

FEATURES

- High CRI LED optimized towards TM30
- ENEC approved drivers



COLOURS

Available colours:



Matt white RAL 9016 (XX=MW)
Matt black RAL 9005 (XX=BL)

Cylinder CL 235 LV(-HE)

Surface mounted

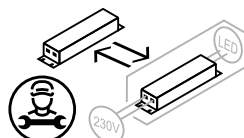
SPECIFICATIONS

Beam angle (FWHM)	80°
Fixture material	Housing: Die cast aluminium / Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C ¹
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years * (within the European Union and the countries of the Free Trade Association for products delivered after 1 May 2015)
Energy class	These products contains a light source of energy efficiency class: CRI97 - F (3000K) & CRI82 - E (3000K) / D (4000K)

This luminaire contains built-in LED lamps. There are no exchangeable parts inside the luminaire. EU 874/2012

¹ In applications with a flat roof (fi. car showrooms) the temperatures may exceed 45°C. Please ask our sales office for a special driver.

Ask our sales department about the possibilities for:
- High CRI LED options



IP20

CYLINDER CL 235 LV(-HE) VARIATIONS

CYLINDER CL 235 LV-HE	CRI82	3000/4000K	2525/2600Lm	incl. power supply	page 3
CYLINDER CL 235 LV	CRI97	3000K	1450Lm	incl. power supply	page 4

CRI82 CHOOSE YOUR LV LUMEN OUTPUT

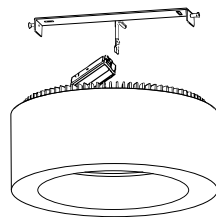
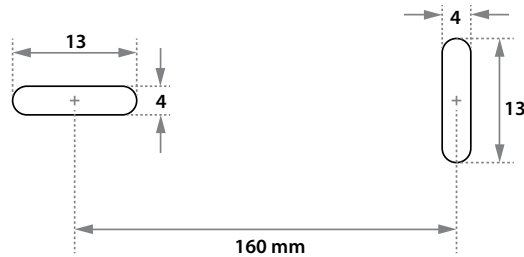
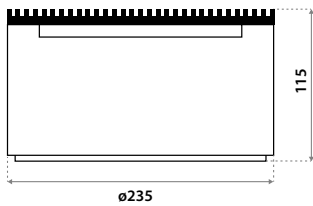
	mA	W	Lumen Output		Lumen / Watt		UGR		Driver types				
			3000K	4000K	3000K	4000K	3000K	4000K	No dim	Triac	1-10V&Push	Dali	Casambi
<i>Special request</i>	250	9.2	1350	1400	147	152			CC21W150-500	x	126421	127576	x
<i>Special request</i>	350	13.1	1850	1900	141	145			CC21W150-500	x	127021	127576	127630
Standard	500	19.4	2525	2600	130	134	24.2	24.3	CC21W150-500	127032	123400	127576	127630

CRI97 CHOOSE YOUR LV LUMEN OUTPUT

	mA	W	Lumen Output		Lumen / Watt		UGR		Driver types				
			3000K	3000K	3000K	3000K	3000K	No dim	Triac	1-10V&Push	Dali	Casambi	
<i>Special request</i>	250	9.4	800		85				CC21W150-500	x	126421	127576	x
<i>Special request</i>	350	13.2	1100		83				CC21W150-500	x	127021	127576	127630
Standard	500	17.9	1450		81		22.3		CC21W150-500	127032	123400	127576	127630

DIMENSIONS

FIXATION DIMENSIONS



CYLINDER CL 235 LV-HE

CRI82 2525/2600LM

ITEM SPECIFICATIONS (PART A)

