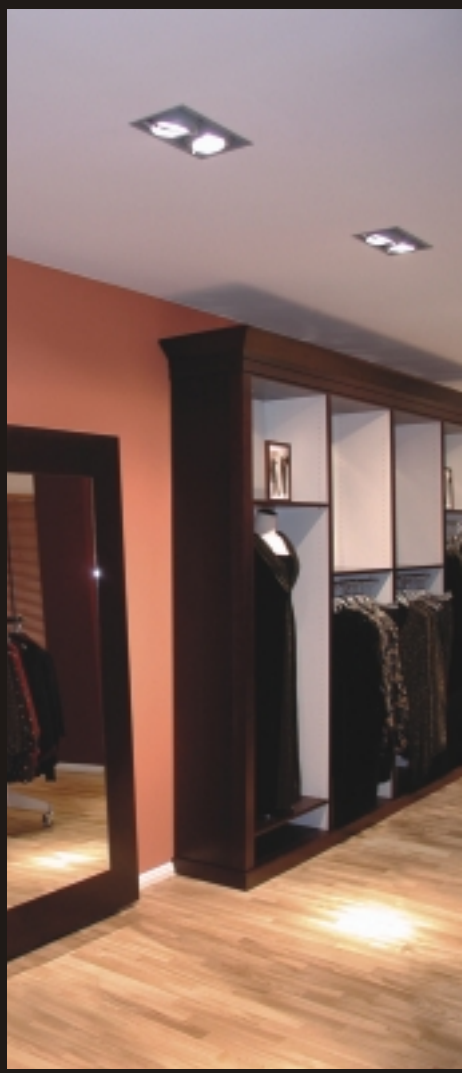
SEEGER
architectural lighting

2011

Recessed Kardan
Pendant BOXs
Pendant Kardan
BRITE
TRENAR

Kardan



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.

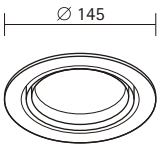
Cardanic Projection Spots
Scenic lighting is used in many architectural applications. Directional spotlights are not only used in retail lighting but also wherever areas are to be visually divided into different zones of illumination. For this purpose we offer a complete product line. This luminaire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

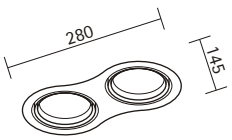
Cardanic Floor Luminaire
Multi-flame luminaire unit which can be flexibly used as a floor luminaire. Luminaires available complete with mains plug and integrated electronic control gear.

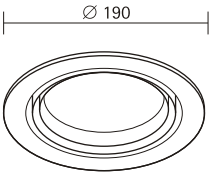
Recessed Cardanic Luminaire
Square recessed luminaire with light trap. Black inner body, the luminaire elements are available in silver C3 or any other RAL colour. Changing reflectors in removable anti-glare cone.

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 Kardan

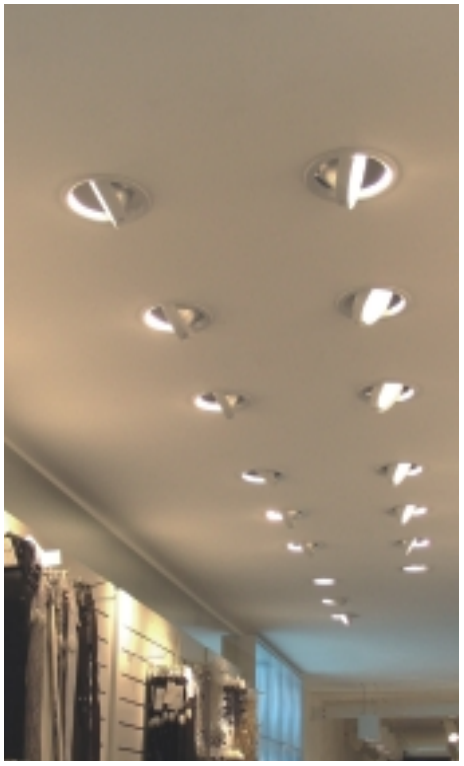






Recessed Cardan
Minimalistic housing with decorative, flat surround. The luminaire head is cradled on a cardan joint and can be tilted to all sides. The reflectors are optionally available in three different beam characteristics: flood, medium or narrow.

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.



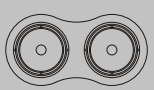
Choice of Reflectors
For these luminaires reflectors with 24° = medium beam angle are supplied as standard. However, a choice of beam angles is available (spot, medium or flood). Reflectors changeable. If medium is not required, please indicate when ordering.

