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**LUMINAIRES FOR
DAMP ENVIRONMENTS**

EDITION 8.1
NEW PRODUCTS & ADDITIONS to Edition 8.0

A COMPANY OF THE

pracht group

BRIGHT

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Pracht®
Product Responsibility



SPOT.



It is invisible, and at the same time essential for everything visible: Light.

However, light is not only a medium permitting seamen to find back home in the dark. Light is Life, Orientation and Ambience. We provide custom engineered lighting solutions, specifically so that your requirements are optimally fulfilled.



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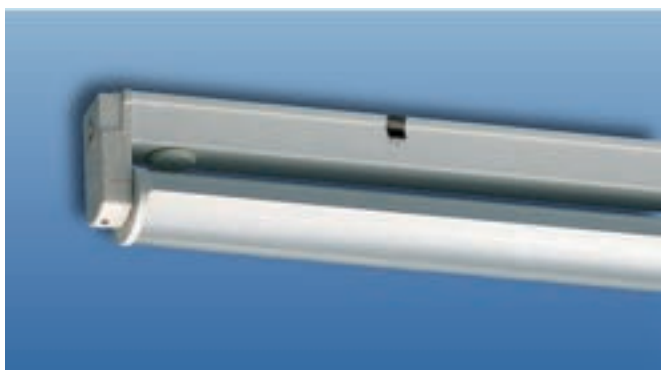
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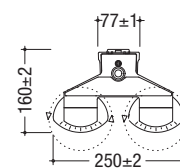
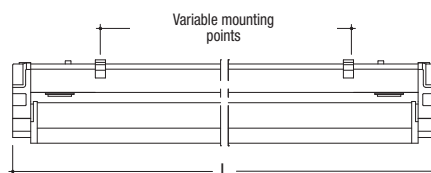
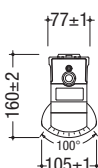
The luminaire Kenia +60°C T_{amb}

For FL T8/26 mm
with push-fit lampholders
Single- and twin-lamp
T 12/38 mm on request

Housing: Tubular housing, completely closed, made of white, fiberglass-reinforced polyester; almost fully resistant to acids and alkalis
Socket end pieces: One-piece push-fit lampholder ends made of PBTP, impact resistant
Socket: Two-slot plug-in socket with silver-plated contacts
Lamp cover: shapely clear cover made of PMMA, **prachtopal**® (PMMA PO) or impact-resistant polycarbonate (PC), partly with internal prisms, smooth surface
Seals: Short, age-resistant silicone seals
Electrical components: Low loss ballast B1 starter; through-wiring max. 4 x 2,5mm²
Installation: Variable mounting points using the **Pracht-CLIP-SYSTEM** made of stainless steel. Suitable for ceiling, pendant and horizontal wall mounting.



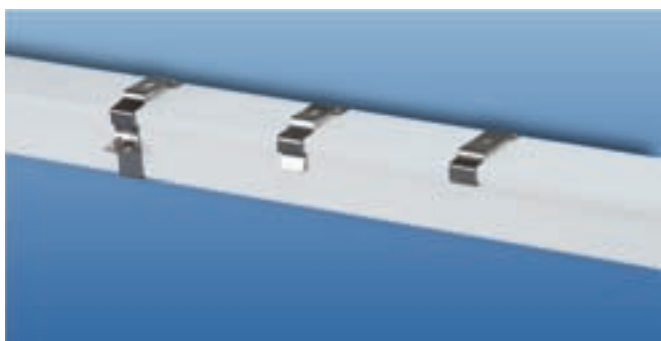
Protection Class II according to VDE 0711/EN 60598
 Ingress protection IP 65
 Dust-proof
 Jet-proof
 230V/50 Hz



Type (VDE Designation)	Watt	inductive		L (mm)	Weight (kg)
		Art.-No.	price (€)		
Individual luminaire without through-wiring					
PHT DD V 100/1 PSR-PLEX-PO	1 x 18	430 100	on request	636±2	3,0
PHT DD V 100/3 PSR-PLEX-PO	1 x 36	430 230	on request	1246±2	3,9
PHT DD V 100/5 PSR-PLEX-PO	1 x 58	430 360	on request	1546±2	5,1
PHT DD V 100/2 PSR-PLEX-PO	2 x 18	430 130	on request	636±2	3,5
PHT DD V 100/4 PSR-PLEX-PO	2 x 36	430 260	on request	1246±2	5,3
PHT DD V 100/6 PSR-PLEX-PO	2 x 58	430 400	on request	1546±2	6,7
Luminaire for individual and continuous mounting with through-wiring 2x1,5 mm²					
PHT DD V 112/1 PSR-PLEX-PO	1 x 18	431 100	on request	636±2	3,0
PHT DD V 112/3 PSR-PLEX-PO	1 x 36	431 230	on request	1246±2	3,9
PHT DD V 112/5 PSR-PLEX-PO	1 x 58	431 360	on request	1546±2	5,1
PHT DD V 112/2 PSR-PLEX-PO	2 x 18	431 130	on request	636±2	3,5
PHT DD V 112/4 PSR-PLEX-PO	2 x 36	431 260	on request	1246±2	5,3
PHT DD V 112/6 PSR-PLEX-PO	2 x 58	431 400	on request	1546±2	6,7
Luminare for continuous mounting with through-wiring 4x1,5 mm²					
PHT DD V 114/1 PSR-PLEX-PO	1 x 18	432 100	on request	636±2	3,0
PHT DD V 114/3 PSR-PLEX-PO	1 x 36	432 230	on request	1246±2	3,9
PHT DD V 114/5 PSR-PLEX-PO	1 x 58	432 360	on request	1546±2	5,1
PHT DD V 114/2 PSR-PLEX-PO	2 x 18	432 130	on request	636±2	3,5
PHT DD V 114/4 PSR-PLEX-PO	2 x 36	432 260	on request	1246±2	5,3
PHT DD V 114/6 PSR-PLEX-PO	2 x 58	432 400	on request	1546±2	6,7
Other lamp covers narrow beam/wide beam; PC/PO on request					
Thumb screw for push-fit lampholder	KNS	699 444	on request		
Wire diameters: 1,5 mm ² = 10A/2,5 mm ² = 16A					
Note: Through-wiring 4x2,5 mm ² available on request!					

You can obtain light distribution curves upon request!

Areas of application: Breweries, heavy industry, power plants, chemical industry, bakeries, commercial kitchens, sausage brew facilities, areas with high environmental temperatures



Mounting clips 33 – 31 – 32



Push-fit lampholder with thumb screw for easier maintenance (lamp replacement)

Product advantages Kenia +60°C T_{amb}

The long successful line Elba has been enhanced for higher environmental temperatures by means of a temperature-optimized construction system inside the luminaire housing



- VDE/ ENEC – Sign for T_{amb} = +60°C.
- Special solutions for higher temperatures
- Capacious housing volume
- Excellent internal temperature characteristics due to an internal heat distribution system
- Quick mounting due to the Pracht-CLIP-SYSTEM made of stainless steel with variable mounting points
- Extremely “short” seal system made of non-ageing silicone
- Luminaire covers with closed specular reflectors optionally with the latest pralux®-technology (see page 18)
- Luminaire housing extremely warp resistant
- Fast lamp replacement due to the stable push-fit lampholder system with short non-ageing silicone seals

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Extreme requirements (steam and heat) to luminaire Kenia



The Rimberg and Riga T5 luminaire systems

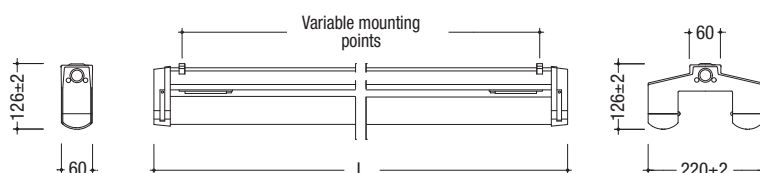
For FL T5/16 mm
with push-fit lampholders,
single- and twin- lamp

Housing: slender, shapely tubular housing, completely closed, made of white, fiberglass-reinforced polyester, almost fully resistant to acids and alkalis
Socket end pieces: One-piece push-fit lampholder end pieces made of PBTP, impact-resistant
Socket: Two-slot plug-in socket
Lamp cover: shapely clear cover made of impact-resistant polycarbonate (PC), with internal prisms, smooth surface
Seals: Short, age-resistant silicone seals
Electrical components: electronic ballast, industrial electronic ballast (extra cost), through-wiring max. 4x2,5 mm²
Installation: Variable mounting points using the **Pracht-CLIP-SYSTEM** made of stainless steel. Suitable for ceiling, pendant and horizontal wall mounting.