Description	80°		Type	mA	Vf
	Item code	UGR			
Cylinder CL 235 LV-HE 2525Lm 3000K CRI82 No dim	79NI03XXY002	24.2	Incl. PSU	500	37,5
Cylinder CL 235 LV-HE 2525Lm 3000K CRI82 1-10V & Push	79NI03XXY102	24.2	Incl. PSU	500	37,5
Cylinder CL 235 LV-HE 2525Lm 3000K CRI82 Dali	79NI03XXY202	24.2	Incl. PSU	500	37,5
Cylinder CL 235 LV-HE 2600Lm 4000K CRI82 No dim	79NI03XXY302	24.3	Incl. PSU	500	37,5
Cylinder CL 235 LV-HE 2600Lm 4000K CRI82 1-10V & Push	79NI03XXY402	24.3	Incl. PSU	500	37,5
Cylinder CL 235 LV-HE 2600Lm 4000K CRI82 Dali	79NI03XXY502	24.3	Incl. PSU	500	37,5

ITEM SPECIFICATIONS (PART B)

Description	W	Lm	Lm/W	CRI (typ.)	Pf	Ripple	Inrush current	B-16A Fuse	Safety class	Energy class
Cylinder CL 235 LV-HE 2525Lm 3000K CRI82 No dim	19,4	2525	130	82	0.95	<3%	5A 50µS	50 pcs	II	E
Cylinder CL 235 LV-HE 2525Lm 3000K CRI82 1-10V & Push	19,4	2525	130	82	0.95	<3%	5A 50µS	50 pcs	II	E
Cylinder CL 235 LV-HE 2525Lm 3000K CRI82 Dali	19,4	2525	130	82	0.95	<3%	5A 50µS	50 pcs	II	E
Cylinder CL 235 LV-HE 2600Lm 4000K CRI82 No dim	19,4	2600	134	82	0.95	<3%	5A 50µS	50 pcs	II	D
Cylinder CL 235 LV-HE 2600Lm 4000K CRI82 1-10V & Push	19,4	2600	134	82	0.95	<3%	5A 50µS	50 pcs	II	D
Cylinder CL 235 LV-HE 2600Lm 4000K CRI82 Dali	19,4	2600	134	82	0.95	<3%	5A 50µS	50 pcs	II	D

ITEM SPECIFICATIONS (PART C)

Description	Weight	Dimensions single carton	Quantity per carton	Expected lifespan B10 reported (25°C)		
				L70B10	L80B10	L90B10
Cylinder CL 235 LV-HE CRI82	2367 gr	235x235x120 mm	15 pcs	>60.500 hrs	>60.500 hrs	>60.500 hrs

All values are measured at 230V (+/- 7%)

CYLINDER CL 235 LV

CRI97 1450LM

ITEM SPECIFICATIONS (PART A)

Description	80°		Type	mA	Vf
	Item code	UGR			
Cylinder CL 235 LV 1450Lm 3000K CRI97 No dim	791C03XXY602	22.3	Incl. PSU	500	37,5
Cylinder CL 235 LV 1450Lm 3000K CRI97 1-10V & Push	791C03XXY702	22.3	Incl. PSU	500	37,5
Cylinder CL 235 LV 1450Lm 3000K CRI97 Dali	791C03XXY802	22.3	Incl. PSU	500	37,5

ITEM SPECIFICATIONS (PART B)

Description	W	Lm	Lm/W	CRI (typ.)	Pf	Ripple	Inrush current	B-16A Fuse	Safety class	Energy class
Cylinder CL 235 LV 1450Lm 3000K CRI97 No dim	17,9	1450	81	97	0.95	<3%	5A 50µS	50 pcs	II	F
Cylinder CL 235 LV 1450Lm 3000K CRI97 1-10V & Push	17,9	1450	81	97	0.95	<3%	5A 50µS	50 pcs	II	F
Cylinder CL 235 LV 1450Lm 3000K CRI97 Dali	17,9	1450	81	97	0.95	<3%	5A 50µS	50 pcs	II	F

ITEM SPECIFICATIONS (PART C)

Description	Weight	Dimensions single carton	Quantity per carton	Expected lifespan B10 reported (25°C)		
				L70B10	L80B10	L90B10
Cylinder CL 235 LV CRI97	2367 gr	235x235x120 mm	15 pcs	>60.500 hrs	>60.500 hrs	>60.500 hrs

