

TALEX LED

# TALEXengine CLE



Spotlights



Downlights



Linear



Wide Area



Floor | Wall



Free Standing



Decorative



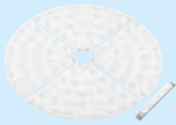




High Bay

## System solution for wall and ceiling luminaires

TALEXmodule CLE provides perfectly homogeneous illumination in round and square luminaires with no shadow effects. As an efficient, high-quality and user-friendly system solution, CLE is the ideal replacement for ring-shaped and TC DD fluorescent lamps. In combination with the EM powerLED emergency lighting system, TALEXmodule CLE performs the functions of an emergency luminaire. In addition, thanks to SWITCH Sensor HF a simple CORRIDOR FUNCTION (CF) is available for stepless dimming.

### Product Portfolio – Overview

	TALEXengine CLE		TALEXengine CLE integrated	TALEXengine CLE Quadrant Lens	TALEXengine CLE Quadrant	TALEXengine CLE Shallow
						
	on page 3		on page 6	on page 8	on page 9	on page 10
CLE Type	CLE 80–160mm	CLE 190–315mm	CLE AC 160mm–220mm	CLE Quadrant Lens	CLE Quadrant	CLE Shallow
Application	Diffuse Downlights	Decorative wall luminaires	Diffuse Downlights, Decorative wall luminaires	Pendant and surface-mounted ceiling luminaires	Pendant and surface-mounted ceiling luminaires	Extra flat pendant and surface-mounted ceiling luminaires
Mounting depth	>50mm	>50mm	>50mm	>50mm	>50mm	25–30mm
Variants	80, 120, 130mm	160, 190, 220, 315mm	160mm, 220mm	472, 752, 1,032mm	522, 802, 1,082mm	160, 370, 522, 802mm
Driver	Cost	Cost	Cost	Design/Trend	Design/Trend	Design/Trend

### Saving energy costs

Significant savings by switching from conventional downlights to TALEXengine CLE. Total annual savings are 920 EUR. Return on Investment (ROI) is considerably less than 2 years.



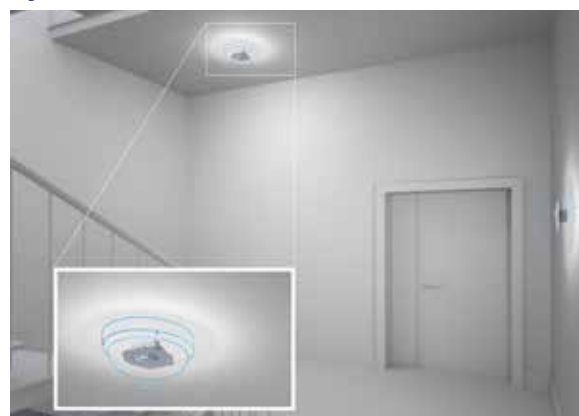
Equipment	DD lamp 28W	CLE 220 1,300lm
Number of luminaires	100	100
Connected load, single	289W	15W
Total connected load	2,900W	1,500W
Specific maintenance factor	0.71 <sup>1</sup>	0.78 <sup>2</sup>
Energy costs per year <sup>3</sup>	1,905,- EUR	985,- EUR

<sup>1</sup> 0.71: Luminaire cleaning every 3 years, lamp replacement every 3 years, room maintenance after 6 years

<sup>2</sup> 0.78: Luminaire cleaning every 2 years, lamp replacement not necessary (LED), room maintenance after 6 years

<sup>3</sup> Energy costs: 0.12 EUR / kilowatt hour, operating time 15 hours a day, 365 days a year

### System solution



## TALEXengine CLE

### For diffused LED downlights and wall luminaires

- \_\_ Marginal applications (e.g. stairwells, corridors)
- \_\_ Different sizes: 80 mm, 120 mm, 130 mm and 160 mm
- \_\_ Ideal for creating simple luminaire designs
- \_\_ Easy to adapt to the existing luminaire structure
- \_\_ The luminaire body can act as a heat sink
- \_\_ Replacement for compact fluorescent lamps

