

SEEGER
architectural lighting



 **2011**

Kardan / Shoplight



The cardanic suspension was named after the Italian physician and mathematician Geronimo Cardano (1501-1576). The cardanic suspension was originally a technical device for holding measuring instruments such as a ship's compass while allowing free rotation, independent of any external movement. Technically speaking it is a metal ring inside which two further metal rings are mounted one inside the other on pivots oriented at 90° to each other. The measuring instrument is then fastened to the inner ring.



Cardanic Projection Spots

Scenic lighting is used in many architectural applications. Directional spotlights are not only used in retail lighting but also wherever areas are to be visually divided into different zones of illumination. For this purpose we offer a complete

product line. This luminaire family contains recessed and surface mounted luminaires, floor and pendant luminaires. Available as 1- to 4-flame, as single luminaire or as system luminaire with an unlimited quantity of light sources.

Cardanic Floor Luminaire

Multi-flame luminaire unit which can be flexibly used as a floor luminaire. Luminaires available complete with mains plug and integrated electronic control gear.



Recessed Cardanic Luminaire

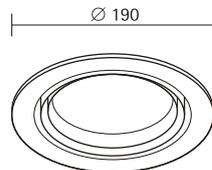
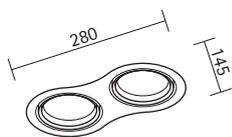
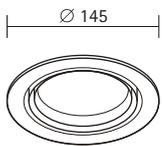
Square recessed luminaire with light trap. Black inner body, the luminaire elements are available in silver C3 or any other RAL colour. Changing reflectors in removable anti-glare cone.



Recessed Cardanic Luminaire

Round recessed luminaire with spring fastening. Luminaire elements available in silver C3 or any other RAL colour. Changing reflectors in removable anti-glare cone.





Recessed Cardan

Minimalistic housing with decorative, flat surround. The luminaire head is cradled on a cardan joint and can be tilted to all sides. The reflectors are optionally available in three different beam characteristics: flood, medium or narrow.

Equipped for 20-70W CDM-TC lamps. With separate electronic control gear unit. 1- to 6-flame luminaires are available as standard. Special layouts can be realised without problem. The electrical connection to the separate control gear is made without tools using the ST18

plug-in system. Changing reflectors enable multi-flame luminaires to be fitted with reflectors with different photometric properties. A later exchange or replacement of reflectors is possible.



Choice of Reflectors

For these luminaires reflectors with 24° = medium beam angle are supplied as standard. However, a choice of beam angles is available (spot, medium or flood). Reflectors changeable. If medium is not required, please indicate when ordering.

► To specify the choice of reflector, please add:

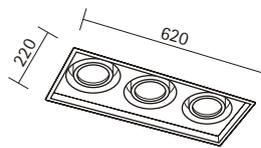
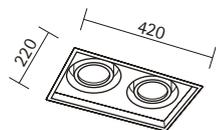
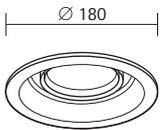
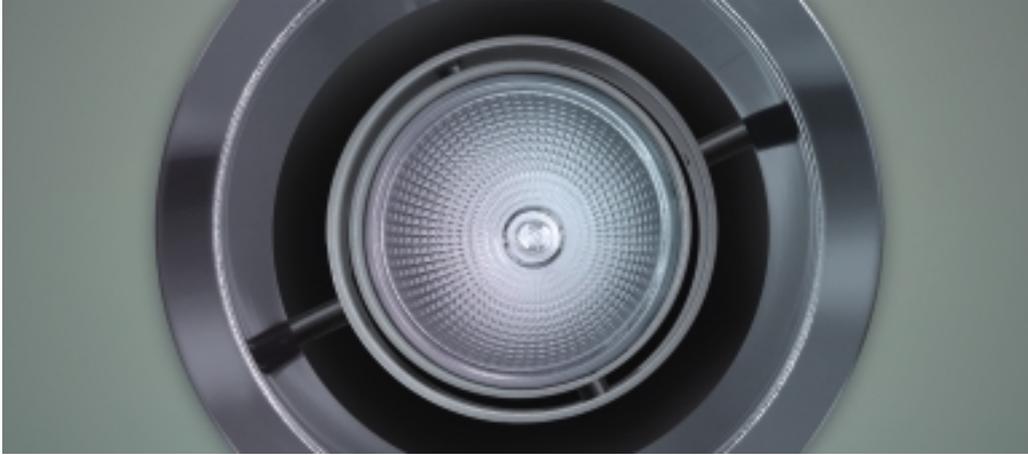
- S = Spot
- M = Medium
- F = Flood

For luminaires with multiple lamp units, multiple specification of reflectors is possible.