Protection class II according to VDE 0711/EN 60598
 Ingress protection IP 65
 Dust-proof, jet-proof.
 230V/50 Hz

*pendant



Type (VDE Designation)	Watt		Low output (FH) EVG		Watt		High output (FQ) EVG		L (mm)	Weight (kg)
	Art.-No.	price (€)	Art.-No.	price (€)	Art.-No.	price (€)	Art.-No.	price (€)		
LUMINAIRE RIMBERG T5, FL cover made of impact-resistant polycarbonate, clear with internal prisms, through-wiring 2x1,5 mm²										
PPR DD T5 212/41 (FH) .. /21 (FQ) VKR-MAK-IG	1 x 14	5401 103	on request	1 x 24	5401 513	on request	597±2	2,2		
PPR DD T5 212/43 (FH) .. /23 (FQ) VKR-MAK-IG	1 x 21	5401 233	on request	1 x 39	5401 743	on request	897±2	2,8		
PPR DD T5 212/45 (FH) .. /25 (FQ) VKR-MAK-IG	1 x 28	5401 363	on request	1 x 54	5401 873	on request	1197±2	3,3		
PPR DD T5 212/47 (FH) .. /27 (FQ) VKR-MAK-IG	1 x 35	5401 433	on request	1 x 49	5401 923	on request	1497±2	3,9		
PPR DD T5 212/29 (FQ) VKR-MAK-IG				1 x 80	5401 973	on request	1497±2	3,9		
PPR DD T5 212/42 (FH) .. /22 (FQ) VKR-MAK-IG	2 x 14	5401 133	on request	2 x 24	5401 533	on request	597±2	2,5		
PPR DD T5 212/44 (FH) .. /24 (FQ) VKR-MAK-IG	2 x 21	5401 263	on request	2 x 39	5401 763	on request	897±2	3,2		
PPR DD T5 212/46 (FH) .. /26 (FQ) VKR-MAK-IG	2 x 28	5401 403	on request	2 x 54	5401 893	on request	1197±2	3,6		
PPR DD T5 212/48 (FH) .. /28 (FQ) VKR-MAK-IG	2 x 35	5401 463	on request	2 x 49	5401 943	on request	1497±2	4,9		
PPR DD T5 212/30 (FQ) VKR-MAK-IG				2 x 80	5401 993	on request	1497±2	4,9		
LUMINAIRE RIGA T5, FL cover made of impact-resistant polycarbonate, clear with internal prisms and integrated heat retaining tube, through-wiring 2x1,5 mm²										
PPR DD T5 212/41 (FH) .. /21 (FQ) VKR-MAK-IG-WST	1 x 14	5403 103	on request	1 x 24	5403 513	on request	597±2	2,4		
PPR DD T5 212/43 (FH) .. /23 (FQ) VKR-MAK-IG-WST	1 x 21	5403 233	on request	1 x 39	5403 743	on request	897±2	3,1		
PPR DD T5 212/45 (FH) .. /25 (FQ) VKR-MAK-IG-WST	1 x 28	5403 363	on request	1 x 54	5403 873	on request	1197±2	3,7		
PPR DD T5 212/47 (FH) .. /27 (FQ) VKR-MAK-IG-WST	1 x 35	5403 433	on request	1 x 49	5403 923	on request	1497±2	4,5		
PPR DD T5 212/29 (FQ) VKR-MAK-IG-WST				1 x 80	5403 973	on request	1497±2	4,5		
PPR DD T5 212/42 (FH) .. /22 (FQ) VKR-MAK-IG-WST	2 x 14	5403 133	on request	2 x 24	5403 533	on request	597±2	2,9		
PPR DD T5 212/44 (FH) .. /24 (FQ) VKR-MAK-IG-WST	2 x 21	5403 263	on request	2 x 39	5403 763	on request	897±2	3,8		
PPR DD T5 212/46 (FH) .. /26 (FQ) VKR-MAK-IG-WST	2 x 28	5403 403	on request	2 x 54	5403 893	on request	1197±2	4,4		
PPR DD T5 212/48 (FH) .. /28 (FQ) VKR-MAK-IG-WST	2 x 35	5403 463	on request	2 x 49	5403 943	on request	1497±2	5,4		
PPR DD T5 212/30 (FQ) VKR-MAK-IG-WST				2 x 80	5403 993	on request	1497±2	5,4		

You can obtain light distribution curves upon request!

Extra cost through-wiring	14/24 Watt		21/39 Watt		28/54 Watt		35/49/80 Watt	
	Art.-Nr.	price (€)	Art.-Nr.	price (€)	Art.-Nr.	price (€)	Art.-Nr.	price (€)
Through-wiring 4 x 1,5 mm ² = 10A	691 114	on request	691 214	on request	691 314	on request	691 514	on request
Through-wiring 4 x 2,5 mm ² = 16A	691 124	on request	691 224	on request	691 324	on request	691 524	on request

Areas of application: Pedestrian tunnels, ramp lighting, public transportations, commercial kitchens, swimming pools, stadiums, car parks, canopies



Luminaire Riga T5 with heat retaining tube



Captive push-fit lampholder, lightning-fast mounting using the push-fit clip

Apollo CONST -40°C up to +30°C

For FL T5/ 16 mm
with push-fit lampholders,
single- and twin-lamp

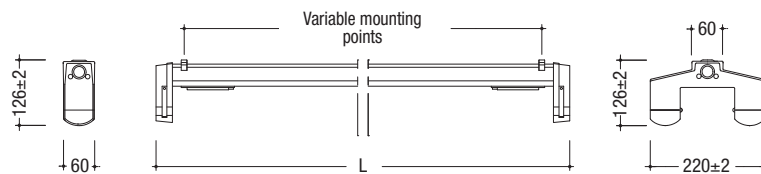
Housing: Slender tubular housing, completely closed, made of white, fiberglass-reinforced polyester, almost fully resistant to acids and alkalis
Socket end pieces: One-piece push-fit lampholder end pieces made of PBTP, impact-resistant, with clips made of POM or V2A
Socket: Two-slot plug-in sockets
Lamp cover: To be supplemented with accessories
Seals: Short, age-resistant silicone seals
Electrical components: Ballast, electronic ballast; through-wiring max. 4x2,5mm²
Installation: Variable mounting points using the **Pracht-CLIP-SYSTEM** made of stainless steel. Suitable for ceiling, pendant and horizontal wall mounting.
Illuminant: OSRAM T5 HO CONSTANT – **imperative!**



Protection Class II, according to VDE 0711/EN 60598
Ingress protection IP65

Dust-proof
Jet-proof
230V/50Hz

Caution! You must observe the burn-in period recommended by the lamp manufacturer!



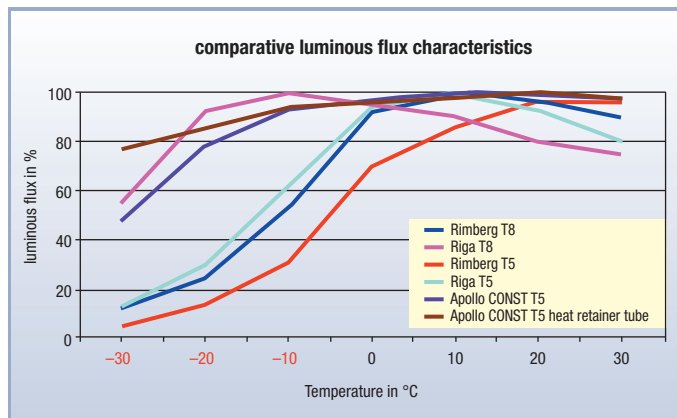
Type (VDE Designation)	Watt	electronic ballast	L	Weight
		Art.-No. price (€)	(mm)	(kg)
Luminaire for individual and continuous mounting with electronic ballast, two connection covers and through-wiring 2x1,5 mm², with one piece push-fit lampholders – T5				
PPR DD T5 212/25	1 x 54	5165 873 on request	1197±2	2,9
PPR DD T5 212/29	1 x 80	5165 973 on request	1497±2	3,3
PPR DD T5 212/26	2 x 54	5165 893 on request	1197±2	3,9
PPR DD T5 212/30	2 x 80	5165 993 on request	1497±2	4,3

Note: other wattages available upon request!

Cold-resistant accessories DUO-SYSTEM T5 CONST	Watt	Medium beam – PLEX CONST	Specular reflector wide beam – PLEX CONST	Specular reflector narrow beam – PLEX CONST	L	Weight
		Art.-No. price (€)	Art.-No. price (€)	Art.-No. price (€)	(mm)	(kg)
Reflectors for OSRAM CONSTANT lamps for low temperatures with different polar distribution curves						
Pracht-DUO-System T5 pralux®	54	3631 236 on request	3631 255 on request	3630 125 on request	1144±2	
Pracht-DUO-System T5 pralux®	80	3631 238 on request	3631 257 on request	3630 127 on request	1444±2	

Product advantages Apollo CONST

- VDE/ENEC-Sign for T_{amb} = -40°C
- Convincing T5-technology for very low temperatures
- Highest energy efficiency due to the pralux®-reflectors
- Captive secure cover
- High chemical resistance



Areas of application: Cold storage and deep-freezing houses, precooling rooms, warehouses with temperatures below freezing, food industry



Pracht-Duo-System, for example narrow-beam with the highly efficient pralux®-reflector



Apollo, push-fit lampholder T5/16 mm twin-lamp with specular reflector, wide-beam

You can obtain light distribution curves upon request!



Application photos

Highest energy efficiency with **Pracht** luminaire Apollo T5 parabolic mirror reflector made of PMMA **pralux**®



Bakery «Schäfers Backstuben» in Biedenkopf



Bakery «Schäfers Backstuben» in Biedenkopf

Application photos



Lighting with brilliant illumination level with recessed mounted **Pracht** luminaire Taunus



Metro Station in Los Teques, Venezuela

Lighting with vandal-resistant **Pracht** luminaire Troja with services trunking and special LED technique and luminaire Tubis in stainless steel support



Underground station in Kesselsberg, Duisburg



Product advantages Como Universität Protection Class II

The design of the successful narrow beam spotlight COMO, nominated with a registered design, has been optimized for the use of the durable Philips QL illuminant



- Stable base housing made of diecast aluminium
- Optimal heat dissipation due to longitudinal ribs
- Variable surface treatment and color on request
- Heat distribution management for the PHILIPS QL-Lamp system has been considerably improved, therefore high durability of the lamp and the electronic ballast
- Optimal operating temperature for maximum luminous flux of the induction lamp at reduced Tc-temperatures of the electronic ballast
- Result: higher durability of the electronic ballasts
- Protection class II – construction for the complete system when using a refractor made of synthetic material (Polycarbonate)

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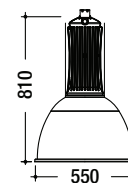
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Como Universität Protection class II

Housing: Basis made of Aluminum with sheathing made of brass
Lamp cover: Refractor made of synthetic material
Electrical components: electronic ballast, ballast, built-in ignition device
Installation: Single-point suspension



Protection Class II according to VDE 0711/EN 60598
 Ingress Protection IP40/IP65
 Dust-proof
 Jet-proof
 230V/ 50Hz
 *pending



Type (VDE Designation)	Version	Watt	inductive		compensated		electronic ballast		socket	Weight (kg)
			Art.-No.	price (€)	Art.-No.	price (€)	Art.-No.	price (€)		
Spotlight Como II, natural aluminium with sheathing made of brass, closed refractor										
Como II HME 250	HME	250	1986 100	on request	1986 101	on request			E40	13,0
Como II HME 400	HME	400	1986 150	on request	1986 151	on request			E40	13,5
Como II HIE 250	HIE/HSE	250	1986 300	on request	1986 301	on request			E40	13,0
Como II HSE 400	HSE	400	1986 400	on request	1986 401	on request			E40	13,5
Como II Kompakt 120	Kompakt	120					1986 123	on request	2G8-1	11,8
Como II Philips QL 85*	QL	85					1986 085	on request	PC**	11,8
Como II Philips QL 165*	QL	165					1986 165	on request	PC**	11,8
Replacement parts:										
Refractor made of synthetic material PC			704 870	on request						
Cover glass made of synthetic material PC			704 872	on request						
Tension Ring to secure the pane			704 873	on request						

You can obtain light distribution curves upon request!