### For decorative wall luminaires

- \_\_ Design for decorative wall luminaires
- \_\_ Different sizes: 220 mm and 315 mm
- \_\_ Perfectly homogenous illumination with no shadow effects
- \_\_ Thanks to high energy efficiency TALEXengine CLE needs only 15W, whereas a DD lamp for example requires 28W.
- \_\_ As a replacement for T5 circular fluorescent lamps it needs only 34W compared with 55W or 60W



For diffused LED downlights and wall luminaires

**TALEXengine CLE ADVANCED**

Type	Colour temperature	Mac Adam	Typ. luminous flux <sup>1)</sup> Operation mode tp = 65°C	Typ. power draw <sup>1)</sup> Operation mode tp = 65°C	Module efficacy tp = 65°C	Size	Order No.
STARK CLE-80-1000-830-CLA	3,000K	SDCM 3	930lm	7.5 W	up to 124lm/W	Ø 80 mm	89602001
STARK CLE-80-1000-840-CLA	4,000K	SDCM 3	1,020lm	7.5 W	up to 136lm/W	Ø 80 mm	89602002
STARK CLE-80-2000-830-CLA	3,000K	SDCM 3	1,860lm	14.9 W	up to 125lm/W	Ø 80 mm	89602003
STARK CLE-80-2000-840-CLA	4,000K	SDCM 3	2,040lm	14.9 W	up to 137lm/W	Ø 80 mm	89602004
STARK CLE-120-2000-830-CLA	3,000K	SDCM 3	1,980lm	17.7 W	up to 112lm/W	Ø 120 mm	89600431
STARK CLE-120-2000-840-CLA	4,000K	SDCM 3	1,980lm	17.7 W	up to 112lm/W	Ø 120 mm	89600432
STARK CLE-130-2000-830-CLA	3,000K	SDCM 3	2,480lm	22.1 W	up to 112lm/W	Ø 130 mm	89601924
STARK CLE-130-2000-840-CLA	4,000K	SDCM 3	2,480lm	22.1 W	up to 112lm/W	Ø 130 mm	89601925
CLE-G2-160-3000-830-CLA	3,000K	SDCM 3	2,830lm	23.1 W	up to 123lm/W	Ø 160 mm	89602005
CLE-G2-160-3000-840-CLA	4,000K	SDCM 3	3,100lm	23.1 W	up to 134lm/W	Ø 160 mm	89602006

<sup>1)</sup>Tolerance range for optical and electrical data ±10%

**Matching TALEXdriver**

TALEXmodule	Order No.	TALEXdriver IN-BUILT dimming	TALEXdriver IN-BUILT non-dimming			
		LCAI 35W 350-900mA ECO C Order No. 28000124	LCI 35W 350-900mA TOP C Order No. 2800193	LCI 10W 350mA TEC C Order No. 87500239	LCI 20W 700mA TEC C Order No. 87500190	LCI 35W 700mA TEC C Order No. 87500196
STARK CLE-80-1000-830-CLA	89602001				■	
STARK CLE-80-1000-840-CLA	89602002				■	
STARK CLE-80-2000-830-CLA	89602003					■
STARK CLE-80-2000-840-CLA	89602004					■
STARK CLE-120-2000-830-CLA	89600431	■	■		■	
STARK CLE-120-2000-840-CLA	89600432	■	■		■	
STARK CLE-130-2000-830-CLA	89601924	■	■			■
STARK CLE-130-2000-840-CLA	89601925	■	■			■
CLE-G2-160-3000-830-CLA	89602005	■				
CLE-G2-160-3000-840-CLA	89602006	■				

