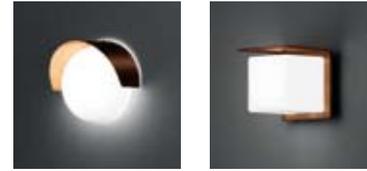
Wall luminaires with lamp base E 27 for fluorescent lamps TC-TSE or for general service lamps. The light from these luminaires made of copper and hand-blown, three-ply opal glass is shielded to the top.

They are robust and reliable lighting tools which retain their aesthetic quality over a long period of time. Classic in shape and discreetly elegant, they harmonize well with their surroundings.

They are suitable for a host of lighting applications in interior and exterior design.

On request, luminaires B 1311 · B 1312 are also available with weatherproof numbers, symbols or lettering. They are designed to allow clear identification of house numbers and signs – by day and night – even from a distance.





Wall luminaires
Protection class IP 44

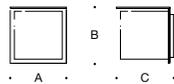
Luminaires with:

- lamp base E 27 either for fluorescent lamps TC-TSE or general service lamps A 60

Our lamp table with information on manufacturers is given on pages 164 - 165.

Hand-blown opal glass · Twist-lock closure
Fitting and shield made of copper

		Base	Lamp		Lumen	A	B	C
B 1470	Fluorescent or	E 27	1 TC-TSE	11 W	660	245	235	140
	general service lamp	E 27	1 A 60	75 W	935	245	235	140



Wall luminaires
Protection class IP 44

Luminaires with:

- lamp base E 27 either for fluorescent lamps TC-TSE or general service lamps A 60

Our lamp table with information on manufacturers is given on pages 164 - 165.

Hand-blown opal glass · Shield made of copper
Fitting made of die cast aluminium, colour graphite

		Base	Lamp		Lumen	A	B	C
B 1311	Fluorescent or	E 27	1 TC-TSE	15 W	900	200	200	210
	general service lamp	E 27	1 A 60	75 W	935	200	200	210
B 1312	Fluorescent or	E 27	1 TC-TSE	20 W	1230	250	250	265
	general service lamp	E 27	1 A 60	100 W	1340	250	250	265



Unshielded wall, ceiling and pillar luminaires



The design of these versatile luminaires makes them suitable for installation as wall, ceiling or pillar luminaires. Matching garden luminaires are given on page 78. Two different versions with a common design idea. Unshielded luminaires made of copper and hand-blown crystal bubble glass. Arranged singly, in rows and groups – they are perfect architectural elements.



Page 78



Wall, ceiling und pillar luminaires
Protection class IP 64

Luminaires with:

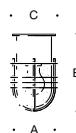
- lamp base E 27 for general service lamps A 60

If the luminaires are to be operated with energy-saving lamps instead of general service lamps, we recommend using halogen lamps type QA. Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown crystal bubble glass with thread
or hand-blown opal glass with thread

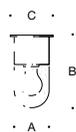
Copper fitting

Louvre made of copper and brass



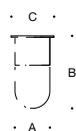
Luminaires with **crystal bubble glass + louvre**

		Base	Lamp	Lumen	A	B	C
B 1180	General service lamp	E 27	1 A 60 60 W	710	130	220	120
B 1181	General service lamp	E 27	1 A 60 100 W	1340	180	285	160



Luminaires with **crystal bubble glass**

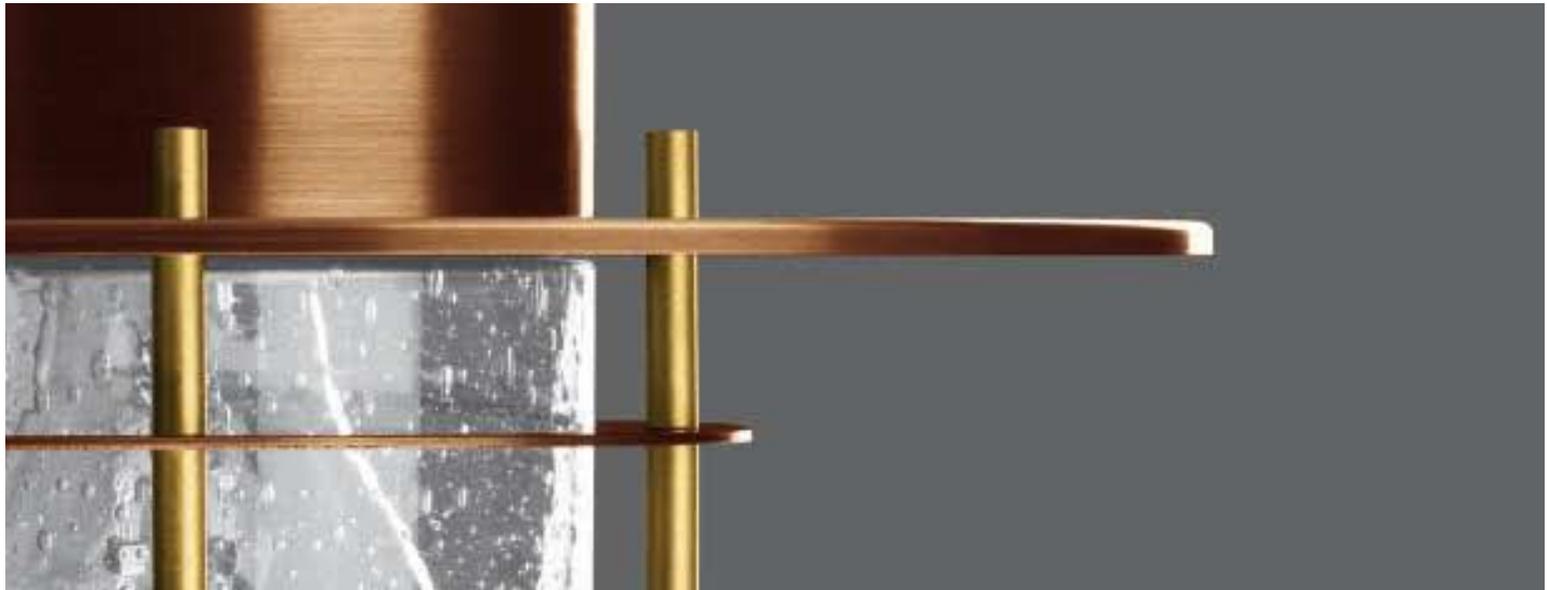
		Base	Lamp	Lumen	A	B	C
B 1160	General service lamp	E 27	1 A 60 60 W	710	95	205	120
B 1162	General service lamp	E 27	1 A 60 100 W	1340	130	265	160



Luminaires with **opal glass**

		Base	Lamp	Lumen	A	B	C
B 1187	Fluorescent lamp	G 24 d-1	1 TC-D 13 W	900	110	235	140
B 1189	Fluorescent lamp	G 24 d-2	1 TC-T 18 W	1200	130	265	160

Ceiling luminaires



Ceiling luminaires for fluorescent lamps or general service lamps. Luminaires with hand-blown crystal bubble glass for brilliant and expressive light. The reflector shields the ceiling and directs the light from the lamps downwards.

These luminaires have a convenient mounting system and electrical plug connection for simple and economic installation.

Page 46



Ceiling luminaires
Protection class IP 64

Luminaires with:

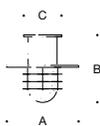
- lamp base E 14 for general service lamps D 45
- lamp base E 27 for general service lamps A 60
- lamp base G 24 d-1 for fluorescent lamps TC-D

If the luminaires are to be operated with energy-saving lamps instead of general service lamps, we recommend using halogen lamps type QA. Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown crystal bubble glass with thread
Copper · Louvre made of copper and brass

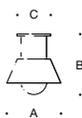
2 cable entries for through-wiring
B 1172 1 cable entry

The luminaires have stainless steel support points on the mounting surface.



Ceiling luminaire with **crystal bubble glass + louvre**

	Base	Lamp	Lumen	A	B	C
B 1179	General service lamp	E 27 1 A 60 60 W	710	235	225	120



Ceiling luminaires with **crystal bubble glass**

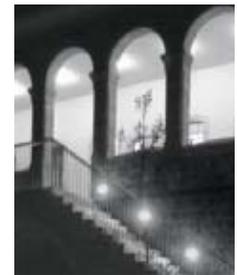
	Base	Lamp	Lumen	A	B	C
B 1172	General service lamp	E 14 1 D 45 40 W	400	150	170	90
B 1173	General service lamp	E 27 1 A 60 60 W	710	195	205	120
B 1174	General service lamp	E 27 1 A 60 75 W	935	220	235	140
B 1175	Fluorescent lamp	G 24 d-1 1 TC-D 13 W	900	220	235	140



Unshielded ceiling and wall luminaires



Ceiling and wall luminaires in different sizes for fluorescent lamps or general service lamps.
These luminaires are made of copper and thick-walled crystal glass.
The luminaire glass is held by reflector rings with quadruple screw connection.
The diverse dimensions and light outputs of the luminaires solve a host of lighting tasks with just one luminaire series.
Classic and yet at the same time modern, these luminaires are also effective design elements.





Ceiling and wall luminaires
Protection class IP 64

Luminaires with:

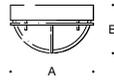
- lamp base E 27 for general service lamps A 60
- lamp base GX 24 d for fluorescent lamps TC-T

Our lamp table with information on manufacturers is given on pages 164-165.

Crystal glass, white inside

Copper and brass

The luminaires have stainless steel support points on the mounting surface.



		Base	Lamp		Lumen	A	B
B 1495	General service lamp	E 27	1 A 60	60 W	710	220	130
B 1497	General service lamp	E 27	1 A 60	75 W	935	280	155
B 1496	Fluorescent lamp	GX 24 d-2	1 TC-T	18 W	1200	220	130
B 1498	Fluorescent lamp	GX 24 d-3	1 TC-T	26 W	1800	280	155



		Base	Lamp		Lumen	A	B
B 1489	General service lamp	E 27	1 A 60	60 W	710	220	120
B 1491	General service lamp	E 27	1 A 60	75 W	935	280	145
B 1490	Fluorescent lamp	GX 24 d-2	1 TC-T	18 W	1200	220	120
B 1492	Fluorescent lamp	GX 24 d-3	1 TC-T	26 W	1800	280	145



Unshielded ceiling and wall luminaires



Ceiling and wall luminaires in different sizes for fluorescent lamps or general service lamps.

Luminaires made of copper and hand-blown, three-ply opal glass.

Two classic, unshielded luminaires that differ in their light effect. The luminaires in the upper group have a wide glare suppression ring. In contrast to the luminaires in the lower group, they direct their light primarily downwards, and hardly illuminate the installation surface.

These luminaires are designed to illuminate arcades and canopies.

Arranged as single luminaires or in rows – they are perfect and economical lighting tools in architecture.

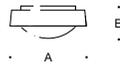
Ceiling and wall luminaires
Protection class IP 44

Luminaires with:

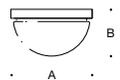
- lamp base E 27 for general service lamps A 60
- lamp base G 24 d for fluorescent lamps TC-D

Our lamp table with information on manufacturers is given on pages 164 - 165.

Hand-blown opal glass with twist-lock closure · Copper



		Base	Lamp	Lumen	A	B
B 1131	General service lamp	E 27	1 A 60 60 W	710	260	110
B 1133	General service lamp	E 27	1 A 60 100 W	1340	300	120
B 1132	Fluorescent lamp	G 24 d-1	1 TC-D 13 W	900	260	110
B 1134	Fluorescent lamp	G 24 d-2	1 TC-D 18 W	1200	300	120



		Base	Lamp	Lumen	A	B
B 1242	General service lamp	E 27	1 A 60 75 W	935	270	155
B 1244	General service lamp	E 27	2 A 60 60 W	1420	320	170
B 1243	Fluorescent lamp	G 24 d-2	1 TC-D 18 W	1200	270	155
B 1245	Fluorescent lamp	G 24 d-1	2 TC-D 13 W	1800	320	170



Ceiling and wall luminaires



High output ceiling and wall luminaires in different sizes for fluorescent lamps or general service lamps. Two luminaire series that differ in their light effect.

The luminaires in the upper group have a wide glare suppression ring, and direct their light primarily downwards. We have designed the fittings so that light is reflected onto the installation surface. This highlights the shallow height of the luminaires to advantage.

The luminaires in the lower group are unshielded and hardly illuminate the installation surface. Both groups are characterized by the perfect interplay of hand-blown opal glass and high-quality copper fittings. They are efficient lighting tools for a host of applications, both indoors and outdoors.

Ceiling and wall luminaires
Protection class IP 44

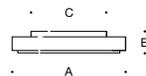
Luminaires with:

- lamp base E 27 for general service lamps A 60
- lamp base GX 24 q-3 for fluorescent lamps TC-TEL
- lamp base G 24 d for fluorescent lamps TC-D

Our lamp table with information on manufacturers is given on pages 164 -165.

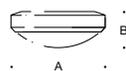
Hand-blown opal glass · Copper fitting

B 1176 · B 1177 · B 1178 with electronic ballast



Satin matt opal glass with twist-lock closure

		Base	Lamp		Lumen	A	B	C
B 1090	General service lamp	E 27	2 A 60	60 W	1420	360	85	265
B 1091	General service lamp	E 27	2 A 60	75 W	1870	420	90	300
B 1092	General service lamp	E 27	3 A 60	60 W	2130	500	100	360
B 1176	Fluorescent lamp	GX 24 q-3	1 TC-TEL	26 W	1750	360	85	265
B 1177	Fluorescent lamp	GX 24 q-3	2 TC-TEL	26 W	3500	420	90	300
B 1178	Fluorescent lamp	GX 24 q-3	2 TC-TEL	32 W	4800	500	100	360

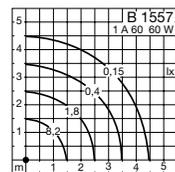
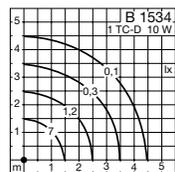
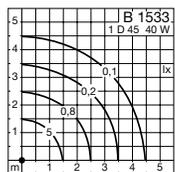


Opal glass with thread

		Base	Lamp		Lumen	A	B
B 1164	General service lamp	E 27	1 A 60	60 W	710	250	90
B 1165	General service lamp	E 27	1 A 60	100 W	1340	300	110
B 1166	General service lamp	E 27	2 A 60	60 W	1420	350	125
B 1167	Fluorescent lamp	G 24 d-1	2 TC-D	13 W	1800	250	90
B 1168	Fluorescent lamp	G 24 d-2	2 TC-D	18 W	2400	300	110
B 1169	Fluorescent lamp	G 24 d-3	2 TC-D	26 W	3600	350	125



Shielded garden luminaires



Shielded garden luminaires for fluorescent lamps or general service lamps.

Matching wall luminaires are given on page 42.

Luminaires made of copper with hand-blown, three-ply opal glass or crystal bubble glass.

The light from the lamp is shielded completely by the top reflector and directed downwards as broad spread light. They are designed to provide glarefree illumination of surfaces from low mounting heights.

These luminaires effectively illuminate pathways, seating areas and flower-beds in the garden, and create pleasant atmospheric lighting.

Copper as a building detail has a long history, rich in tradition. We maintain this tradition – by making luminaires made of copper. They are supplied with their natural metal surface. Copper forms its own protective coating and develops its distinctive character when enhanced by its resulting patina.





Page 42

Garden luminaires
Protection class IP 44

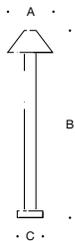
Luminaires with:

- lamp base E 14 for general service lamps D 45
- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60
- lamp base G 24 d-1 for fluorescent lamps TC-D

Our lamp table with information on manufacturers is given on pages 164 -165.

B 1533 · B 1534 Hand-blown opal glass with thread
B 1557 Crystal bubble glass with thread
Copper · Die cast bronze base plate

Equipped with stainless steel mounting plate for bolting to a foundation or anchorage unit. Technical data, page 161.



		Base	Lamp		Lumen	A	B	C	Anch. unit
B 1533	General service lamp	E 14	1 D 45	40 W	400	220	950	130	B 570
B 1534	Fluorescent lamp	G 24 d-1	1 TC-D	10 W	600	220	950	130	B 570
B 1557	Fluorescent or general service lamp	E 27	1 TC-TSE	11 W	660	300	1000	150	B 572
		E 27	1 A 60	60 W	710	300	1000	150	



Garden luminaire with directed light



Garden luminaire with directed light. Matching wall luminaires and pendant luminaires are given on page 44.

Luminaire with lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60.

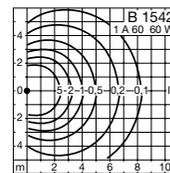
Luminaire made of copper with hand-blown, three-ply opal glass. These luminaires effectively illuminate pathways, steps and seating areas in the garden.

Copper as a building detail has a long history, rich in tradition.

We maintain this tradition – by making luminaires made of copper.

They are supplied with their natural metal surface. Copper forms its own protective coating and develops its distinctive character when enhanced by its resulting patina.

The garden luminaire shown on this page has a perfect mounting system. A stainless steel mounting plate and die cast bronze base plate allow adjustment of the luminaire after installation, and make it highly resistant to corrosion.





Page 44

Garden luminaire
Protection class IP 44

Luminaire with:

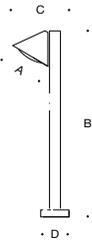
- lamp base E 27 either for fluorescent lamps TC-TSE or general service lamps A 60

Our lamp table with information on manufacturers is given on pages 164 - 165.

Opal glass with thread

Copper and brass · Die cast bronze base plate

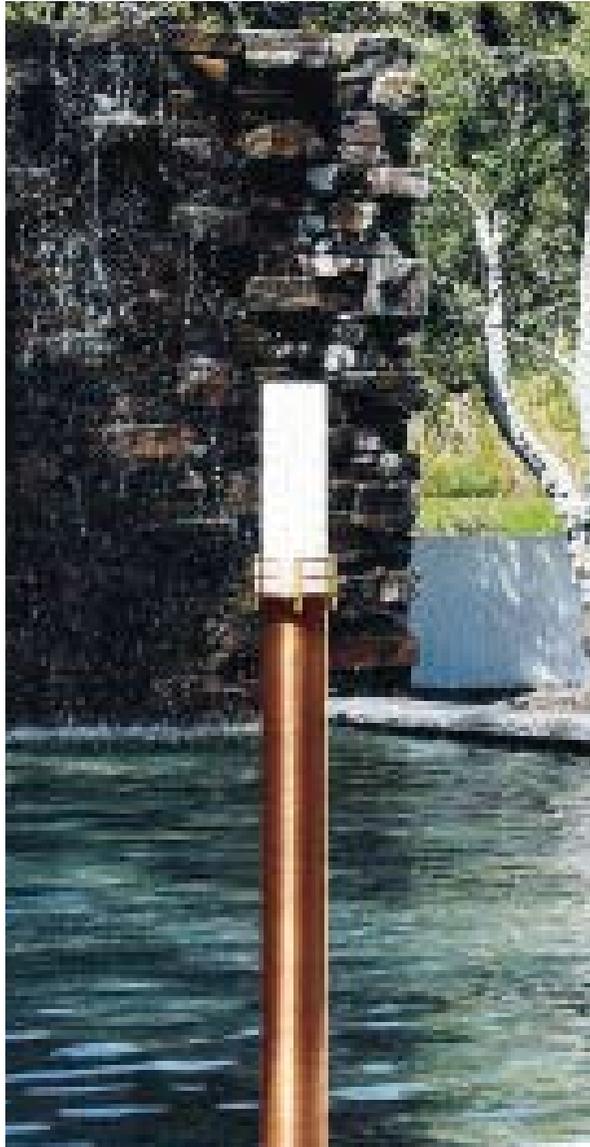
Equipped with stainless steel mounting plate for bolting to a foundation or anchorage unit. Technical data, page 161.