			CDM-T 	35-70W G12	CDM-TC 	20-70W G8,5
			SDW-TG 	50-100W GX12-1		

							Version						
							Reflector, spot	Reflector, medium	Reflector, flood	Separate ECG			
							Article No.	ECG	Lamp version				
				4980.020	.02	1 x CDM-TC 20W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>			
				4980.035	.02	1 x CDM-TC 35W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>			
				4980.070	.02	1 x CDM-TC 70W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>			
			4980.220	.02	2 x CDM-TC 20W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>				
			4980.235	.02	2 x CDM-TC 35W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>				
			4980.270	.02	2 x CDM-TC 70W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>				
				4981.035	.02	1 x CDM-T 35W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>			
				4981.070	.02	1 x CDM-T 70W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>			
				4982.050	.02	1 x SDW-TG 50W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>			
				4982.100	.02	1 x SDW-TG 100W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>			

Recessed Kardan



Recessed Cardan

Recessed cardan with cone tiltable to all sides. The cone and the tiltable luminaire insert form a subassembly and can be removed tool-free to enable installation and repair. The reflectors are optionally available in three different

medium or narrow. Equipped for 20-70W CDM-TC lamps. With separate electronic control gear unit. 1- to 3-flame luminaires are available as standard. Special layouts can be realised without problem. The electrical connection to the separate control gear is made

tool-free using the ST18 plug-in system. Interchangeable reflectors enable multi-flame luminaires to be fitted with reflectors with different photometric properties. A later exchange or replacement of reflectors is possible.

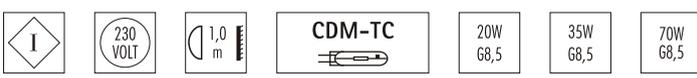
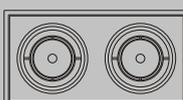
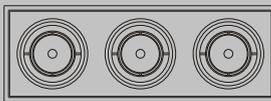
Choice of Reflectors

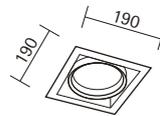
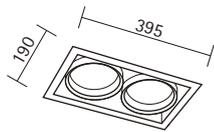
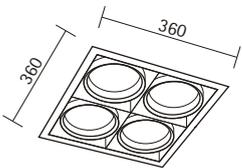
For these luminaires reflectors with 24° = medium beam angle are supplied as standard. However, a choice of beam angles is available (spot, medium or flood). Reflectors changeable. If medium is not required, please indicate when ordering.

► To specify the choice of reflector, please add:

- S = Spot
- M = Medium
- F = Flood

For luminaires with multiple lamp units, multiple specification of reflectors is possible.

						Version					
						Reflector, spot	Reflector, medium	Reflector, flood	Separate ECG		
											
Article No. ECG Lamp version											
				4985.020	.02	1 x CDM-TC	20W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4985.035	.02	1 x CDM-TC	35W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4985.070	.02	1 x CDM-TC	70W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
	CCO=400x200mm			4986.220	.02	2 x CDM-TC	20W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
	ED =420x220mm			4986.235	.02	2 x CDM-TC	35W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4986.270	.02	2 x CDM-TC	70W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
	CCO=600x220mm			4986.320	.02	3 x CDM-TC	20W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
	ED =620x220mm			4986.335	.02	3 x CDM-TC	35W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4986.370	.02	3 x CDM-TC	70W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>



Recessed Kardan Luminaire, Square

Tiltable to all sides. Cone removable tool-free. Beam angle characteristics in spot, medium or flood. Luminaire for one CDM-T 35W or 70W with separate electronic control gear. Up to 4 luminaire units

can be mounted in one enclosed, recessed body made of a black powder-coated light trap. A special spring fastening allows the adjustment of the previously installed luminaires. The electrical connection to the separate control gear is made without tools using the ST18

plug-in system. Interchangeable reflectors enable multi-flame luminaires to be fitted with reflectors with different photometric properties. A later exchange or replacement of reflectors is possible.