For decorative wall luminaires

TALEXengine CLE ADVANCED G2

Type	Colour temperature	Mac Adam	Typ. luminous flux <sup>1)</sup> Operation mode tp = 65°C		Typ. power draw <sup>1)</sup> Operation mode tp = 65°C		System-/Module efficacy tp = 65°C	Size	Order No.
			High Efficiency	High Output	High Efficiency	High Output			
CLE G2 190mm 1500lm 830 ADV EM	3,000K	SDCM 3	1,300lm	1,790lm	9.2 W	13.8 W	up to 141lm/W	Ø 190 mm	89600437
CLE G2 190mm 1500lm 840 ADV EM	4,000K	SDCM 3	1,420lm	1,950lm	9.2 W	13.8 W	up to 154lm/W	Ø 190 mm	89600570
CLE G2 190mm 1500lm 830 ADV EM SO	3,000K	SDCM 3	1,300lm	1,790lm	9.2 W	13.8 W	up to 141lm/W	Ø 190 mm	89600571
CLE G2 190mm 1500lm 840 ADV EM SO	4,000K	SDCM 3	1,420lm	1,950lm	9.2 W	13.8 W	up to 154lm/W	Ø 190 mm	89600572
CLE G2 220mm 1500lm 830 ADV EM	3,000K	SDCM 3	1,355lm	1,860lm	9.2 W	13.9 W	up to 141lm/W	Ø 220 mm	89602097
CLE G2 220mm 1500lm 840 ADV EM	4,000K	SDCM 3	1,355lm	1,860lm	9.2 W	13.9 W	up to 154lm/W	Ø 220 mm	89602098
CLE G2 220mm 1500lm 830 ADV EM SO	3,000K	SDCM 3	1,355lm	1,860lm	9.2 W	13.9 W	up to 141lm/W	Ø 220 mm	89602099
CLE G2 220mm 1500lm 840 ADV EM SO	4,000K	SDCM 3	1,355lm	1,860lm	9.2 W	13.9 W	up to 154lm/W	Ø 220 mm	89602100
CLE G2 315mm 4000lm 830 ADV EM	3,000K	SDCM 3	2,710lm	3,905lm	18.4 W	29.4 W	up to 141lm/W	Ø 315 mm	89602101
CLE G2 315mm 4000lm 840 ADV EM	4,000K	SDCM 3	2,710lm	3,905lm	18.4 W	29.4 W	up to 134lm/W	Ø 315 mm	89602102
CLE G2 315mm 4000lm 830 ADV EM SO	3,000K	SDCM 3	2,710lm	3,905lm	18.4 W	29.4 W	up to 134lm/W	Ø 315 mm	89602103
CLE G2 315mm 4000lm 840 ADV EM SO	4,000K	SDCM 3	2,710lm	3,905lm	18.4 W	29.4 W	up to 134lm/W	Ø 315 mm	89602104

<sup>1)</sup>Tolerance range for optical and electrical data ±10%

Matching TALEXdriver

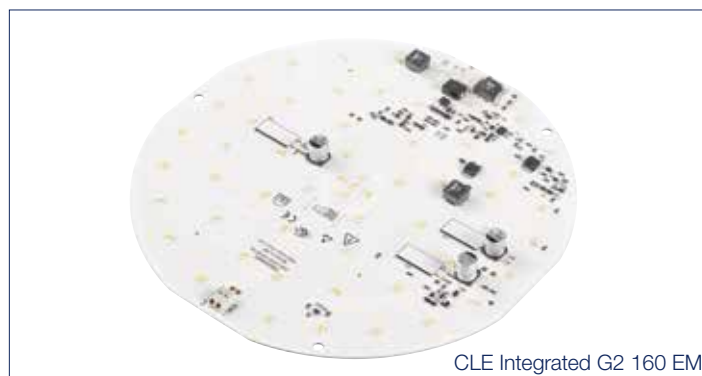
TALEX(module)	Order No.	TALEXdriver IN-BUILT dimming & phase-cut		TALEXdriver IN-BUILT non-dimming							
		LCBI 15W 500mA SR Order No. 89800267	LCBI 25W 700mA BASIC SR Order No. 89800307	LCI 10W 350mA TEC C Order No. 87500239	LCI 10W 350mA TEC SR Order No. 87500240	LCI 20W 350mA TEC C Order No. 87500188	LCI 20W 350mA TEC SR Order No. 87500189	LCI 35W 700mA TEC C Order No. 87500196	LCI 35W 700mA TEC SR Order No. 87500197	LCI 35W 1050mA TEC C Order No. 87500198	LCI 42W 1050mA TEC C Order No. 87500247
CLE G2 190mm 1500lm 830 ADV EM	89600437	■		■	■	■	■				
CLE G2 190mm 1500lm 840 ADV EM	89600570	■		■	■	■	■				
CLE G2 190mm 1500lm 830 ADV EM SO	89600571	■		■	■	■	■				
CLE G2 190mm 1500lm 840 ADV EM SO	89600572	■		■	■	■	■				
CLE G2 220mm 1500lm 830 ADV EM	89602097	■		■	■	■	■				
CLE G2 220mm 1500lm 840 ADV EM	89602098	■		■	■	■	■				
CLE G2 220mm 1500lm 830 ADV EM SO	89602099	■		■	■	■	■				
CLE G2 220mm 1500lm 840 ADV EM SO	89602100	■		■	■	■	■				
CLE G2 315mm 4000lm 830 ADV EM	89602101		■					■	■	■	■
CLE G2 315mm 4000lm 840 ADV EM	89602102		■					■	■	■	■
CLE G2 315mm 4000lm 830 ADV EM SO	89602103		■					■	■	■	■
CLE G2 315mm 4000lm 840 ADV EM SO	89602104		■					■	■	■	■