		Base	Lamp	Lumen			A	B	C	D	Anch. unit
B 1542	Fluorescent or	E 27	1 TC-TSE	11 W	660	210	1000	280	150	B 572	
	general service lamp	E 27	1 A 60	60 W	710	210	1000	280	150		



Unshielded garden luminaires



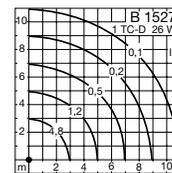
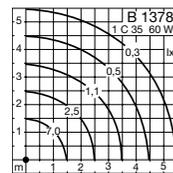
Unshielded garden luminaires in two sizes.

Matching wall luminaires and pillar luminaires are given on page 24.

These luminaires are designed for fluorescent lamps or general service lamps. The hand-blown, three-ply opal glass distributes the light softly and uniformly.

They are designed to illuminate paths, flower-beds and terraces in private areas. These luminaires are ideal in dividing and structuring spaces in a striking way – with light that guides or demarcates. The clear shape and quality of the materials make these luminaires impressive and durable design elements in garden architecture.

The garden luminaires on this page have a perfect mounting system. A stainless steel mounting plate and die cast bronze base plate allow adjustment of the luminaire after installation, and make it highly resistant to corrosion.





Page 24

Garden luminaires
Protection class IP 65

Luminaires with:

- lamp base E 14 for fluorescent lamps TC-DSE or general service lamps C 35
- lamp base G 24 d-3 for fluorescent lamps TC-D

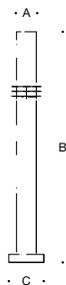
Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown opal glass with thread

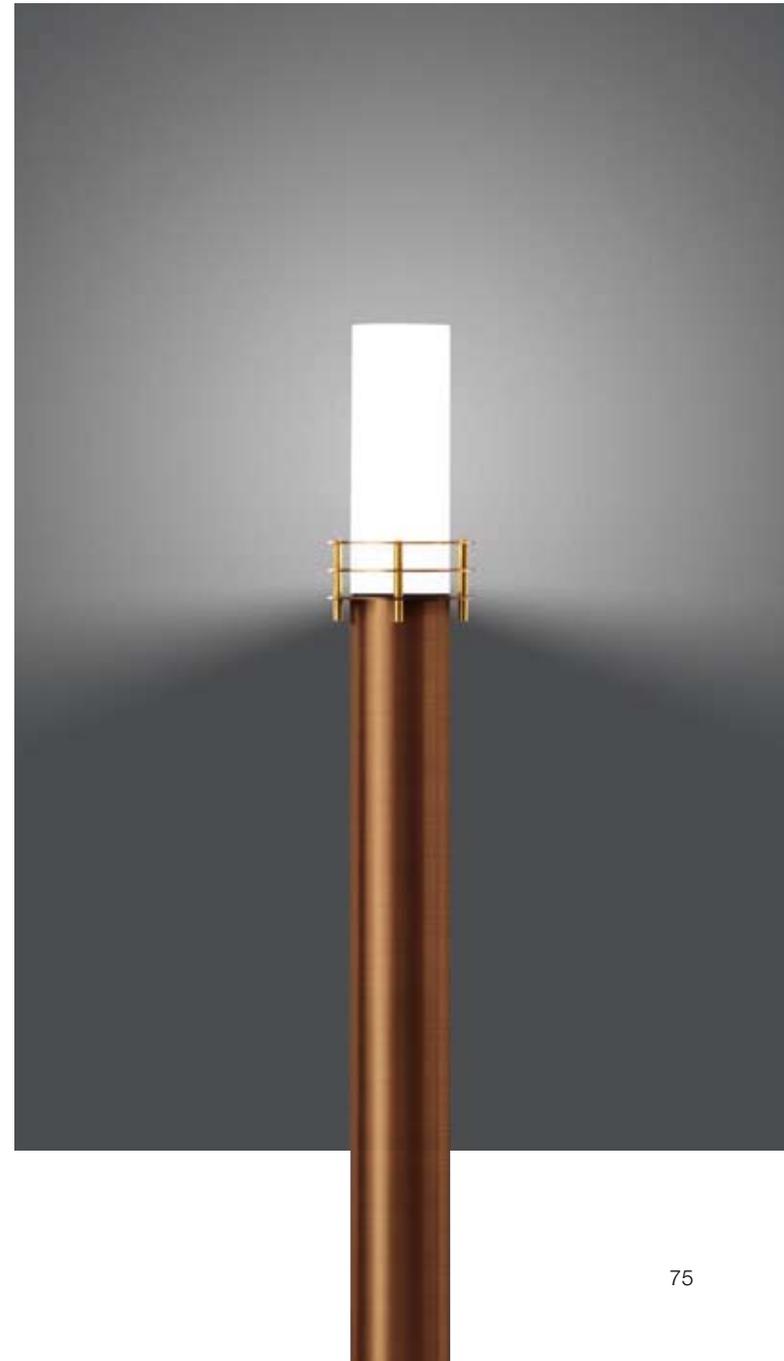
Copper and brass

Die cast bronze base plate

Equipped with stainless steel mounting plate for bolting to a foundation or anchorage unit. Technical data, page 161.



		Base	Lamp		Lumen	A	B	C	Anch. unit
B 1378	Fluorescent or	E 14	1 TC-DSE	11 W	660	120	1000	150	B 572
	general service lamp	E 14	1 C 35	60 W	660	120	1000	150	
B 1527	Fluorescent lamp	G 24 d-3	1 TC-D	26 W	1800	160	1200	200	B 572



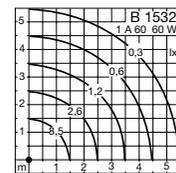
Garden luminaire



This luminaire made of copper and hand-blown crystal bubble glass is shielded to the top. Crystal bubble glass has an extremely vivid surface. As the molten glass solidifies, air inclusions are created. This produces brilliant and exceptionally expressive light. Such brilliance is especially highlighted with clear general service lamps.

This luminaire is designed to illuminate steps and paths, gardens and terraces. Its shape harmonizes both with gardens and architecture. The garden luminaire shown here has a perfect mounting system.

A stainless steel mounting plate and die cast bronze base plate allow adjustment of the luminaire after installation, and make it highly resistant to corrosion.





Page 46



Page 62

Garden luminaire
Protection class IP 64

Luminaire with:

- lamp base E 27 for general service lamps A 60

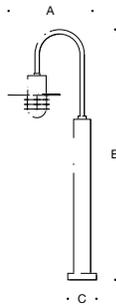
If the luminaire is to be operated with energy-saving lamps instead of general service lamps, we recommend using halogen lamps type QA. Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown crystal bubble glass with thread

Copper, die cast bronze and brass

Die cast bronze base plate

Equipped with stainless steel mounting plate for bolting to a foundation or anchorage unit. Technical data, page 161.



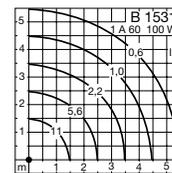
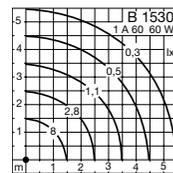
	Base	Lamp	Lumen	A	B	C	Anch. unit
B 1532	General service lamp	E 27	1 A 60	60 W	710	360 1300 150	B 572



Unshielded garden luminaires



Unshielded luminaires made of copper and hand-blown crystal bubble glass. These luminaires are available in two sizes with different light outputs. They are characterized by the impressive interplay of the brilliant luminaire glass and massive brass guard. This luminaire series is distinguished by its craftsmanship. Matching wall, ceiling and pillar luminaires are given on page 60. Copper with its vivid surface also highlights the special character of these luminaires. Striking light objects for private gardens, paths and terraces – wherever brilliant light is required. The garden luminaires shown here have a perfect mounting system. A stainless steel mounting plate and die cast bronze base plate allow adjustment of the luminaires after installation, and make them highly resistant to corrosion.





Page 60

Garden luminaires
Protection class IP 64

Luminaires with:

- lamp base E 27 for general service lamps A 60

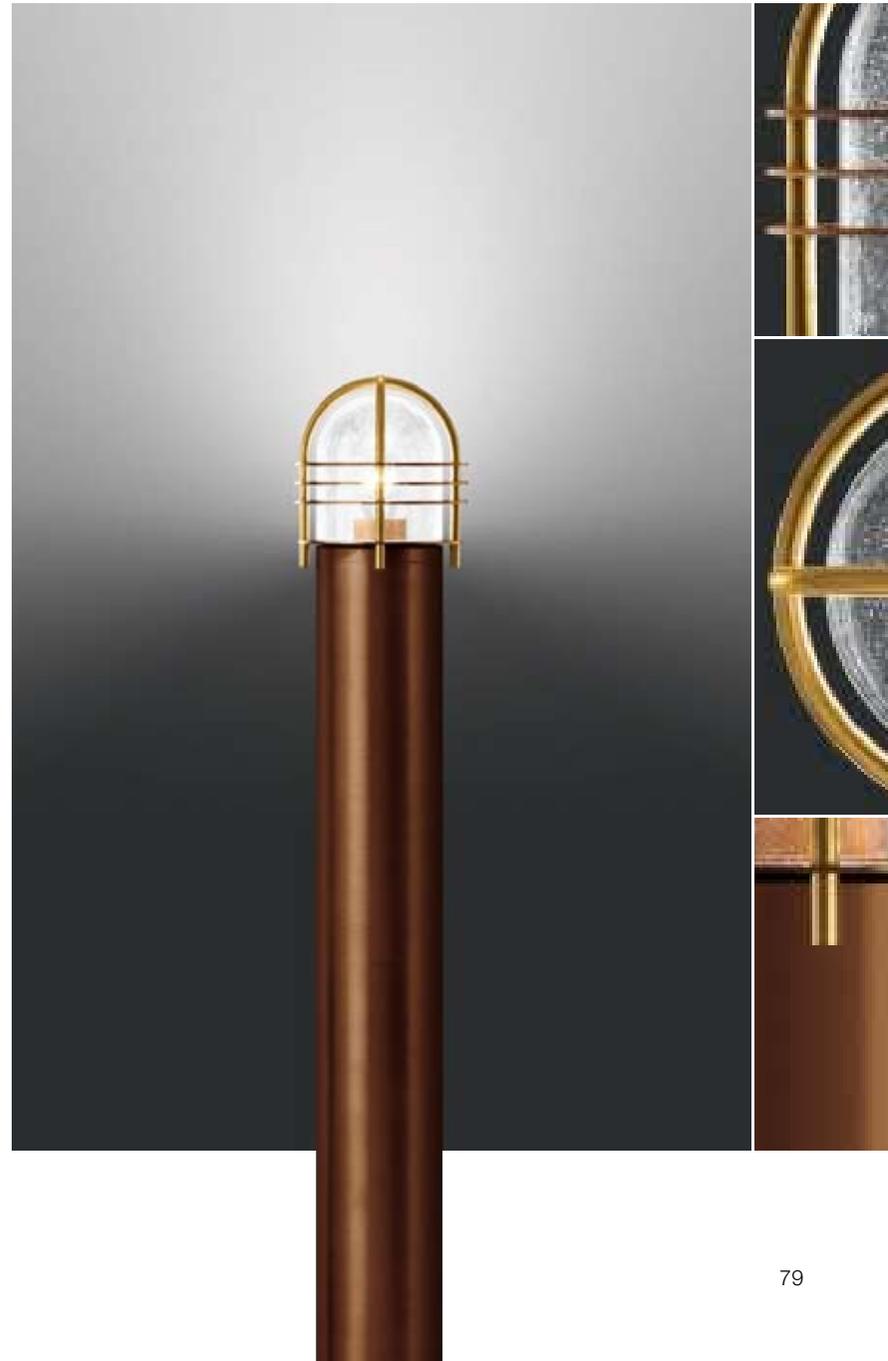
If the luminaires are to be operated with energy-saving lamps instead of general service lamps, we recommend using halogen lamps type QA. Our lamp table with information on manufacturers is given on pages 164-165.

Hand-blown crystal bubble glass with thread
Copper and brass · Die cast bronze base plate

Equipped with stainless steel mounting plate for bolting to a foundation or anchorage unit. Technical data, page 161.



		Base	Lamp	Lumen	A	B	C	Anch. unit
B 1530	General service lamp	E 27	1 A 60 60 W	710	130	950	150	B 572
B 1531	General service lamp	E 27	1 A 60 100 W	1340	180	1200	200	B 572



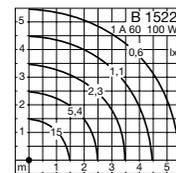
Unshielded garden luminaire



This luminaire produces unshielded light, with lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60.

The series also includes wall, pendant and pillar luminaires. Design feature of these luminaires is the impressive crystal glass. We have recreated the optical lenses of historic ship lanterns. The light from the luminaires is as vivid as the material. Copper forms its own protective coating and develops its distinctive character only when enhanced by its resulting patina. Quality, durability and beauty are attributes which have characterized this material for centuries.

The garden luminaire shown here has a perfect mounting system. A stainless steel mounting plate and die cast bronze base plate allow adjustment of the luminaire after installation, and make it highly resistant to corrosion.





Page 34

Garden luminaire
Protection class IP 44

Luminaire with:

- lamp base E 27 either for fluorescent lamps TC-TSE or general service lamps A 60

Our lamp table with information on manufacturers is given on pages 164 -165.

Cylindrical lens made of crystal glass

Copper and brass guard · Die cast bronze base plate

Equipped with stainless steel mounting plate for bolting to a foundation or anchorage unit. Technical data, page 161.



		Base	Lamp		Lumen	A	B	C	Anch. unit
B 1522	Fluorescent or	E 27	1 TC-TSE	20 W	1230	180	1050	150	B 572
	general service lamp	E 27	1 A 60	100 W	1340	180	1050	150	



Unshielded garden luminaire

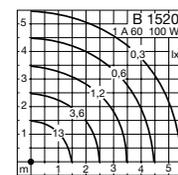


Unshielded luminaire made of copper and hand-blown crystal bubble glass. Matching wall luminaires and pillar luminaires are given on page 40.

This luminaire is designed for house entrances, for small and large gardens and wherever atmospheric lighting is required.

The light from the luminaires is as vivid as the material. Copper forms its own protective coating and develops its distinctive character only when enhanced by its resulting patina.

The luminaire shown here has a perfect mounting system. A stainless steel mounting plate and die cast bronze base plate make it highly resistant to corrosion.





Page 40

Garden luminaire
Protection class IP 64

Luminaire with:

- lamp base E 27 for general service lamps A 60

If the luminaire is to be operated with energy-saving lamps instead of general service lamps, we recommend using halogen lamps type QA. Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown crystal bubble glass with thread
Copper · Die cast bronze base plate

Equipped with stainless steel mounting plate for bolting to a foundation or anchorage unit. Technical data, page 161.



	Base	Lamp	Lumen	A	B	C	Anch. unit
B 1520	General service lamp	E 27	1 A 60	60 W	710	125 1025	150
							B 572



Unshielded pole-top luminaires

Pole-top luminaires with lamp base E 27, designed for fluorescent lamps TC-TSE or general service lamps A 60 · A 65. A comprehensive luminaire series comprising pole-top luminaires, wall luminaires and pillar luminaires.

Matching wall luminaires and pillar luminaires are given on page 30.

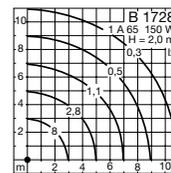
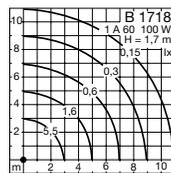
Pole-top luminaires in two different dimensions and mounting heights for house entrances, small and large gardens, and wherever atmospheric lighting is required.

The light from the luminaires is as vivid as the material. Copper forms its own protective coating and develops its distinctive character only when enhanced by its resulting patina.

These luminaires are defined by their craftsmanship. The simplicity and quality of the materials make them impressive and durable design elements.



The garden luminaires on this double page have a die cast bronze base plate. A stainless steel mounting plate is bolted to a matching anchorage unit made of galvanized steel or to a foundation.



Page 30

Pole-top luminaires
Protection class IP 23

Luminaires with:

- lamp base E 27 either for fluorescent lamps TC-TSE or general service lamps A 60 · A 65

Our lamp table with information on manufacturers is given on pages 164 -165.

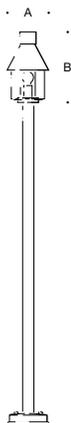
Hand-blown crystal bubble glass

Copper and brass

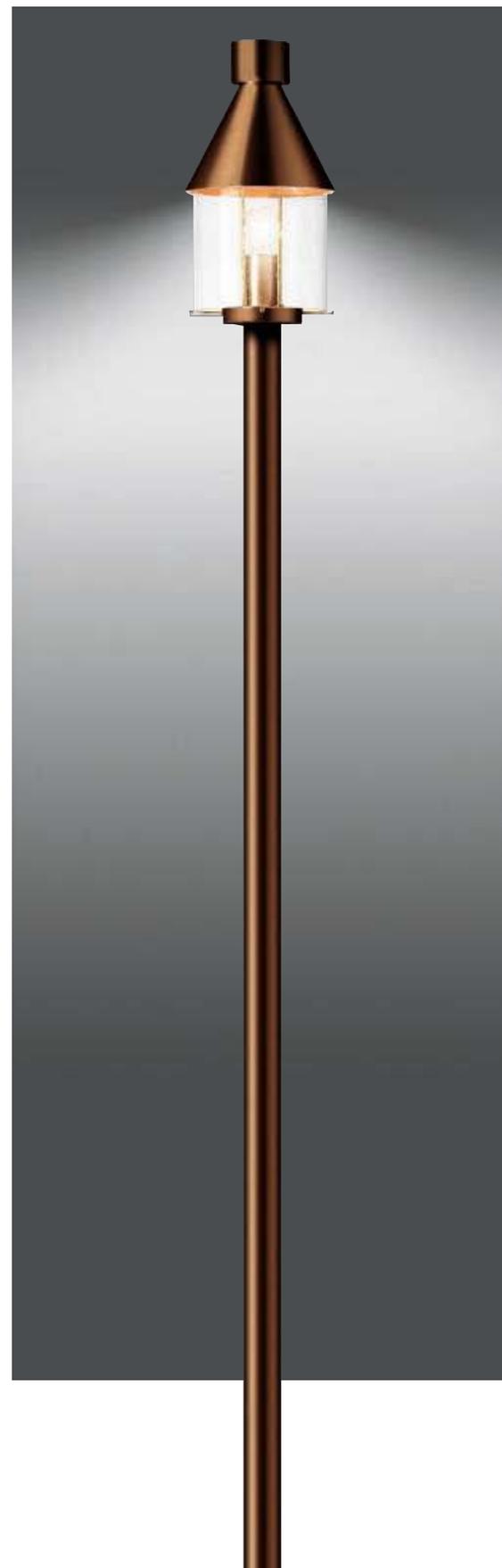
G ½ · DIN ISO 228 pole mounting bush

Matching copper poles with die cast bronze base plate for bolting to a foundation or anchorage unit.

Technical data, pages 158 -161.



		Base	Lamp		Lumen	A	B
B 1718	Fluorescent or general service lamp	E 27	1 TC-TSE	20 W	1230	210	380
		E 27	1 A 60	100 W	1340	210	380
B 1728	General service lamp	E 27	1 A 65	150 W	2160	250	465
B 552	Pole for B 1718		height 1700mm				
B 550	Pole for B 1728		height 2000mm				
B 573	Anchorage unit for poles B 552 · B 550						



Unshielded pole-top luminaires

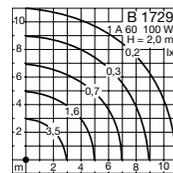
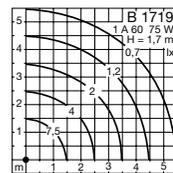
Pole-top luminaires with lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60.