Areas of application: Workshops, warehouses, logistics centers, project lighting, areas which are difficult to access, railway stations



induction illuminant, energy transfer without electrical connection

ILLUMINANTS	Discharge lamps	Socket
	HME 250/400 Watt	E40
HIE 250/400 Watt	E40	
HSE 250/400 Watt	E40	
Compact fluorescent lamp		
120 Watt H0 CONSTANT	2G8-1	
Induction illuminant		
PHILIPS QL	PC**	



Product advantages The luminaire Resistent

- Internal protection class II gear tray made of white synthetic material
- Easy mounting due to turning bolt lock



- Resistent line with Pracht-CLIP-System for fast mounting to lighting trunking systems and ceilings

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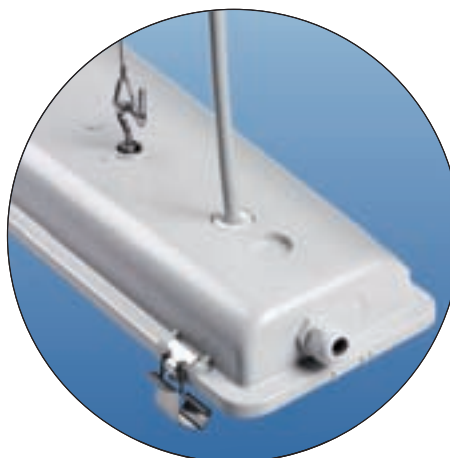
- Diffuser is connected undetachably to the luminaire body by means of the hinge clip made of stainless steel



Product advantages The luminaire Resistent



- five prestamped cable entries on the ceiling side
- pendant mounting with steel wire, chain etc.
- two cable entries at each end for through-wiring



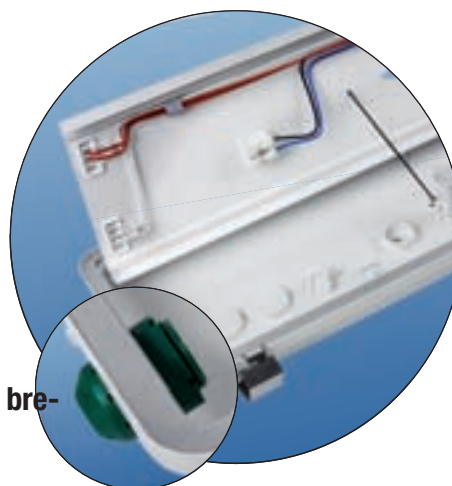
- captive diffuser locks made of stainless steel

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- Injection-moulded transparent Prachtmatic diffuser made of synthetic material manufactured in one piece, in humid, wet ambiance

- Protection class II reflector suspended by elastic safety strap

- Optionally: breathing glands

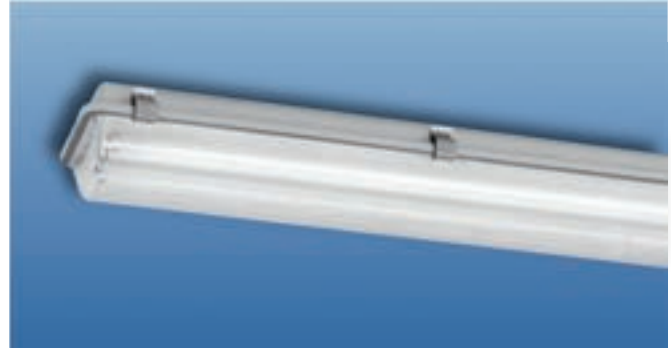




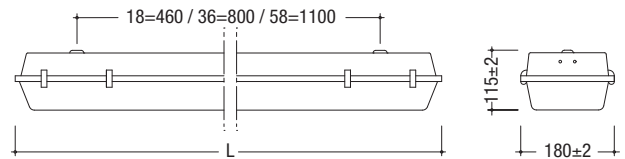
The luminaire Resistent

For FL T8/26 mm
Single and twin-lamp

Housing: Fiberglass-reinforced polyester, white or grey, almost fully resistant to acids and alkalis
Socket: Internal sockets made of thermoplastic
Lamp cover: injection moulded, smooth surface, with internal prisms, made of impact resistant polycarbonate (PC) or optionally PMMA (UV-resistant upon request). Multipart captive clips made of stainless steel. **Seal:** Silicone
Electrical components: low loss ballast, starter, high quality electronic ballast, industrial electronic ballast upon request
Installation: Two standard fixing points (third fixing point is possible), suitable for roofed ceiling, pendant and horizontal wall mounting. Use in external applications with UV-resistant PMMA-diffuser upon request. Captive diffuser with special clamps is possible



Protection Class II, according to VDE 0711/EN 60598
 Ingress protection IP65
 Dust-proof
 Jet-proof
 230V/50Hz
 *pendant



Type (VDE Designation)	Watt	inductive		compensated		electronic ballast		L (mm)	Weight (kg)
		Art.-No.	price (€)	Art.-No.	price (€)	Art.-No.	price (€)		
Individual luminaire with injection moulded stable Prachtmatic diffuser made of PMMA with internal prisms, with captive elbow lever clips made of stainless steel, without through-wiring, protection class II									
PIW 5700/1 PLEX	1 x 18	1360 100	on request	1360 101	on request	1360 103	on request	630±2	2,2
PIW 5700/3 PLEX	1 x 36	1360 230	on request	1360 231	on request	1360 233	on request	1240±2	2,8
PIW 5700/5 PLEX	1 x 58	1360 360	on request	1360 361	on request	1360 363	on request	1540±2	3,5
PIW 5700/2 PLEX	2 x 18	1360 130	on request	1360 131	on request	1360 133	on request	630±2	2,9
PIW 5700/4 PLEX	2 x 36	1360 260	on request	1360 261	on request	1360 263	on request	1240±2	4,4
PIW 5700/6 PLEX	2 x 58	1360 400	on request	1360 401	on request	1360 403	on request	1540±2	5,3
Individual luminaire with injection moulded impact resistant diffuser made of Polycarbonate with internal prisms, with captive elbow lever clips made of stainless steel, without through-wiring, protection class II									
PIW 5700/1 PC	1 x 18	1360 110	on request	1360 111	on request	1360 113	on request	630±2	2,2
PIW 5700/3 PC	1 x 36	1360 140	on request	1360 141	on request	1360 143	on request	1240±2	2,8
PIW 5700/5 PC	1 x 58	1360 240	on request	1360 241	on request	1360 243	on request	1540±2	3,5
PIW 5700/2 PC	2 x 18	1360 270	on request	1360 271	on request	1360 273	on request	630±2	2,9
PIW 5700/4 PC	2 x 36	1360 370	on request	1360 371	on request	1360 373	on request	1240±2	4,4
PIW 5700/6 PC	2 x 58	1360 410	on request	1360 411	on request	1360 413	on request	1540±2	5,3
Through-wiring 4 x 1,5 mm ² = 10A	14/24/18	690 418							
Through-wiring 4 x 1,5 mm ² = 10A	28/54/36	690 436							
Through-wiring 4 x 1,5 mm ² = 10A	35/49/80/58	690 458							
Through-wiring 4 x 2,5 mm ² = 16A	14/24/18	690 419							
Through-wiring 4 x 2,5 mm ² = 16A	28/54/36	690 437							
Through-wiring 4 x 2,5 mm ² = 16A	35/49/80/58	690 459							
Breathing glands		645 032							

You can obtain light distribution curves upon request!