All values are measured at 230V (+/- 7%)

NEW STANDARDS REQUIRE NEW LEDS

TM-30 (new color norm): The Illuminating Engineering Society (IES) has published a new Technical Memorandum – TM-30-15 entitled “IES Method for Evaluating Light Source Color Rendition” – that promises to supplant CRI as a color metric. TM-30 relies on separate fidelity and gamut metrics, as well as a set of color samples that is more representative of real-world objects, as opposed to the pastel samples that were primarily used for the baseline CRI metric that was sometimes called Ra. The new color metric is intended to fairly and accurately characterize both LED-based solid-state lighting (SSL) and legacy sources.



Desaturated

CRI = 82 / R_g = 94



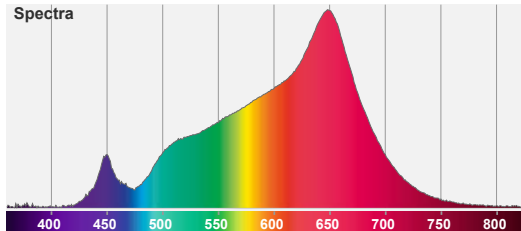
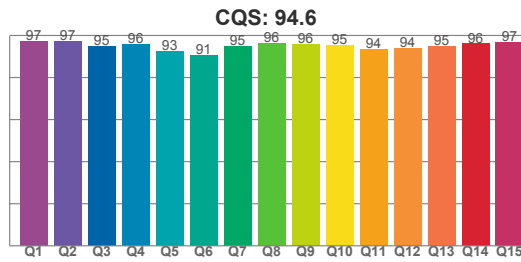
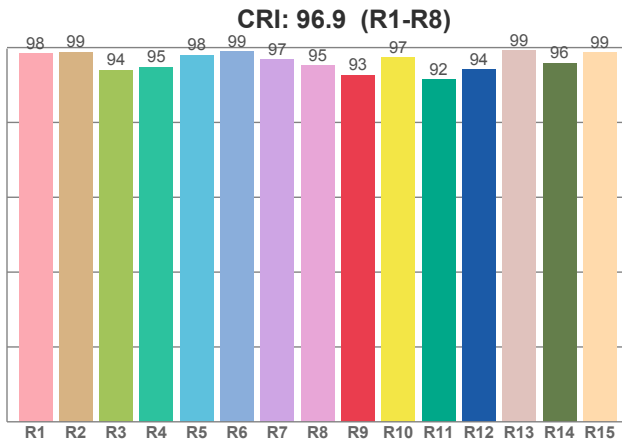
Red-Enhanced