A series of luminaires comprising pole-top luminaires, wall luminaires and pillar luminaires. Matching wall luminaires and pillar luminaires are given on page 32.

Pole-top luminaires in two sizes with symmetrical light distribution. Luminaire housing made of copper and brass with hand-blown crystal bubble glass. The glass with its countless air inclusions creates a fascinating and vivid effect. These luminaires are defined by their craftsmanship. Their distinctive shape and the high quality of the materials make them impressive and durable light objects.



The garden luminaires on this double page have a die cast bronze base plate. A stainless steel mounting plate is bolted to the matching anchorage unit made of galvanized steel or to a foundation.



Pole-top luminaires
Protection class IP 44

Luminaires with:

- lamp base E 27 either for fluorescent lamps TC-TSE or general service lamps A 60

Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown crystal bubble glass

Copper and brass

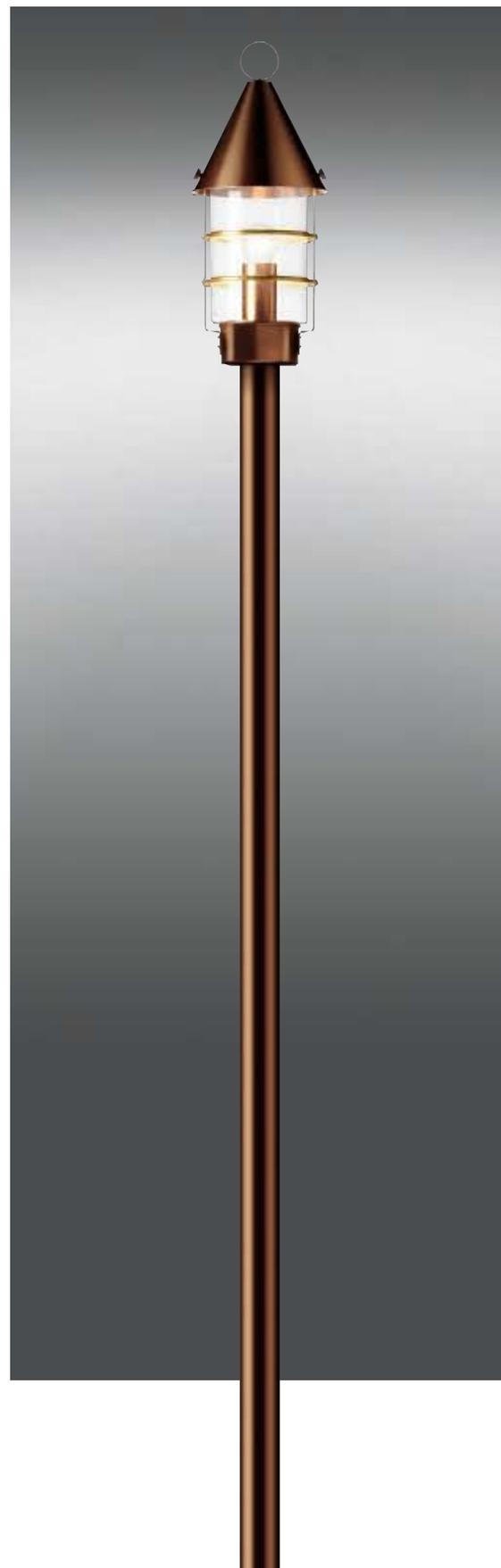
G ½ · DIN ISO 228 pole mounting bush

Matching copper poles with die cast bronze base plate for bolting to a foundation or anchorage unit.

Technical data, pages 158 -161.



		Base	Lamp		Lumen	A	B
B 1719	Fluorescent or general service lamp	E 27	1 TC-TSE	15 W	900	150	390
		E 27	1 A 60	75 W	935	150	390
B 1729	Fluorescent or general service lamp	E 27	1 TC-TSE	20 W	1230	210	490
		E 27	1 A 60	100 W	1340	210	490
B 552	Pole for B 1719	height 1700mm					
B 550	Pole for B 1729	height 2000mm					
B 573	Anchorage unit for poles B 552 · B 550						



Pole-top luminaires with rotationally symmetrical light distribution

A luminaire series comprising pole-top luminaires, wall luminaires and pillar luminaires for fluorescent lamps.

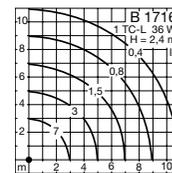
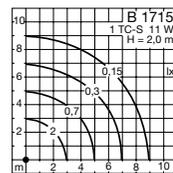
Matching wall luminaires and pillar luminaires are given on page 26.

Unshielded pole-top luminaires with rotationally symmetrical light distribution. They are available in two sizes and different light outputs. Their shape and construction are determined by the dimensions of the elongated fluorescent lamps. The luminaire housing is made of copper and brass with hand-blown, three-ply opal glass. The light from the fluorescent lamps is pleasantly and uniformly distributed by the opal glass.

Luminaires with a similar shape and lighting characteristics but made of aluminium with an enamel finish in the colour graphite are given on page 142.



The garden luminaires on this double page have a die cast bronze base plate. A stainless steel mounting plate is bolted to the matching anchorage unit made of galvanized steel or to a foundation.



Page 26

Pole-top luminaires

B 1715 Protection class IP 44

B 1716 Protection class IP 65

Luminaires with:

- lamp base G 23 for fluorescent lamps TC-S
- lamp base 2 G 11 for fluorescent lamps TC-L

Our lamp table with information on manufacturers is given on pages 164 -165.

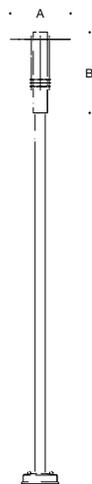
Hand-blown opal glass with thread

Copper and brass

G ½ · DIN ISO 228 pole mounting bush

Matching copper poles with die cast bronze base plate for bolting to a foundation or anchorage unit.

Technical data, pages 158 -161.



		Base	Lamp		Lumen	A	B
B 1715	Fluorescent lamp	G 23	1 TC-S	11 W	900	350	410
B 1716	Fluorescent lamp	2 G 11	1 TC-L	36 W	2900	450	645
B 550	Pole for B 1715	height 2000 mm					
B 551	Pole for B 1716	height 2400 mm					
B 573	Anchorage unit for poles B 550 · B 551						



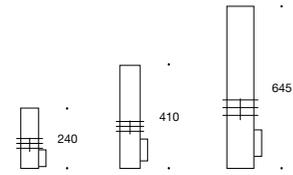
Unshielded wall luminaires



These unshielded wall luminaires are available in three sizes and designed for fluorescent lamps or general service lamps. The hand-blown, three-ply opal glass distributes the light softly and uniformly.

These luminaires are ideal for illuminating impressive entrances, arcades, colonnades and wall surfaces, and for a host of applications, both indoors and outdoors. The striking, clear shape and quality of the materials make these luminaires effective and lasting design elements in architecture.

Luminaires with a similar shape and lighting characteristics but made of copper and brass are given on page 24.



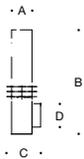
Wall luminaires
Protection class IP 44

Luminaires with:

- lamp base E 14 for fluorescent lamps TC-DSE · TC-TSE or general service lamps C 35
- lamp base 2 G 11 for fluorescent lamps TC-L

Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown opal glass with thread
Aluminium and stainless steel
Enamel finish, colour graphite



		Base	Lamp		Lumen	A	B	C	D
B 1201	Fluorescent or	E 14	1 TC-DSE	7 W	400	95	240	115	75
	general service lamp	E 14	1 C 35	40 W	400	95	240	115	75
B 1203	Fluorescent or	E 14	1 TC-TSE	11 W	660	120	410	135	90
	general service lamp	E 14	1 C 35	60 W	660	120	410	135	90
B 1205	Fluorescent lamp	2 G 11	1 TC-L	36 W	2900	160	645	165	110

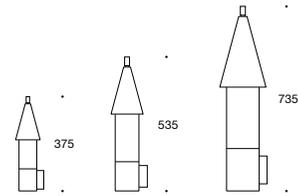


Unshielded wall luminaires



Unshielded wall luminaires in three sizes for fluorescent lamps or general service lamps. The hand-blown, three-ply opal glass distributes the light softly and uniformly. These luminaires are suitable for illuminating entrances, arcades and wall surfaces. Their diverse sizes and light outputs make them versatile light objects. They are characterized by their classic shape of discreet elegance that harmonizes well with their surroundings. Luminaires with a similar shape and lighting characteristics but made of copper and brass are given on page 38.





Wall luminaires
Protection class IP 44

Luminaires with:

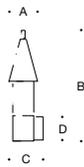
- lamp base E 14 for fluorescent lamps TC-DSE or general service lamps C 35
- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60
- lamp base 2 G 11 for fluorescent lamps TC-L

Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown opal glass with thread

Aluminium and stainless steel

Enamel finish, colour graphite



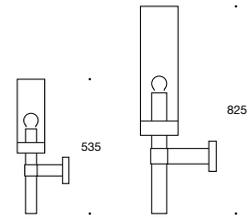
		Base	Lamp		Lumen	A	B	C	D
B 1268	Fluorescent or	E 14	1 TC-DSE	7 W	400	95	375	115	75
	general service lamp	E 14	1 C 35	40 W	400	95	375	115	75
B 1279	Fluorescent or	E 27	1 TC-TSE	11 W	660	130	535	145	90
	general service lamp	E 27	1 A 60	60 W	710	130	535	145	90
B 1290	Fluorescent lamp	2 G 11	1 TC-L	24 W	1800	185	735	195	110



Unshielded wall luminaires



Unshielded wall luminaires in two sizes, designed for fluorescent lamps or general service lamps. These luminaires with hand-blown crystal bubble glass provide brilliant and expressive light. Arranged singly or in groups – they are stylish light objects for illuminating doors, gates and entrances.



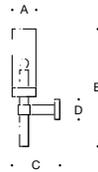
Wall luminaires
Protection class IP 44

Luminaires with:

- lamp base E 27 either for fluorescent lamps TC-TSE or general service lamps A 60

Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown crystal bubble glass with thread
Die cast aluminium, aluminium and stainless steel
Enamel finish, colour graphite



		Base	Lamp		Lumen	A	B	C	D
B 1158	Fluorescent or	E 27	1 TC-TSE	11 W	660	110	535	210	110
	general service lamp	E 27	1 A 60	60 W	710	110	535	210	110
B 1161	Fluorescent or	E 27	1 TC-TSE	20 W	1230	150	825	310	130
	general service lamp	E 27	1 A 60	100 W	1340	150	825	310	130



Wall washers



Wall washers in two sizes providing symmetrical light distribution for illuminating walls and adjacent ceilings and structures. They are ideal for lighting arcades, vaults and colonnades, wherever architecture needs to be illuminated by reflecting light from walls and ceilings. These luminaires are equipped with planar luminaire glass, on which no water can collect. They are robust products of exceptionally high material quality.

Classic wall luminaires, the style of the luminaire body is reminiscent of bygone epochs, and yet they are equipped with modern lighting technology.

Luminaires with a similar shape and lighting characteristics but made of copper and die cast bronze are given on page 16.

Wall washers

Protection class IP 44

Luminaires with:

- lamp base R7s for halogen lamps QT-DE 12
- lamp base GU 6.5 and G 8.5 for discharge lamps HIT-TC-CE

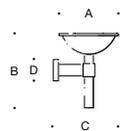
Our lamp table with information on manufacturers is given on pages 164 -165.

Matt safety glass

Die cast aluminium, aluminium and stainless steel

Enamel finish, colour graphite

B 1348 with electronic ballast



		Base	Lamp		Lumen	A	B	C	D
B 1315	Halogen lamp	R7s	1 QT-DE 12	150 W	2500	270	340	290	110
B 1346	Halogen lamp	R7s	1 QT-DE 12	200 W	3500	360	445	415	130
B 1348	Discharge lamp	GU 6.5	1 HIT-TC-CE	20 W	1700	270	340	290	110
B 1359	Discharge lamp	G 8.5	1 HIT-TC-CE	35 W	3400	360	445	415	130



Unshielded wall luminaires and pillar luminaires »Paris«



A series of wall luminaires, pillar luminaires and pole-top luminaires. The pole-top luminaires are given on page 144. These luminaires are available in two sizes with different light outputs for fluorescent lamps or general service lamps. Equipped with hand-blown, three-ply opal glass, they distribute the light in a pleasantly soft and uniform way. To special order, these luminaires are also available with other electrical equipment and in Safety class II.



Pole-top luminaires, page 144

Wall luminaires and pillar luminaires
Protection class IP 44

Luminaires with:

- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60 · A 65
- lamp base G 24 d-3 for fluorescent lamps TC-D

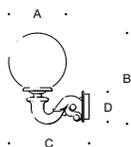
Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown opal glass

Aluminium, die cast aluminium and stainless steel

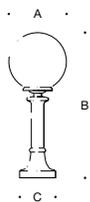
Colour: graphite – article number

white – article number + **W**



Wall luminaires

		Base	Lamp	Lumen	A	B	C	D	
B 1438	Fluorescent or	E 27	1 TC-TSE	20 W	1230	250	390	335	110
	general service lamp	E 27	1 A 60	100 W	1340	250	390	335	110
B 1439	General service lamp	E 27	1 A 65	150 W	2160	350	555	485	150
B 1493	Fluorescent lamp	G 24 d-3	1 TC-D	26 W	1800	350	555	485	150



Pillar luminaires

		Base	Lamp	Lumen	A	B	C	
B 1562	Fluorescent or	E 27	1 TC-TSE	20 W	1230	250	630	155
	general service lamp	E 27	1 A 60	100 W	1340	250	630	155
B 1563	General service lamp	E 27	1 A 65	150 W	2160	350	870	205
B 1528	Fluorescent lamp	G 24 d-3	1 TC-D	26 W	1800	350	870	205



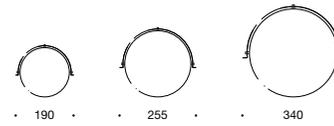
Wall luminaires



These wall luminaires are shielded to the top and available in three sizes. They are designed for fluorescent lamps or general service lamps. Cased opal glass with satin matt surface is held by solid die cast aluminium fittings. The light from the luminaires is shielded to the top by the aluminium shield while a small slit of light at the back highlights the contours of the luminaire. The technical and aesthetic quality of these luminaires is impressive. They are suitable for single installation or installation in rows.

On request, we also supply the luminaires for fluorescent lamps with electronic ballasts.





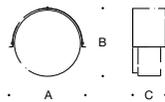
Wall luminaires
Protection class IP 44

Luminaires with:

- lamp base E 14 for general service lamps D 45
- lamp base E 27 for general service lamps A 60
- lamp base GX 24 d-2 for fluorescent lamps TC-T
- lamp base G 24 d-2 for fluorescent lamps TC-D

Our lamp table with information on manufacturers is given on pages 164 -165.

Satin matt opal glass
Die cast aluminium, aluminium and stainless steel
Enamel finish, colour graphite



		Base	Lamp	Lumen	A	B	C
B 1080	General service lamp	E 14	1 D 45	40 W 400	190	170	95
B 1081	General service lamp	E 27	1 A 60	75 W 935	255	230	115
B 1082	General service lamp	E 27	2 A 60	60 W 1420	340	310	120
B 1083	Fluorescent lamp	GX 24 d-2	1 TC-T	18 W 1200	255	230	115
B 1084	Fluorescent lamp	G 24 d-2	2 TC-D	18 W 2400	340	310	120



Wall luminaires with directed light



These wall luminaires with directed light are available in two sizes. They are equipped with lamp base E 14 and E 27 for fluorescent lamps TC-TSE and general service lamps.

Luminaires with hand-blown crystal bubble glass. The light from the luminaires is shielded to the top and front by an aluminium shield, and directed onto the illuminated surface. A small slit of light at the back highlights the contours of the luminaire. The luminaires can be installed either with the light output to the top or bottom.

These wall luminaires are ideal for a host of lighting applications – arranged singly, in rows or in groups.



Bollards, page 140

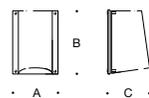
Wall luminaires
 Protection class IP 64

Luminaires with:

- lamp base E 14 for general service lamps D 45
- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60

Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown crystal bubble glass with thread
 Aluminium and stainless steel
 Enamel finish, colour graphite



		Base	Lamp		Lumen	A	B	C
B 1196	General service lamp	E 14	1 D 45	40 W	400	135	185	120
B 1197	Fluorescent or	E 27	1 TC-TSE	11 W	660	155	220	145
	general service lamp	E 27	1 A 60	60 W	710	155	220	145



Wall luminaires · shielded



Wall luminaires with shielded light in two sizes for fluorescent lamps or general service lamps.

These luminaires are equipped with hand-blown, three-ply opal glass. The light from the luminaires is shielded to the front by an aluminium shield which uses the reflection of the installation surface to distribute the light softly and uniformly – producing effective illumination and atmospheric lighting.

Luminaires with a similar shape and lighting characteristics but made of copper are given on page 51.



Wall luminaires

Protection class IP 44

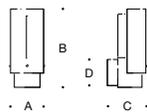
Luminaires with:

- lamp base E 14 for fluorescent lamps TC-DSE or general service lamps D 45
- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60
- lamp base G 24 d-2 for fluorescent lamps TC-D

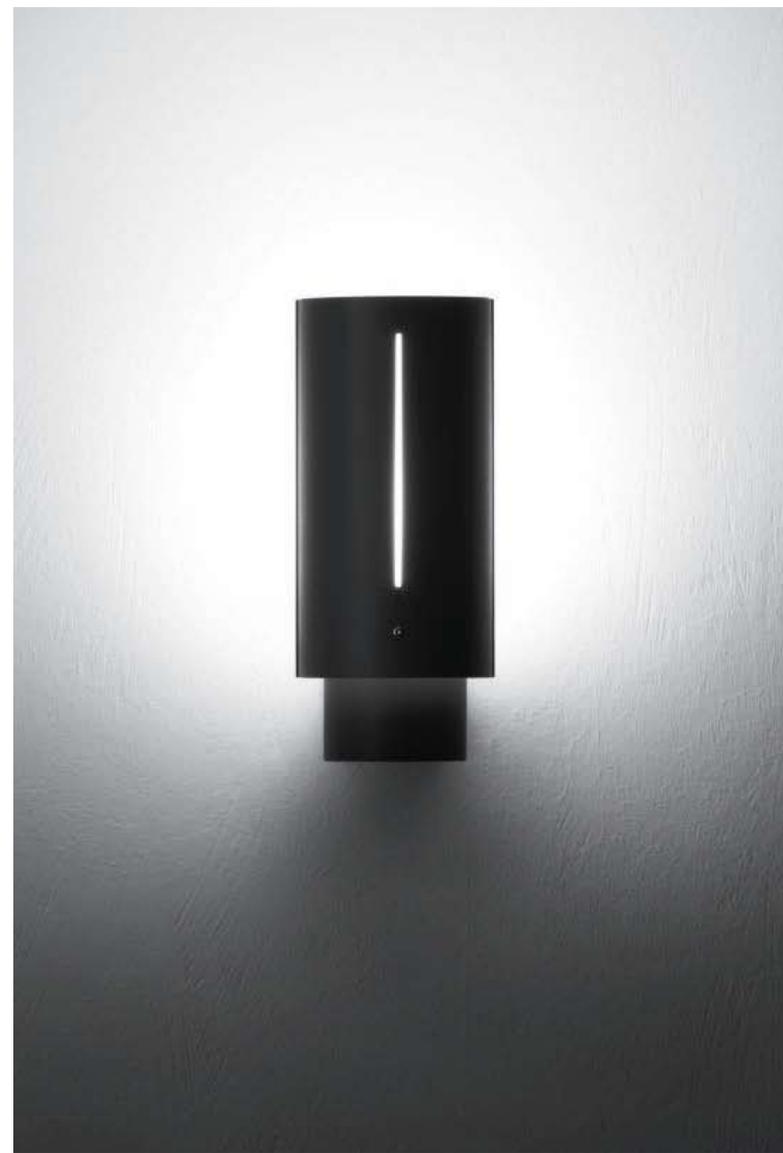
Our lamp table with information on manufacturers is given on pages 164 - 165.