Note: special surface treatments possible on request

Areas of application: parking garages, public transportation, continuous mounting applications, metro and suburban train secondary rooms, power plants, heavy industry and chemical industry, biogas plants, waste incineration plants



Additional central fixing point and central turning bolt lock for reflector

Note:

Please note the following quantities when ordering replacement clips made of stainless steel

- 18 Watt = 6 pcs./luminaire
- 36 Watt = 8 pcs./luminaire
- 58 Watt = 10 pcs./luminaire

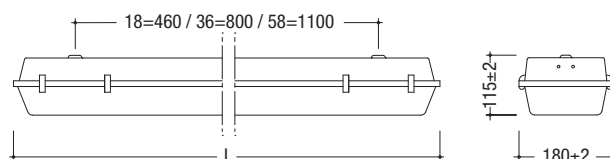
The luminaire Resistent

For FL T5/16 mm
Single and twin-lamp

Housing: Fiberglass-reinforced polyester, white or grey, almost fully resistant to acids and alkalis
Socket: Internal sockets made of thermoplastic
Lamp cover: injection moulded, smooth surface, with internal prisms, made of impact resistant polycarbonate (PC) or optionally PMMA (UV-resistant upon request). Multipart captive clips made of stainless steel. - **Seal:** Silicone
Electrical components: High quality electronic ballast, industrial electronic ballast upon request
Installation: Two standard fixing points (third fixing point is possible), suitable for roofed ceiling, pendant and horizontal wall mounting. Use in external applications with UV-resistant PMMA-diffuser upon request. Captive diffuser with special clamps is possible



Protection Class II, according to VDE 0711/EN 60598
 Ingress protection IP65
 Dust-proof
 Jet-proof
 230V/50Hz
 *pendant



Type (VDE Designation)	Watt		Low output (FH) EVG		High output (FQ) EVG		L (mm)	Weight (kg)
	Art.-No.	price (€)	Art.-No.	price (€)	Art.-No.	price (€)		
Individual luminaire with injection moulded UV-resistant Prachtmatic diffuser made of PMMA with internal prisms, with captive elbow lever clips made of stainless steel, without through-wiring, protection class II								
PIW 5700/41 (FH) .. /21 (FQ) PLEX	1 x 14	1365 041	on request	1 x 24	1365 021	on request	630±2	2,2
PIW 5700/45 (FH) .. /25 (FQ) PLEX	1 x 28	1365 045	on request	1 x 54	1365 025	on request	1240±2	2,8
PIW 5700/47 (FH) .. /27 (FQ) PLEX	1 x 35	1365 047	on request	1 x 49	1365 027	on request	1540±2	3,5
PIW 5700/29 (FQ) PLEX				1 x 80	1365 029	on request	1540±2	3,5
PIW 5700/42 (FH) .. /22 (FQ) PLEX	2 x 14	1365 042	on request	2 x 24	1365 022	on request	630±2	2,9
PIW 5700/46 (FH) .. /26 (FQ) PLEX	2 x 28	1365 046	on request	2 x 54	1365 026	on request	1240±2	4,4
PIW 5700/48 (FH) .. /28 (FQ) PLEX	2 x 35	1365 048	on request	2 x 49	1365 028	on request	1540±2	5,3
PIW 5700/30 (FQ) PLEX				2 x 80	1365 030	on request	1540±2	5,3
Individual luminaire with injection moulded impact resistant diffuser made of Polycarbonate with internal prisms, with captive elbow lever clips made of stainless steel, without through-wiring, protection class II								
PIW 5700/41 (FH) .. /21 (FQ) PC	1 x 14	1365 051	on request	1 x 24	1365 031	on request	630±2	2,2
PIW 5700/45 (FH) .. /25 (FQ) PC	1 x 28	1365 055	on request	1 x 54	1365 035	on request	1240±2	2,8
PIW 5700/47 (FH) .. /27 (FQ) PC	1 x 35	1365 057	on request	1 x 49	1365 037	on request	1540±2	3,5
PIW 5700/29 (FQ) PC				1 x 80	1365 039	on request	1540±2	3,5
PIW 5700/42 (FH) .. /22 (FQ) PC	2 x 14	1365 052	on request	2 x 24	1365 032	on request	630±2	2,9
PIW 5700/46 (FH) .. /26 (FQ) PC	2 x 28	1365 056	on request	2 x 54	1365 036	on request	1240±2	4,4
PIW 5700/48 (FH) .. /28 (FQ) PC	2 x 35	1365 058	on request	2 x 49	1365 038	on request	1540±2	5,3
PIW 5700/30 (FQ) PC				2 x 80	1365 040	on request	1540±2	5,3
Accessories: Diffuser made of								
		PMMA			PC			
	14/24/18	603 132		14/24/18	602 222			
	28/54/36	603 134		28/54/36	602 224			
	35/49/80/58	603 136		35/49/80/58	602 226			
High efficiency interior reflector	14/24/18	703 218						
	28/54/36	703 236						
	35/49/80/58	703 258						
Single lamp version with 120 mm width is in the pipeline!								

Areas of application: Project lighting for low ceilings, parking garages, warehouses, heavy industry, power plants, chemical industry



Single lamp T5 version in large housing



Gear tray is secured by means of a simple turning bolt lock

You can obtain light distribution curves upon request!



The luminaire Breona

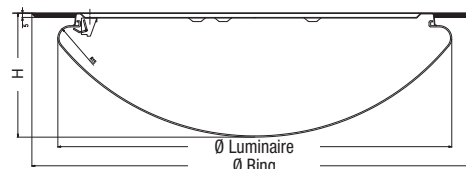
Luminaire bottom part: sheet steel, deep-drawn, white coated
Socket: Thermoplastic, depending on the lamps used
Lamp cover: Diffuser made of PMMA, opal with a slight surface texture secured by clamp or spring locks
Electrical components: low loss ballast or electronic ballast
Installation: fixed mounting points, ceiling and wall mounting, socket E27 only for ceiling mounting







 Protection class I
 Ingress protection IP40
 230V/50 Hz



Type (VDE Designation)	socket	Watt	inductive		electronic ballast		H (mm)	Ø Luminaire (mm)	Ø Ring (mm)	Weight (kg)
			Art.-No.	price (€)	Art.-No.	price (€)				
Luminaire Ø 300 mm										
PDR 300/1	E27/A60	1 x 60	13 260	on request			105	300±2	330	0,9
PDR V 300/61	G23/TC-S	2 x 9	13 290	on request			105	300±2	330	1,3
Luminaire Ø 375 mm										
PDR 375/2	E27/A60	2 x 60	13 370	on request			125	375±2	435	1,4
PDR V 375/62	G23/TC-S	2 x 11	13 380	on request			125	375±2	435	2,1
PDR V 375/67	2G10/TC-F	1 x 36	13 330	on request			125	375±2	435	2,5
PDR V 375/63	G24d-2/TC-D	2 x 18	13 320	on request			125	375±2	435	2,1
PDR E 375/62	2G7/TC-S/E	2 x 11			13 383	on request	125	375±2	435	1,6
PDR E 375/67	2G10/TC-F	1 x 36			13 333	on request	125	375±2	435	1,7
PDR E 375/63	G24q-2/TC-D/E	2 x 18			13 323	on request	125	375±2	435	1,6
PDR E 375/65	2GX13/T5R	1 x 22			13 393	on request	125	375±2	435	1,6
Luminaire Ø 475 mm										
PDR V 475/64	G24d-2/TC-D	3 x 18	13 450	on request			150	475±2	540	3,5
PDR V 475/66	2G10/TC-F	2 x 24	13 460	on request			150	475±2	540	3,6
PDR V 475/68	2G10/TC-F	2 x 36	13 440	on request			150	475±2	540	3,6
PDR E 475/64	G24q-2/TC-D/E	3 x 18			13 453	on request	150	475±2	540	2,6
PDR E 475/66	2G10/TC-F	2 x 24			13 463	on request	150	475±2	540	2,6
PDR E 475/68	2G10/TC-F	2 x 36			13 443	on request	150	475±2	540	2,6
PDR E 475/69	2GX13/T5R	1 x 40			13 433	on request	150	475±2	540	2,5

Accessories ornamental ring:	white		silver		blue	
Ring Ø 300/330 mm	13 297	on request	13 298	on request	13 299	on request
Ring Ø 375/435 mm	13 397	on request	13 398	on request	13 399	on request
Ring Ø 475/540 mm	13 497	on request	13 498	on request	13 499	on request

- elegant surface mounted luminaire with rounded cover made of high-quality synthetic material
- quick mounting thanks to the internal Pracht Spring/Snap Lock System
- Cover made of polycarbonate on request

Areas of application: Corridors, changing rooms, foyers, stairways



Breona with an architecturally successful highlight, a great luminaire for a special effect in stairways



Colour variants for additional rings, matched to the subtle luminaire design



Internal clamp or spring lock for easy lamp replacement

You can obtain light distribution curves upon request

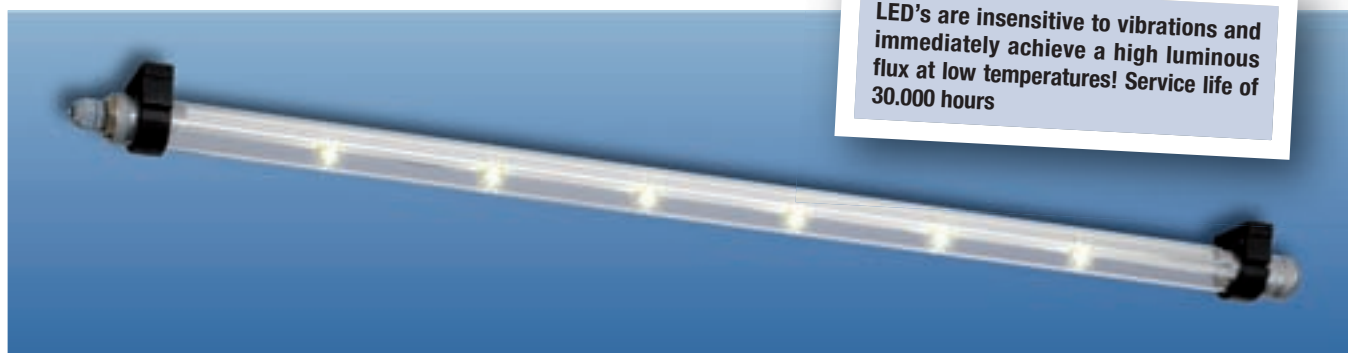
LED-solution with the luminaire Tanaro

Housing: completely closed tubular housing made of polycarbonate Ø 40 mm
Seals: short, age-resistant seal system
Electrical components: LED
Installation: variable mounting points using the **Pracht-Tube-Clip-System**