CRI = 97 / R_g = 103

HIGH CRI LED OPTIONS

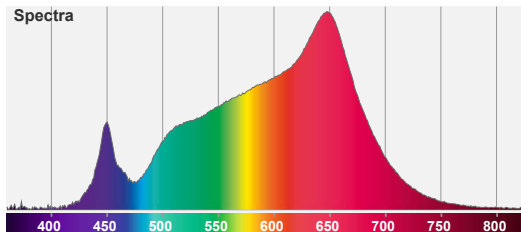
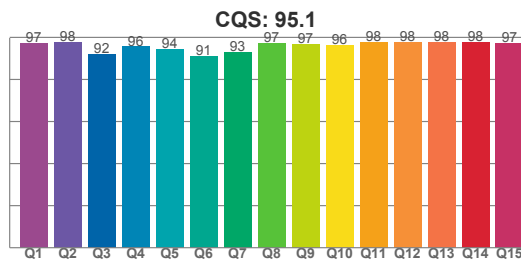
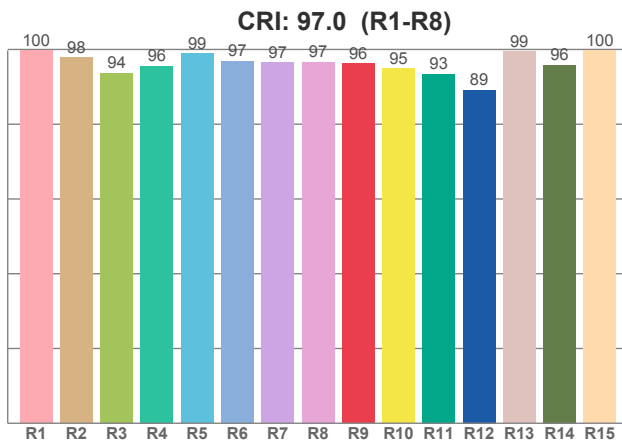
	CCT	CRI	R9	RF	RG	DOWNLIGHTS SMALL			DOWNLIGHTS LARGE		DOWNLIGHTS LARGE		BRAND	ITEM CODE
						MA	LM	LM/W	MA	LM	MA	LM		
CRI82	2700K	82	5	83	94	350	1650	128	700	3400	1200	5300	Bridgelux ksf	51-4087-27
CRI82	3000K	82	7	86	95	350	1725	134	700	3575	1200	5550	Bridgelux ksf	51-4087-30
CRI82	4000K	82	18	84	96	350	1750	136	700	3650	1200	5800	Bridgelux ksf	51-4087-40
CRI90	2700K	92	67	88	104	350	1550	118	700	3150	1200	4700	Bridgelux ksf	51-4088-27
CRI90	3000K	92	67	92	99	350	1600	122	700	3250	1200	4850	Bridgelux ksf	51-4088-30
CRI90	4000K	92	78	92	100	350	1625	124	700	3300	1200	4925	Bridgelux ksf	51-4088-40
CRI97	2700K	97	93	96	103	350	1150	83	800	2300	1400	3425	Lumileds	50-3031-27
CRI97	3000K	97	96	95	103	350	1250	91	800	2500	1400	3750	Lumileds	50-3031-30
CRI97	4000K	97	96	95	103	350	1350	98	800	2700	1400	4050	Lumileds	50-3031-40

2700K



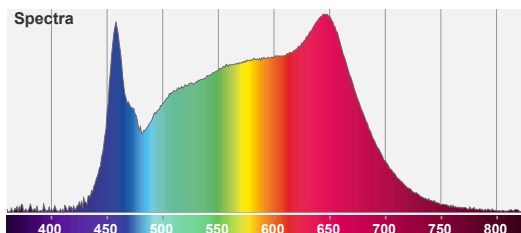
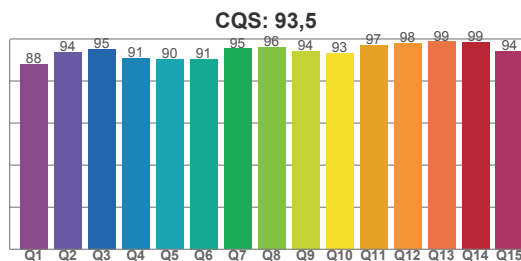
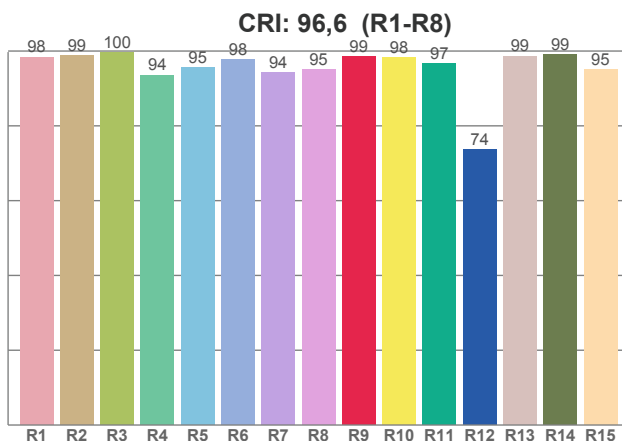
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS
2700K	96.9	92.7	96.0	102.6	94.6

3000K



CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS
3000 K	97.0	96.2	95.0	103.3	95.1

4000K



CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS
4000K	96.6	98.5	88.3	96.2	93.5