Hand-blown opal glass with thread

Die cast aluminium, aluminium and stainless steel
Enamel finish, colour graphite



		Base	Lamp		Lumen	A	B	C	D
B 1025	Fluorescent or	E 14	1 TC-DSE	7 W	400	95	225	115	75
	general service lamp	E 14	1 D 45	40 W	400	95	225	115	75
B 1029	Fluorescent or	E 27	1 TC-TSE	11 W	660	130	305	150	90
	general service lamp	E 27	1 A 60	60 W	710	130	305	150	90
B 1041	Fluorescent lamp	G 24 d-2	1 TC-D	18 W	1200	130	305	150	90



Wall luminaires with directed light



Bollards, page 138

These wall luminaires with directed light are available in two sizes. They are equipped with lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60. The luminaires are made of hand-blown opal glass with die cast aluminium fittings. The predefined light direction is especially suitable for illuminating areas in front of the illuminated surface. These luminaires are designed for houses and courtyards, alongside and over doors, and for a host of other lighting applications.

Wall luminaires
Protection class IP 44

Luminaires with:

- lamp base E 27 either for fluorescent lamps TC-TSE or general service lamps A 60

Our lamp table with information on manufacturers is given on pages 164 -165.

Opal glass with thread

Die cast aluminium and stainless steel

Enamel finish, colour graphite



		Base	Lamp		Lumen	A	B	C	D
B 1035	Fluorescent or	E 27	1 TC-TSE	11 W	660	200	185	220	80
	general service lamp	E 27	1 A 60	60 W	710	200	185	220	80
B 1039	Fluorescent or	E 27	1 TC-TSE	15 W	900	260	245	275	110
	general service lamp	E 27	1 A 60	100 W	1340	260	245	275	110



Wall luminaires with directed light



These wall luminaires with directed light are available in two sizes. They are equipped with lamp base E 14 and E 27 for fluorescent lamps and general service lamps.

The light from the luminaires is shielded to the top. The reflector shield, however, has openings which allow a small part of the light to exit to the top, highlighting the shape of the luminaire in the dark.

The shape of the lantern is unmatched in its diversity. Originally intended to illuminate houses and courtyards, shape was clearly determined by function.

The luminaires shown here aim to continue this tradition. They have a predefined light direction, and are particularly suitable for illuminating areas in front of the installation surface.

Luminaires designed for houses and courtyards, alongside and over doors, and for a host of other lighting applications.

Luminaires with a similar shape and lighting characteristics but made of copper are given on page 48.





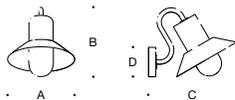
Wall luminaires
Protection class IP 44

Luminaires with:

- lamp base E 14 for fluorescent lamps TC-DSE or general service lamps C 35
- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60

Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown opal glass with thread
Die cast aluminium, aluminium and stainless steel
Enamel finish, colour graphite



		Base	Lamp		Lumen	A	B	C	D
B 1110	Fluorescent or general service lamp	E 14	1 TC-DSE	7 W	400	180	210	255	80
		E 14	1 C 35	40 W	400	180	210	255	80
B 1118	Fluorescent or general service lamp	E 27	1 TC-TSE	11 W	660	260	260	340	110
		E 27	1 A 60	60 W	710	260	260	340	110



Wall luminaires

The lantern enjoys perhaps the longest tradition in protecting a light source from wind and rain.

This series of modern lanterns are reminiscent of the craftsmanship of traditional luminaires.

Available in different sizes and versions, they are versatile in application. Equipped with lamp base E 27, they are designed for fluorescent lamps TC-TSE or general service lamps.

They have a metal housing with single panes of crystal glass.

The luminaires for near-wall installation are available in square or rectangular layout – for applications where a low overhang is required for technical or design reasons.

The luminaires with wall arm complement this group of straight-lined luminaires.



Wall luminaires

Protection class IP 44

Luminaires with:

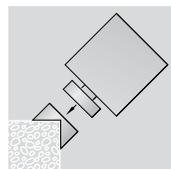
- lamp base E 27 either for fluorescent lamps TC-TSE or general service lamps A 60

Our lamp table with information on manufacturers is given on pages 164 -165.

Crystal glass panes

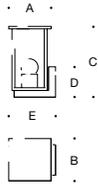
Die cast aluminium, aluminium and stainless steel

Enamel finish, colour graphite



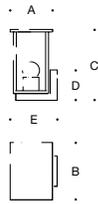
We supply matching corner blocks made of die cast aluminium and stainless steel for installing wall luminaires B 1046 and B 1048 on the corners of buildings. Technical data, page 160.





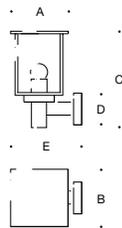
Wall luminaires for near-wall installation · square

		Base	Lamp		Lumen	A	B	C	D	E
B 1015	Fluorescent or	E 27	1 TC-TSE	15 W	900	155	155	285	110	175
	general service lamp	E 27	1 A 60	75 W	935	155	155	285	110	175



Wall luminaires for near-wall installation · rectangular

		Base	Lamp		Lumen	A	B	C	D	E
B 1037	Fluorescent or	E 27	1 TC-TSE	15 W	900	155	210	285	110	175
	general service lamp	E 27	1 A 60	75 W	935	155	210	285	110	175



Wall luminaires with wall arm

		Base	Lamp		Lumen	A	B	C	D	E
B 1046	Fluorescent or	E 27	1 TC-TSE	15 W	900	210	210	375	110	260
	general service lamp	E 27	1 A 60	75 W	935	210	210	375	110	260
B 1048	Fluorescent or	E 27	1 TC-TSE	20 W	1230	240	240	455	130	355
	general service lamp	E 27	1 A 60	100 W	1340	240	240	455	130	355





Wall luminaire

The lantern enjoys perhaps the longest tradition in protecting a light source from wind and rain. This modern lantern is reminiscent of the craftsmanship of traditional luminaires.

Buildings or existing architecture often require stylistic conformity with building details. The luminaires on pages 110-113 meet this requirement to perfection. Equipped with lamp base E 27, they are designed for fluorescent lamps TC-TSE or general service lamps. They have a metal housing with single panes of crystal glass for near-wall installation. The luminaire top can be opened for convenient relamping.



Wall luminaire
 Protection class IP 44

Luminaire with:

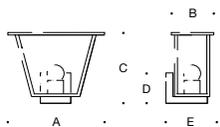
- lamp base E 27 either for fluorescent lamps TC-TSE or general service lamps A 60

Our lamp table with information on manufacturers is given on pages 164 -165.

Crystal glass panes

Die cast aluminium, aluminium and stainless steel

Enamel finish, colour graphite



		Base	Lamp		Lumen	A	B	C	D	E
B 1040	Fluorescent or general service lamp	E 27	1 TC-TSE	15 W	900	350	155	285	110	175
		E 27	1 A 60	75 W	935	350	155	285	110	175



Wall luminaires and pillar luminaires

The luminaires shown here are reminiscent of traditional lanterns. Classic creations, clear and discreet in shape, products of real craftsmanship. They consist of a metal housing whose openings are covered by single panes of antique glass.

These luminaires have a square layout. They are available with a low overhang for near-wall installation or with a wall arm. Equipped with lamp base E 27, they are designed for fluorescent lamps TC-TSE or general service lamps.

They are modern luminaires in the style of antique lanterns.



Wall luminaires and pillar luminaires
Protection class IP 44

Luminaires with:

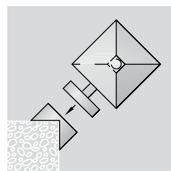
- lamp base E 27 either for fluorescent lamps TC-TSE or general service lamps A 60

If luminaire B 1269 is to be operated with energy-saving lamps instead of general service lamps, we recommend using halogen lamps type QA.

Our lamp table with information on manufacturers is given on pages 164 -165.

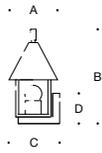
Antique glass panes

Die cast aluminium, aluminium and stainless steel
Enamel finish, colour graphite



We supply matching corner blocks made of die cast aluminium and stainless steel for installing wall luminaires B 1270 and B 1271 on the corners of buildings.
Technical data, page 160.





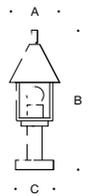
Wall luminaire for near-wall installation

	Base	Lamp	Lumen	A	B	C	D
B 1269	General service lamp E 27	1 A 60 75 W	935	175	350	185	110



Wall luminaires with wall arm

	Base	Lamp	Lumen	A	B	C	D
B 1270	Fluorescent or general service lamp E 27	1 TC-TSE 15 W	900	175	430	240	110
		1 A 60 75 W	935	175	430	240	110
B 1271	Fluorescent or general service lamp E 27	1 TC-TSE 20 W	1230	220	580	345	130
		1 A 60 100 W	1340	220	580	345	130



Pillar luminaires

	Base	Lamp	Lumen	A	B	C
B 1536	Fluorescent or general service lamp E 27	1 TC-TSE 15 W	900	175	490	130
		1 A 60 75 W	935	175	490	130
B 1537	Fluorescent or general service lamp E 27	1 TC-TSE 20 W	1230	220	640	130
		1 A 60 100 W	1340	220	640	130



Wall luminaires and pillar luminaires

Lanterns provide atmospheric and romantic lighting. Our luminaires are classic structures, small in size. Their light openings are covered with single panes of antique glass and a safety guard. These wall luminaires and pillar luminaires are reminiscent of traditional craftsmanship. The wall luminaires are available in three versions: with low overhang for near-wall installation, with wall arm or hanging with outrigger arm. Equipped with lamp base E 27, they are designed for TC-TSE or general service lamps. They are modern luminaires with the latest lamp technology in the style of antique lanterns.



Wall luminaires and pillar luminaires

Protection class IP 44

B 1371 Protection class IP 23

Luminaires with:

- lamp base E 27 either for fluorescent lamps TC-TSE or general service lamps A 60

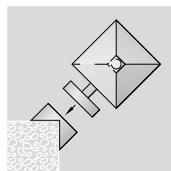
If luminaire B 1370 is to be operated with energy-saving lamps instead of general service lamps, we recommend using halogen lamps type QA.

Our lamp table with information on manufacturers is given on pages 164-165.

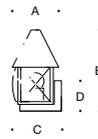
Antique glass panes

Die cast aluminium, aluminium and stainless steel

Enamel finish, colour graphite

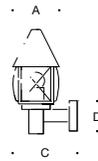


We supply matching corner blocks made of die cast aluminium and stainless steel for installing wall luminaires B 1372 and B 1371 on the corners of buildings. Technical data, page 160.



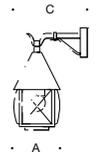
Wall luminaire for near-wall installation

	Base	Lamp	Lumen	A	B	C	D
B 1370	General service lamp	E 27 1 A 60 75 W	935	175	300	180	110



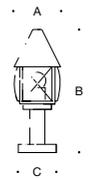
Wall luminaire with wall arm

	Base	Lamp	Lumen	A	B	C	D
B 1372	Fluorescent or general service lamp	E 27 1 TC-TSE 15 W E 27 1 A 60 75 W	900 935	175	380	240	110



Wall luminaire with outrigger arm · hanging

	Base	Lamp	Lumen	A	B	C	D
B 1371	Fluorescent or general service lamp	E 27 1 TC-TSE 15 W E 27 1 A 60 75 W	900 935	175	375	285	110



Pillar luminaire

	Base	Lamp	Lumen	A	B	C
B 1658	Fluorescent or general service lamp	E 27 1 TC-TSE 15 W E 27 1 A 60 75 W	900 935	175	450	130



Wall luminaires and pendant luminaires

From time immemorial, lanterns have been used to protect light sources from wind and rain. The luminaire body is a metal housing produced by traditional craftsmanship. The openings are covered with panes of antique glass. The metal reflector of the wall luminaires directs the light primarily to the front and highlights the character of the lanterns. A proper lantern also needs a door to access the light source for maintenance purposes. They are modern luminaires in the style of antique lanterns.



Wall luminaire Protection class IP 23
Pendant luminaire Protection class IP 20

Luminaires with:

- lamp base E 27 for general service lamps A 60

If the luminaires are to be operated with energy-saving lamps instead of general service lamps, we recommend using halogen lamps type QA.

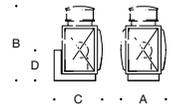
Our lamp table with information on manufacturers is given on pages 164-165.

Antique glass panes

Die cast aluminium, aluminium and stainless steel
Enamel finish, colour graphite

Pendant luminaire with chain pendant and canopy

Door to open the luminaire

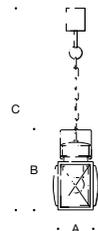


Wall luminaire

	Base	Lamp	Lumen	A	B	C	D
B 1347	General service lamp	E 27 1 A 60	75 W 935	175	270	185	110



The luminaires on this double page are equipped with a door for convenient relamping.



Pendant luminaire

	Base	Lamp	Lumen	A	B	C
B 1065	General service lamp	E 27 1 A 60	60 W 710	175	300	1500



Wall luminaire Protection class IP 23
 Pendant luminaire Protection class IP 20

Luminaires with:

- lamp base E 27 for general service lamps A 60

If the luminaires are to be operated with energy-saving lamps instead of general service lamps, we recommend using halogen lamps type QA.

Our lamp table with information on manufacturers is given on pages 164 -165.

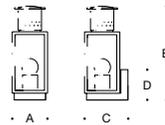
Antique glass panes

Die cast aluminium, aluminium and stainless steel

Enamel finish, colour graphite

Pendant luminaire with chain pendant and canopy

Door to open the luminaire



Wall luminaire

	Base	Lamp	Lumen	A	B	C	D
B 1349	General service lamp	E 27 1 A 60	100 W 1340	130	340	165	110



Pendant luminaire

	Base	Lamp	Lumen	A	B	C
B 1066	General service lamp	E 27 1 A 60	75 W 935	130	400	1600



Wall luminaires und pillar luminaires

Unshielded luminaires with heavy, hand-blown crystal glass. Wall luminaires and pillar luminaires with lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60. The wall luminaires are equipped for near-wall installation or with a wall arm.

The luminaire shown on page 120 has a low overhang and is suitable for applications where a limited distance to the wall is required for technical or design reasons. It has a rectangular layout and also emits its light to the top.

The wall luminaire with wall arm and the pillar luminaire are shielded to the top.



Wall luminaires and pillar luminaires

Protection class IP 44

Luminaires with:

- lamp base E 27 either for fluorescent lamps TC-TSE or general service lamps A 60

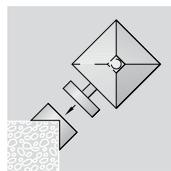
If luminaire B 1362 is to be operated with energy-saving lamps instead of general service lamps, we recommend using halogen lamps type QA.

Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown crystal glass

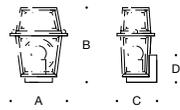
Die cast aluminium, aluminium and stainless steel

Enamel finish, colour graphite



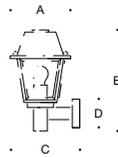
We supply a matching corner block made of die cast aluminium and stainless steel for installing wall luminaire B 1325 to the corners of buildings.

Technical data, page 160.



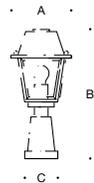
Wall luminaire for near-wall installation

	Base	Lamp	Lumen	A	B	C	D
B 1362 General service lamp	E 27	1 A 60 75 W	935	225	290	155	110



Wall luminaire with wall arm

	Base	Lamp	Lumen	A	B	C	D
B 1325 Fluorescent or	E 27	1 TC-TSE 20 W	1230	240	390	270	110
general service lamp	E 27	1 A 60 100 W	1340	240	390	270	110



Pillar luminaire

	Base	Lamp	Lumen	A	B	C
B 1625 Fluorescent or	E 27	1 TC-TSE 20 W	1230	240	500	130
general service lamp	E 27	1 A 60 100 W	1340	240	500	130



Wall luminaires, pillar luminaires and pendant luminaires
» Amsterdam «



A series comprising wall luminaires, pillar luminaires and pendant luminaires.

Luminaires shielded to the top with lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60. These luminaires are characterized by their clear shape, hand-blown crystal bubble glass and a strong grid. The grid protects the luminaire glass and creates an effective light and shadow play.

The luminaires are suitable for a host of lighting applications around houses, in gardens or parks.

Wall luminaires, pillar luminaires Protection class IP 44
Pendant luminaires Protection class IP 20

Luminaires with:

- lamp base E 27 either for fluorescent lamps TC-TSE or general service lamps A 60

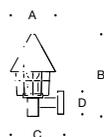
Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown crystal bubble glass

Die cast aluminium, aluminium and stainless steel

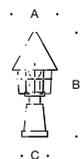
Enamel finish, colour graphite

Pendant luminaire with chain pendant and canopy



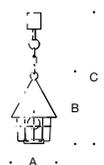
Wall luminaire

		Base	Lamp	Lumen	A	B	C	D
B 1379	Fluorescent or	E 27	1 TC-TSE 15 W	900	220	400	270	110
	general service lamp	E 27	1 A 60 75 W	935	220	400	270	110



Pillar luminaire

		Base	Lamp	Lumen	A	B	C
B 1659	Fluorescent or	E 27	1 TC-TSE 15 W	900	220	500	130
	general service lamp	E 27	1 A 60 75 W	935	220	500	130



Pendant luminaire

		Base	Lamp	Lumen	A	B	C
B 1062	Fluorescent or	E 27	1 TC-TSE 15 W	900	220	310	1500
	general service lamp	E 27	1 A 60 75 W	935	220	310	1500



Wall luminaires » Strasbourg «

A series of wall luminaires, pillar luminaires and pole-top luminaires. The pillar luminaires are given on page 126, the pole-top luminaires on page 146. Wall luminaires in three designs: with low overhang for near-wall installation, with wall arm or hanging with outrigger arm.

These luminaires are available in different sizes, light outputs and types of glass, equipped with hand-blown crystal bubble glass, opal glass or single panes of antique glass. The different types of glass are given in the tables.



Wall luminaires

Protection class IP 44

Luminaires with:

- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60 · A 65
- lamp base G 24 d-1 for fluorescent lamps TC-D
- lamp base GX 24 d-3 for fluorescent lamps TC-T

Our lamp table with information on manufacturers is given on pages 164 -165.

For types of glass, see tables.

Die cast aluminium and stainless steel

Colour: graphite – article number

white – article number + **W**



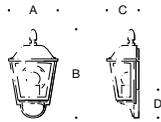
Pillar luminaires and pole-top luminaires whose shape, construction and light output match the luminaires shown here are given on the following pages:

Pillar luminaires - page 126

Pole-top luminaires - page 146

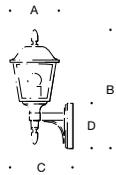


All the luminaires on this double page are also available in white.



