

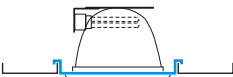


2011

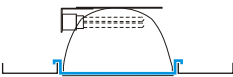
SOBRA  
SOBRA-DUO  
Duo-Focal

# Round Downlights

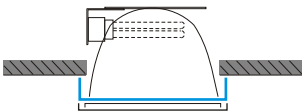
Modular plate for panel ceilings



Added-on modular plate



Cylinder for semi-recessed mounting



Before ordering please consult us for technical details.

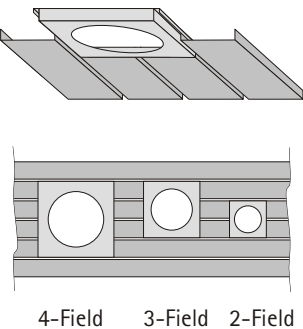
Semi-recessed mounting is only possible with a cover ring.  
Changing ring system ▶ P. 138

### Modular Panels

The integration of recessed luminaires into panel ceilings M100 is made possible with modular panels. (Other ceiling systems available on request.) The modular panels are mounted into the ceiling construction tool-free. The downlight is subsequently mounted into the ceiling section. When using the added-on modular panels the luminaire ring is replaced by this modular panel. The luminaire cover ring is therefore made redundant.

### Semi-Recessing Cylinder

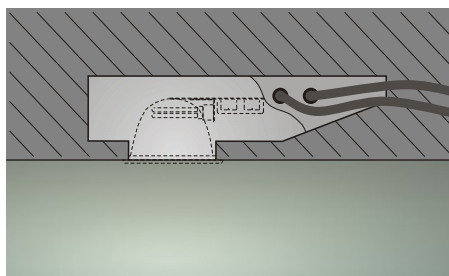
Reduction of recessing height due to semi-recessing cylinder up to 40mm possible. Project related supply of appropriate tilting adaptors for recessed luminaires in slant ceilings is possible.



				Ring size							
Article No. Version				Ø 125mm	Ø 140mm	Ø 165mm	Ø 190mm	Ø 220mm	Ø 255mm	Ø 315mm	
	Positioning tracks in pairs to strengthen ceiling panels	0805.165	CCO 145		●						
		0805.190	CCO 165			●					
		0805.220	CCO 195					●			
		0805.255	CCO 235						●		
		0805.315	CCO 300							●	
	Cut-in ring	0895.190	CCO 165			●					
		0895.220	CCO 195					●			
		0895.255	CCO 235						●		
		0895.315	CCO 300							●	
	Modular panel for ceiling system panel 85/15	0801.125	2-Field	CCO 105	●						
		0801.140	2-Field	CCO 120		●					
		0801.165	2-Field	CCO 145			●				
		0801.190	3-Field	CCO 165				●			
		0801.220	3-Field	CCO 195					●		
		0801.255	3-Field	CCO 235						●	
		0801.315	4-Field	CCO 300							●
	Cylinder for semi-recessed mounting	0800.190		CCO 165			●				
		0800.225		CCO 195				●			
		0800.255		CCO 235					●		

### Concrete Housing

The use of concrete housings allows recessed-mounted luminaires to be harmoniously integrated into the ceiling. Special adaptations also enable specific stress requirements to be met. This includes extended concrete runs up to a maximum of 35mm in order to guide the armouring underneath the fitting. Flat or round fittings (with highly reduced volume) are available, depending on the ceiling situation. If round concrete castings are being used, only specially adapted downlights, allowing the installation of the electronic component groups on top.



### Specification

Sturdy one-piece housing made of galvanized sheet-steel with a slanted concrete run. 2 to 4 entries for conduit. Attached throat can be extended as required. Maximum height 35mm. Fixing tabs for nail-fastening to the wooden formwork. When installing in bare concrete ceilings, fixing with internal centring discs must be provided. Please order separately.



### Concrete Housing, Flat

Article No. 0898.xxxx (whereby xxxx = luminaire Article no.)  
Can be used for standard downlights with a horizontal lamp position. Suitable for concrete ceilings and, where centring plates are used, suitable for fairfaced concrete ceilings.



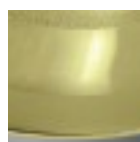
### Concrete Housing, High

Article No. 0899.xxxx (whereby xxxx = luminaire Article no.)  
Can be used for standard downlights with a vertical lamp position and downlights with top mounted control gear. Suitable for concrete ceilings and, where centring plates are used, also suitable for fairfaced concrete ceilings.