## Compact overall package

As simple and extremely cost-effective single-component solutions, the integrated TALEXengine CLE LED systems offer the benefit of flat design. A separate LED Driver is superfluous. The LED engine can be connected directly to 230V. With the latest generation of TALEXmodule CLE integrated G2, Tridonic presents the first dimmable single-component solution, further increasing system efficiency. The portfolio has been expanded with the addition of the large 220mm version. An additional heat sink is not required thanks to integrated self-cooling.

### Your benefits

- \_\_ Direct connection to the power circuit
- \_\_ The basis for particular low-profile luminaire design
- \_\_ Quick and simple installation by attaching the module to the gear tray
- \_\_ Protected against accidental contact: Accessory: cover for contact protection
- \_\_ Complete solution from a single source: Standard dimmable (CLE AC G2) or on/off, emergency lighting and simple CORRIDOR-FUNCTION
- \_\_ Self-Cooling (CLE AC G2)
- \_\_ Simple upgrade from existing luminaires with DD compact fluorescent lamps and circular T5 lamps to LEDs



### ▼ At a glance: TALEXengine CLE Integrated

- \_\_ Module with integrated electronics
- \_\_ Economic single component solution
- \_\_ Phase-Cut dimmable (CLE AC G2) or On/Off

### ▼ At a glance: TALEXengine CLE integrated EM

- \_\_ Separate input for simple CORRIDOR-FUNCTION (simple CF)
- \_\_ Switching between 100 % and 10 % light in combination with motion sensor
- \_\_ Emergency lighting circuit with special emergency lighting LED, controllable with EM powerLED

## TALEXengine CLE Integrated

TALEX(module)	Colour temperature	Mac Adam	Typ. luminous flux	CRI	Typ. power draw	System-efficiency	Order No.
CLE-AC-160-1500-830-CLA	3,000K	SDCM 3	1,450lm	> 80	14.5W	100lm/W	89800421
CLE-AC-160-1500-840-CLA	4,000K	SDCM 3	120lm	> 80	14.5W	100lm/W	89800422
CLE-AC-160-1500-830-CLA EM-CF	3,000K	SDCM 3	120lm	> 80	-	-	89800423
CLE-AC-160-1500-840-CLA EM-CF	4,000K	SDCM 3	1,450lm	> 80	-	-	89800424
CLE AC G2 220mm 2500lm 830 ADV*	3,000K	SDCM 3	2,500lm	> 80	20.8W	120lm/W	89800515
CLE AC G2 220mm 2500lm 840 ADV*	4,000K	SDCM 3	2,500lm	> 80	20.8W	120lm/W	89800516
CLE AC G2 220mm 2500lm 830 ADV EM-CF*	3,000K	SDCM 3	2,500lm	> 80	20.8W	120lm/W	89800517
CLE AC G2 220mm 2500lm 840 ADV EM-CF*	4,000K	SDCM 3	2,500lm	> 80	20.8W	120lm/W	89800518