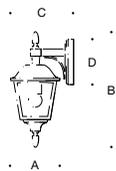
Wall luminaire for near-wall installation

		Base	Lamp	Lumen		A	B	C	D	Type of glass
B 1430	Fluorescent or	E 27	1 TC-TSE	11 W	660	215	375	140	110	Antique panes
	general service lamp	E 27	1 A 60	60 W	710	215	375	140	110	Antique panes



Wall luminaires with wall arm

		Base	Lamp	Lumen		A	B	C	D	Type of glass
B 1426	Fluorescent or	E 27	1 TC-TSE	11 W	660	170	360	230	110	Crystal bubble
	general service lamp	E 27	1 A 60	60 W	710	170	360	230	110	Crystal bubble
B 1428	Fluorescent or	E 27	1 TC-TSE	20 W	1230	215	515	275	110	Crystal bubble
	general service lamp	E 27	1 A 60	100 W	1340	215	515	275	110	Crystal bubble
B 1442	General service lamp	E 27	1 A 65	150 W	2160	260	720	385	130	Crystal bubble
B 1457	Fluorescent lamp	G 24 d-1	1 TC-D	13 W	900	215	515	275	110	Opal
B 1459	Fluorescent lamp	GX 24 d-3	1 TC-T	26 W	1800	260	720	385	130	Opal



Wall luminaires with outrigger arm · hanging

		Base	Lamp	Lumen		A	B	C	D	Type of glass
B 1427	Fluorescent or	E 27	1 TC-TSE	11 W	660	170	360	230	110	Crystal bubble
	general service lamp	E 27	1 A 60	60 W	710	170	360	230	110	Crystal bubble
B 1429	Fluorescent or	E 27	1 TC-TSE	20 W	1230	215	515	275	110	Crystal bubble
	general service lamp	E 27	1 A 60	100 W	1340	215	515	275	110	Crystal bubble
B 1444	General service lamp	E 27	1 A 65	150 W	2160	260	720	385	130	Crystal bubble



Pillar luminaires » Strasbourg «

A series of wall luminaires, pillar luminaires and pole-top luminaires.

The matching wall luminaires are given on page 124, the pole-top luminaires on page 146.

Pillar luminaires in two designs, in different sizes, light outputs and types of glass. They are equipped with hand-blown crystal bubble glass or hand-blown, three-ply opal glass.

The different types of glass are shown in the tables.



Wall luminaires and pole-top luminaires whose shape, construction and light output match the luminaires shown here are given on the following pages:

Wall luminaires - page 124

Pole-top luminaires - page 146





Pillar luminaires
Protection class IP 44

Luminaires with:

- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60 · A 65
- lamp base G 24 d-1 for fluorescent lamps TC-D
- lamp base GX 24 d-3 for fluorescent lamps TC-T

Our lamp table with information on manufacturers is given on pages 164 -165.

For types of glass, see tables · Die cast aluminium and stainless steel

Colour: graphite – article number
white – article number + **W**



		Base	Lamp	Lumen	A	B	C	Type of glass	
B 1550	Fluorescent or	E 27	1 TC-TSE	11 W	660	170	360	110	Crystal bubble
	general service lamp	E 27	1 A 60	60 W	710	170	360	110	Crystal bubble
B 1551	Fluorescent or	E 27	1 TC-TSE	20 W	1230	215	490	150	Crystal bubble
	general service lamp	E 27	1 A 60	100 W	1340	215	490	150	Crystal bubble
B 1571	General service lamp	E 27	1 A 65	150 W	2160	260	630	170	Crystal bubble
B 1538	Fluorescent lamp	G 24 d-1	1 TC-D	13 W	900	215	490	150	Opal
B 1539	Fluorescent lamp	GX 24 d-3	1 TC-T	26 W	1800	260	630	170	Opal



		Base	Lamp	Lumen	A	B	C	Type of glass	
B 1552	Fluorescent or	E 27	1 TC-TSE	20 W	1230	215	725	150	Crystal bubble
	general service lamp	E 27	1 A 60	100 W	1340	215	725	150	Crystal bubble
B 1573	General service lamp	E 27	1 A 65	150 W	2160	260	970	170	Crystal bubble
B 1540	Fluorescent lamp	G 24 d-1	1 TC-D	13 W	900	215	725	150	Opal
B 1541	Fluorescent lamp	GX 24 d-3	1 TC-T	26 W	1800	260	970	170	Opal



Wall luminaires » Bruges «

This series comprises wall luminaires, pillar luminaires and pole-top luminaires. The pillar luminaires are given on page 130, the pole-top luminaires on page 148. Wall luminaires in three designs: with low overhang for near-wall installation, with wall arm or hanging with outrigger arm.

They are available in different sizes, light outputs and types of glass.

We supply them with hand-blown crystal bubble glass, opal glass or single panes of antique glass or opal glass. The different types of glass are shown in the tables.



Wall luminaires

Protection class IP 44

Luminaires with:

- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60 · A 65
- lamp base G 24 d-1 for fluorescent lamps TC-D
- lamp base GX 24 d-3 for fluorescent lamps TC-T

Our lamp table with information on manufacturers is given on pages 164 -165.

For types of glass, see tables.

Die cast aluminium and stainless steel

Colour: graphite – article number

white – article number + **W**



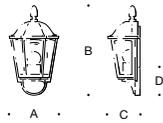
Pillar luminaires and pole-top luminaires whose shape, construction and light output match the luminaires shown here are given on the following pages:

Pillar luminaires - page 130

Pole-top luminaires - page 148

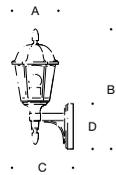


All the luminaires on this double page are also available in white.



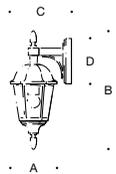
Wall luminaire for near-wall installation

		Base	Lamp	Lumen		A	B	C	D	Type of glass
B 1435	Fluorescent or	E 27	1 TC-TSE	11 W	660	215	375	130	110	Antique panes
	general service lamp	E 27	1 A 60	60 W	710	215	375	130	110	Antique panes



Wall luminaires with wall arm

		Base	Lamp	Lumen		A	B	C	D	Type of glass
B 1415	Fluorescent or	E 27	1 TC-TSE	20 W	1230	210	540	270	110	Crystal bubble
	general service lamp	E 27	1 A 60	100 W	1340	210	540	270	110	Crystal bubble
B 1409	General service lamp	E 27	1 A 65	150 W	2160	280	750	390	130	Antique panes
B 1482	Fluorescent lamp	G 24 d-1	1 TC-D	13 W	900	210	540	270	110	Opal
B 1483	Fluorescent lamp	GX 24 d-3	1 TC-T	26 W	1800	280	750	390	130	Opal panes



Wall luminaires with outrigger arm · hanging

		Base	Lamp	Lumen		A	B	C	D	Type of glass
B 1434	Fluorescent or	E 27	1 TC-TSE	20 W	1230	210	510	270	110	Crystal bubble
	general service lamp	E 27	1 A 60	100 W	1340	210	510	270	110	Crystal bubble
B 1499	Fluorescent lamp	G 24 d-1	1 TC-D	13 W	900	210	510	270	110	Opal



Pillar luminaires » Bruges «

A luminaire series comprising wall luminaires, pillar luminaires and pole-top luminaires. Matching wall luminaires are given on page 128, pole-top luminaires on page 148.

The pillar luminaires are available in two shapes, different sizes, light outputs and types of glass. They are equipped with hand-blown crystal bubble glass, opal glass or single panes of antique glass or opal glass.

The different types of glass are given in the tables.



Wall luminaires and pole-top luminaires whose shape, construction and light output match the luminaires shown here are given on the following pages:

Wall luminaires - page 128

Pole-top luminaires - page 148





Pillar luminaires · Protection class IP 44

Luminaires with:

- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60 · A 65
- lamp base G 24 d-1 for fluorescent lamps TC-D
- lamp base GX 24 d-3 for fluorescent lamps TC-T

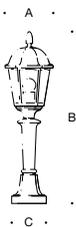
Our lamp table with information on manufacturers is given on pages 164 -165.

For types of glass, see tables · Die cast aluminium and stainless steel

Colour: graphite – article number
white – article number + **W**



		Base	Lamp		Lumen	A	B	C	Type of glass
B 1693	Fluorescent or	E 27	1 TC-TSE	20 W	1230	210	540	130	Crystal bubble
	general service lamp	E 27	1 A 60	100 W	1340	210	540	130	Crystal bubble
B 1689	General service lamp	E 27	1 A 65	150 W	2160	280	750	170	Antique panes
B 1543	Fluorescent lamp	G 24 d-1	1 TC-D	13 W	900	210	540	130	Opal
B 1544	Fluorescent lamp	GX 24 d-3	1 TC-T	26 W	1800	280	750	170	Opal panes



		Base	Lamp		Lumen	A	B	C	Type of glass
B 1559	Fluorescent or	E 27	1 TC-TSE	20 W	1230	210	750	150	Crystal bubble
	general service lamp	E 27	1 A 60	100 W	1340	210	750	150	Crystal bubble
B 1564	General service lamp	E 27	1 A 65	150 W	2160	280	1010	175	Antique panes
B 1546	Fluorescent lamp	G 24 d-1	1 TC-D	13 W	900	210	750	150	Opal
B 1547	Fluorescent lamp	GX 24 d-3	1 TC-T	26 W	1800	280	1010	175	Opal panes



Wall luminaires and pillar luminaires »Hamburg«



A series of wall luminaires, pillar luminaires and pole-top luminaires. The pole-top luminaires are given on page 150.

Luminaires with rotationally symmetrical light distribution in different sizes and light outputs for fluorescent lamps or general service lamps. Hand-blown opal glass provides soft and uniform light distribution. To special order, we also supply these luminaires with other electrical equipment and in Safety class II.



Page 150



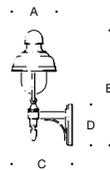
Wall luminaires and pillar luminaires
Protection class IP 44

Luminaires with:

- lamp base E 27 for general service lamps A 60
- lamp base GX 24 d-3 for fluorescent lamps TC-T

If the luminaires are to be operated with energy-saving lamps instead of general service lamps, we recommend using halogen lamps type QA. Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown opal glass with thread
Die cast aluminium, aluminium and stainless steel
Enamel finish, colour graphite



Wall luminaires

		Base	Lamp	Lumen	A	B	C	D
B 1433	General service lamp	E 27	1 A 60 75 W	935	215	520	280	110
B 1221	Fluorescent lamp	GX 24 d-3	2 TC-T 26 W	3600	295	750	400	130



Pillar luminaires

		Base	Lamp	Lumen	A	B	C
B 1554	General service lamp	E 27	1 A 60 75 W	935	215	580	130
B 1517	Fluorescent lamp	GX 24 d-3	2 TC-T 26 W	3600	295	770	150





Wall luminaires and pillar luminaires » Rome «

A luminaire series comprising wall luminaires, pillar luminaires and pole-top luminaires. The pole-top luminaires are given on page 152.

These luminaires with different light outputs and types of glass are designed for fluorescent lamps or general service lamps. They are equipped with hand-blown crystal bubble glass or with single panes of antique glass or opal glass. Information on lamps, light outputs and types of glass is shown in the tables. The luminaires for fluorescent lamps TC-TEL are equipped with electronic ballasts. These luminaires can be fitted with either 26 · 32 · 42 W lamps.

To special order, we also supply these luminaires with other electrical equipment and in Safety class II.



Page 152





B 1431



B 1381 · B 1351



B 1553



B 1662 · B 1653

Wall luminaires and pillar luminaires

Protection class IP 23

B 1431 · B 1553 Protection class IP 44

Luminaires with:

- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60 · A 65
- lamp base GX 24 q-3/4 for fluorescent lamps TC-TEL

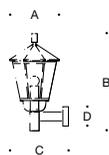
Our lamp table with information on manufacturers is given on pages 164 -165.

For types of glass, see table.

Die cast aluminium, aluminium and stainless steel

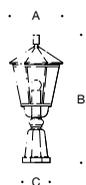
Enamel finish, colour graphite

B 1351 · B 1653 with electronic ballast



Wall luminaires

		Base	Lamp	Lumen	A	B	C	D	Type of glass
B 1431	Fluorescent or	E 27	1 TC-TSE 20 W	1230	210	390	260	110	Crystal bubble
	general service lamp	E 27	1 A 60 100 W	1340	210	390	260	110	Crystal bubble
B 1381	General service lamp	E 27	1 A 65 150 W	2160	340	670	400	130	Antique panes
B 1351	Fluorescent lamp	GX 24 q-3/4	1 TC-TEL 42 W	3200	340	670	400	130	Opal panes



Pillar luminaires

		Base	Lamp	Lumen	A	B	C	Type of glass
B 1553	Fluorescent or	E 27	1 TC-TSE 20 W	1230	210	510	130	Crystal bubble
	general service lamp	E 27	1 A 60 100 W	1340	210	510	130	Crystal bubble
B 1662	General service lamp	E 27	1 A 65 150 W	2160	340	830	180	Antique panes
B 1653	Fluorescent lamp	GX 24 q-3/4	1 TC-TEL 42 W	3200	340	830	180	Opal panes



Wall luminaires and pillar luminaires » Berlin «



This series comprises wall luminaires, pillar luminaires and pole-top luminaires.

The pole-top luminaires are given on page 154.

These luminaires are designed for fluorescent lamps or general service lamps with different light outputs and types of glass. They are equipped with single panes of antique glass or opal glass. Information on lamps, light outputs and types of glass is shown in the tables.

The luminaires for fluorescent lamps TC-TEL are equipped with electronic ballasts. These luminaires can be fitted with either 26 · 32 · 42 W lamps. To special order, we also supply them with other electrical equipment and in Safety class II.



Page 154



Wall luminaires and pillar luminaires Protection class IP 23
 B 1343 · B 1356 · B 1638 · B 1656 Protection class IP 44

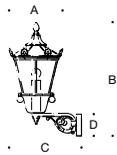
Luminaires with:

- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60 · A 65
- lamp base GX 24 q-3/4 for fluorescent lamps TC-TEL

Our lamp table with information on manufacturers is given on pages 164 -165.

Antique glass panes or opal glass panes · Aluminium, die cast aluminium and stainless steel
 Enamel finish, colour graphite

B 1355 · B 1356 · B 1654 · B 1656 with electronic ballast



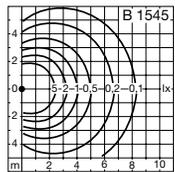
Wall luminaires										
		Base	Lamp	Lumen	A	B	C	D	Type of glass	
B 1410	Fluorescent or	E 27	1 TC-TSE	20 W	1230	260	550	320	110	Antique panes
	general service lamp	E 27	1 A 60	100 W	1340	260	550	320	110	Antique panes
B 1344	General service lamp	E 27	1 A 65	150 W	2160	365	800	480	150	Antique panes
B 1343	General service lamp	E 27	1 A 65	150 W	2160	525	1250	710	190	Antique panes
B 1355	Fluorescent lamp	GX 24 q-3/4	1 TC-TEL	42 W	3200	365	800	480	150	Opal panes
B 1356	Fluorescent lamp	GX 24 q-3/4	2 TC-TEL	42 W	6400	525	1250	710	190	Opal panes



Pillar luminaires									
		Base	Lamp	Lumen	A	B	C	Type of glass	
B 1688	Fluorescent or	E 27	1 TC-TSE	20 W	1230	260	640	130	Antique panes
	general service lamp	E 27	1 A 60	100 W	1340	260	640	130	Antique panes
B 1639	General service lamp	E 27	1 A 65	150 W	2160	365	950	150	Antique panes
B 1638	General service lamp	E 27	1 A 65	150 W	2160	525	1400	200	Antique panes
B 1654	Fluorescent lamp	GX 24 q-3/4	1 TC-TEL	42 W	3200	365	950	150	Opal panes
B 1656	Fluorescent lamp	GX 24 q-3/4	2 TC-TEL	42 W	6400	525	1400	200	Opal panes



Garden luminaire with directed light



Garden luminaire with directed light, equipped with hand-blown, three-ply opal glass.
Luminaire with lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60.
The defined light direction is especially suitable for illuminating surfaces in front of the luminaire.
These luminaires effectively illuminate paths, steps and seating areas in gardens and provide pleasant atmospheric light.



Page 106

Garden luminaire
Protection class IP 64

Luminaire with:

- lamp base E 27 either for fluorescent lamps TC-TSE or general service lamps A 60

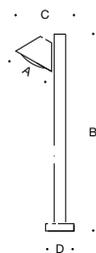
Our lamp table with information on manufacturers is given on pages 164 - 165.

Hand-blown opal glass with thread

Die cast aluminium, aluminium and stainless steel

Enamel finish, colour graphite

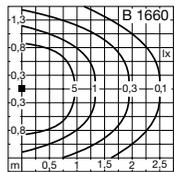
Die cast aluminium mounting plate for bolting to a foundation or anchorage unit. Technical data, page 161.



		Base	Lamp		Lumen	A	B	C	D	Anch. unit
B 1545	Fluorescent or general service lamp	E 27	1 TC-TSE	11 W	660	200	1000	300	140	B 572
		E 27	1 A 60	60 W	710	200	1000	300	140	



Garden luminaire with directed light



Garden luminaire with directed light, equipped with hand-blown, crystal bubble glass. Luminaire with lamp base E 27 for fluorescent lamps TC-TSE or general service lamps. The light from the luminaire is shielded to the top and front by an aluminium shield, and directed onto the illuminated surface.

These luminaires are ideal for illuminating paths, flower-beds and terraces.

The light from these shielded luminaires guides or directs. They are durable design elements in garden architecture, providing pleasant atmospheric light.



Page 102

Garden luminaire
Protection class IP 64

Luminaire with:

- lamp base E 27 either for fluorescent lamps TC-TSE or general service lamps A 60

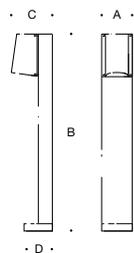
Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown crystal bubble glass

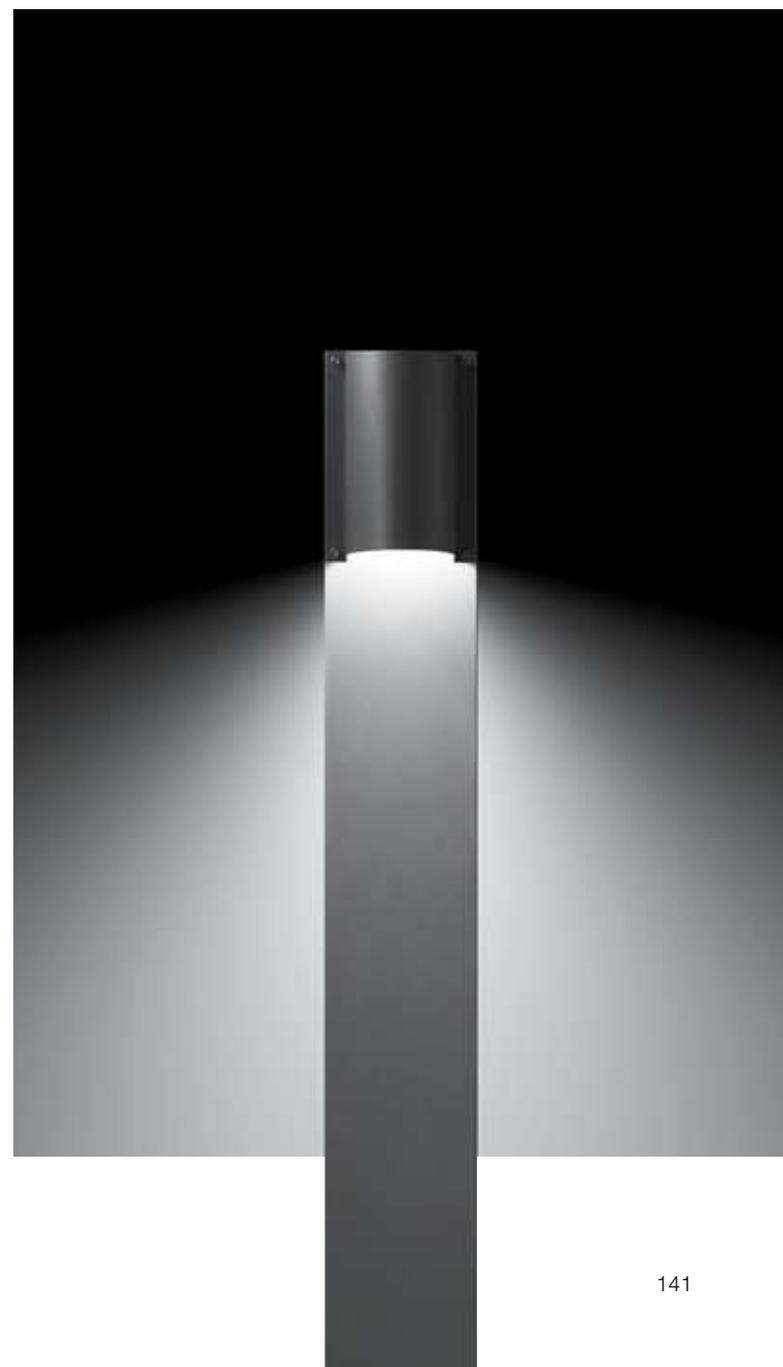
Die cast aluminium, aluminium and stainless steel

Enamel finish, colour graphite

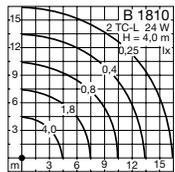
Die cast aluminium mounting plate for bolting to a foundation or anchorage unit. Technical data, page 161.