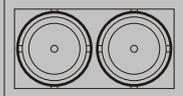
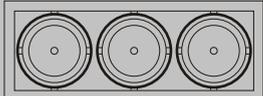
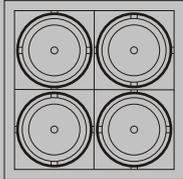
Choice of Reflectors

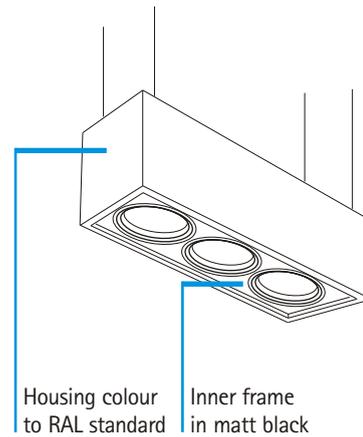
For these luminaires reflectors with 24° = medium beam angle are supplied as standard. However, a choice of beam angles is available (spot, medium or flood). Reflectors changeable. If medium is not required, please indicate when ordering.

► To specify the choice of reflector, please add:

- S = Spot
- M = Medium
- F = Flood

For luminaires with multiple lamp units, multiple specification of reflectors is possible.

						Version					
						Reflector, spot	Reflector, medium	Reflector, flood	Separate ECG		
											
		Article No.	ECG	Lamp version							
	CCO=165x165mm	4991.035	.02	1 x CDM-T 35W		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
	ED =190x190mm	4991.070	.02	1 x CDM-T 70W		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
		4992.050	.02	1 x SDW-TG 50W		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
		4992.100	.02	1 x SDW-TG 100W		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
	CCO=370x165mm	4993.035	.02	2 x CDM-T 35W		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
	ED =395x190mm	4993.070	.02	2 x CDM-T 70W		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
		4994.050	.02	2 x SDW-TG 50W		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
		4994.100	.02	2 x SDW-TG 100W		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
	CCO=550x165mm	4995.035	.02	3 x CDM-T 35W		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
	ED =575x190mm	4995.070	.02	3 x CDM-T 70W		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
		4996.050	.02	3 x SDW-TG 50W		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
		4996.100	.02	3 x SDW-TG 100W		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
	CCO=335x335mm	4997.035	.02	4 x CDM-T 35W		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
	ED =360x360mm	4997.070	.02	4 x CDM-T 70W		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
		4998.050	.02	4 x SDW-TG 50W		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
		4998.100	.02	4 x SDW-TG 100W		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		



BOXs

This surface-mounted and pendant version arose as a custom project solution and now forms an addition to our successful cardan product range. Stripped to the bare essentials and manufactured as if from one piece, this product is discreet and unimposing. The housing is greatly reduced and therefore harmonises well with all areas. The special thermal management has enabled all electronic components to be integrated in the housing.

Choice of Reflectors

Various beam angles are available. Changing reflectors enable multi-flame luminaires to be fitted with different reflectors. For these luminaires reflectors with 24° = medium beam angle are supplied as standard. However, a choice of beam angles is available (spot, medium or flood). If medium is not required, please indicate when ordering.

► To specify the choice of reflector, please add:

- S = Spot
- M = Medium
- F = Flood

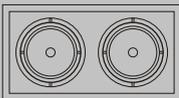
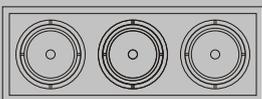
For luminaires with multiple lamp units, multiple specification of reflectors is possible.



**Pendant Cardan
Luminaire, Square**

Equipped for 35-70W CDM-T with integrated electronic control gear units. 1- to 3-flame luminaires. Luminaire housing made of powder-coated sheet-steel, colour to RAL standard. Inner housing closed, powder-coated in matt black. Suspensions with rapid-connector system and supply cable.