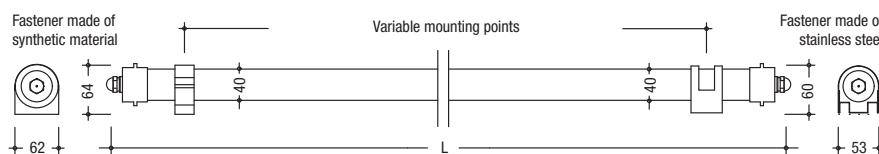
The luminaire Lina

Housing: made of synthetic material similar to RAL 7035 grey
Cover: glass, crystal clear, textured, with galvanized screwed wire guard



LED's are insensitive to vibrations and immediately achieve a high luminous flux at low temperatures! Service life of 30.000 hours

Protection class III
 24V/DC, 350-700, 1050 mA



Luminaire Tanaro LED

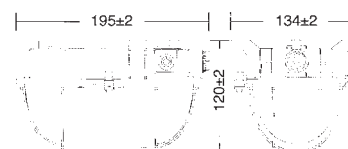
Type (VDE Designation)	Watt	LED quantity	mA	Lumen	electronic ballast (external)		L (mm)	Weight (kg)
					Art.-No.	price (€)		
Single luminaire Tanaro, length 0,5 m, without through-wiring, Ø 40 mm, with current-dependent LED, white LED (coloured LED on request)								
PRR 40 10 LED H	12,0	10	350	600	1203 210	on request	500	0,9
PRR 40 05 LED H	12,0	5	700	550	1203 205	on request	500	0,9
PRR 40 04 LED H	14,0	4	1050	600	1203 204	on request	500	0,9
Single luminaire Tanaro, length 1,0 m, without through-wiring, Ø 40 mm, with current-dependent LED, white LED (coloured LED on request)								
PRR 40 20 LED H	24,0	20	350	1200	1203 220	on request	1000	1,6
PRR 40 11 LED H	26,4	11	700	1210	1203 211	on request	1000	1,6
PRR 40 08 LED H	28,0	8	1050	1200	1203 208	on request	1000	1,6
Single luminaire Tanaro, length 1,5 m, without through-wiring, Ø 40 mm, with current-dependent LED, white LED (coloured LED on request)								
PRR 40 30 LED H	36,0	30	350	1800	1203 230	on request	1500	2,2
PRR 40 16 LED H	38,4	16	700	1760	1203 216	on request	1500	2,2
PRR 40 12 LED H	42,0	12	1050	1800	1203 212	on request	1500	2,2
Single luminaire Tanaro, length 2,0 m, without through-wiring, Ø 40 mm, with current-dependent LED, white LED (coloured LED on request)								
PRR 40 40 LED H	48,0	40	350	2400	1203 240	on request	2000	3,5
PRR 40 22 LED H	52,8	22	700	2420	1203 222	on request	2000	3,5
PRR 40 15 LED H	52,5	15	1050	2250	1203 215	on request	2000	3,5

You can obtain light distribution curves upon request!

Luminaire Lina LED



230 V/50 Hz
 *pendant



Type (VDE Designation)	Watt	230V/50Hz		L (mm)	Weight (kg)
		Art.-No.	price (€)		
Lina white LED's, mains voltage 230V/50 Hz (coloured LED on request)					
Lina LED/1, 230V/50Hz	1 x 4	001 014	on request		
Lina LED/2, 230V/50Hz	2 x 4	001 024	on request		
Lina LED/3, 230V/50Hz	3 x 4	001 034	on request		

Areas of application: illumination of façades, accentual illumination, architectural lighting solutions, construction sites, cold rooms and critical areas



Luminaire Lugano with LED technology and additional standard illuminant



Luminaire Lina, direct mains connection to 230V/50Hz



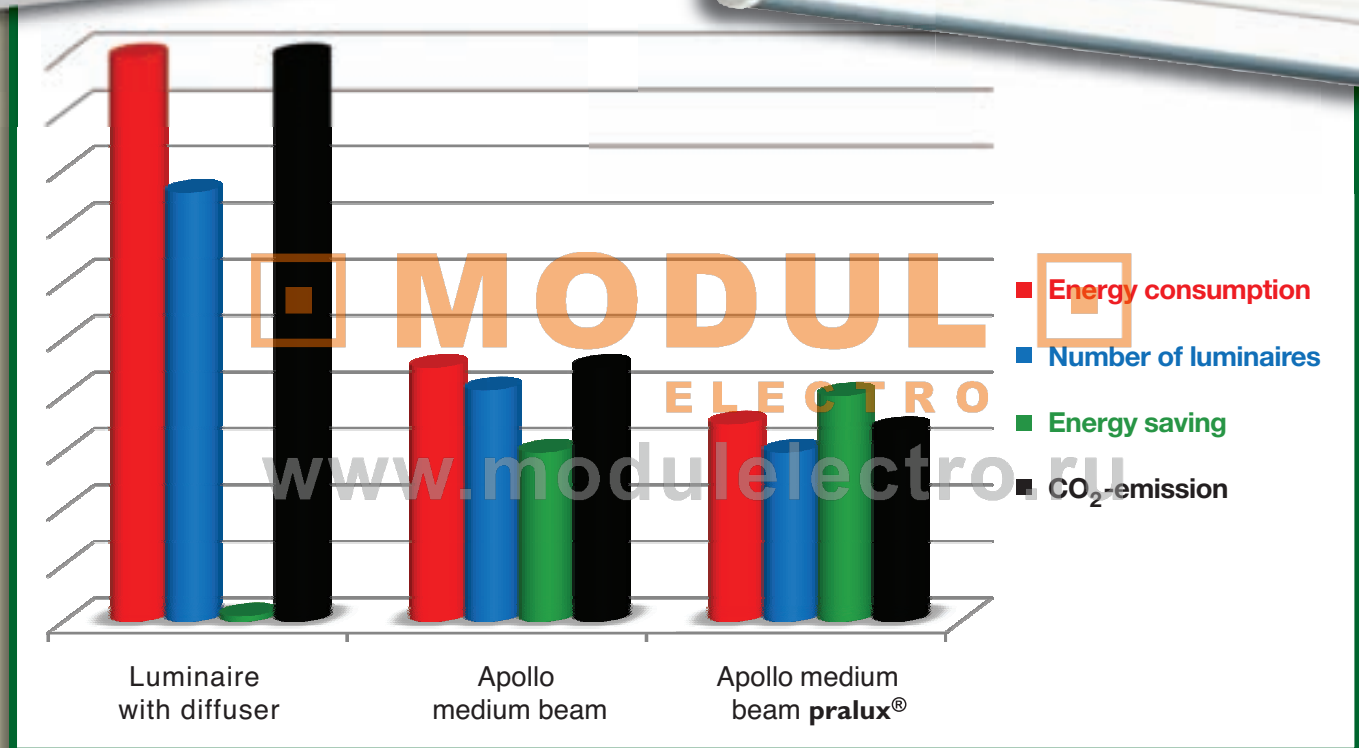
pralux®

A wonderful example for the **Pracht® Product Responsibility**



pralux® is a protected trademark of the pracht group®. It stands for top quality, durability as well as for efficient, energy-saving lighting solutions.

Pracht lamp covers with pralux® high efficiency reflectors heighten once more the known Pracht quality and increase the advantages, in combination with the basic luminaire, by a two-digit percentage.



Saving through pralux®



- extremely energy efficient
- easy cleaning due to the smooth light emission surfaces
- extremely high efficiency
- directed light
- illuminant is protected against impacts, draughts and cold
- lower environmental impact
- high CO₂-saving
- easy re-fitting of the pralux®-reflectors in already installed Pracht luminaires
- short, non-ageing silicone seals protect against dust and moistness, IP65
- Energy saving because of fewer luminaires means ...
 - lower connection power = energy saving
 - faster mounting
 - lower replacement costs when changing the illuminants
 - fewer illuminants, lower waste disposal costs

To save electricity is very important for the climate protection!

pralux[®]reflectors for highest energy efficiency with T5/16 mm T8/26 mm

Housing: clear diffuser made of PMMA, PMMA-**prachtopal**[®] or impact-resistant polycarbonate, smooth light emission surface, thus easy cleaning



When using pralux[®]-reflectors: high reduction of energy consumption and luminaire quantities, thus reduced CO₂-emission.

