

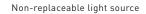
III PRODUCT DESCRIPTION

- High efficient architectural lighting
- Available in a variety of light colours
- Easy plug & play solution due to the Cinch Connection System
- High performance due to perfect thermal management
- Excellent illumination due to use of innovative linear optics
- Safe-use operation due to safety extra-low voltage (SELV)
- Easy mounting by use of FIXING PLATES
- Heat sink made of anodised, extruded aluminium
- Sustainable protection against humidity and corrosion by sealing of LED modules
- End caps made of PBT
- Lens made of PMMA, or PC
- Dimmable

III TECHNICAL DATA

Supply voltage	24 VDC
Ambient temperature ta	-30 +55 °C
Max. surface temperature on profile tc	60 °C
Type of protection	IP54 (only with "PROTECTION KIT")
Protection class	
Risk group (EN 62471:2008)	1









III TECHNICAL DATA | ORDER DATA

rt. No.	Type*	Version*	Length	No. of LED modules	Supply	CRI
9146xxxx	LED LE205 xx 1L14-UHD 24V/xxmA Lens 8DY	Lens	205mm	1	24V DC	≥90
9146xxxx	LED LE205 xx 1L14-UHD 24V/xxmA Cover 8DY	Cover	205mm	1	24V DC	≥90
9146xxxx	LED LE345 xx 2L14-UHD 24V/xxmA Lens 8DY	Lens	345mm	2	24V DC	≥90
9146xxxx	LED LE345 xx 2L14-UHD 24V/xxmA Cover 8DY	Cover	345mm	2	24V DC	≥90
9146xxxx	LED LE485 xx 3L14-UHD 24V/xxmA Lens 8DY	Lens	485mm	3	24V DC	≥90
9146xxxx	LED LE485 xx 3L14-UHD 24V/xxmA Cover 8DY	Cover	485mm	3	24V DC	≥90
9146xxxx	LED LE625 xx 4L14-UHD 24V/xxmA Lens 8DY	Lens	625mm	4	24V DC	≥90
9146xxxx	LED LE625 xx 4L14-UHD 24V/xxmA Cover 8DY	Cover	625mm	4	24V DC	≥9(
9146xxxx	LED LE770 xx 5L14-UHD 24V/xxmA Lens 8DY	Lens	770mm	5	24V DC	≥90
9146xxxx	LED LE770 xx 5L14-UHD 24V/xxmA Cover 8DY	Cover	770mm	5	24V DC	≥90
146xxxx	LED LE905 xx 6L14-UHD 24V/xxmA Lens 8DY	Lens	905mm	6	24V DC	≥90
146xxxx	LED LE905 xx 6L14-UHD 24V/xxmA Cover 8DY	Cover	905mm	6	24V DC	≥9(
146xxxx	LED LE1050 xx 7L14-UHD 24V/xxmA Lens 8DY	Lens	1050mm	7	24V DC	≥9(
146xxxx	LED LE1050 xx 7L14-UHD 24V/xxmA Cover 8DY	Cover	1050mm	7	24V DC	≥91
146xxxx	LED LE1190 xx 8L14-UHD 24V/xxmA Lens 8DY	Lens	1190mm	8	24V DC	≥9
146xxxx	LED LE1190 xx 8L14-UHD 24V/xxmA Cover 8DY	Cover	1190mm	8	24V DC	≥9
146xxxx	LED LE1330 xx 9L14-UHD 24V/xxmA Lens 8DY	Lens	1330mm	9	24V DC	≥9
146xxxx	LED LE1330 xx 9L14-UHD 24V/xxmA Cover 8DY	Cover	1330mm	9	24V DC	≥9
146xxxx	LED LE1470 xx 10L14-UHD 24V/xxmA Lens 8DY	Lens	1470mm	10	24V DC	≥9
146xxxx	LED LE1470 xx 10L14-UHD 24V/xxmA Cover 8DY	Cover	1470mm	10	24V DC	≥9
146xxxx	LED LE1610 xx 11L14-UHD 24V/xxmA Lens 8DY	Lens	1610mm	11	24V DC	≥9
146xxxx	LED LE1610 xx 11L14-UHD 24V/xxmA Cover 8DY	Cover	1610mm	11	24V DC	≥9
	LED LE1750 xx 12L14-UHD 24V/xxmA Lens 8DY	Lens	1750mm	12	24V DC	≥9
146xxxx		Cover	1750mm	12	24V DC	≥9
	LED LE1890 xx 13L14-UHD 24V/xxmA Lens 8DY	Lens	1890mm	13	24V DC	≥9
	LED LE1890 xx 13L14-UHD 24V/xxmA Cover 8DY	Cover	1890mm	13	24V DC	≥9
146xxxx		Lens	2030mm	14	24V DC	≥9
146xxxx		Cover	2030mm	14	24V DC	≥9
146xxxx		Lens	2175mm	15	24V DC	≥9
146xxxx	LED LE2175 xx 15L14-UHD 24V/xxmA Cover 8DY	Cover	2175mm	15	24V DC	≥9
146xxxx	LED LE2315 xx 16L14-UHD 24V/xxmA Lens 8DY	Lens	2315mm	16	24V DC	≥9
146xxxx	LED LE2315 xx 16L14-UHD 24V/xxmA Cover 8DY	Cover	2315mm	16	24V DC	≥9
146xxxx 146xxxx		Lens	2455mm	17	24V DC	≥7 ≥9
146xxxx	LED LE2455 xx 17L14-UHD 24V/xxmA Cover 8DY	Cover	2455mm	17	24V DC	≥9
146xxxx		Lens	2600mm	18	24V DC	≥9
146xxxx	LED LE2600 xx 18L14-UHD 24V/xxmA Cover 8DY	Cover	2600mm	18	24V DC	≥9
146xxxx		Lens	2735mm	19	24V DC	≥9
146xxxx	LED LE2735 xx 19L14-UHD 24V/xxmA Cover 8DY	Cover	2735mm	19	24V DC	≥9