## SOBRA

Optimized light solutions for every lighting purpose. Fascinating scenic light with high or partially increased light intensity. Visualization through deliberate glare effects and bright surfaces. Or completely invisible, integrated into the architecture through glare-free reflectors and additional cones. Luminaires are equipped with standard ring. Alternatively can be used with the Changing ring system (when ordering add "CR"), allowing the majority of the optical lighting accessories to be fitted.



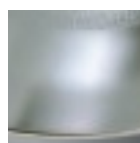
Gold



High specular



Satinized rim



Semi-specular



Faceted rim

## SOBRA

This product group covers downlights for general service lamps and high-pressure discharge lamps. Ceramic discharge tubes (CDM-T/-TD) are also used as high-pressure discharge lamps. They are operated with electronic control gear. The power supply units are included and are prewired with primary and secondary wiring.




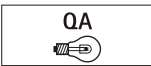



Lamp version	OD Ø (mm)	Built-in depth (mm)										
		120	135	140	145	170	180	190	200	215	220	230
1x CDM-TC 20W	125			●								
1x CDM-TC 35W				●								
1x QA 70W	165									●		
1x HME 50W										●		
1x HME 80W										●		
1x CDM-T 35W								●				
1x CDM-T 70W								●				
1x QA 105W	190											●
1x QT32 150W												●
1x HME 50W												●
1x HME 80W												●
1x HME 125W												●
1x CDM-T 35W		●	●				●		●			
1x CDM-T 70W		●	●				●		●			
1x CDM-T 150W			●				●		●			
1x CDM-TD 70W					●							
1x CDM-TD 150W					●							
1x SDW-T 50W							●					●
1x SDW-T 100W							●					●
1x CDM-T 35W	220										●	
1x CDM-T 70W											●	
1x CDM-T 150W											●	
1x CDM-TD 70W						●						
1x CDM-TD 150W						●						



## SOBRA

SOBRA recessed downlight equipped for general service lamps and high-pressure discharge lamps with E27 lampholder. Vertical burning position. Aluminium reflector, polished and piece silver anodized.

																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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► **Control gear order code**

- .00 without control gear
- .01 low loss gear
- .02 electronic control gear

► **To specify the choice of reflector, please add:**

- S = 17° Spot
- M = 25° Medium
- F = 50° Flood
- W = 60° Wide flood

### SOBRA

SOBRA recessed downlight equipped for SDW-T high-pressure discharge lamps. Vertical burning position. Protection pane possible. Luminaire with electronic control gear, non-regulable, in separate housing, connected via St18 Wieland plug-in system.

### Reflector Technology

2-part reflector system. Reflector made of 99.98% aluminium, polished and piece anodized. Cone removable tool-free. High polish silver surface. Other reflector surface finishes are also available.

► See chart



Article No. ECG Lamp version							Version							
							Reflector 17° Spot	Reflector 25° Medium	Reflector 50° Flood	Reflector 60° Wide flood	Reflector, high polish silver	Reflector, high polish gold	Reflector, matt silver	Reflector, matt gold
	Ring Size 190mm	BIH 230mm 	CCO 165mm 	4240.050	.01	1 x SDW-T 50W	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4240.100	.01	1 x SDW-T 100W	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
	Ring Size 190mm	BIH 180mm 	CCO 165mm 	4242.050	.01	1 x SDW-T 50W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
				4242.100	.01	1 x SDW-T 100W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>



## **SOBRA**

SOBRA recessed downlight equipped for CDM-T high-pressure discharge lamps. Horizontal burning position. Luminaire with electronic control gear, non-regulable, in separate housing.

### **Reflector Technology**

2-part reflector system. Reflector made of 99.98% aluminium, polished and piece anodized. Cone removable tool-free. High polish silver surface. Other reflector surface finishes are also available.

► See chart







## **SOBRA**

SOBRA recessed downlight equipped for CDM-T high-pressure discharge lamps. Vertical burning position. Security glass fixed in the cone. Luminaire with electronic control gear, non-regulable, in separate housing.

## **Reflector Technology**

2-part reflector system. Reflector made of 99.98% aluminium, polished and piece anodized. Cone removable tool-free. High polish silver surface. Other reflector surface finishes are also available.