▶ To specify the choice of reflector, please add:

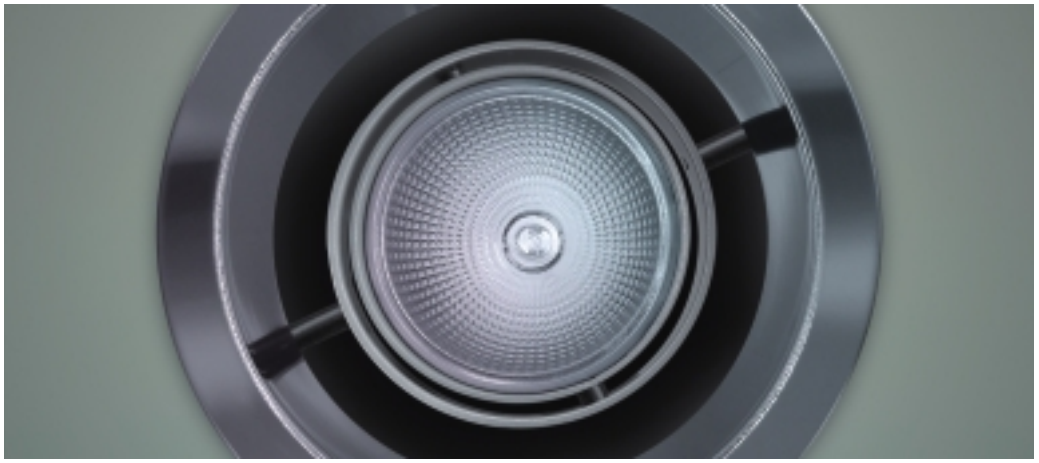
S = Spot
M = Medium
F = Flood

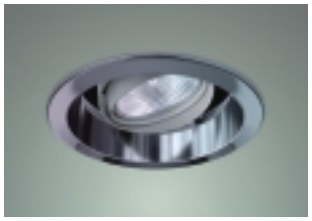
For luminaires with multiple lamp units, multiple specification of reflectors is possible.

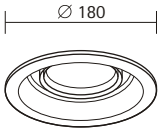
I | 230 VOLT | 1,0 m | CDM-T | 35-70W G12 | CDM-TC | 20-70W G8,5 | SDW-TG | 50-100W GX12-1

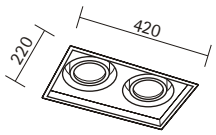
			Article No.	ECG	Lamp version		Version: Reflector, spot	Reflector, medium	Reflector, flood	Separate ECG
	Ring Size ∅ 145mm	BIH 145mm	4980.020	.02	1 x CDM-TC	20W	○	●	○	●
		CCO 125mm	4980.035	.02	1 x CDM-TC	35W	○	●	○	●
			4980.070	.02	1 x CDM-TC	70W	○	●	○	●
		BIH 145mm	4980.220	.02	2 x CDM-TC	20W	○	●	○	●
		2x CCO 125mm	4980.235	.02	2 x CDM-TC	35W	○	●	○	●
			4980.270	.02	2 x CDM-TC	70W	○	●	○	●
	Ring Size ∅ 190mm	BIH 170mm	4981.035	.02	1 x CDM-T	35W	○	●	○	●
		CCO 165mm	4981.070	.02	1 x CDM-T	70W	○	●	○	●
			4982.050	.02	1 x SDW-TG	50W	○	●	○	●
			4982.100	.02	1 x SDW-TG	100W	○	●	○	●

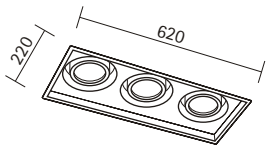
Recessed Kardan











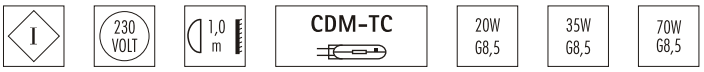
Recessed Cardan
Recessed cardan with cone tiltable to all sides. The cone and the tiltable luminaire insert form a subassembly and can be removed tool-free to enable installation and repair. The reflectors are optionally available in three different medium or narrow. Equipped for 20-70W CDM-TC lamps. 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.

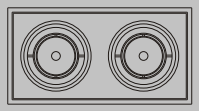
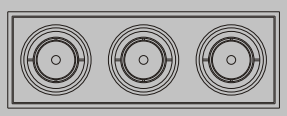
Choice of Reflectors
For these luminaires reflectors with 24° = medium beam angle are supplied as standard. However, a choice of beam angles is available (spot, medium or flood). Reflectors changeable. If medium is not required, please indicate when ordering.