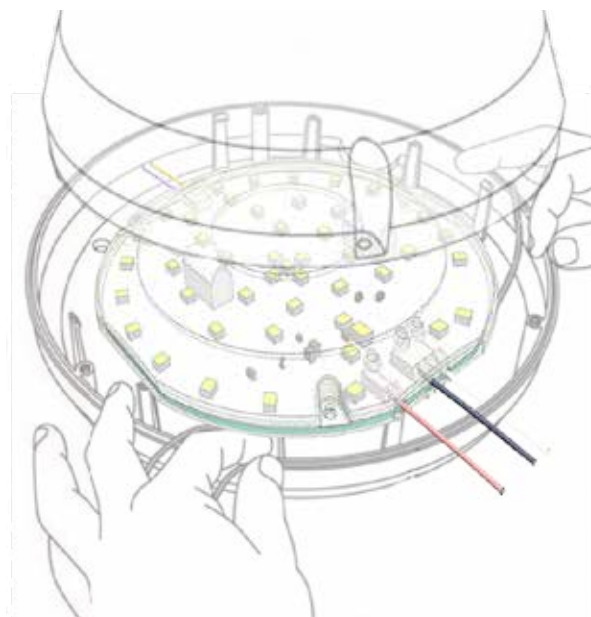
\*Coming soon. Preliminary data.

### Contact protection as appropriate accessory

- \_\_\_ Safety cover plate to the board that needs to protect the installer from any high voltage
- \_\_\_ Fixing of the board and touch cover to the gear tray with non-removal fasteners to lock/unlock wires
- \_\_\_ Access via three cut outs (wholes) to the terminals with safety cover on



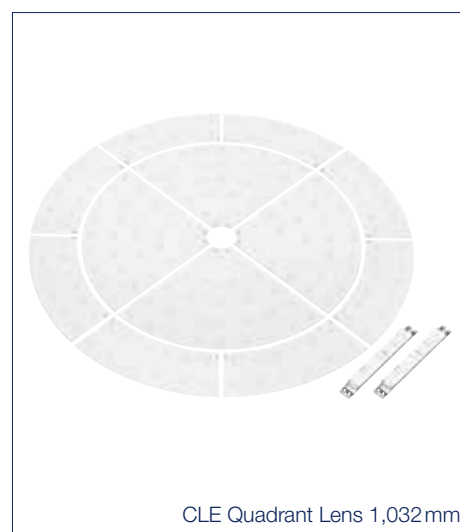
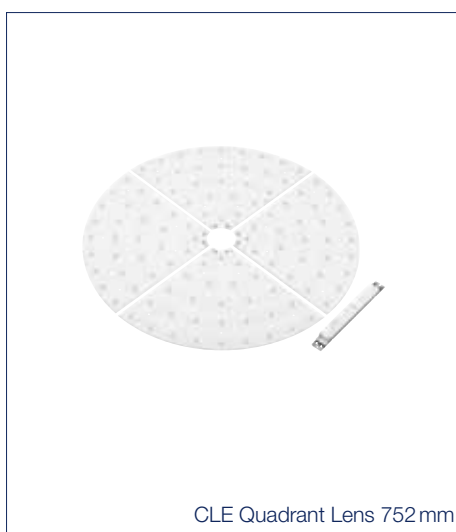
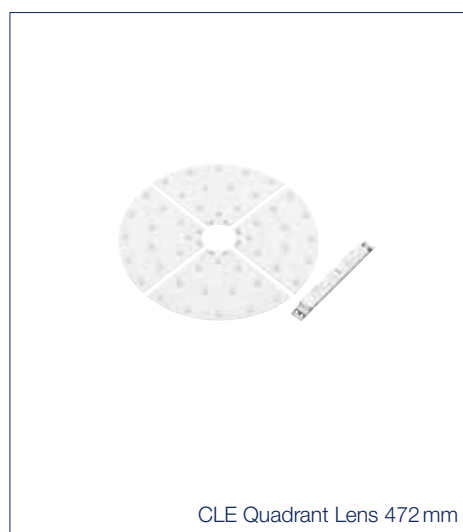
Product name	Order No.
ACC COVER 160mm TRANSP	28001033
ACC COVER 220mm TRANSP	28001048



## Extra large, extra uniform

TALEXmodule CLE Quadrant Lens is the secret behind large-format minimalist pendant and surface-mounted ceiling luminaires. Unique lenses disperse the light of each individual light point. This enables perfect illumination to be achieved with only a small number of light points in extremely low-profile luminaires with a mounting depth of up to 5 cm and in enormous luminaires with a diameter up to 1.2 m. A single attractively priced module comprising four segments which can be used in any combination is all that is needed. For extra large luminaires the module is expanded with CLE Quadrant Lens ring segments.