Packaging: 12 pieces/carton, 360 pieces/pallet

III TECHNICAL DATA | ORDER DATA

Art. No.	Туре*	Version*	Length	No. of LED modules	Supply	CRI
9146xxxx	LED LE2875 xx 20L14-UHD 24V/xxmA Lens 8DY	Lens	2875mm	20	24V DC	≥90
9146xxxx	LED LE2875 xx 20L14-UHD 24V/xxmA Cover 8DY	Cover	2875mm	20	24V DC	≥90
9146xxxx	LED LE3015 xx 21L14-UHD 24V/xxmA Lens 8DY	Lens	3015mm	21	24V DC	≥90
9146xxxx	LED LE3015 xx 21L14-UHD 24V/xxmA Cover 8DY	Cover	3015mm	21	24V DC	≥90
9146xxxx	LED LE3155 xx 22L14-UHD 24V/xxmA Lens 8DY	Lens	3155mm	22	24V DC	≥90
9146xxxx	LED LE3155 xx 22L14-UHD 24V/xxmA Cover 8DY	Cover	3155mm	22	24V DC	≥90
9146xxxx	LED LE3295 xx 23L14-UHD 24V/xxmA Lens 8DY	Lens	3295mm	23	24V DC	≥90
9146xxxx	LED LE3295 xx 23L14-UHD 24V/xxmA Cover 8DY	Cover	3295mm	23	24V DC	≥90
9146xxxx	LED LE3435 xx 24L14-UHD 24V/xxmA Lens 8DY	Lens	3435mm	24	24V DC	≥90
9146xxxx	LED LE3435 xx 24L14-UHD 24V/xxmA Cover 8DY	Cover	3435mm	24	24V DC	≥90

Packaging: 12 pieces/carton, 360 pieces/pallet

- All typical values for Ta=25°C +/- 2°C
- Luminous flux min. value = typ. value 20%
- Tolerance mechanical dimensions +/- 1mm
- Tolerance electrical data +/- 15%
- Tolerance optical data for CW,WW & NW +/-15% (LED Modul @ 60mA string current)
- Tolerance optical data for PC, BP +/-15% (LED Modul @ 100mA string current)

• Tolerance min. value CRI -1

*xx = light colour (see colour key below) *xxmA = Current rating (see current rating variants on page 4 / table 2)