▶ To specify the choice of reflector, please add:

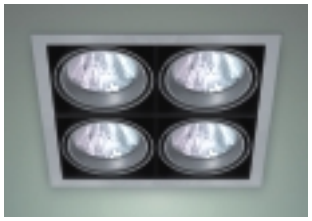
S = Spot
M = Medium
F = Flood

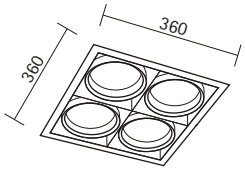
For luminaires with multiple lamp units, multiple specification of reflectors is possible.

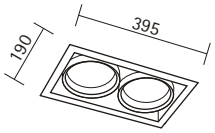


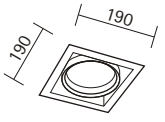
			Article No.	ECG	Lamp version		Version: Reflector, spot	Reflector, medium	Reflector, flood	Separate ECG
	Ring Size ∅ 180mm	BIH 155mm	4985.020	.02	1 x CDM-TC	20W	○	●	○	●
		CCO 162mm	4985.035	.02	1 x CDM-TC	35W	○	●	○	●
			4985.070	.02	1 x CDM-TC	70W	○	●	○	●
	CCO=400x200mm ED =420x220mm	BIH 185mm	4986.220	.02	2 x CDM-TC	20W	○	●	○	●
			4986.235	.02	2 x CDM-TC	35W	○	●	○	●
			4986.270	.02	2 x CDM-TC	70W	○	●	○	●
	CCO=600x220mm ED =620x220mm	BIH 185mm	4986.320	.02	3 x CDM-TC	20W	○	●	○	●
			4986.335	.02	3 x CDM-TC	35W	○	●	○	●
			4986.370	.02	3 x CDM-TC	70W	○	●	○	●

Recessed Kardan









Recessed Cardan 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.

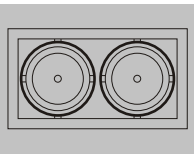
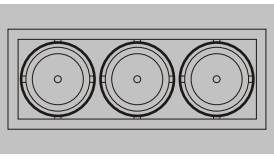
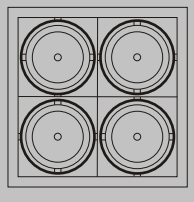
Choice of Reflectors
For these luminaires reflectors with 24° = medium beam angle are supplied as standard. However, a choice of beam angles is available (spot, medium or flood). Reflectors changeable. If medium is not required, please indicate when ordering.

▶ To specify the choice of reflector, please add:

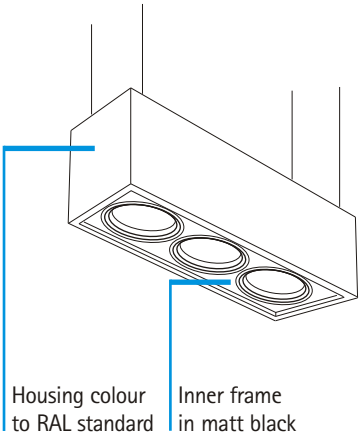
S = Spot
M = Medium
F = Flood

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

I | 230 VOLT | 1,0 m | CDM-T | 35-70W G12 | SDW-TG | 50-100W GX12-1

		Article No.	ECG	Lamp version		Version: Reflector, spot	Reflector, medium	Reflector, flood	Separate ECG
	CCO=165x165mm ED =190x190mm BIH 170mm	4991.035	.02	1 x CDM-T	35W	○	●	○	●
		4991.070	.02	1 x CDM-T	70W	○	●	○	●
		4992.050	.02	1 x SDW-TG	50W	○	●	○	●
		4992.100	.02	1 x SDW-TG	100W	○	●	○	●
	CCO=370x165mm ED =395x190mm BIH 170mm	4993.035	.02	2 x CDM-T	35W	○	●	○	●
		4993.070	.02	2 x CDM-T	70W	○	●	○	●
		4994.050	.02	2 x SDW-TG	50W	○	●	○	●
		4994.100	.02	2 x SDW-TG	100W	○	●	○	●
	CCO=550x165mm ED =575x190mm BIH 170mm	4995.035	.02	3 x CDM-T	35W	○	●	○	●
		4995.070	.02	3 x CDM-T	70W	○	●	○	●
		4996.050	.02	3 x SDW-TG	50W	○	●	○	●
		4996.100	.02	3 x SDW-TG	100W	○	●	○	●
	CCO=335x335mm ED =360x360mm BIH 170mm	4997.035	.02	4 x CDM-T	35W	○	●	○	●
		4997.070	.02	4 x CDM-T	70W	○	●	○	●
		4998.050	.02	4 x SDW-TG	50W	○	●	○	●
		4998.100	.02	4 x SDW-TG	100W	○	●	○	●

BOXs



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.