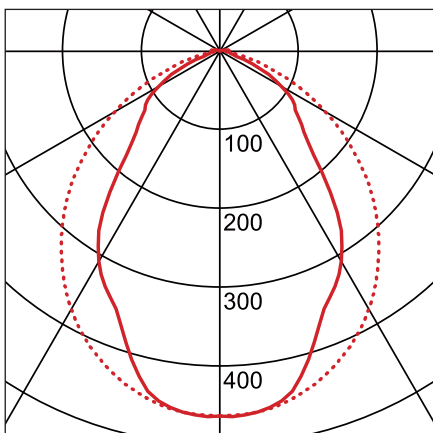


Designations for lamps Ø 16 mm	Type (VDE Designation)	14/24 Watt		21/39 Watt		28/54 Watt		35/49/80 Watt	
		Art.-No.	price (€)	Art.-No.	price (€)	Art.-No.	price (€)	Art.-No.	price (€)
pralux[®]-parabolic mirror reflectors for Apollo T5/16 mm system, medium beam, with centering and retaining springs for push-fit lampholders									
prachtopal [®] , Acrylic glass, impact resistant	PSR-PLEX-PO-DD-T5 pralux [®]	3610 602	on request	3610 604	on request	3610 606	on request	3610 608	on request
Acrylic glass, clear, internal ribbing	PSR-PLEX-IG-DD-T5 pralux [®]	3631 202	on request	3631 204	on request	3631 206	on request	3631 208	on request
Acrylic glass, clear	PSR-PLEX-DD-T5 pralux [®]	3631 212	on request	3631 214	on request	3631 216	on request	3631 218	on request
Polycarbonate clear, internal ribbing	PSR-MAK-IG-DD-T5 pralux [®]	3631 302	on request	3631 304	on request	3631 306	on request	3631 308	on request
Polycarbonate, clear	PSR-MAK-DD-T5 pralux [®]	3631 312	on request	3631 314	on request	3631 316	on request	3631 318	on request
pralux[®]-specular reflectors for Apollo T5/16 mm system, wide beam, with centering and retaining springs for push-fit lampholders									
prachtopal [®] , Acrylic glass, impact resistant	HLR-Breit-PL-PO-DD-T5 pralux [®]	3614 602	on request	3614 604	on request	3614 606	on request	3614 608	on request
Acrylic glass, clear	HLR-Breit-PLEX-DD-T5 pralux [®]	3631 232	on request	3631 234	on request	3631 236	on request	3631 238	on request
Polycarbonate, clear	HLR-Breit-MAK-DD-T5 pralux [®]	3631 432	on request	3631 434	on request	3631 436	on request	3631 438	on request
pralux[®]-specular reflectors for Apollo T5/16 mm system, narrow beam, with centering and retaining springs for push-fit lampholders									
prachtopal [®] , Acrylic glass, impact resistant	HLR-Tief-PL-PO-DD-T5 pralux [®]	3630 601	on request	3630 603	on request	3630 605	on request	3630 607	on request
Acrylic glass, clear	HLR-Tief-PLEX-DD-T5 pralux [®]	3630 102	on request	3630 104	on request	3630 106	on request	3630 108	on request
Polycarbonate, clear	HLR-Tief-MAK-DD-T5 pralux [®]	3630 402	on request	3630 404	on request	3630 406	on request	3630 408	on request

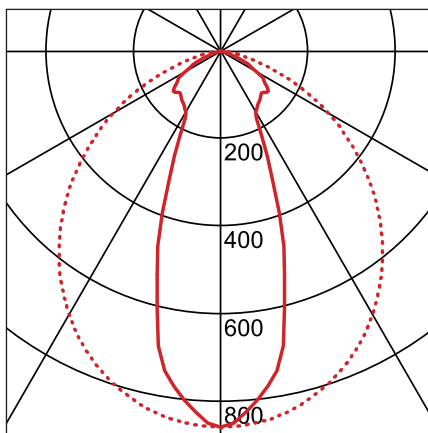
You can obtain light distribution curves upon request!

Designations for lamps Ø 26 mm	Type (VDE Designation)	18 Watt		36 Watt		58 Watt	
		Art.-No.	price (€)	Art.-No.	price (€)	Art.-No.	price (€)
pralux[®]-parabolic mirror reflectors for Herkules T8/26 mm system with push-fit lampholders, medium beam, with centering and retaining springs							
prachtopal [®] , Acrylic glass, impact resistant	PSR-PLEX-PO-DD-T8 pralux [®]	3614 601	on request	3614 603	on request	3614 605	on request
Acrylic glass, clear, internal ribbing	PSR-PLEX-IG-DD-T8 pralux [®]	3631 201	on request	3631 203	on request	3631 205	on request
Acrylic glass, clear	PSR-PLEX-DD-T8 pralux [®]	3631 211	on request	3631 213	on request	3631 215	on request
Polycarbonate clear, internal ribbing	PSR-MAK-IG-DD-T8 pralux [®]	3631 301	on request	3631 303	on request	3631 305	on request
Polycarbonate, clear	PSR-MAK-DD-T8 pralux [®]	3631 311	on request	3631 313	on request	3631 315	on request
pralux[®]-specular reflectors, for Herkules T8/26 mm system, wide beam, with push-fit lampholders, with centering and retaining springs							
prachtopal [®] , Acrylic glass, impact resistant	HLR-Breit-PL-PO-DD-T8 pralux [®]	3631 241	on request	3631 243	on request	3631 245	on request
Acrylic glass, clear	HLR-Breit-PLEX-DD-T8 pralux [®]	3631 231	on request	3631 233	on request	3631 235	on request
Polycarbonate, clear	HLR-Breit-MAK-DD-T8 pralux [®]	3631 431	on request	3631 433	on request	3631 435	on request
pralux[®]-specular reflectors, for Herkules T8/26 mm system, narrow beam, with push-fit lampholders, with centering and retaining springs							
prachtopal [®] , Acrylic glass, impact resistant	HLR-Tief-PL-PO-DD-T8 pralux [®]	3631 441	on request	3631 443	on request	3631 445	on request
Acrylic glass, clear	HLR-Tief-PLEX-DD-T8 pralux [®]	3630 101	on request	3630 103	on request	3630 105	on request
Polycarbonate, clear	HLR-Tief-MAK-DD-T8 pralux [®]	3630 401	on request	3630 403	on request	3630 405	on request

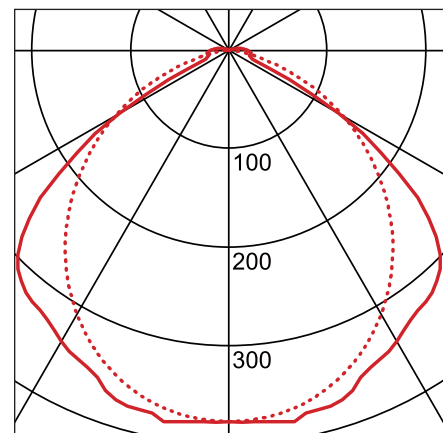
Illumination with maximum efficiency, thus considerable saving of energy and CO₂!



Polar distribution curve parabolic mirror reflector (PSR) with pralux[®]-reflector



Polar distribution curve narrow beam specular reflector (HLR-Tief) with pralux[®]-reflector



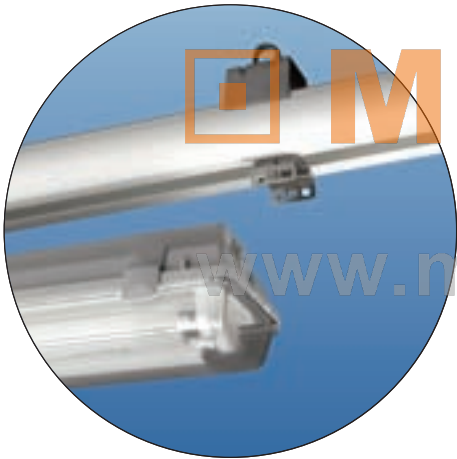
Polar distribution curve wide beam specular reflector (HLR-Breit) with pralux[®]-reflector



Product advantages The luminaire Bali

in the pipeline, available
starting the second half of 2008

- Shapely, slender design in single- and twin-lamp version



MODULO

- Line Bali with fast mounting clips for variable fixing to lighting trunking systems or ceilings.

www.modulelectro.ru

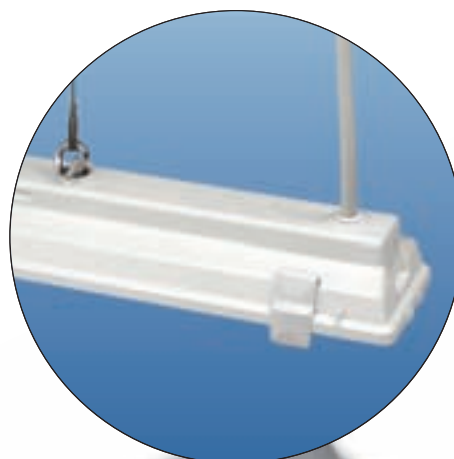


Product advantages The luminaire Bali

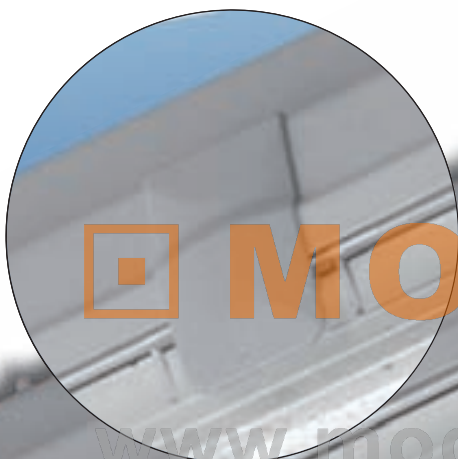
in the pipeline, available
starting the second half of 2008



- Prestamped cable entries on the ceiling side
- Cable entries at the ends
- Pendant mounting with steel wire

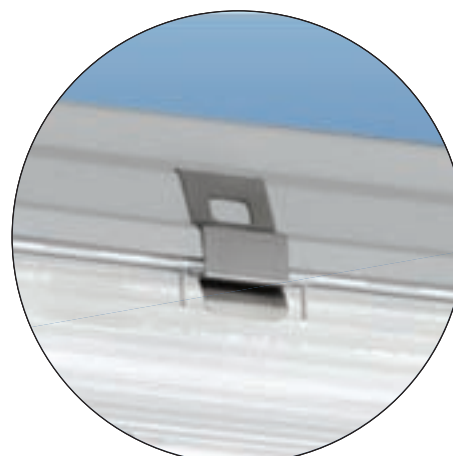


- Captive diffuser locks made of synthetic material

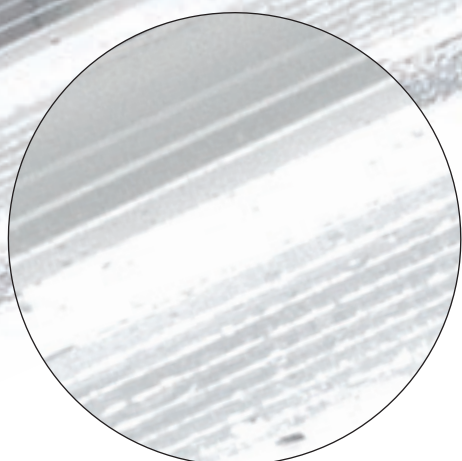


MODUL
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- Clips made of stainless steel optional



- Injection moulded diffuser with stable corners and photometrically optimized internal prisms in humid, wet ambiance





Application photo

Luminaire Tinos in star-shaped structure



Underground station Garching Universität





Product advantages The luminaire Azoren

in the pipeline, available
starting the second half of 2008

Housing: shapely warp resistant housing made of natural aluminium, surface coatings in RAL colours at extra cost

Socket end pieces: One-piece push-fit lampholder end pieces made of PBTP, impact-resistant

Socket: Two-slot plug-in socket

Lamp cover: cover made of PMMA or impact-resistant polycarbonate (PC), with internal prisms, smooth surface clear, or **prachtopal**[®]

Seals: age-resistant silicone seals

Electrical components: electronic ballast, industrial electronic ballast at extra cost, through-wiring max. 2 x 7 x 2,5 mm²

Installation: Variable mounting points using the **Pracht-CLIP-SYSTEM**, suitable for ceiling and pendant mounting.