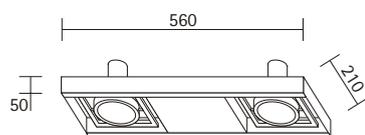
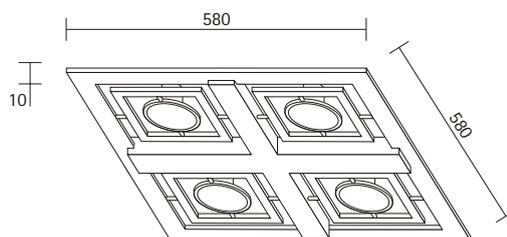
						Version						
						Reflector, spot	Reflector, medium	Reflector, flood			Matt white	Made to RAL
						Article No.	ECG	Lamp version				
	L=205mm	9620.135	.02	1 x CDM-T	35W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>			<input checked="" type="radio"/>	<input type="radio"/>
	W=205mm	9620.170	.02	1 x CDM-T	70W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>			<input checked="" type="radio"/>	<input type="radio"/>
	H=220mm											
	L=205mm	9620.235	.02	2 x CDM-T	35W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>			<input checked="" type="radio"/>	<input type="radio"/>
	W=390mm	9620.270	.02	2 x CDM-T	70W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>			<input checked="" type="radio"/>	<input type="radio"/>
	H=220mm											
	L=205mm	9620.335	.02	3 x CDM-T	35W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>			<input checked="" type="radio"/>	<input type="radio"/>
	W=565mm	9620.370	.02	3 x CDM-T	70W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>			<input checked="" type="radio"/>	<input type="radio"/>
	H=220mm											



Pendant Cardan

Luminaire, CDM-TC

CDM-TC are the lamps with the smallest arc tube chamber within the Master Colour family of Philips. For this reason a very high light intensity can be produced. The high luminous efficiency together with a long lamp life result in low operating costs. The colour temperature of 3000°K and a very good colour rendering are the optimum for scenic retail lighting.





**Pendant Cardan
Luminaire, CDM-TC**

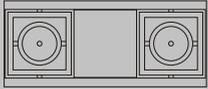
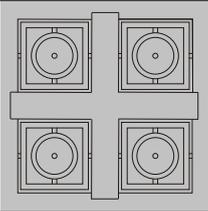
Aluminium and steel luminaire body. Silver anodized aluminium reflectors. Choice of several beam angles is available. Complete with integrated electronic control gears, suspension with fast tensioning system and supply cable. Luminaire can be suspended either level or inclined.

► To specify the choice of reflector, please add:

- S = Spot
- M = Medium
- F = Flood

For luminaires with multiple lamp units, multiple specification of reflectors is possible.



		Article No.	ECG	Lamp version	Reflector, spot	Reflector, medium	Reflector, flood	Silver C3	Made to RAL
	L=560mm	9608.235	.02	2 x CDM-TC 35W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
	W=210mm	9608.270	.02	2 x CDM-TC 70W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
	H=130mm								
	L=580mm	9610.435	.02	4 x CDM-TC 35W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
	W=580mm	9610.470	.02	4 x CDM-TC 70W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
	H=130mm								

Pendant Kardan



System Luminaire

In addition to the previously mentioned individual luminaires, this product group is also available as system luminaire. Luminaires can be produced as continuous elements. For this it is necessary to know:

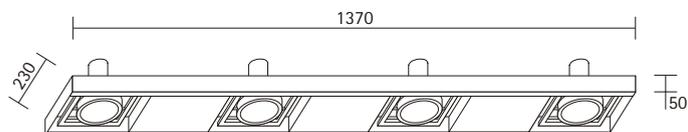
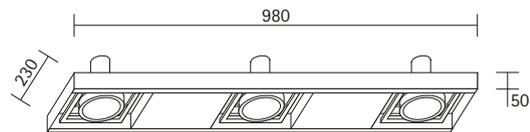
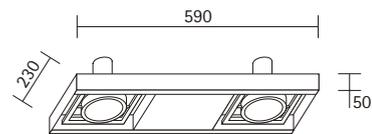
- overall system length
- required light source
- luminaire distance to each other

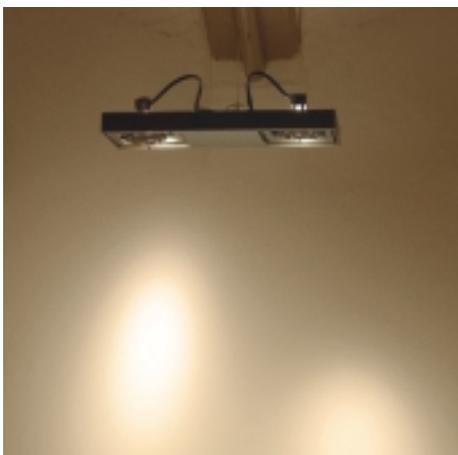
Systems also available with fluorescent lamps T5 direct or direct/indirect with either louvre cover, acrylic cover or as free projection, in addition PL downlights and wall mounted floodlights can be square and integrated. A selection of technical accessories such as loudspeaker, fire alarm, sprinkler and monitoring camera units is available.