<u>*Version:</u> Lenses & Cover (see page 4 / table 3)

CONVERTER

Output voltage	24 VDC +10 %
Power LED driver	= sum of typical power of light engines + 20%
Daisy chaining (luminaires)	100mA: max 24 L14-UHD modules 80mA: max 28 L14-UHD modules 60mA: max 33 L14-UHD modules 40mA: max 40 L14-UHD modules

Electrical supply/choice of LED driver

Architectural Line products from Lumitech are not protected against overvoltages, overcurrents, overloads or short-circuit currents. Reliable and safe operation of the Architectural Line can only be ensured by using LED drivers that comply with the relevant regulations. When selecting the LED driver, the following protective functions should be ensured:

- SELV
- Short-circuit protection
- Overload protection
- Overtemperature protection
- Protection against environmental influences

The Architectural Line must be operated on 24V constant voltage LED drivers. Operation on a constant current LED driver will result in irreversible damage to the luminaire. Reverse polarity can damage the luminaire.

III COLOUR KEY*

Code	CW	NW	WW	PC	BP
ССТ	5000K	4000K	3000K	2700K	2400K

III ENERGY EFFICIENT CLASS - LIGHT SOURCE

Current (mA)	CW	NW	WW	PC	BP
40mA	F	F	F	F	G
60mA	F	F	F	F	F
80mA	E	E	F	F	F
100mA	E	E	F	F	F

III MODULES & LENGTHS

Length of luminaire
205mm
345mm
485mm
625mm
770mm
905mm
1050mm
1190mm
1330mm
1470mm
1610mm
1750mm
1890mm
2030mm
2175mm
2315mm
2455mm
2600mm
2735mm
2875mm
3015mm
3155mm
3295mm

Table 1

■ LED MODULE - COLOURS, CURRENTS & LIGHT OUTPUTS

Light colour	Light colour	Power & luminous flux p. module			
(Kelvin)	(Code)	@40mA / 1,0W	ଢ60mA / 1,5W	ଢଃ0mA / 1,9W	ି 100mA / 2,5W
5000K	cw	114lm	175lm	235lm	296lm
4000K	NW	114lm	175lm	235lm	296lm
3000K	ww	103lm	158lm	213lm	268lm
2700K	PC	100lm	153lm	206lm	260lm
2400K	BP	95lm	145lm	196lm	246lm

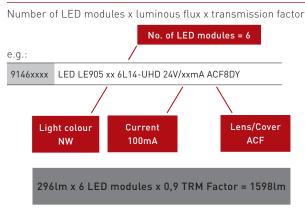
Table 2

III TRANSMISSION & FACTOR

Lens/Cover	Code	Transmission	TRM Factor
10° frosted	10F	84%	0,84
30° frosted	30F	85%	0,85
90° frosted	90F	90%	0,9
85° asym. frosted	ACF	90%	0,9
Cover frosted	COF	92%	0,92
Cover white	cow	75%	0,75
Cover flat frosted	CFF	87%	0,87
Cover flat white	CFW	70%	0,7