In combination with TALEXdriver PREMIUM, CLE Quadrant Lens is the perfect system solution for dimmable luminaires offering a pleasant background brightness level – for uniform illumination of prestige areas or rooms designed to impress.



Type	Colour temperature	Mac Adam	Typ. luminous flux <sup>1)</sup>	CRI	Typ. power draw <sup>1)</sup>	Module efficacy	Order No.
CLE Quadrant Lens G1 236mm 900lm 830 ADV	3,000K	SDCM 3	890lm	> 80	6.6 W	135lm/W	28001207
CLE Quadrant Lens G1 236mm 900lm 840 ADV	4,000K	SDCM 3	940lm	> 80	6.6 W	142lm/W	28001208
CLE Quadrant Lens G1 376mm 2100lm 830 ADV	3,000K	SDCM 3	2,060lm	> 80	15.4 W	134lm/W	28001209
CLE Quadrant Lens G1 376mm 2100lm 840 ADV	4,000K	SDCM 3	2,200lm	> 80	15.4 W	142lm/W	28001210
CLE Wing Lens G1 516mm 900lm 830 ADV	3,000K	SDCM 3	890lm	> 80	6.6 W	135lm/W	28001211
CLE Wing Lens G1 516mm 900lm 840 ADV	4,000K	SDCM 3	940lm	> 80	6.6 W	142lm/W	28001212

<sup>1)</sup>Tolerance range for optical and electrical data: ±10 %.Data applies for four quadrants

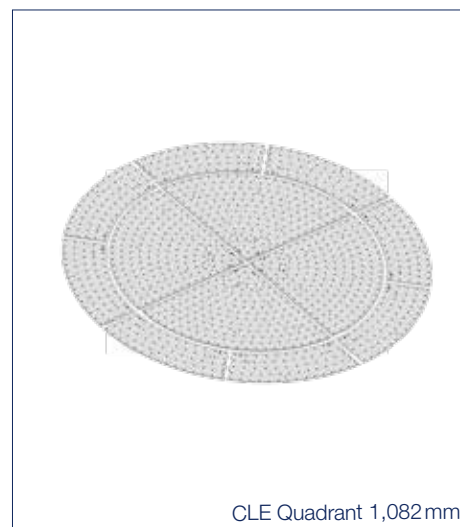
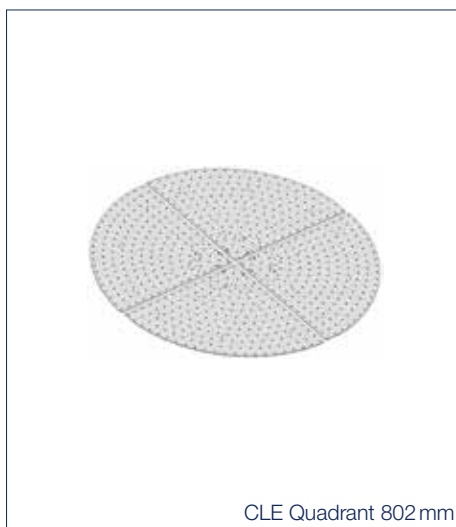
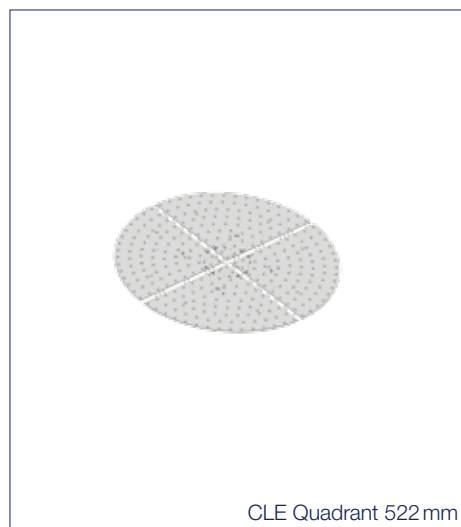
### ▼ At a glance: TALEXengine CLE Quadrant Lens

- \_\_\_ Ideal for round shaped ceiling and pendant luminaires
- \_\_\_ Realization of big luminaire diameters
- \_\_\_ Designs consisting of four quadrants for 600 and 900 mm diameter and additional eight ring segments for 1,200 mm diameter
- \_\_\_ Colour Tolerance SDCM 3
- \_\_\_ Serial wiring for homogeneous light output
- \_\_\_ Lifetime 50,000 h
- \_\_\_ 5-year guarantee



## Efficiency and performance combined

TALEXmodule CLE Quadrant stands for maximum flexibility in lighting technology. Extremely efficient and at the same time high luminous fluxes can be generated in a single module. Different versions are available in three sizes. The large number of LED chips and their close spacing ensures perfectly uniform illumination, even without lenses. For extra large luminaires the attractively priced TALEXmodule CLE Quadrant is easily expanded with ring segments.