Pendant Cardan

Luminaires, CDM-TC

Aluminium and steel luminaire body. Silver anodized aluminium reflectors. Choice of several beam angles is available. Complete with integrated electronic control gears, suspension with fast tensioning system and supply cable. Luminaire can be suspended either level or inclined.





Choice of Reflectors

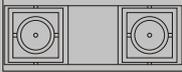
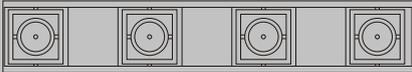
For these luminaires reflectors with 24° = medium beam angle are supplied as standard. However, a choice of beam angles is available (spot, medium or flood). Reflectors changeable. If medium is not required, please indicate when ordering.

► To specify the choice of reflector, please add:

- S = Spot
- M = Medium
- F = Flood

For luminaires with multiple lamp units, multiple specification of reflectors is possible.



		Article No.	ECG	Lamp version	Version						
					Reflector, spot	Reflector, medium	Reflector, flood			Silver C3	Made to RAL
	L=590mm	9612.035	.02	2 x CDM-T 35W	○	●	○			●	○
	W=230mm	9612.070	.02	2 x CDM-T 70W	○	●	○			●	○
	H=160mm	9612.050	.02	2 x SDW-TG 50W	○	●				●	○
		9612.100	.02	2 x SDW-TG 100W	○	●				●	○
	L=980mm	9613.035	.02	3 x CDM-T 35W	○	●	○			●	○
	W=230mm	9613.070	.02	3 x CDM-T 70W	○	●	○			●	○
	H=160mm	9613.050	.02	3 x SDW-TG 50W	○	●				●	○
		9613.100	.02	3 x SDW-TG 100W	○	●				●	○
	L=1370mm	9614.035	.02	4 x CDM-T 35W	○	●	○			●	○
	W= 230mm	9614.070	.02	4 x CDM-T 70W	○	●	○			●	○
	H= 160mm	9614.050	.02	4 x SDW-TG 50W	○	●				●	○
		9614.100	.02	4 x SDW-TG 100W	○	●				●	○



NV-Q

Recessed luminaire designed for ceiling and wall mounting. Characteristic design featuring a light source recessed deeply inside the luminaire. Several versions are available for various lamps. Various wattages are possible, from 20W to 100W, as well as different beam angles for focused or diffuse light. This product range meets highly diverse lighting requirements.



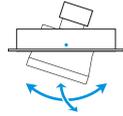


NV Square Downlight

Silver C3 powder-coated recessed body made of sheet-metal. Luminaire can be installed in sawn ceiling openings and wall holes. Wherever necessary, it has a separate electronic control gear for halogen lamps and for HID lamps. Optionally available with special accessories, for example with IP-rated protection glass cover, colour filter or additional mounting body.

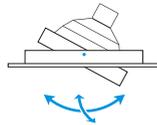
			QR-CBC 51 	20-50W GX 5,3	QR 111 	50-100W G 53
			HI-PAR 51 	35W GX 10		

							Version						
							Lamp, fixed	Lamp, tiltable	Separate transformer	Separate ECG	White	Silver C3	Made to RAL
		Article No.	ECG	Lamp version									
 	 	1090.100	.-02	1 x QR 111 100W		●		●		○	●	○	
 	 	1091.050	.-02	1 x QR-CBC 51 50W		●		●		○	●	○	
		1091.035	.-02	1 x HI-PAR 51 35W		●				○	●	○	
		1092.050	.-02	1 x QR-CBC 51 50W		●				○	●	○	
		1092.035	.-02	1 x HI-PAR 51 35W		●		●		○	●	○	
 	 	1093.050	.-02	2 x QR-CBC 51 50W		●		●		○	●	○	
		1093.035	.-02	2 x HI-PAR 51 35W		●				○	●	○	
		1094.050	.-02	2 x QR-CBC 51 50W		●				○	●	○	
		1094.035	.-02	2 x HI-PAR 51 35W		●		●		○	●	○	