Table 3

III CALCULATION OF THE LUMINOUS FLUX



III CALCULATION OF THE POWER

Number of LED modules x power p. LED module

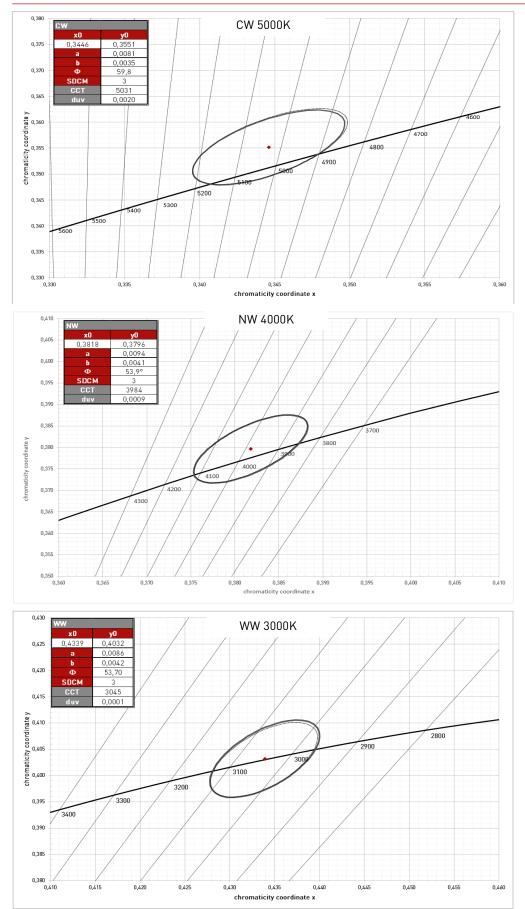
Current &

Power p. module
ପ40mA / 1,0W
@60mA / 1,5W
@80mA / 1,9W
ି (d100mA / 2,5W



III COORDINATES AND TOLERANCES - LED MODULES

III 5



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0,400

0,395 0,460

6

0,470

0,465

0,475

0,480

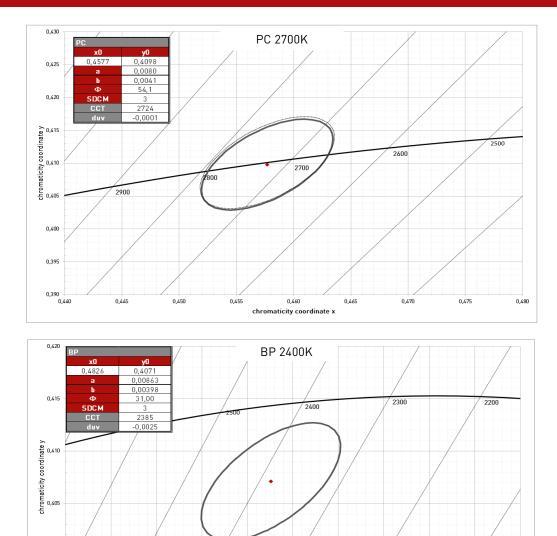
0,485

chromaticity coordinate x

0,490

0,495

0,500

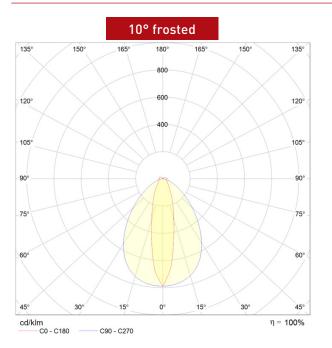


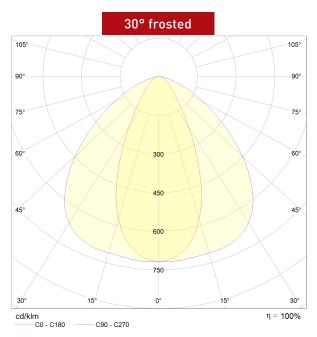
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0,510

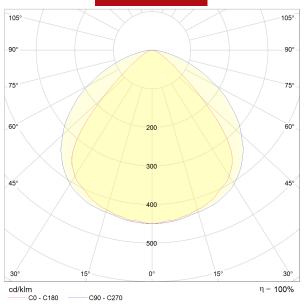


III OPTICAL PROPERTIES - LUMINAIRES

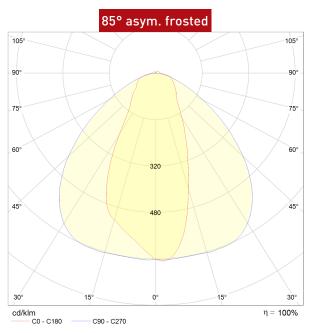




90° frosted

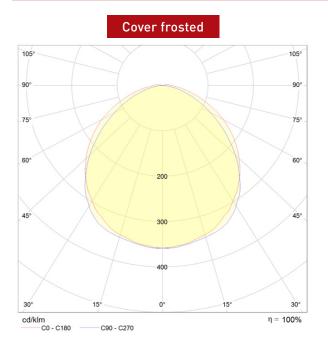


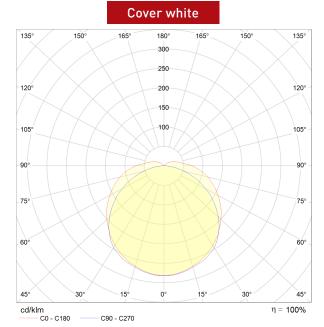
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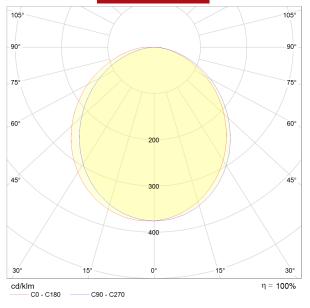