► See chart








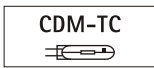










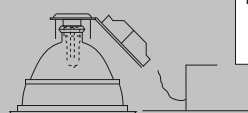



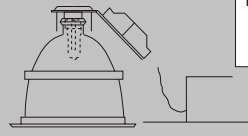



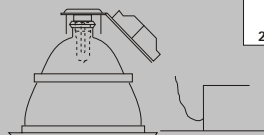





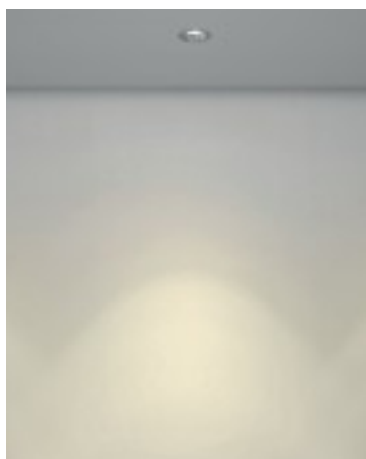
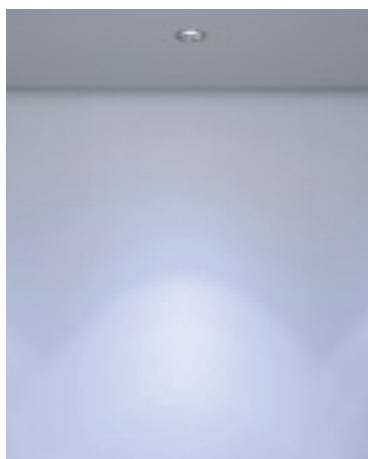
► **Control gear order code**

- .00 without control gear
- .01 low loss gear
- .02 electronic control gear

► **To specify the choice of reflector, please add:**

- S = 17° Spot
- M = 25° Medium
- F = 50° Flood
- W = 60° Wide flood

							Version							
							Reflector 13° Spot	Reflector 30° Medium	Reflector 50° Flood	Reflector 60° Wide flood	Cone, high polish silver	Cone, high polish gold	Cone, frosted	Cone, faceted
         														
Article No. ECG Lamp version														
				4232.020	.02	1 x CDM-TC 20W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4232.035	.02	1 x CDM-TC 35W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4235.035	.02	1 x CDM-T 35W	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4235.070	.02	1 x CDM-T 70W	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4234.035	.02	1 x CDM-T 35W	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4234.070	.02	1 x CDM-T 70W	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4234.150	.02	1 x CDM-T 150W	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4238.035	.02	1 x CDM-T 35W	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4238.070	.02	1 x CDM-T 70W	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4238.150	.02	1 x CDM-T 150W	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4245.035	.02	1 x CDM-T 35W	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4245.070	.02	1 x CDM-T 70W	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4245.150	.02	1 x CDM-T 150W	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



## **SOBRA Milieu Luminaire Day-night, Biodynamic**

Lighting fulfils different objectives depending on the specific purpose of use. In themed environments such as shopping centres, for instance, creating an atmosphere that is conducive to sales takes priority over purely economic aspects. To enable artificial lighting in indoor areas to have a natural effect, it should be adjusted to suit the circadian rhythm of the users. Altering the colour temperatures in line with the colour progression of natural light is, alongside brightness, the most significant factor when implementing biologically regulated light. This enables the tone to be set in order to practically support and characterise periods of both activity and rest.



### SOBRA-DUO

Recessed milieu luminaire with two separate lamps for separate switching. Equipped for CDM-T high-pressure discharge lamps in diagonal burning position. Luminaire with electronic control gear units, non-regulable, in separate housing.

### Reflector Technology

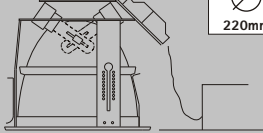




2-part reflector system. Reflector made of 99.98% aluminium, polished and piece anodized. Cone removable tool-free. High polish silver surface. Other reflector surface finishes are also available.