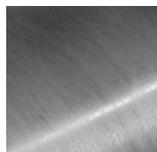
BRITE

This luminaire was developed for the innovative, miniaturized metal halide lamp BriteSpot ES50. With only 35W and 38° beam angle this lamp reaches 4000cd, together with a colour temperature of 3000°K. This lamp is perfectly suited to use in shop areas. The luminaire's characteristic is the refining scotched aluminium surface which appears extraordinarily metallic and precious.



CDM-TM, Spot

The new Philips CDM-TM lamp was integrated during further development of our Mini Cardanic series. Changing reflectors are available to meet required illumination tasks. Alternatively these luminaires are available for halogen lamps.



Scotched surface



Swivel arm luminaire tiltable and turnable. Massive aluminium scotched and zaponized, alternatively with powder-coated finish. Complete with separate electronic control gear.

			HI-PAR 51 	39W GX10	CDM-TM 	20W PGJ5
			QR-CBC 51 	20-50W GX5,3	QT 12 	50-90W GY6,35

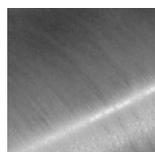
		Article No.		ECG	Lamp version		Version							
							Lamp, fixed	Lamp, tiltable	Separate transformer	Separate ECG	Made to RAL	Scotched aluminium		
					1080.050	.02	1 x QR-CBC 51 50W	●	●			○	●	
					1080.035	.02	1 x HI-PAR 51 35W	●		●			○	●
					1085.020	.02	1 x CDM-TM 20W	●		●		○	●	
					1085.050	.02	1 x QT 12 50-90W	●	●				○	●
					6200.050	.02	1 x QR-CBC 51 50W	●	●			○	●	
					6200.035	.02	1 x HI-PAR 51 35W	●		●			○	●
					6201.050	.02	1 x QR-CBC 51 50W	●	●				○	●
					6201.035	.02	1 x HI-PAR 51 35W	●		●				○

LED TRIPLE



LED TRIPLE

This luminaire makes an individual statement thanks to its unique material surface. A solid aluminium disc with a finely brushed finish provides an aesthetic detail, an effect that is particularly highlighted by the conically milled light apertures. Featuring powerful and economical LED emitters, the luminaire is available with wide-beam, directed light or lenses for different beam characteristics.



Scotched surface



LED TRIPLE

This solid wall-mounted luminaire has been specially developed for accentuating vertical surfaces and for use as pathway lighting. The light emission is "up and down". The beam angle for both direct and indirect beam directions can be separately individually selected and adjusted to suit the individual requirements. The high-quality housing is made of aluminium and therefore corrosion resistant. This luminaire is suitable for indoor and outdoor applications and is protection rated to IP20 or IP44.

LED TRIPLE



Luminous flux with
15°20°40° lens

300 lm	350 mA	4,2W	white
520 lm	700 mA	8,7W	white
230 lm	350 mA	4,2W	warm
390 lm	700 mA	8,7W	warm

Values stated are approximate.



Luminous flux for
90° emission

330 lm	350 mA	4,2W	white
570 lm	700 mA	8,7W	white
260 lm	350 mA	4,2W	warm
440 lm	700 mA	8,7W	warm



Luminous flux with
15°20°40° lens

300 lm	350 mA	4,2W	white
520 lm	700 mA	8,7W	white
240 lm	350 mA	4,2W	warm
400 lm	700 mA	8,7W	warm

Values stated are approximate.

Colour of Light

The LEDs used are made by CREE and are always sourced from the best binning. The highest efficiency currently possible is achieved in conjunction with the optimised thermal management. A choice of two colours of light is available.

A warm tone with a correlating colour temperature between 2800 and 3000 Kelvin and white with a colour temperature between 5700 and 6700 Kelvin.



Neutral white



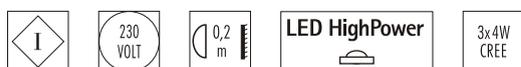
Warm white

Lens Options

These luminaires are supplied as standard with lenses with a 20° beam angle (= medium). Additional lenses with spot or flood beam angles are optional. The lenses are prefabricated in the factory. The required beam angles of the lenses are to be stated as a suffix to the article number when ordering.