		Base	Lamp		Lumen	A	B	C	D	Anch.unit
B 1660	Fluorescent or general service lamp	E 27	1 TC-TSE	11 W	660	160	1000	210	160	B 572
		E 27	1 A 60	60 W	710	160	1000	210	160	



Pole-top luminaire for mounting heights 4000 - 4800mm



Unshielded pole-top luminaire with symmetrical light distribution for fluorescent lamps and for different mounting heights. Our recommendations for pole heights and matching poles are given in the table on pages 158 - 159.

This luminaire is designed to illuminate squares, parks, driveways and traffic calmed zones. To special order, the luminaire is also available with other electrical equipment and in Safety class II. Luminaires with a similar shape and lighting characteristics but made of copper and brass are shown on page 88.



Pole-top luminaire
Protection class IP 65

Luminaire with:

- lamp base 2 G 11 for fluorescent lamps TC-L
with electronic ballast for 18 W or 24 W

Our lamp table with information on manufacturers
is given on pages 164 -165.

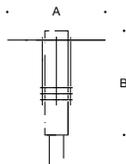
Plastic cylinder, white with thread

Die cast aluminium, aluminium and stainless steel

Enamel finish, colour graphite

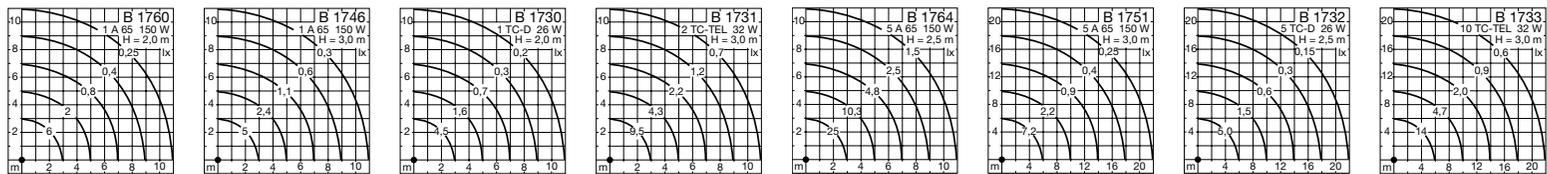
In the table, we recommend BOOM luminaire poles whose surface finish,
colour, design and statics match the pole-top luminaires on this double page.

A complete overview including technical data of all BOOM luminaire poles,
anchorage units and connection boxes is given on pages 158 -161.



Pole-top luminaire						Luminaire poles			
	Base	Lamp	Lumen	A	B	Height	Top	Pole	Group
B 1810	Fluorescent lamp	2 G 11	2 TC-L 24 W	3600	650 700	4000 - 4800	76	B 593 · B 594	45

Unshielded pole-top luminaires » Paris «
for mounting heights 1600 - 4000 mm



Pole-top luminaires with hand-blown, three-ply opal glass spheres, available in three sizes for different mounting heights. These pole-tops are ready for installation in single or quintuple configuration. We recommend a corresponding pole height for each size of luminaire. Our recommendations for matching poles are given in the tables on pages 158 -159. The luminaires for fluorescent lamps TC-TEL are equipped with electronic ballasts. They can be fitted with either 26 · 32 W lamps. To special order, these pole-top luminaires are also available with other electrical equipment and in Safety class II.





Single and quintuple pole-top luminaires

Protection class IP 44

Luminaires with:

- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60 · A 65
- lamp base G 24 d-3 for fluorescent lamps TC-D
- lamp base GX 24 q-3 for fluorescent lamps TC-TEL

Our lamp table with information on manufacturers is given on pages 164 -165.

Hand-blown opal glass · Aluminium, die cast aluminium and stainless steel

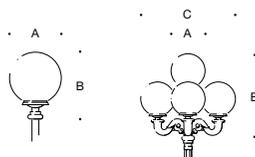
B 1731 · B 1733 with electronic ballast

We recommend BOOM luminaire poles in the table which match the surface finish, colour, design and statics of the pole-top luminaires on this double page.

A complete overview including technical data of all BOOM luminaire poles, anchorage units and connection boxes is given on pages 158 -161.

Colour: graphite – article number

white – article number + **W**



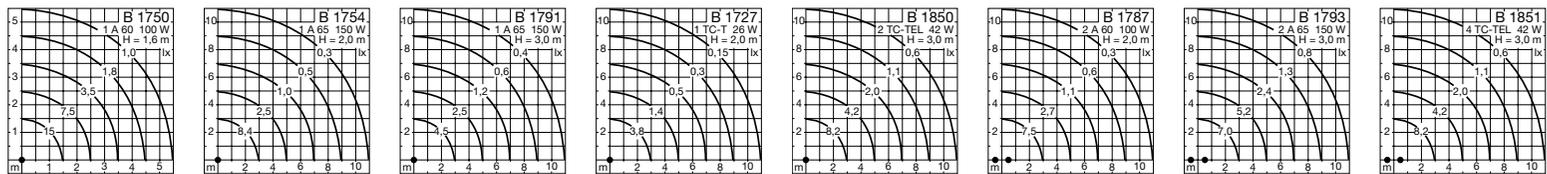
Single pole-top luminaires						
	Base	Lamp		Lumen	A	B
B 1758 Fluorescent or general service lamp	E 27	1 TC-TSE	20 W	1230	250	340
	E 27	1 A 60	100 W	1340	250	340
B 1760 General service lamp	E 27	1 A 65	150 W	2160	350	440
B 1746 General service lamp	E 27	1 A 65	150 W	2160	450	640
B 1730 Fluorescent lamp	G 24 d-3	1 TC-D	26 W	1800	350	440
B 1731 Fluorescent lamp	GX 24 q-3	2 TC-TEL	32 W	4800	450	640

Luminaire poles					
Height	Top	Pole	Group	Pole	Group
1600 -2000	60	B 538	B 539	44	
1600 -2000	60	B 538	B 539	44	
2000	60	B 539		44	
3000 -4000	76	B 541		44	B 593 45
2000	60	B 539		44	B 593 45
3000 -4000	76	B 541		44	B 593 45

Quintuple pole-top luminaires							
	Base	Lamp		Lumen	A	B	C
B 1764 General service lamp	E 27	5 A 65	150 W	10800	350	940	980
B 1751 General service lamp	E 27	5 A 65	150 W	10800	450	1180	1250
B 1732 Fluorescent lamp	G 24 d-3	5 TC-D	26 W	9000	350	940	980
B 1733 Fluorescent lamp	GX 24 q-3	10 TC-TEL	32 W	24000	450	1180	1250

Luminaire poles					
Height	Top	Pole	Group	Pole	Group
2500 -3500	76	B 540	B 541	44	
3000 -4000	76	B 541		44	B 593 45
2500 -3500	76	B 540	B 541	44	
3000 -4000	76	B 541		44	B 593 45

Single or double pole-top luminaires » Strasbourg «
for mounting heights 1600 - 4000 mm



Luminaires in three sizes for different light outputs and mounting heights. Pole-tops ready for installation in single or double configuration. We recommend a corresponding pole height for each size of luminaire. Matching poles are given in the tables on pages 158 - 159. These luminaires are equipped with hand-blown crystal bubble glass or opal glass. The respective types of glass are given in the tables. The luminaires for fluorescent lamps TC-TEL are equipped with electronic ballasts. They can be fitted with either 26 · 32 · 42 W fluorescent lamps. To special order, these pole-top luminaires are also available with other electrical equipment and in Safety class II.



Pages 124 - 127



Single and **double** pole-top luminaires Protection class IP 44
 B 1791 · B 1850 · B 1793 · B 1851 Protection class IP 65

Luminaires with:

- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60 · A 65
- lamp base GX 24 d-3 for fluorescent lamps TC-T
- lamp base GX 24 q-3/4 for fluorescent lamps TC-TEL

Our lamp table with information on manufacturers is given on pages 164 -165.

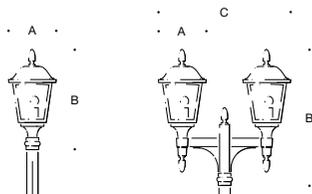
For types of glass, see table · Die cast aluminium and stainless steel

B 1850 · B 1851 with electronic ballast

We recommend BOOM luminaire poles in the table which match the surface finish, colour, design and statics of the pole-top luminaires on this double page.

A complete overview including technical data of all BOOM luminaire poles, anchorage units and connection boxes is given on pages 158 -161.

Colour: graphite – article number
 white – article number + **W**



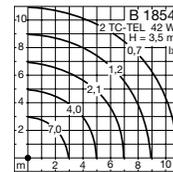
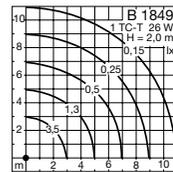
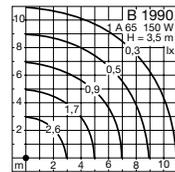
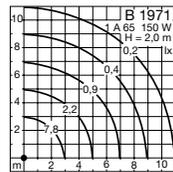
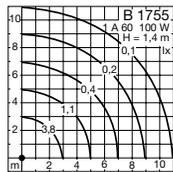
Single pole-top luminaires								
	Base	Lamp	Lumen	A	B	Type of glass		
B 1750	Fluorescent or	E 27	1 TC-TSE	20 W	1230	215	430	Crystal bubble
	general service lamp	E 27	1 A 60	100 W	1340	215	430	Crystal bubble
B 1754	General service lamp	E 27	1 A 65	150 W	2160	260	555	Crystal bubble
B 1791	General service lamp	E 27	1 A 65	150 W	2160	400	840	Crystal bubble
B 1727	Fluorescent lamp	GX 24 d-3	1 TC-T	26 W	1800	260	555	Opal
B 1850	Fluorescent lamp	GX 24 q-3/4	2 TC-TEL	42 W	6400	400	840	Opal

Luminaire poles					
Height	Top	Pole	Group	Pole	Group
1600 - 2000	60	B 538 · B 539	44		
1600 - 2000	60	B 538 · B 539	44		
2000	60	B 539	44		
3000 - 4000	76	B 541	44	B 593	45
2000	60	B 539	44		
3000 - 4000	76	B 541	44	B 593	45

Double pole-top luminaires									
	Base	Lamp	Lumen	A	B	C	Type of glass		
B 1787	Fluorescent or	E 27	2 TC-TSE	20 W	2460	215	560	550	Crystal bubble
	general service lamp	E 27	2 A 60	100 W	2680	215	560	550	Crystal bubble
B 1793	General service lamp	E 27	2 A 65	150 W	4320	400	1150	1100	Crystal bubble
B 1851	Fluorescent lamp	GX 24 q-3/4	4 TC-TEL	42 W	6400	400	1150	1100	Opal

Luminaire poles					
Height	Top	Pole	Group	Pole	Group
1600 - 2000	60	B 539	44		
1600 - 2000	60	B 539	44		
3000 - 4000	76	B 541	44	B 593	45
3000 - 4000	76	B 541	44	B 593	45

Pole-top luminaires » Bruges «
for mounting heights 1400 - 4000 mm



Luminaires in three sizes for different light outputs and mounting heights.

We recommend a corresponding pole height for each size of luminaire. Matching poles are given in the tables on pages 158 -159.

These luminaires are equipped with hand-blown crystal bubble glass or single panes of antique glass or opal glass. The respective types of glass are given in the tables.

The luminaires for fluorescent lamps TC-TEL are equipped with electronic ballasts. They can be fitted with either 26 · 32 · 42 W fluorescent lamps.

To special order, these pole-top luminaires are also available with other electrical equipment and in Safety class II.



Pages 128 -131

Pole-top luminaires
Protection class IP 44

Luminaires with:

- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60 · A 65
- lamp base GX 24 d-3 for fluorescent lamps TC-T
- lamp base GX 24 q-3/4 for fluorescent lamps TC-TEL

Our lamp table with information on manufacturers is given on pages 164 -165.

For types of glass, see table · B 1990 · B 1854 Safety glass (ESG)

Aluminium, die cast aluminium and stainless steel

B 1854 with electronic ballast

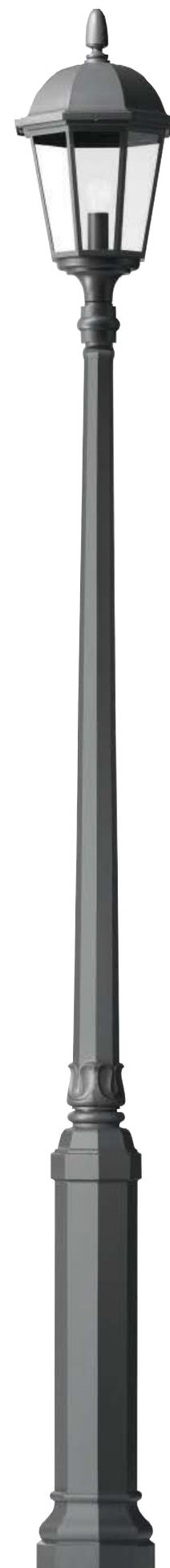
We recommend BOOM luminaire poles in the table which match the surface finish, colour, design and statics of the pole-top luminaires on this double page.

A complete overview including technical data of all BOOM luminaire poles, anchorage units and connection boxes is given on pages 158 -161.

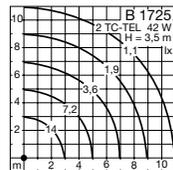
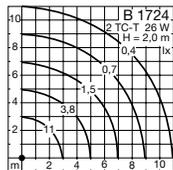
Colour: graphite – article number
white – article number + **W**



Pole-top luminaires							Luminaire poles							
	Base	Lamp		Lumen	A	B	Type of glass	Height	Top	Pole	Group	Pole	Group	
B 1755	Fluorescent or	E 27	1 TC-TSE	20 W	1230	210	445	Crystal bubble	1400 - 2000	60	B 545	41	B 534 · B 535	43
	general service lamp	E 27	1 A 60	100 W	1340	210	445	Crystal bubble	1400 - 2000	60	B 545	41	B 534 · B 535	43
B 1971	General service lamp	E 27	1 A 65	150 W	2160	280	580	Antique panes	2000	60	B 549	48		
B 1990	General service lamp	E 27	1 A 65	150 W	2160	430	895	Antique panes	3500 - 4000	76	B 522	48	B 593	45
B 1849	Fluorescent lamp	GX 24 d-3	1 TC-T	26 W	1800	280	580	Opal panes	2000	60	B 549	48		
B 1854	Fluorescent lamp	GX 24 q-3/4	2 TC-TEL	42 W	6400	430	895	Opal panes	3500 - 4000	76	B 522	48	B 593	45



Pole-top luminaires » Hamburg «
for mounting heights 2000 - 3500 mm



Ladder support, page 160

These luminaires are available in two sizes for different mounting heights. We recommend a corresponding pole height for each size of luminaire. Matching poles are given in the tables on pages 158 -159.

Hand-blown opal glass distributes the light softly and uniformly.

The luminaires for fluorescent lamps TC-TEL are equipped with electronic ballasts.

They can be fitted with either 26 · 32 · 42 W fluorescent lamps.

To special order, these pole-top luminaires are also available with other electrical equipment and in Safety class II.



Page 132



Pole-top luminaires
Protection class IP 44

Luminaires with:

- lamp base GX 24 d-3 for fluorescent lamps TC-T
- lamp base GX 24 q-3/4 for fluorescent lamps TC-TEL

Our lamp table with information on manufacturers is given on pages 164 - 165.

Hand-blown opal glass with thread

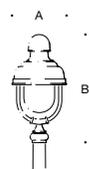
Aluminium, die cast aluminium and stainless steel

Enamel finish, colour graphite

B 1725 with electronic ballast

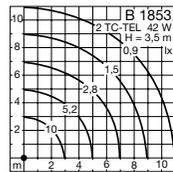
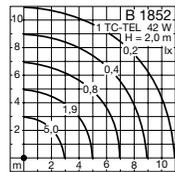
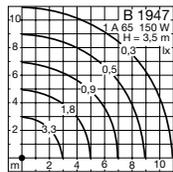
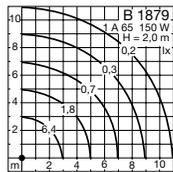
We recommend BOOM luminaire poles in the table which match the surface finish, colour, design and statics of the pole-top luminaires on this double page.

A complete overview including technical data of all BOOM luminaire poles, anchorage units and connection boxes is given on pages 158 - 161.



Pole-top luminaires						Luminaire poles				
		Base	Lamp	Lumen	A	B	Height	Top	Pole	Group
B 1724	Fluorescent lamp	GX 24 d-3	2 TC-T	26 W 3600	290	570	2000	60	B 547	47
B 1725	Fluorescent lamp	GX 24 q-3/4	2 TC-TEL	42 W 6400	445	930	3000 - 3500	76	B 525 · B 526	47

Pole-top luminaires » Rome «
for mounting heights 1600 - 3500 mm



Luminaires in two sizes for different mounting heights. We recommend a corresponding pole height for each size of luminaire. Matching poles are given in the tables on pages 158 - 159.

The luminaires for general service lamps are equipped with single panes of antique glass, the luminaires for fluorescent lamps TC-TEL with single panes of opal glass.

They are equipped with electronic ballasts and can be fitted with either 26 · 32 · 42 W fluorescent lamps.

To special order, these pole-top luminaires are also available with other electrical equipment and in Safety class II.



Page 134

Pole-top luminaires
Protection class IP 23

Luminaires with:

- lamp base E 27 for general service lamps A 65
- lamp base GX 24 q-3/4 for fluorescent lamps TC-TEL

Our lamp table with information on manufacturers is given on pages 164 - 165.