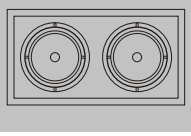
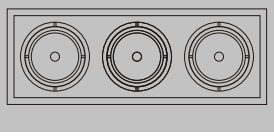
▸ To specify the choice of reflector, please add:

S = Spot
M = Medium
F = Flood

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

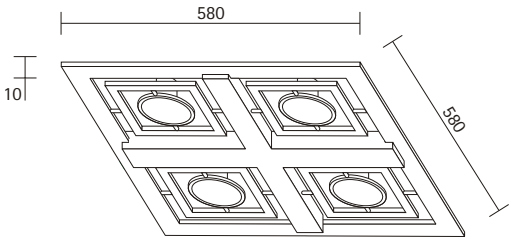
Pendant Cardan
Luminaire, Square
Equipped for 35-70W CDM-T with integrated electronic control gear units. 1- to 3-flame luminaires. Luminaire housing made of powder-coated sheet-steel, colour to RAL standard. Inner housing closed, powder-coated in matt black. Suspensions with rapid-connector system and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

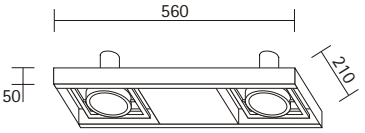
I | 230 VOLT | 1,0 m | CDM-T | 35-70W G12

		Article No.	ECG	Lamp version		Version: Reflector, spot	Reflector, medium	Reflector, flood			Matt white	Made to RAL
	L=205mm W=205mm H=220mm	9620.135	.02	1 x CDM-T	35W	○	●	○			●	○
		9620.170	.02	1 x CDM-T	70W	○	●	○			●	○
	L=205mm W=390mm H=220mm	9620.235	.02	2 x CDM-T	35W	○	●	○			●	○
		9620.270	.02	2 x CDM-T	70W	○	●	○			●	○
	L=205mm W=565mm H=220mm	9620.335	.02	3 x CDM-T	35W	○	●	○			●	○
		9620.370	.02	3 x CDM-T	70W	○	●	○			●	○

Pendant Kardan

Pendant Cardan
Luminaires, 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.



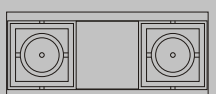
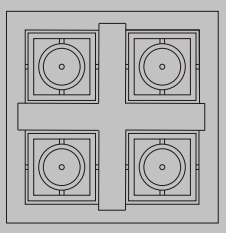


Pendant Cardan Luminaires, CDM-TC
Aluminium and steel luminaire body. Silver anodized aluminium reflectors. Choice of several beam angles is available. Complete with integrated electronic control gears, suspension with fast tensioning system and supply cable. Luminaire can be suspended either level or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

▶ 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=560mm W=210mm H=130mm	9608.235	.02	2 x CDM-TC	35W	○	●	○			●	○
		9608.270	.02	2 x CDM-TC	70W	○	●	○			●	○
	L=580mm W=580mm H=130mm	9610.435	.02	4 x CDM-TC	35W	○	●	○			●	○
		9610.470	.02	4 x CDM-TC	70W	○	●	○			●	○

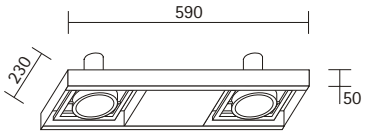
Pendant Kardan

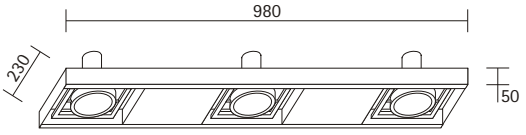
System Luminaire
In addition to the previously mentioned individual luminaires, this product group is also available as system luminaire. Luminaires can be produced as continuous elements. For this it is necessary to know:

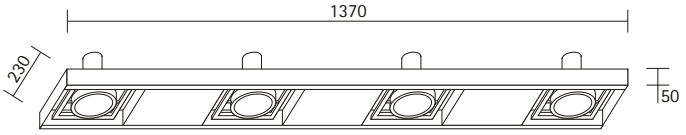
- overall system length
- required light source
- luminaire distance to each other

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.