► See chart

### Lighting Technology

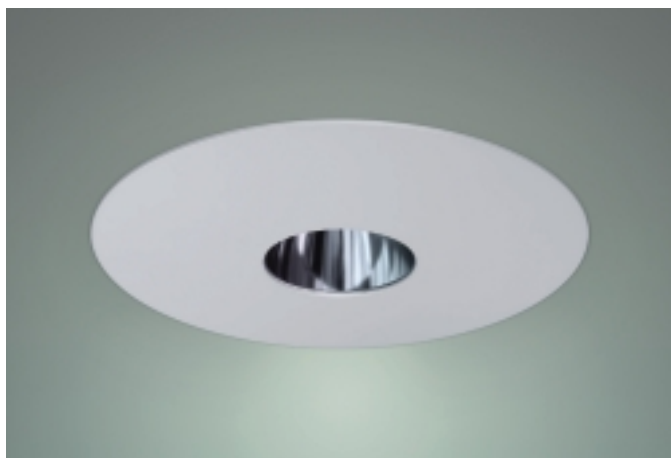
A constrained, clean colour mixing of the two light sources is achieved by the cross-arrangement of the lamps. This results in a two-sided light distribution which is slightly asymmetrical.



Article No. ECG Lamp version								R	R	R	R		C	C	C	C		
	<div>Ring Size</div> <div></div> <div>220mm</div>	<div></div> <div>BIH 210mm</div> <div></div>	<div></div> <div>CCO 195mm</div>	4212.035	.04	2 x CDM-T	35W			●			○	○	●			
				4212.070	.04	2 x CDM-T	70W			●			○	○	●			

# Duo-Focal Downlights

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## Ceiling Cover Ring

Luminaire cover with 2-part Changing ring system. Special flat cover ring is secured tool-free using a bayonet lock. It features a reduced reflector opening acting as a "round-aperture emitter". Cover ring is powder-coated in satin-matt white.

Designed for rooms where high demands are placed on the ambient lighting. With the dual-focus principle, the light is focussed in a reflector chamber and then passes through a very small light aperture where the light is focussed a second time in order to be emitted as a concentrated beam. The visible cone is well shielded, enabling high illuminance levels without glare.

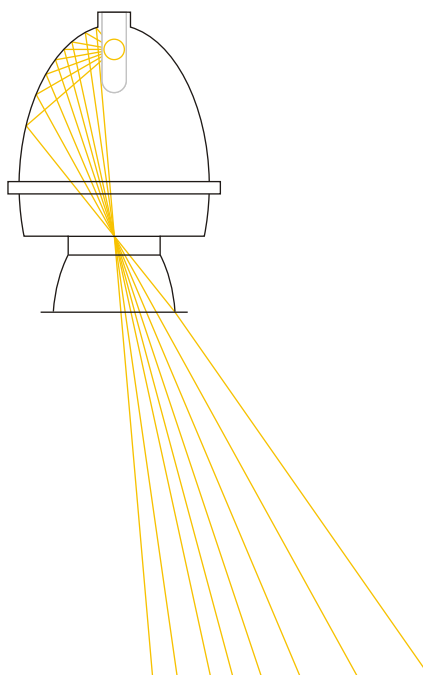
## Double-focus Recessed Luminaire

Recessed downlight for installation from below in closed ceilings. Equipped for CDM-T or CDM/TM high-pressure discharge lamps or QT12 low-voltage halogen lamps. Vertical burning position. Power supply unit located in separate housing, prewired with primary and secondary wiring. The control gear units are also included.
















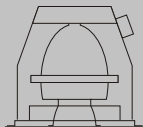




### Reflector Technology

A combination of a two-part ellipsoid reflector and an anti-dazzle cone. The beam is definitively focused immediately before it exits the luminaire. The reflector unit is made of polished and piece anodized 99.98% aluminium with smooth, high polish surface.



			<b>CDM-TM</b> 	20-35W PG15	<b>CDM-T</b> 	35-70W G12
			<b>QT 12</b> 	35-65W GY6,35		

							Version						
							Reflector, high polish silver	Reflector, high polish gold			White	Silver C3	Made to RAL
													
													
Article No. ECG Lamp version													
			4210.020	.-02	1 x CDM/TM	20W	●	○			●	○	○
			4210.035	.-02	1 x CDM/TM	35W	●	○			●	○	○
			4210.090	.-02	1 x QT 12	50-90W	●	○			●	○	○
			4211.035	.-02	1 x CDM/T	35W	●	○			●	○	○
			4211.070	.-02	1 x CDM/T	70W	●	○			●	○	○

## Imprint

### **SEEGER**

Technische Leuchten e. K.  
Schwerter Str. 324  
D-44287 Dortmund  
Germany

Tel: +49 231- 44 10 92  
Fax: +49 231- 44 10 76

[info@seeger-licht.de](mailto:info@seeger-licht.de)  
[www.seeger-licht.de](http://www.seeger-licht.de)

VAT ID no.: DE 124779953  
Tax no.: 315/5231/0060

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