For types of glass, see table · B 1947 · B 1853 Safety glass (ESG)

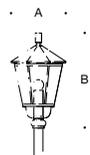
Aluminium, die cast aluminium and stainless steel

Enamel finish, colour graphite

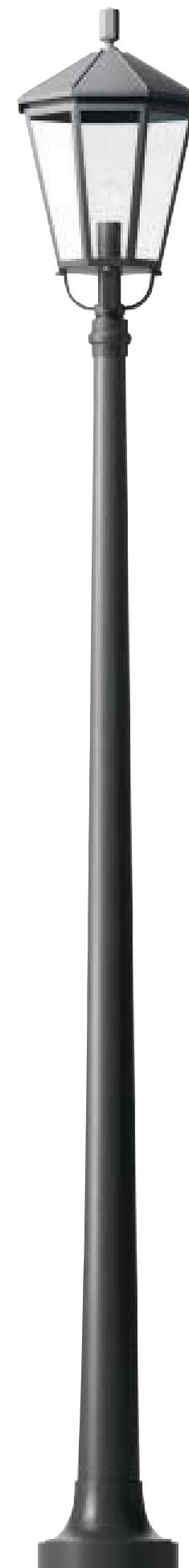
B 1852 · B 1853 with electronic ballast

We recommend BOOM luminaire poles in the table which match the surface finish, colour, design and statics of the pole-top luminaires on this double page.

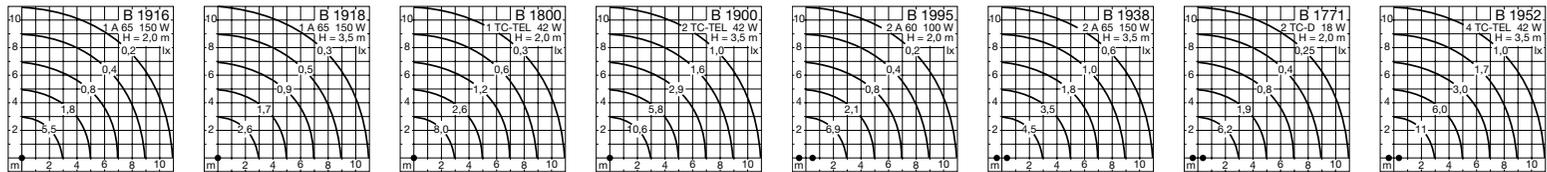
A complete overview including technical data of all BOOM luminaire poles, anchorage units and connection boxes is given on pages 158 - 161.



Pole-top luminaires							Luminaire poles				
		Base	Lamp	Lumen	A	B	Type of glass	Height	Top	Pole	Group
B 1879	General service lamp	E 27	1 A 65	150 W	2160	340 600	Antique panes	1600 - 2000	60	B 534 · B 535	43
B 1947	General service lamp	E 27	1 A 65	150 W	2160	470 900	Antique panes	3000 - 3500	76	B 536 · B 537	43
B 1852	Fluorescent lamp	GX 24 q-3/4	1 TC-TEL	42 W	3200	340 600	Opal panes	1600 - 2000	60	B 534 · B 535	43
B 1853	Fluorescent lamp	GX 24 q-3/4	2 TC-TEL	42 W	6400	470 900	Opal panes	3000 - 3500	76	B 536 · B 537	43



Single or double pole-top luminaires » Berlin «
for mounting heights 1400 - 4000 mm



Luminaires in three sizes for different mounting heights. Pole-tops ready for installation in single or double configuration. Other multiple pole-tops are available to special order. We recommend a corresponding pole height for each size of luminaire. Matching poles are given in the tables on pages 158-159.

The luminaires are equipped with single panes of antique glass or opal glass.

The respective types of glass are given in the table.

The luminaires for fluorescent lamps TC-TEL are equipped with electronic ballasts.

They can be fitted with either 26 · 32 · 42 W fluorescent lamps.

To special order, these luminaires are also available with other electrical equipment and in Safety class II.



Page 136



Single or double pole-top luminaires

Protection class IP 23

B 1900 · B 1918 · B 1938 · B 1952 Protection class IP 44

Luminaires with:

- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60 · A 65
- lamp base G 24 d-2 for fluorescent lamps TC-D
- lamp base GX 24 q-3/4 for fluorescent lamps TC-TEL

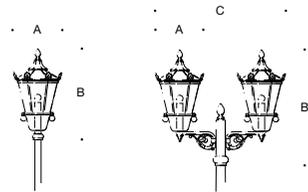
Our lamp table with information on manufacturers is given on pages 164 -165.

For types of glass, see table · B 1900 · B 1918 · B 1938 · B 1952 Safety glass (ESG)
Aluminium, die cast aluminium and stainless steel · Enamel finish, colour graphite

B 1800 · B 1900 · B 1952 with electronic ballast

We recommend BOOM luminaire poles in the table which match the surface finish, colour, design and statics of the pole-top luminaires on this double page.

A complete overview including technical data of all BOOM luminaire poles, anchorage units and connection boxes is given on pages 158 -161.



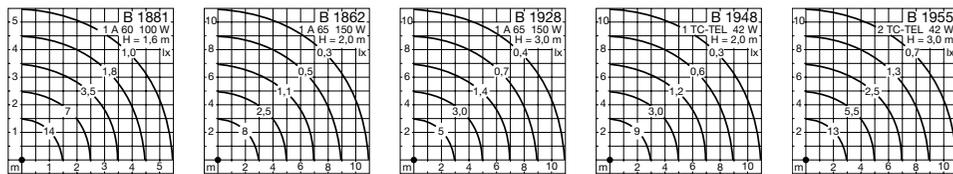
Single pole-top luminaires							
	Base	Lamp	Lumen	A	B	Type of glass	
B 1757 Fluorescent or general service lamp	E 27	1 TC-TSE	20 W	1230	260 510	Antique panes	
	E 27	1 A 60	100 W	1340	260 510	Antique panes	
B 1916 General service lamp	E 27	1 A 65	150 W	2160	365 710	Antique panes	
B 1918 General service lamp	E 27	1 A 65	150 W	2160	525 1070	Antique panes	
B 1800 Fluorescent lamp	GX 24 q-3/4	1 TC-TEL	42 W	3200	365 710	Opal panes	
B 1900 Fluorescent lamp	GX 24 q-3/4	2 TC-TEL	42 W	6400	525 1070	Opal panes	

Luminaire poles					
Height	Top	Pole	Group	Pole	Group
1400 - 2000	60	B 534 · B 535		43	B 545
1400 - 2000	60	B 546			49
2000	60	B 506 · B 521		49	B 593
3000 - 4000	76	B 546			49
2000	60	B 506 · B 521		49	B 593
3000 - 4000	76	B 506 · B 521		49	B 593

Double pole-top luminaires							
	Base	Lamp	Lumen	A	B	C	Type of glass
B 1995 Fluorescent or general service lamp	E 27	2 TC-TSE	20 W	2460	260 620 660		Antique panes
	E 27	2 A 60	100 W	2680	260 620 660		Antique panes
B 1938 General service lamp	E 27	2 A 65	150 W	4320	525 1300 1500		Antique panes
B 1771 Fluorescent lamp	G 24 d-2	2 TC-D	18 W	2400	260 620 660		Opal panes
B 1952 Fluorescent lamp	GX 24 q-3/4	4 TC-TEL	42 W	12800	525 1300 1500		Opal panes

Luminaire poles					
Height	Top	Pole	Group	Pole	Group
2000	60	B 546			49
2000	60	B 546			49
3000 - 4000	76	B 506 · B 521		49	B 593
2000	60	B 546			49
3000 - 4000	76	B 506 · B 521		49	B 593

Pole-top luminaires » Copenhagen «
for mounting heights 1600 - 4000 mm



Luminaires in three sizes for different light outputs and mounting heights.

We recommend a corresponding pole height for each size of luminaire. Matching poles are given in the tables on pages 158 -159.

These luminaires are equipped with hand-blown crystal bubble glass or opal glass. The respective types of glass are given in the tables.

The luminaires for fluorescent lamps TC-TEL are equipped with electronic ballasts. They can be fitted with either 26 · 32 · 42 W fluorescent lamps.

To special order, these pole-top luminaires are also available with other electrical equipment and in Safety class II.





Opal glass

Pole-top luminaires

Protection class IP 23

B 1928 · B 1955 Protection class IP 65

Luminaires with:

- lamp base E 27 for fluorescent lamps TC-TSE or general service lamps A 60 · A 65
- lamp base GX 24 q-3/4 for fluorescent lamps TC-TEL

Our lamp table with information on manufacturers is given on pages 164 - 165.

For types of glass, see table.

Die cast aluminium and aluminium · Enamel finish, colour graphite

Copper luminaire top

B 1948 · B 1955 with electronic ballast

We recommend BOOM luminaire poles in the table which match the surface finish, colour, design and statics of the pole-top luminaires on this double page.

A complete overview including technical data of all BOOM luminaire poles, anchorage units and connection boxes is given on pages 158 - 161.



Pole-top luminaires								Luminaire poles					
		Base	Lamp	Lumen	A	B	Type of glass	Height	Top	Pole	Group	Pole	Group
B 1881	Fluorescent or	E 27	1 TC-TSE	20 W	1230	275	500	Crystal	1600 - 2000	60	B 534 · B 535	43	
	general service lamp	E 27	1 A 60	100 W	1340	275	500	Crystal	1600 - 2000	60	B 534 · B 535	43	
B 1862	General service lamp	E 27	1 A 65	150 W	2160	360	750	Crystal	2000	60	B 535	43	
B 1928	General service lamp	E 27	1 A 65	150 W	2160	510	1150	Crystal	3000 - 4000	76	B 536 · B 537	43	B 593 45
B 1948	Fluorescent lamp	GX 24 q-3/4	1 TC-TEL	42 W	3200	360	750	Opal	2000	60	B 535	43	
B 1955	Fluorescent lamp	GX 24 q-3/4	2 TC-TEL	42 W	6400	510	1150	Opal	3000 - 4000	76	B 536 · B 537	43	B 593 45



Luminaire poles for pole-top luminaires

Luminaire poles made of aluminium and die cast aluminium or copper with die cast bronze base plate.

»System 1« is the mounting system for aluminium poles.

»System 2« is designed for copper poles.

Technical specifications of the two systems are given on page 161.

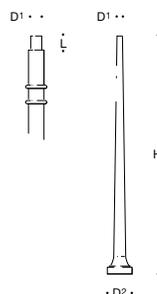
All luminaire poles with door are equipped with a C-clamp and sliding bolts to accommodate a connection box and earth conductor according to DIN 49 778.

Matching connection boxes are given in the table.

For technical data of connection boxes, see page 160.

Aluminium poles are pretreated, powder coated and supplied with a high-quality enamel finish.

We supply the luminaire poles in the same colour as the ordered luminaire. Poles are also supplied in any other RAL colour and DB colour at the catalogue price. We supply copper poles in their natural material colour.

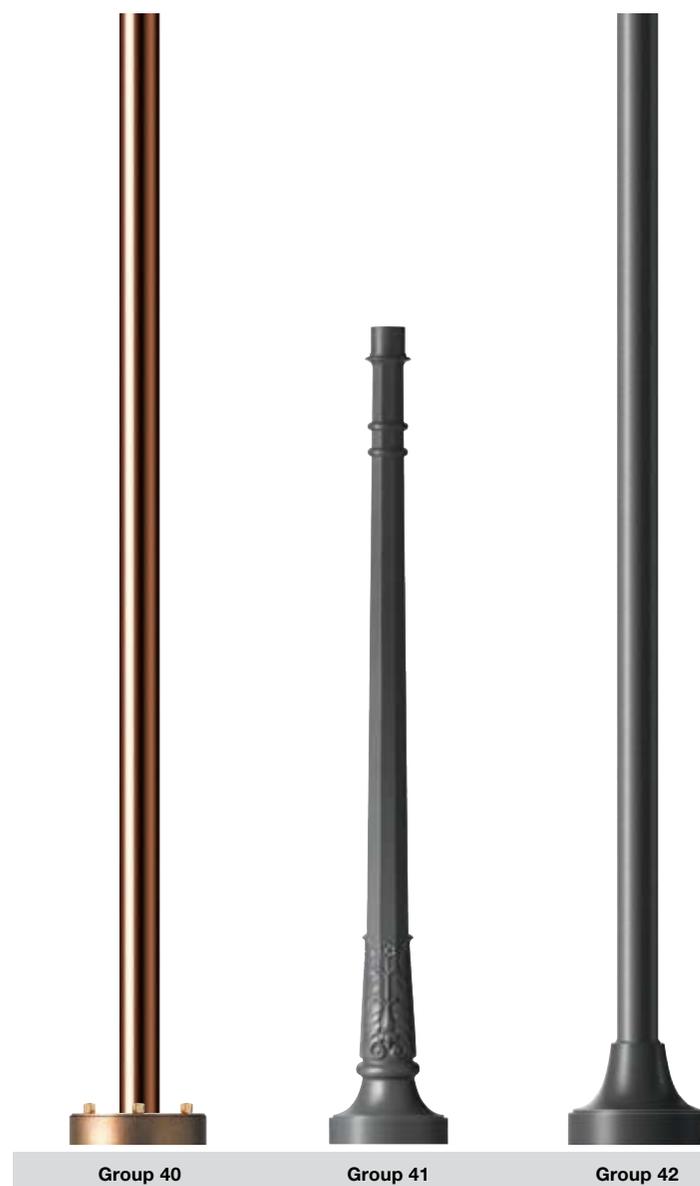


Poles made of copper + die cast bronze · System 2

Illustration	Pole	Height	D ²	D ¹	kg	Connection box	Anch. unit
Group 40	B 552	1700	220	60	7,0	without door	B 573
	B 550	2000	220	60	9,0	without door	B 573
	B 553	2000	220	80	11,5	without door	B 573
	B 551	2400	220	80	14,5	without door	B 573

Poles made of aluminium + die cast aluminium · System 1

Illustration	Pole	Height	D ²	D ¹ xL	kg	Connection box	Ladder supp.	Anch. unit
Group 41	B 545	1400	200	60x45	6,0	without door	–	B 572
Group 42	B 560	1800	200	60	6,0	without door	–	B 572
Group 43	B 534	1600	200	60	9,0	without door	–	B 572
	B 535	2000	200	60	11,0	A	B 586	B 572
	B 536	3000	300	76	19,0	B · C	B 583	B 574
	B 537	3500	300	76	21,0	B · C	B 583	B 574
Group 44	B 538	1600	200	60x45	9,0	without door	–	B 572
	B 539	2000	200	60x45	11,0	A	–	B 572
	B 540	2500	300	76x100	27,0	A · B	–	B 574
	B 541	3000	300	76x100	32,0	A · B	–	B 574
Group 45	B 593	4000	350	76	27,0	B · C	B 583	B 596
	B 594	4800	350	76	29,0	B · C	B 583	B 596
Group 46	B 542	2000	240	60	16,0	A	B 586	B 572
	B 543	3000	400	76x120	34,0	B · C	–	B 582
	B 544	3500	400	76x120	36,0	B · C	–	B 582
Group 47	B 547	2000	200	60	11,0	A	B 586	B 572
	B 525	3000	300	76	26,0	B · C	B 583	B 574
	B 526	3500	300	76	28,0	B · C	B 583	B 574
Group 48	B 549	2000	200	60x45	11,0	A	–	B 572
	B 522	3500	300	76x100	35,0	B · C	–	B 574
Group 49	B 546	2000	200	60	11,0	A	B 579	B 572
	B 506	3000	300	76	31,0	B · C	B 583	B 574
	B 521	3500	300	76	35,0	B · C	B 583	B 574





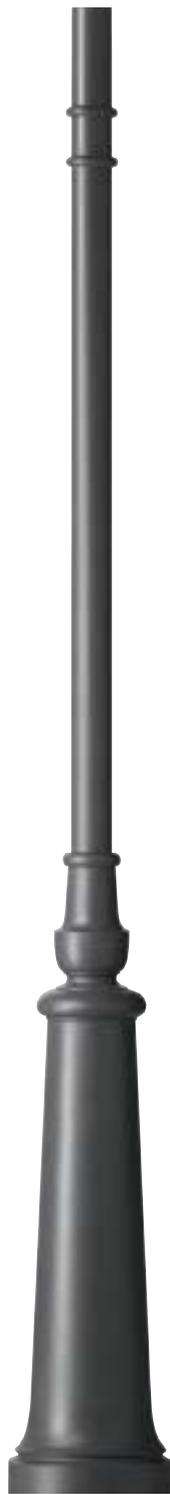
Group 43



Group 44



Group 45



Group 46



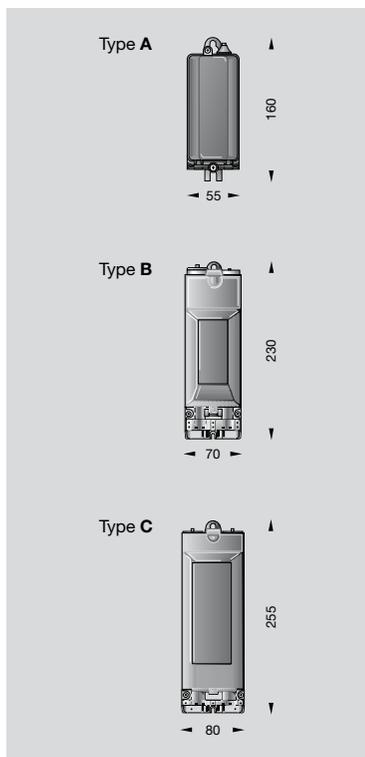
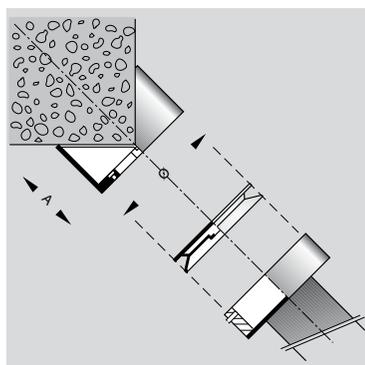
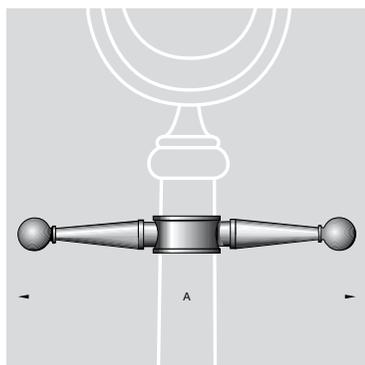
Group 47



Group 48



Group 49



Ladder supports

for installation on poles made of aluminium.

Die cast aluminium · Colour graphite or white. White is denoted by **W** after the article number.

Ladder supports are accessories and must be ordered separately. The corresponding article number for the pole is given in the table on page 158.

		Clamping area	A
B 579	Ladder support	Ø 55 - Ø 57	360
B 586	Ladder support	Ø 60 - Ø 62	360
B 583	Ladder support	Ø 76 - Ø 80	450

Corner blocks

for corner-mounting the wall luminaires. References are given on the relevant pages of the catalogue. Die cast aluminium and stainless steel.

We supply corner blocks to match the luminaires in graphite and white.

When ordering, please specify the colour white = **W** after the article number, otherwise we supply the colour graphite.

To special order, corner blocks are also available in any other RAL or DB colour.

		Pitch circle	A	Ø
B 595	Corner block	Ø 52 2x180° M4	50	90
B 571	Corner block	Ø 70 3x120° M4/2x180° M4	60	110
B 575	Corner block	Ø 85 3x120° M5	70	130
B 585	Corner block	Ø 100 3x120° M6	85	150

Connection boxes

The pole tables on page 158 indicate the matching connection boxes type A · B · C.

Connection boxes are accessories and must be ordered separately.

Housings are made of impact-resistant plastic.

Possible connections, fuses and protection classes are given in the table.

The connection boxes are tested according to DIN 43628/VDE 0660 · Part 505.

Safety class II

The price of the connection box includes installation in the pole.

The illustrations show the connection boxes when closed.