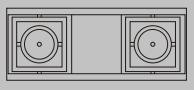
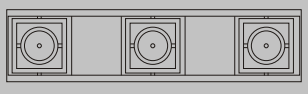
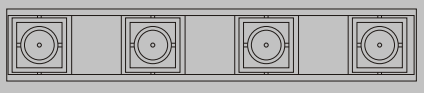
Choice of Reflectors
For these luminaires reflectors with 24° = medium beam angle are supplied as standard. However, a choice of beam angles is available (spot, medium or flood). Reflectors changeable. If medium is not required, please indicate when ordering.

▸ To specify the choice of reflector, please add:

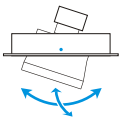
S = Spot
M = Medium
F = Flood

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

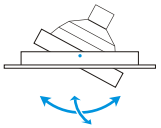
I | 230 VOLT | 1,0 m | CDM-T | 35-70W G12 | SDW-TG | 50-100W GX12-1

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

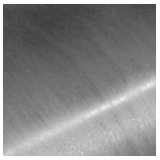
BRITE



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.

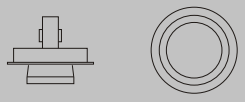
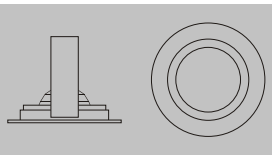
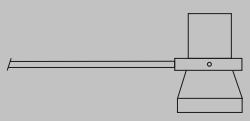


Scotched surface

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

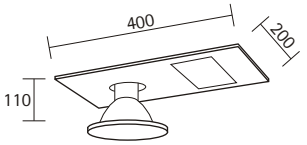
I | 230 VOLT | 1,0 m | HI-PAR 51 | 39W GX10 | CDM-TM | 20W PGJ5

III | 12 VOLT | 0,5 m | QR-CBC 51 | 20-50W GX5,3 | QT 12 | 50-90W GY6,35

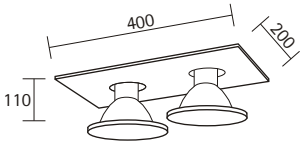
		Article No.	ECG	Lamp version		Version: Lamp, fixed	Lamp, tiltable		Separate transformer	Separate ECG			Made to RAL	Scotched aluminium
	BIH 120mm, CCO 100mm, OD 110mm	1080.050	.02	1 x QR-CBC 51	50W		●		●				○	●
		1080.035	.02	1 x HI-PAR 51	35W		●			●			○	●
	BIH 110mm, CCO 125mm, OD 145mm	1085.020	.02	1 x CDM-TM	20W		●			●			○	●
		1085.050	.02	1 x QT 12	50-90W		●		●				○	●
	L= 500mm	6200.050	.02	1 x QR-CBC 51	50W		●		●				○	●
		6200.035	.02	1 x HI-PAR 51	35W		●			●			○	●
	L= 800mm	6201.050	.02	1 x QR-CBC 51	50W		●		●				○	●
		6201.035	.02	1 x HI-PAR 51	35W		●			●			○	●

TRENAR

TRENAR
A highlight of shop illumination. CDM lamps of the Master Colour family from Philips are being used here. The lighting of sales areas is optimized through 3000°K colour temperature and very good colour rendering. Special scenic effects are achieved by using reflectors with various beam angles.



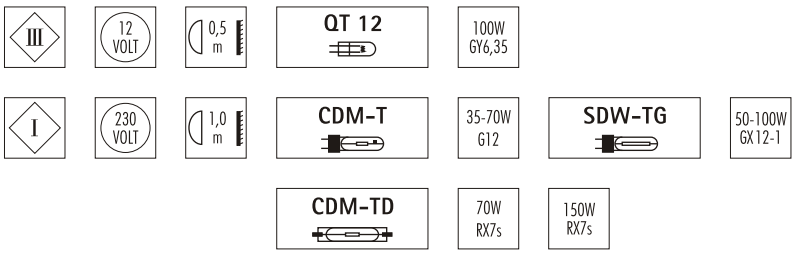
Overall projecting wallwasher; tiltable on one side together with a spotlight luminaire to illuminate surfaces and walls. Thus confined surfaces become visible and cave effects can be avoided.