Ingress protection IP54/IP65

Dust-proof

Jet-proof

230V/50Hz

*pendant

- high ingress protection IP54/IP65
- quick mounting of luminaires and covers using the Pracht-CLIP-SYSTEM
- closed specular reflectors sealed by means of an extremely short circular seal system made of age-resistant silicone
- through-wiring till max. 2x7x2,5 mm² with plug-in terminals
- connection system by means of quick mounting plug-in connection
- Variable mounting points with marginal deflexion depending on the luminaries mounted
- easy maintenance of the electronic devices due to hinge system
- mounting rail and services trunking in one system
- covered services trunking through rounded blind covers
- pre-mounted partial lengths, can be delivered to the site ready for connection, fully assembled by us

MODULO

www.modulelectro.ru

Product advantages The luminaire Azoren

in the pipeline, available
starting the second half of 2008

- Pendant suspension with wire, chain etc., variable mounting points

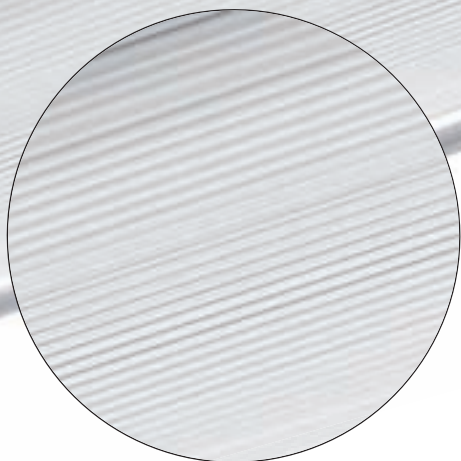


Based on many years of experience with the proved quick mounting lighting trunking system Azoren with T8 illuminants we present a completely newly designed lighting trunking system made of Aluminium based on T5 and T8 illuminants. **LED-versions on request!**

In conjunction with the closed **pralux**[®]-TOP-quality high efficiency reflectors we offer you a quick mounting system which has not been attained before.



MODULO
ELECTRO
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- Closed high efficiency reflectors in the **pralux**[®]-TOP-quality for highest energy efficiency



- Two-slot push-fit lampholder with fastener, optionally made of synthetic material or stainless steel

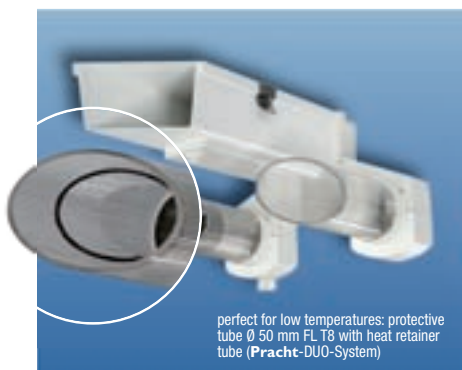


Protective tubes

For push-fit lampholders

- T5 Ø 38 mm
- T8 Ø 38 mm
- T8 Ø 50 mm

Protective tubes: crystal clear cover made of PMMA or impact resistant PC, smooth surface, on request possible with internal ribbing, for push-fit lampholders T5/T8
Version: T5 Ø 38 mm, T8 Ø 38 mm and T8 Ø 50 mm
Additional accessory: specular reflector HIR at Ø 38 mm and Ø 50 mm; for low temperatures an additional heat retaining tube for Ø 50 mm protective tubes is possible (**Pracht-DUO-System**)



Protective tubes Ø 38 mm for Apollo push-fit lampholders T5/16 mm	Type	14/24 Watt		21/39 Watt		28/54 Watt		35/49/80 Watt		
		Art.-No.	price (€)	Art.-No.	price (€)	Art.-No.	price (€)	Art.-No.	price (€)	
Protective tube for T5/16 mm lamps										
Polycarbonate, clear, Ø 38 mm	LS-MAK-DD-T5	5613 312	on request	5613 314	on request	5613 316	on request	5613 318	on request	
Polycarbonate, clear, internal ribbing, Ø 38 mm	LS-MAK-IG-DD-T5	5623 312	on request	5623 314	on request	5623 316	on request	5623 318	on request	
Specular reflector for protective tube for T5/16 mm Ø 38 mm lamps										
Specular reflector, Ø 38 mm	HIR-T8/16-38	5691 002	on request	5691 004	on request	5691 006	on request	5691 008	on request	

Protective tubes Ø 38 mm For Apollo push-fit lampholders T8/26 mm	Type	18 Watt		36 Watt		58 Watt		
		Art.-No.	price (€)	Art.-No.	price (€)	Art.-No.	price (€)	
Protective tube for T8/26 mm lamps								
Polycarbonate, clear, Ø 38 mm	LS-MAK-DD-T8	613 322	on request	613 324	on request	613 327	on request	
Polycarbonate, clear, internal ribbing, Ø 38 mm	LS-MAK-IG-DD-T8	623 322	on request	623 324	on request	623 326	on request	
Specular reflector for protective tube for T8/26 mm Ø 38 mm lamps								
Specular reflector, Ø 38 mm	HIR-T8/26-38	692 003	on request	692 004	on request	692 005	on request	

Protective tubes Ø 50 mm for Apollo DD T8/26 mm	Type	18 Watt		36 Watt		58 Watt		
		Art.-No.	price (€)	Art.-No.	price (€)	Art.-No.	price (€)	
Protective tube for T8/26 mm lamps								
Acrylic glass, Ø 50 mm	LS-PLEX-DD-T8	623 112	on request	623 114	on request	623 116	on request	
Polycarbonate, clear, Ø 50 mm	LS-MAK-DD-T8	613 312	on request	613 314	on request	613 316	on request	
Polycarbonate, clear, internal ribbing, Ø 50 mm	LS-MAK-IG-DD-T8	623 312	on request	623 314	on request	623 316	on request	
Specular reflector for protective tube for T8/26 mm Ø 50 mm lamps								
Specular reflector, Ø 50 mm	HIR-T8/26-50	692 012	on request	692 014	on request	692 016	on request	

Recommendation: for low temperatures please inquire for protective tubes Ø 50 mm FL T8 with heat retainer tube (**Pracht-DUO-System**) – see picture top left
Note: versions in prachtopal® available on request.

ADAPTER T12/38 mm TO T8/26 mm

Areas of application: protection of the lamps against mechanical damages, draughts and dew



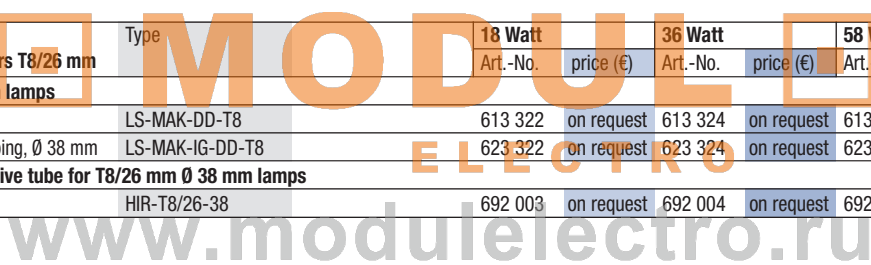
Adapter T12/T8 retrofittable

Note:

Retrofittable adapter
 From FL T12 Ø 38 mm to FL T8 Ø 26 mm

Art.-No.	price in €
810159	6,80

You can obtain light distribution curves upon request!



Special solutions Accessories and spare parts



Clips and wire for pendant suspension of the luminaire Tinos, for easy and fast quick mounting – see picture bottom left

Note: 2 pcs required per luminaire

Art.-No. 706 039



Pracht-Tinos clip Ø 60 mm for variable mounting distances made of stainless steel, hinge on one side

Note: 2 pcs required per luminaire

Art.-No. 704 040



Special mounting clip made of stainless steel for extreme application areas, for variable mounting distances, Line PPR100

Note: 2 pcs required per luminaire

Art.-No. 690 133



Underground station in Kesselsberg, Duisburg



High ingress protection IP69K*

Luminaire Tinos with high ingress protection IP69K*. Other luminaire series on request.

*VDE pendant



Special mounting clips made of stainless steel for extreme application areas

WHY DECIDE IN FAVOUR OF Pracht?

The company **Alfred Pracht Lichttechnik GmbH** is the specialist when it comes to illumination under extreme conditions. For over 50 years **Pracht** has been developing jointly with customers customised lighting solutions. Stay on the "safe side": when encountering extreme requirements then the **Pracht** specialists should be your first choice.

Because our luminaires offer a long service life, are rugged, resilient but also energy-efficient, maintenance-friendly, easy to recycle and economical.