III OPTICAL PROPERTIES - LUMINAIRES



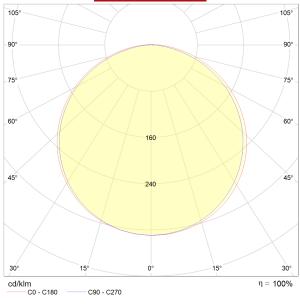


Cover flat frosted



8 💵







12,4

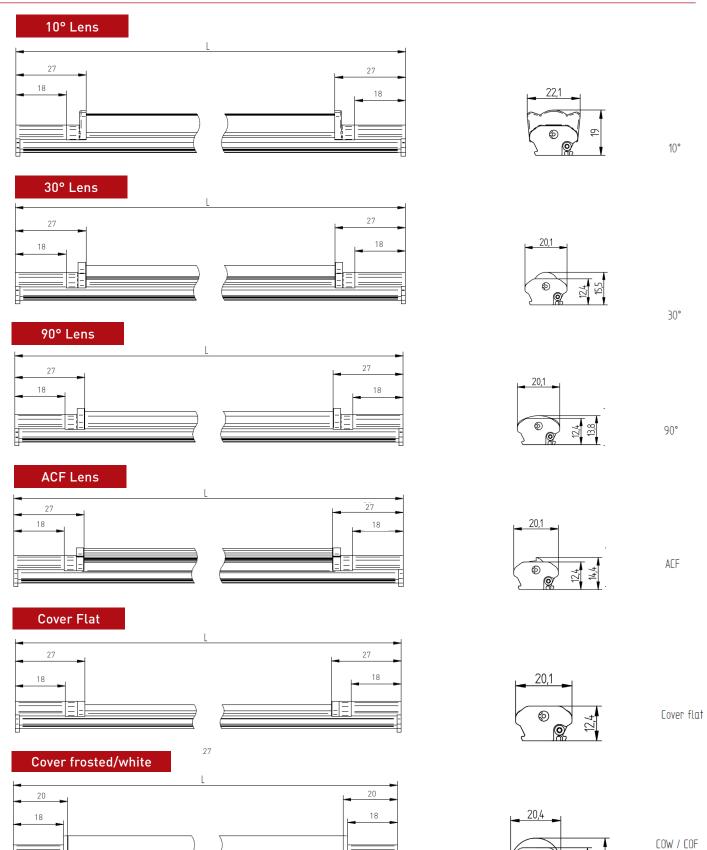
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LUMITECH DATASHEET - Architectural Line

III DIMENSIONS - LUMINAIRE





III LIFETIME

50.000h (L80 B10)

III THERMAL BEHAVIOUR

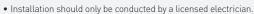
Operating temperature (operation, no defects)	ta	-30 +55 °C
Storage temperature	ts	-30 +60 °C
Temperature cooling profile ¹²	tc	-30 +60 °C

¹ Values apply to operation at 100% output, natural convection.

² If the maximum temperature limits are exceeded, the lifetime of the module will be greatly reduced or the module may be destroyed. The tc point temperature at the profile of the light engine should be measured in the thermally stable state and under operating conditions by means of a temperature sensor or temperaturesensitive sticker (available for example from conrad.com or rs-components.com) in accordance with EN60598-1. The entire profile can be used as the tc point.

STANDARDS

- EN 60598-1
- EN 60598-2-1
- EN 62031
- EN 62471
 - Note



- Reversing the polarity can damage the product!
- Make sure the converter has been switched off prior to connecting the light engine. If this is not observed, the light engine may be damaged!
- Connection or operation is only permitted when using the specified converters. Higher voltages result in damage to or failure of the light engine.