Type	Colour temperature	Mac Adam	Typ. luminous flux <sup>1)</sup> tp = 45°C		CRI	Typ. power draw <sup>1)</sup> tp = 45°C	Module efficacy tp = 45°C	Order No.
			HE	HO				
CLE Quadrant G2 590mm 1200lm 830 ADV	3,000K	SDCM 3	1,200lm	1,840lm	> 80	6.7 W	178lm/W	89602335
CLE Quadrant G2 590mm 1200lm 840 ADV	4,000K	SDCM 3	1,260lm	1,930lm	> 80	6.7 W	187lm/W	89602337
CLE Quadrant G2 870mm 2500lm 830 ADV	3,000K	SDCM 3	2,420lm	3,820lm	> 80	13.2W	183lm/W	89602338
CLE Quadrant G2 870mm 2500lm 840 ADV	4,000K	SDCM 3	2,530lm	4,000lm	> 80	13.2W	191lm/W	89602340
CLE Quadrant G2 Wing 1000lm 830 ADV	3,000K	SDCM 3	970lm	1,430lm	> 80	5.4 W	178lm/W	89602341
CLE Quadrant G2 Wing 1000lm 840 ADV	4,000K	SDCM 3	1,020lm	1,500lm	> 80	5.4 W	188lm/W	89602343

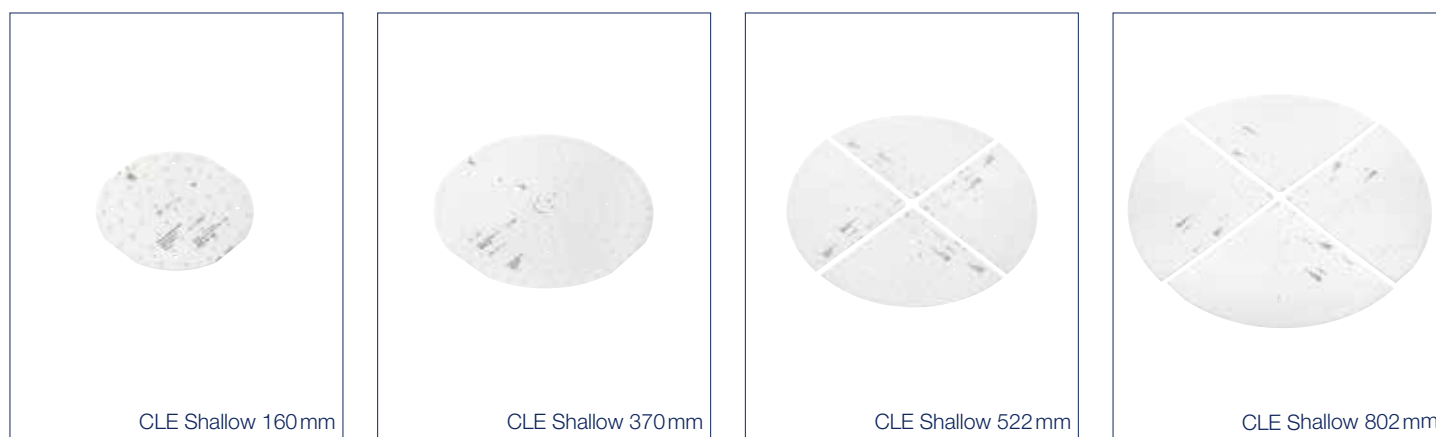
<sup>1)</sup>Tolerance range for optical and electrical data: ±10 %. Data applies for four quadrants. HE=High Efficiency, HO=High Output