Successfully implementing lighting projects means to you planning reliability and a clear scope regarding performance from enquiry to delivery.

Thus the company **Pracht** offers:

- ✓ **Lighting planning**
- ✓ **Project monitoring**
- ✓ **Professional on-site consulting and service**
- ✓ **Specialist trade partners close by**

for the implementation of your requirements.

Mounting and continuous mounting systems:

Quick mounting by a single fitter through the unique **Pracht** clip system made of stainless steel, alternatively with optional synthetic material coating. The mounting distances are variable owing to the mounting strip. The luminaires are suited for ceiling, pendant and horizontal wall mounting and for fitting to lighting trunking systems. In contrast to conventional diffuser luminaires, no access to the body of the luminaire is necessary when mounting the luminaire.

Mounting strips for continuous mounting arrangements were developed jointly with the food manufacturers. Rounded surfaces almost without edges are very easy to keep clean. For different areas of application mounting strips made of polyester (LTPG) or aluminium (LTAG) are available.



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CUTTING EDGE

Maintenance



Maintenance components are irrevocably linked to the luminaire: socket components, push-fit lamp holders made of PBTP, reflectors, inspection openings. During maintenance work no loose parts may drop out. In high quality

Pracht products, temperature and aging resistant silicone seals are used. Even after having changed the lamp several times, the seals will not break or suffer from sticking. This ensures that the luminaire remains sealed over its entire service life.

Cleaning



The luminaires for the food and beverages industry are by design provided with smooth surfaces so as to prevent the accumulation of contaminants. The tubular luminaires belonging to the high ingress protection category IP 67/68 offer, moreover,

the tremendous benefit of an absolutely round and smooth surface without contamination attracting edges.

Material and colour diversity

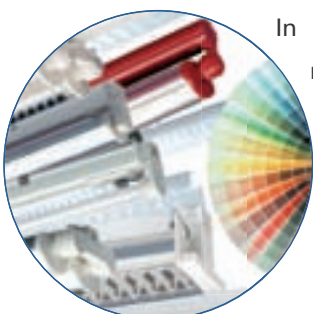
Different materials and all tints from the RAL colour space system are available:

- Luminaire housing:

The luminaire bodies are made of dyed, glass fibre reinforced polyester, **prachtopal**[®] (substantially resistant against acids and alkalis) or (highly) impact resistant polycarbonate.

- Lamp cover:

The lamp covers are fully sealed and adjustable. The covers are made either of impact resistant polycarbonate, (PC), impact resistant **prachtopal**[®], respectively acrylic glass (PMMA).



In this way it is possible to respond to widely differing chemical or mechanical stresses:

Polycarbonate is absolutely unbreakable and may be em-

ployed in connection with luminaires which, for example, are exposed in a manual handling area to increased mechanical stress. An entry in the glass register is not necessary.

prachtopal[®] is an impact resistant material which is highly resistant against acids, alkalis and greases.

PMMA being a highly translucent material can be used in connection with low mechanical but high chemical requirements regarding shatter protection for the illuminants made of glass.

- Lamp holder end pieces

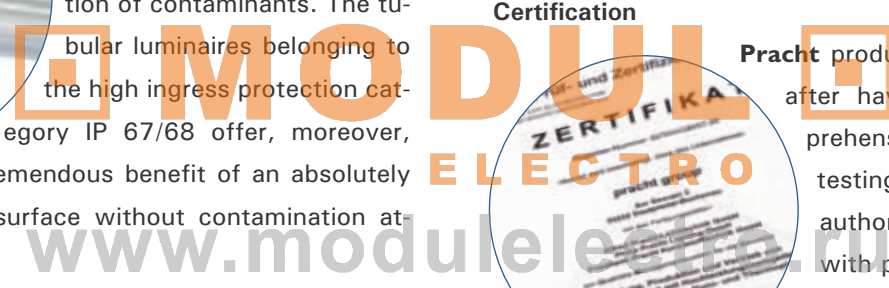
Integrated in the lamp holder end pieces made of PBTP are two-slot plug-in sockets with silver plated contacts and ageing resistant silicone seals. The majority of these silicone seals and synthetic material accessory components are manufactured within the own group of companies.

Certification

Pracht products are only released after having undergone comprehensive inspection and testing through certification authorities. Thus compliance with pertinent safety standards like VDE, respectively ENEC, is ensured for every product. The company **Pracht** is ISO 9001 certified by VDE. In addition it was certified that **Pracht** luminaires are suited for IFS certified companies from the food and beverages industry.

Energy efficiency:

The number of luminaires can be reduced through the use of **Pracht** luminaires with wide beam, narrow beam, or medium beam high-performance reflectors. Low wattages suffice in order to attain the demanded luminous intensities. Through the use of the latest, optimized **pralux**[®] high-performance mirror reflectors an additional increase in efficiency of over 10% in connection with T5/16 mm illuminants has been attained compared to previous **Pracht** products. The illuminants are secured in place through adjustable reflectors with holding clips made of stainless steel. This prevents any dropping out of the illuminants when changing the lamps. Moreover, the reflectors protect the illuminants against damage, cold and draughts.



WE CARRY ON THINKING WHERE OTHERS STOP. Pracht PRODUCT RESPONSIBILITY.

True recycling management and product responsibility already begins at the product design stage and integrates waste disposal logistics in the "life cycle" of the products (see § 22 Para.1 KrW-/AbfG - Closed Substance Cycle Waste Management Act).

This important aspect is very much taken into account within the entire **pracht group**®.

Besides the rethinking process at the "consumers" who in future will rather understand their role as "users", a rethinking process at the manufacturers will also be necessary since these are not only "product manufacturers" but also the actual "waste producers". Used products (= waste) are raw materials when treated as such after end of their usage.

The **pracht group**® already takes into account in connection with the decisions relating to product development, production and usage, that waste is more and more the raw material of tomorrow so as to ensure a secure future for coming generations.



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Economical and

- Increase in luminous flux efficiency Lower en
- Lamp conserving ignition Lower lab
- Longevity of the products
- Standard electrical components

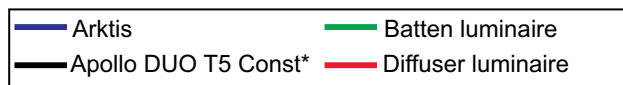
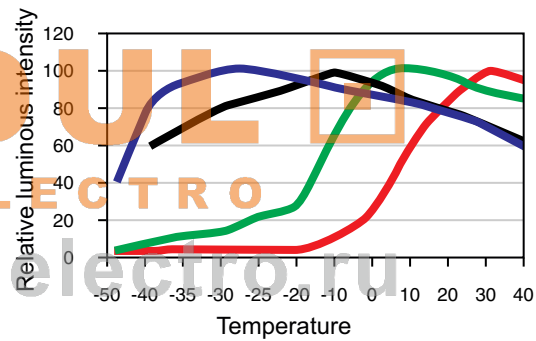


Within the **pracht group**[®] the consistent inclusion of the aspect of product responsibility within the product development process has top priority. Through an integration of the new WEEE EU Directives as well as the fulfilment of product responsibility in accordance with §22 of the Closed Substance Cycle Waste Management Act (KrW-/AbfG), the luminaire systems from **Pracht** are developed in full awareness of environmental considerations. An important partial aspect is the design optimization regarding the energy efficiency of **Pracht** luminaires.

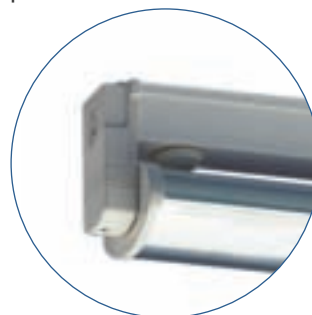
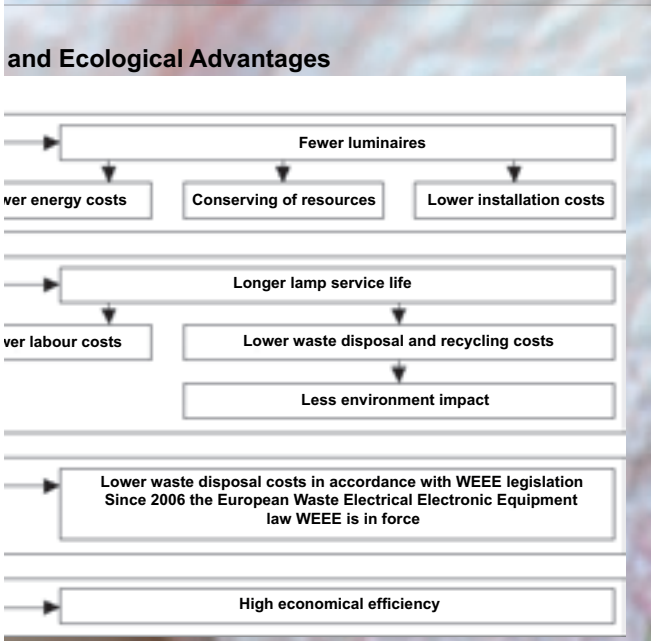
Product responsibility in practice

Cold storage rooms application example:

To what extent the energy efficiency of **Pracht** luminaires has been optimized by the design-wise integration of heat retaining tubes (WST) is demonstrated by the measurement results of the relative luminous intensities of different types of luminaire in the following diagram.



This is only one practical example demonstrating how we were able to attain for our customers through the implementation of product responsibility economic and ecological advantages. Our reputation on the market as an environment-friendly and customer-oriented enterprise confirms the success of this approach.



Cold storage room luminaire Arktis down to -50°C



Surface mounting luminaire Apollo DUO T5



*Apollo DUO T5 Const with OSRAM HO CONSTANT fluorescent lamp

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Subject to technical alterations. Errors and omissions excepted. Status: 04/2008



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