► **Order suffix for lens:**

- S = 15° Spot
- M = 20° Medium
- F = 40° Flood
- W = 90° Wide flood



				Version								
				Neutral white LED	Warm white LED	15° Spot	20° Medium	40° Flood	90° Wide flood	Scotched aluminium		
Article No.	ECG	Lamp version										
		Ring Size 110mm	BIH 70mm	CCO 85mm	1101.351	.-02	CREE 350mA 4,2W	●	○	●	○	●
					1101.352	.-02	CREE 350mA 4,2W	●	○	●	○	●
					1101.701	.-02	CREE 700mA 8,7W	●	○	●	○	●
					1101.702	.-02	CREE 700mA 8,7W	●	○	●	○	●
		Ring Size 110mm	BIH 70mm	CCO 85mm	1103.351	.-02	CREE 350mA 4,2W	●	○	●	○	●
					1103.352	.-02	CREE 350mA 4,2W	●	○	●	○	●
					1103.701	.-02	CREE 700mA 8,7W	●	○	●	○	●
					1103.702	.-02	CREE 700mA 8,7W	●	○	●	○	●
		Ring Size 120mm	BIH 70mm	CCO 100mm	1105.351	.-02	CREE 350mA 4,2W	●	○	●	○	●
					1105.352	.-02	CREE 350mA 4,2W	●	○	●	○	●
					1105.701	.-02	CREE 700mA 8,7W	●	○	●	○	●
					1105.702	.-02	CREE 700mA 8,7W	●	○	●	○	●



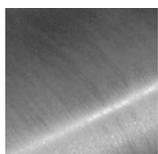
TUBE

Solid aluminium housing with minimised dimensions and particularly refined, brushed finish. With integrated control gear for connection to 230V. Thanks to the use of highly efficient LEDs, the Power Emitters used ensure a very high lumen output of up to 520 lm/700 mA for white and 390 lm/700 mA for warm white.



WALL

Solid aluminium housing with minimised dimensions and particularly refined, brushed finish. With integrated control gear for connection to 230V. Up and down light distribution, with selectable beam characteristics. Applicable for scenic or general lighting tasks. The luminaire features a wall plate and open cables. The connection is pressed together on site or soldered with shrink-fit tubing for electrical insulation. The wall connection is also possible with a large wall connection housing.



Scotched surface

Colour of Light

The LEDs used are made by CREE and are always sourced from the best binning.

The highest efficiency currently possible is achieved in conjunction with the optimised thermal management. A choice of two colours of light is available.

A warm tone with a correlating colour temperature between 2800 and 3000 Kelvin and white with a colour temperature between 5700 and 6700 Kelvin.



Neutral white



Warm white

Lens Options

These luminaires are supplied as standard with lenses with a 15° beam angle (= narrow). Additional lenses with spot or flood beam angles are optional. The lenses are prefabricated in the factory. The required beam angles of the lenses are to be stated as a suffix to the article number when ordering.

► Order Suffix for lens:

- S = 15° Spot
- M = 20° Medium
- F = 40° Flood



		Article No.		ECG	Lamp version		Version						
							Neutral white LED	Warm white LED	15° Spot	20° Medium	40° Flood	IP44	Scotched aluminium
	Ø= 70mm H= 90mm	1140.351	-.02	CREE	350mA	4,2W	●		●	○	○		●
		1140.352	-.02	CREE	350mA	4,2W		●	●	○	○		●
		1140.701	-.02	CREE	700mA	8,7W	●		●	○	○		●
		1140.702	-.02	CREE	700mA	8,7W		●	●	○	○		●
	Ø= 70mm H= 138mm D = 110mm	1145.351	-.02	CREE	350mA	8,4W	●		●	○	○		●
		1145.352	-.02	CREE	350mA	8,4W		●	●	○	○		●
		1146.351	-.02	CREE	350mA	8,4W	●		●	○	○	●	●
		1146.352	-.02	CREE	350mA	8,4W		●	●	○	○	●	●

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Amtsgericht Dortmund

(Local first-instance court)

Commercial Register No.: HRA 16 133

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