### ▼ At a glance: TALEXengine CLE Quadrant

- \_\_\_ Ideal for round shaped ceiling and pendant luminaires
- \_\_\_ Realization of extra big luminaire diameters
- \_\_\_ High module efficacy up to 185lm/W
- \_\_\_ Operation mode High Efficiency and High Output
- \_\_\_ Colour Tolerance SDCM 3
- \_\_\_ Lifetime 50,000h and 5-year guarantee

## More design variety thanks to small mounting depths

State-of-the-art technology for design-oriented luminaires: TALEXmodule CLE Shallow features wide-beam LED chips on the module and a small distance from the diffuser. With a mounting depth of only 30 mm the CLE Shallow will enhance any slim luminaire design and become established as the ideal module for round extra low-profile pendant and ceiling mounted luminaires. TALEXmodule CLE Shallow also offer a constant lumen output per square metre, which enables ceiling luminaires of different diameters to be combined without any problem.



Type	Colour temperature	Mac Adam	Typ. luminous flux <sup>1)</sup>			CRI	Typ. power draw <sup>1)</sup>	Module efficacy tp = 45°C	Order No.
			HE	NM	HO				
CLE Shallow G1 160mm 750lm 830 ADV	3,000K	SDCM 3	710lm	1,600lm	2,200lm	> 80	4.1 W	174lm/W	89602485
CLE Shallow G1 160mm 750lm 840 ADV	4,000K	SDCM 3	730lm	1,650lm	2,300lm	> 80	4.1 W	180lm/W	89602486
CLE Shallow G1 370mm 2900lm 830 ADV	3,000K	SDCM 3	2,820lm	3,920lm	5,770lm	> 80	16.3 W	173lm/W	89602487
CLE Shallow G1 370mm 2900lm 840 ADV	4,000K	SDCM 3	2,910lm	4,060lm	5,980lm	> 80	16.3 W	179lm/W	89602488
CLE Shallow G1 522mm 1750lm 830 ADV	3,000K	SDCM 3	1,670lm	2,760lm	3,780lm	> 80	9.8 W	171 lm/W	89602489 <sup>2)</sup>
CLE Shallow G1 522mm 1750lm 840 ADV	4,000K	SDCM 3	1,740lm	2,860lm	3,910lm	> 80	9.8 W	177 lm/W	89602490 <sup>2)</sup>
CLE Shallow G1 802mm 3800lm 830 ADV	3,000K	SDCM 3	3,650lm	5,020lm	5,840lm	> 80	21.2 W	172lm/W	89602491 <sup>2)</sup>
CLE Shallow G1 802mm 3800lm 840 ADV	4,000K	SDCM 3	3,780lm	5,200lm	6,040lm	> 80	21.2 W	178lm/W	89602492 <sup>2)</sup>

<sup>1)</sup>Tolerance range for optical and electrical data: ±10 %. <sup>2)</sup> Data applies for one quadrant. HE=High Efficiency, NM=Nominal, HO=High Output,

### ▼ At a glance: TALEXengine CLE Shallow

- \_\_\_ Ideal for round and extra low-profile ceiling and pendant luminaires thanks to its small mounting depth of 30mm
- \_\_\_ Small distance from the diffuser of only 25–30mm
- \_\_\_ Constant lumen output per square metre
- \_\_\_ Small light point spacing ensures wide-angle illumination and constant homogeneity
- \_\_\_ Colour Tolerance SDCM 3
- \_\_\_ Lifetime 50,000h and 5-year guarantee

## Support and advice from a single source

We will help you to create lighting solutions that are unbeatable in terms of economy and functionality, according to the slogan: We devote all our energy to your light.



TALEXengine DLE



TALEXengine CLE



TALEXengine CLE Integrated



TALEXengine LLE-FLEX



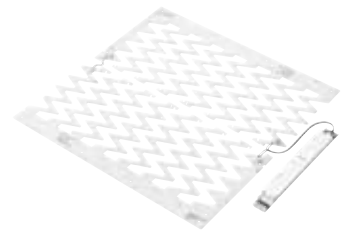
TALEXengine SLE



TALEXengine FLE



TALEXengine LLE



TALEXengine QLE

As an international company, Tridonic is represented worldwide by 30 branch offices and partners in 73 countries.



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Light you want to follow.