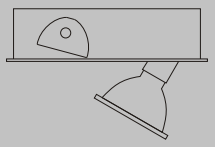
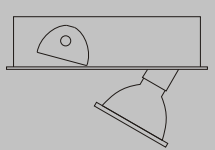


Fully tiltable Spotlight luminaires can be used for scenic space effects. The option of using reflectors with various beam angles, in particular, creates a high suspense when illuminating surfaces and rooms.

TRENAR

TRENAR
Adjustable wallwasher and an overall tiltable spotlight luminaire for CDM-T or Halogen lamps situated in a flat recessed housing. Stainless steel brushed corpus surface. Grain 240. Complete with separate electronic control gear. Beam angle of each spotlight luminaire can be freely selected.

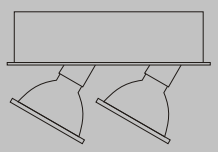
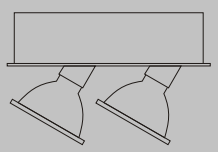


			Article No.	ECG	Lamp version		Configuration: Reflector Spot	Reflector Medium	Reflector Flood			Stainless Steel Brushed	Made to RAL	
	BIH 120mm	CCO=380x180mm ED =420x200mm H =110mm	5300.005	.02	1 x QT12	100 W	●	●				●	○	
					+1 x CDM-TD	70 W			●					
			5300.035	.02	1 x CDM-T	35 W	●	●	●			●	○	
					+1 x CDM-TD	70 W			●					
			5300.070	.02	1 x CDM-T	70 W	●	●	●			●	○	
					+1 x CDM-TD	70 W			●					
			5300.015	.02	1 x CDM-T	150 W	●	●	●			●	○	
					+1 x CDM-TD	70 W			●					
			5300.010	.02	1 x SDW-TG	100 W	●	●	●			●	○	
					+1 x CDM-TD	70 W			●					
	BIH 120mm	CCO=380x180mm ED =420x200mm H =110mm	5301.005	.02	1 x QT12	100 W	●	●				●	○	
					+1 x CDM-TD	150 W			●					
			5301.035	.02	1 x CDM-T	35 W	●	●	●			●	○	
					+1 x CDM-TD	150 W			●					
			5301.070	.02	1 x CDM-T	70 W	●	●	●			●	○	
					+1 x CDM-TD	150 W			●					
			5301.015	.02	1 x CDM-T	150 W	●	●	●			●	○	
					+1 x CDM-TD	150 W			●					
			5301.010	.02	1 x SDW-TG	100 W	●	●	●			●	○	
					+1 x CDM-TD	150 W			●					

TRENAR
Two overall tiltable spotlight luminaires for CDM-T or LV Halogen lamps situated in a flat recessed housing. Stainless steel brushed corpus surface. Grain 240. Complete with separate electronic control gear. Beam angle of each spotlight luminaire can be freely selected.

I | 230 VOLT | 1,0 m | CDM-T | 35-70W G12 | SDW-TG | 50-100W GX12-1

III | 12 VOLT | 0,5 m | QT 12 | 100W GY6,35

			Article No.	ECG	Lamp version		Reflector Spot	Reflector Medium	Reflector Flood			Stainless Steel Brushed	Made to RAL
	BIH 120mm	CCO=380x180mm ED =420x200mm H =110mm	5310.201	.02	2 x QT 12	100 W	●	●	●			●	○
			5310.235	.02	2 x CDM-T	35 W	●	●	●			●	○
			5310.270	.02	2 x CDM-T	70 W	●	●	●			●	○
			5310.215	.02	2 x CDM-T	150 W	●	●	●			●	○
			5310.210	.02	2 x SDW-TG	100 W	●	●	●			●	○
	BIH 120mm	CCO=380x180mm ED =420x200mm H =110mm	5311.035	.02	1 x QT 12	100 W	●	●					
					+1 x CDM-T	35 W	●	●	●			●	○
			5311.070	.02	1 x QT 12	100 W	●	●					
					+1 x CDM-T	70 W	●	●	●			●	○
			5311.015	.02	1 x QT 12	100 W	●	●					
					+1 x CDM-T	150 W	●	●	●			●	○
			5312.035	.02	1 x SDW-TG	100 W	●	●					
					+1 x CDM-T	35 W	●	●	●			●	○
			5312.070	.02	1 x SDW-TG	100 W	●	●					
					+1 x CDM-T	70 W	●	●	●			●	○
			5312.015	.02	1 x SDW-TG	100 W	●	●					
					+1 x CDM-T	150 W	●	●	●			●	○

Configuration

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