Type	Fuses	Inputs	Outputs	Protection class	
A	B 555	1 Neozed 16 A	2 5x4 [□]	1 3x1,5 [□]	IP 55
B	B 556	2 Neozed 16 A	2 5x16 [□]	2 3x2,5 [□]	IP 54
C	B 557	3 Neozed 16 A	3 5x16 [□]	2 5x2,5 [□]	IP 54

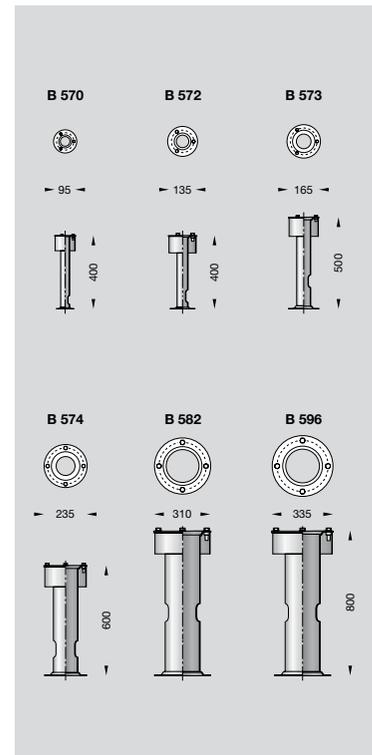
Anchorage units for garden luminaires and luminaire poles

Anchorage units are designed to fix the garden luminaires and poles with base plate in the ground.

Anchorage units are made of galvanized steel. The welded construction comprises a bottom plate, tube and flange plate with threaded bushes made of stainless steel. During installation, the flange plate must be horizontal and almost flush with the mounting surface.

The mounting plate of the pole or garden luminaire is bolted to the anchorage unit. Stainless steel bolts to connect the mounting plate to the anchorage unit are supplied.

		Pitch circle	Screws	Cable entry
B 570	Anchorage unit	Ø 70	3 x 120° M6	~ 350 mm underground
B 572	Anchorage unit	Ø 100	3 x 120° M8	~ 350 mm underground
B 573	Anchorage unit	Ø 132	3 x 120° M8	~ 400 mm underground
B 574	Anchorage unit	Ø 200	4 x 90° M10	~ 500 mm underground
B 582	Anchorage unit	Ø 265	4 x 90° M12	~ 500 mm underground
B 596	Anchorage unit	Ø 283	4 x 90° M16	~ 500 mm underground



Mounting systems for BOOM luminaire poles

System 1 – A mounting plate is bolted to an anchorage unit or foundation.

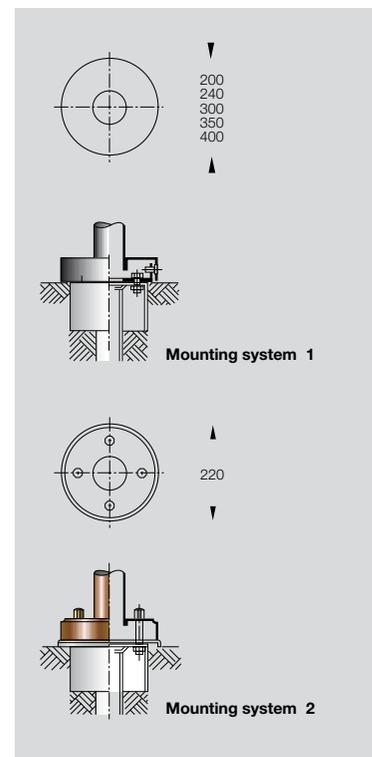
The base plate of the pole is bolted to the mounting plate with horizontal stainless steel bolts.

System 2 – A mounting plate is bolted to an anchorage unit or foundation.

The base plate of the pole is fixed to the mounting plate by vertical bolts.

The stainless steel bolts for connecting the mounting plate of the pole to the anchorage unit are supplied for both systems.

When mounting on a foundation, the bolts must be provided by the customer.



Electrical safety

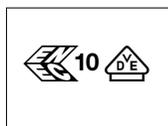
The luminaires in this catalogue are designed and built on the basis of the EN 60598/VDE 0711 regulations. The majority of the luminaires bear corresponding test symbols on the type plate, packaging and instructions for use. The remaining luminaires have been prepared for testing but the test and approval procedure has not yet been completed.

Due to the long period of validity of this catalogue, we are unable to specify here the current status of symbol approval. However, we can provide up-to-date information at any time.

Special orders are designed and built in accordance with the relevant specifications.

All luminaires are subject to constant quality control and production control.

Safety symbols



The ENEC symbol (European Norms Electrical Certification) is a European test and certification symbol for luminaires and electrical components in luminaires. The number 10 with or without the VDE symbol signifies that the test/certification symbol was awarded by the VDE Institute for Testing and Certification.



Luminaires with this symbol can be fixed to normal flame-inhibiting materials.



Luminaires bearing this symbol are suitable for business premises where dust or fibrous material present a fire hazard due to their limited surface temperatures (VDE 0710 Part 5).



Luminaires with this symbol can be installed in or on normal flame-inhibiting surfaces where thermal insulation material may cover the luminaire.



Luminaires bearing this symbol must not be in direct contact with thermal insulating materials.



Luminaires with this symbol are designed in accordance with EN 60598/VDE 0711 for an ambient temperature of t_a 25°C (indoors and outdoors). Luminaires with t_a 15°C printed on the type plate are only suitable for use outdoors.



The CE symbol is affixed at the manufacturer's responsibility and is not a safety symbol. The manufacturer uses it to document conformity with European Union directives.

Protection classes · Safety classes

These classes provide information on a luminaire's stability in withstanding the penetration of dust, solid bodies and water in accordance with EN 60598/VDE 0711.

The respective degree of protection (International Protection) is printed on the luminaire as a number system according to IEC 529. Please see the table on this page for allocation of the degree of protection according to EN 60598.

Protection classes

1st digit: foreign body protection

IP 1X	protection against penetration of foreign bodies \geq 50 mm
IP 2X	protection against penetration of foreign bodies \geq 12 mm
IP 3X	protection against penetration of foreign bodies \geq 2.5 mm
IP 4X	protection against penetration of foreign bodies \geq 1 mm
IP 5X	protection against harmful dust deposits
IP 6X	protection against dust entry



2nd digit: water protection

IP X1	protection against drops of water falling vertically
IP X2	protection against drops of water from angles up to 15°
IP X3	protection against showers up to 60°
IP X4	protection against splash water
IP X5	protection against water jets



Safety classes



Safety class I designates luminaires with an earth connection. Under fault conditions, the power supply is cut by an overload.



Safety class II designates luminaires that, apart from functional insulation, have an additional protective insulation. Under fault conditions, no dangerous voltage can reach metal parts which can be touched. Many luminaires available in Safety class I are also available in Safety class II. Please inquire accordingly.



Safety class III designates luminaires operating on extra-low safety voltage. They can be connected to safety transformers in accordance with EN 61558/VDE 0570, EN 61347/VDE 712 or VDE 0100 Part 410. The transformer must be approved for this type of installation.





At a glance

The range of lamps available on the market has seen steady expansion, especially over the last two decades. Improvements have been made to the wattage, life, luminous efficiency and energy efficiency of the lamps. Most lamps only fit in a specific lamp base.

There are now a host of different lamps available for lamp bases E 27 and E 14.

Lamp manufacturers have developed new economical lamps as an alternative to the general service lamp. A choice of two lamps is often available for the luminaires; this is stated after the article number. We have checked these lamps for suitability for our luminaires in terms of technology and design. The following table compares the wattage (W), luminous efficiency (lumen/lm) and life (hours/h) of the lamps. The precise lamp designations of the most important manufacturers are given on page 165.

 E 27	 Compact fluorescent lamps with electronic ballast	 TC-DSE 7 W 400 lm 15,000 h	 TC-TSE 11 W 660 lm 15,000 h	 TC-TSE 15 W 900 lm 15,000 h	 TC-TSE 20 W 1230 lm 15,000 h	
	 Energy-saving halogen lamps	 QA 60 28 W 345 lm 2,000 h	 QA 60 42 W 630 lm 2,000 h	 QA 60 52 W 840 lm 2,000 h	 QA 60 70 W 1240 lm 2,000 h	 QA 65 105 W 1900 lm 2,000 h
	 General service lamps	 A 60 40 W 415 lm 1,000 h	 A 60 60 W 710 lm 1,000 h	 A 60 75 W 935 lm 1,000 h	 A 60 100 W 1340 lm 1,000 h	 A 65 150 W 2160 lm 1,000 h
 E 14	 Compact fluorescent lamps with electronic ballast	 TC-DSE 7 W 400 lm 15,000 h	 TC-DSE 11 W 660 lm 15,000 h			
	 Energy-saving halogen drop lamps	 QD 45 28 W 345 lm 2,000 h				
	 Energy-saving halogen candle lamps	 QC 35 28 W 345 lm 2,000 h	 QC 35 42 W 630 lm 2,000 h			
	 General service lamps drop lamps	 D 45 40 W 400 lm 1,000 h				
	 General service lamps candle lamps	 C 35 40 W 400 lm 1,000 h	 C 35 60 W 660 lm 1,000 h			

Lamp table

BOOM

This table gives an overview of the lamps that can be used in the luminaires in this catalogue. It is not a complete survey of the market but reflects the status valid at the time this catalogue went to press, and is limited to the type designations of the most important manufacturers. Please contact the lamp manufacturers for current technical development status. We use the uniform lamp designation system LBS of the electrical industry to specify the lamps for our luminaires.

Symbol	Base	LBS	W	Lumen	Osram	Philips	Sylvania
Compact fluorescent lamps with integrated elect. ballast							
	E 27	TC-DSE	7 W	4007W/E278W/E277W/E27
	E 27	TC-TSE	11 W	660	...11W/E27	–	...11W/E27
	E 27	TC-TSE	15 W	900	...15W/E27	...15W/E27	...15W/E27
	E 27	TC-TSE	20 W	1230	...20W/E27	...20W/E27	...20W/E27
	E 14	TC-DSE	7 W	4007W/E148W/E147W/E14
	E 14	TC-TSE	11 W	660	...11W/E14	–	...11W/E14
Energy-saving halogen lamps							
	E 27	QA 60	28 W	345	64542 A ES FR	–	–
	E 27	QA 60	42 W	630	64543 A ES FR	–	–
	E 27	QA 60	52 W	840	64544 A ES FR	–	–
	E 27	QA 60	70 W	1240	64547 A ES FR	–	–
	E 27	QA 60	105 W	1900	64548 A ES FR	–	–
	E 14	QD 45	28 W	345	64542 P ES FR	–	–
	E 14	QC 35	28 W	345	64542 B ES FR	–	–
	E 14	QC 35	42 W	630	64543 B ES FR	–	–
General service lamps							
	E 27	A 60	40 W	415	CLAS A FR 40	354686	13002
	E 27	A 60	60 W	710	CLAS A FR 60	354716	13102
	E 27	A 60	75 W	935	CLAS A FR 75	354747	13202
	E 27	A 60	100 W	1340	CLAS A FR 100	354778	13302
	E 27	A 65	150 W	2160	CLAS A FR 150	090492	04306
	E 27	A 80	200 W	3040	CLAS A FR 200	090591	04346
	E 14	D 45	40 W	400	CLAS P FR 40	011978	36852
	E 14	C 35	40 W	400	CLAS B FR 40	011336	11302
	E 14	C 35	60 W	660	CLAS B FR 60	011763	11352

Symbol	Base	LBS	W	Lumen	Osram	Philips	Sylvania
Compact fluorescent lamps							
	G 23	TC-S	9 W	600S9WS9WS9W
	G 23	TC-S	11 W	900	...S11W	...S11W	...S11W
	2 G 11	TC-L	18 W	1200	...L18W	...L18W/4p	...L18W
	2 G 11	TC-L	24 W	1800	...L24W	...L24W/4p	...L24W
	2 G 11	TC-L	36 W	2900	...L36W	...L36W/4p	...L36W
	G 24 d-1	TC-D	10 W	600	...L10W	...L10W	...L10W
	G 24 d-1	TC-D	13 W	900	...L13W	...L13W	...L13W
	G 24 d-2	TC-D	18 W	1200	...L18W	...L18W	...L18W
	G 24 d-2	TC-D	26 W	1800	...L26W	...L26W	...L26W
	GX 24 d-1	TC-T	13 W	900	...T13W	...T13W	...T13W
	GX 24 d-2	TC-T	18 W	1200	...T18W	...T18W	...T18W
	GX 24 d-3	TC-T	26 W	1800	...T26W	...T26W	...T26W
	GX 24 q-3	TC-TEL	26 W	1800	...T/E26W/IN	...T26W/4p	...T26W
	GX 24 q-3	TC-TEL	32 W	2400	...T/E32W/IN	...T32W/4p	...T32W
	GX 24 q-4	TC-TEL	42 W	3200	...T/E42W/IN	...T42W/4p	...T42W
Halogen lamps							
	G 9	QT 14	40 W	460	66740 AM	429605	22783
		E 27	QT 32	60 W	790	64472 IM	506634
E 27		QT 32	75 W	1050	64474 IM	–	–
Halogen lamps - double ended							
	R7s	QT-DE 12	150 W	2500	64695	058348	21401
	R7s	QT-DE 12	200 W	3500	64698	494375	21550
Metal halide lamps							
	GU 6.5	HIT-TC-CE	20 W	1700	HCI-TF 20 W	–	–
	G 8.5	HIT-TC-CE	35 W	3400	HCI-TC 35 W	CDM-TC 35 W	CMI-TC 35 W

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Our deliveries are effected in accordance with the „General Conditions of Supply and Delivery for Products and Services of the Electrical Industry“ as issued and amended by the ZVEI association of German Electrical and Electronic Manufacturers and the supplementary clause „extended retention of title“ only. In addition, our terms and conditions of sale and delivery hereinafter set forth shall apply.

Quotations – All quotations are subject to change without notice.

Delivery – Deliveries shall be effected ex works for the purchaser's account and at his risk. Risk of breakage shall be borne by the purchaser. If requested, risk of breakage can be assumed by us to a delivery address in Europe and charged separately at 1% of the goods value. Overseas premium on request.

Time of delivery – This shall be stated to the best of our ability and shall be deemed binding only when explicitly confirmed by us. Differing from the „General Conditions of Supply and Delivery for Products and Services of the Electrical Industry“ (ZVEI), entitlement to damages resulting from delivery delays is excluded if these are only due to light negligence on our part. In case of violation of material contractual commitments the compensation is limited to the foreseeable contract typical damage.

Prices – As per our current price list in Euro. Charges for legalization and courier service shall be made at actual cost. Outer packing shall be charged at cost and cannot be returned. If a certain net order value is reached, we can arrange deliveries on the following terms: freight paid to German border or FOB German seaport. In this case, we follow the relevant rules of the INCOTERMS, latest edition. On delivery, we always charge the current prices, even if other prices were quoted. Except for routine deliveries by our contract forwarders, the outer packing shall be invoiced.

Payment – If not otherwise arranged, payment is to be made by irrevocable and confirmed documentary letter of credit, to be established through a first class foreign bank with Dresdner Bank AG or Commerzbank AG, Iserlohn. All banking charges outside Germany including advising and negotiating commission and reimbursing bank fees for a/c of applicant. If we agree to open an account, all invoices are due without deduction within 30 days from date of invoice. Payment is to be considered effected as soon as we have the invoiced amount at our disposal. If payment is not effected within the period of 30 days after date of invoice, the purchaser comes into default without prior reminder. If there is any doubt about the receipt or date of receipt of the invoice, then payment becomes due 30 days after receipt of our service. In this case the purchaser comes into default as from the 31st day after receipt of our service. If the due date for payment is exceeded, we are authorised to charge default interest at the rate customary in banking as per §288 BGB + §247 (German Civil Code). Our right to claim additional damage shall not be influenced in this case. Contrary to differing payment terms which may have been explicitly agreed upon in individual cases, settlement becomes due immediately if circumstances arise with regard to the purchaser's person that make the upholding of existing agreements unreasonable.

Proprietary rights/reservation of title – Additionally to the „General Conditions of Supply and Delivery for Products and Services of the Electrical Industry“ as issued by the ZVEI, the following shall apply: The purchaser is entitled to sell the goods delivered by us in customary business transactions, provided no ban of assignment of rights has been agreed between himself and his customer. The purchaser assigns to us as security the entitlement to the purchase price which arises from the sale. He is, however, empowered to collect debts, which he has assigned to us provided this empowerment is not revoked. The empowerment can be revoked if the purchaser does not fulfil or ceases to fulfil his contractual obligations. We are entitled to give notification of the occurred assignment of rights if the direct debit mandate has been revoked. The purchaser must promptly provide the documentation which is necessary for the notification of the assignment of rights and for collection of monies.

The provisions of III. paragraph 1 sentence 2 of the „General Conditions of Supply and Delivery for Products and Services of the Electrical Industry“ as issued by the ZVEI shall apply as appropriate for the case of greater than 20% excess security.

Design – We reserve the right to make alterations in design and construction which are necessitated by technical progress and customary for the lighting industry, provided they are not individually unreasonable for the purchaser.

Warranty – Supplementary to regulations in Article VIII and XI. of the „General Conditions of Supply and Delivery for Products and Services of the Electrical Industry“ (ZVEI), the following stipulations shall be effective: Additional to article VIII. 3 complaints referring to delivered quantities and visual damages have to be effected within 7 days after receipt of delivery.

Additional to article VIII. 9 revert claims from purchasers shall be applied as follows: The purchaser must, in case his customer or his customers' customer claims his justified right for subsequent fulfilment, give us the opportunity to carry out the subsequent fulfilment ourselves within a reasonable period, before obtaining replacement elsewhere.

The purchaser shall impose this obligation on his customer accordingly. If the purchaser violates this obligation, we reserve the right to deduct the expenses for subsequent fulfilment to the amount resulting from our own subsequent fulfilment. §443 BGB (German Civil Code) stays unaffected. Furthermore, reimbursement of expenses arising from subsequent fulfilment and passed on by the purchasers' customer to the purchaser is ruled out if the purchaser refrained from legitimately refusing this kind of subsequent fulfilment or both kinds of subsequent fulfilment. Otherwise, article XI. of the „General Conditions of Supply and Delivery for Products and Services of the Electrical Industry“ (ZVEI) applies for compensation claims.

Liability for services – We accept no liability for consequential damages due to defective light planning which we have prepared as a service free of charge during preliminary stages of contract negotiations. An explicit written arrangement shall be needed if such plans are to become a requirement or constituent of a delivery or service from us.

Application as determined – According to the Law on the Safety of Appliances, luminaires are technical products and must be used only in accordance with their intended purpose. The use of luminaires and accessories in a manner other than in accordance with their intended purpose as well as unauthorised alteration of our luminaires without our express written consent shall release us from any obligation in the event of a claim.

Returns – Returns not sent back within the warranty frame work according to the right of withdrawal shall only be credited if our prior consent is available. Originally packed and undamaged goods shall be credited at 80% of the price invoiced if they correspond with the current sales programme. Necessary re-conditioning and packing cost as well as transport costs incurred by us shall be deducted in addition and without special notification. Custom-made and special electrical productions cannot be returned.

Disposal – Non-private purchasers undertake to ensure that the products supplied are disposed of in accordance with the provisions of the Directive on Waste Electric and Electronic Equipment. Where products are resold, the purchaser transfers this obligation to its contractual partner.

Exports – The delivery of our products and the submission of quotations thereon to countries outside the European Union – also through third parties – shall require our prior consent.

Other – Place of performance and legal venue is Menden. All contractual relations shall be governed by German law.