

DOOR LIGHTING COOLER | Sense Line GenX



COOL

Refrigeration equipment



Central door lighting



Lateral door lighting



Plug-in solution
Cinch-Connection-System



Dimmable



High efficiency



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PRODUCT DESCRIPTION

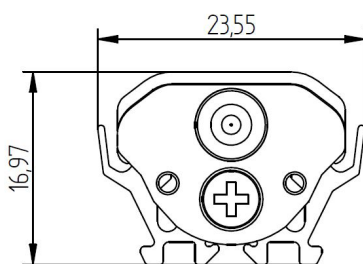
- High efficient, slim lighting for refrigeration equipment doors
- Ready-to-connect solution available, thanks to our Cinch Connection System
- High operational performance due to directional lighting, integrated heat removal and highly efficient LEDs
- Excellent product illumination thanks to the combination of SMD LEDs and innovative optics
- No glare or lateral insight
- Safe-use operation due safety extra-low voltage (SELV)
- Simple installation with application of FIXING Plates (optional also tape)
- Heat sink profile made of anodised, extruded aluminium
- LED modules protected against moisture & dust by Conformal coating
- End caps made of PBT
- Linear lenses made of Polycarbonate (GWT up to 850°C)
- Dimming capability

TECHNICAL DATA

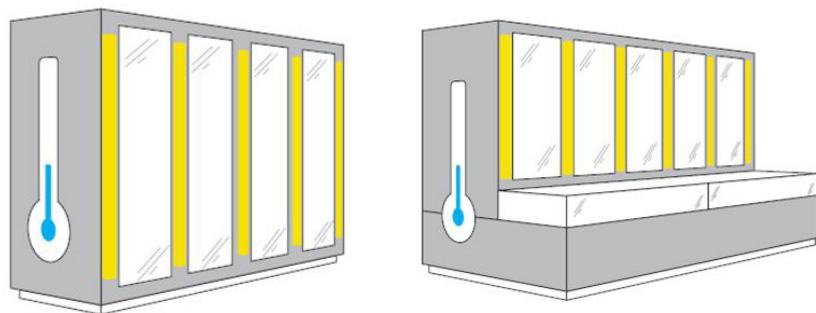
Supply voltage	24 VDC
Ambient temperature t_a	-30 ... +30 °C
Max. surface temperature on profile t_c	60 °C
Type of protection	IP54
Protection class	III
Risk group (EN 62471:2008)	0



SKETCH



APPLICATION



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TECHNICAL DATA | ORDER DATA

Art. No.	Type	Length	No. of modules	Colour	Efficiency	Luminous flux	Power	CRI
91440047	LED LE1250 NW 8L14-GenX 24V/80mA SES3DY C	1.250mm	8	Neutral White	101lm/W	1530lm	15,2W	≥90
91430397	LED LE1250 NW 8L14-GenX 24V/50mA SES3DY E	1.250mm	8	Neutral White	96lm/W	920lm	9,6W	≥90
91440048	LED LE1250 WW 8L14-GenX 24V/80mA SES3DY C	1.250mm	8	Warm White	91lm/W	1380lm	15,2W	≥90
91430398	LED LE1250 WW 8L14-GenX 24V/50mA SES3DY E	1.250mm	8	Warm White	87lm/W	830lm	9,6W	≥90
91440050	LED LE1250 PM 8L14-GenX 24V/80mA SES3DY C	1.250mm	8	Meat & Deli	84lm/W	1270lm	15,2W	≥90
91430399	LED LE1250 PM 8L14-GenX 24V/50mA SES3DY E	1.250mm	8	Meat & Deli	80lm/W	760lm	9,6W	≥90
91440051	LED LE1500 NW 10L14-GenX 24V/80mA SES3DY C	1.500mm	10	Neutral White	101lm/W	1910lm	19,0W	≥90
91430400	LED LE1500 NW 10L14-GenX 24V/50mA SES3DY E	1.500mm	10	Neutral White	96lm/W	1150lm	12,0W	≥90
91440052	LED LE1500 WW 10L14-GenX 24V/80mA SES3DY C	1.500mm	10	Warm White	91lm/W	1730lm	19,0W	≥90
91430401	LED LE1500 WW 10L14-GenX 24V/50mA SES3DY E	1.500mm	10	Warm White	87lm/W	1040lm	12,0W	≥90
91440054	LED LE1500 PM 10L14-GenX 24V/80mA SES3DY C	1.500mm	10	Meat & Deli	84lm/W	1590lm	19,0W	≥90
91430402	LED LE1500 PM 10L14-GenX 24V/50mA SES3DY E	1.500mm	10	Meat & Deli	80lm/W	950lm	12,0W	≥90
91440055	LED LE1650 NW 11L14-GenX 24V/80mA SES3DY C	1.650mm	11	Neutral White	101lm/W	2100lm	20,9W	≥90
91430403	LED LE1650 NW 11L14-GenX 24V/50mA SES3DY E	1.650mm	11	Neutral White	96lm/W	1260lm	13,2W	≥90
91440056	LED LE1650 WW 11L14-GenX 24V/80mA SES3DY C	1.650mm	11	Warm White	91lm/W	1900lm	20,9W	≥90
91430404	LED LE1650 WW 11L14-GenX 24V/50mA SES3DY E	1.650mm	11	Warm White	87lm/W	1140lm	13,2W	≥90
91440058	LED LE1650 PM 11L14-GenX 24V/80mA SES3DY C	1.650mm	11	Meat & Deli	84lm/W	1750lm	20,9W	≥90
91430405	LED LE1650 PM 11L14-GenX 24V/50mA SES3DY E	1.650mm	11	Meat & Deli	80lm/W	1050lm	13,2W	≥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 NW & WW +/-15% (LED Modul @ 60mA string current)
- Tolerance optical data for PM +/-15% (LED Modul @ 100mA string current)
- Tolerance min. value CRI -1

Luminaires also available in all other LUMITECH light colours:

Cool White
5000K

Bread & Pastries
2400K

Pasta & Cheese
2700K

CONVERTER

Output voltage	24VDC +10 %
Power converter	= sum of the typical individual power of the light engines + 20 %
Chain length (luminaires)	120mA: max 21 Module 100mA: max 24 Module 80mA: max 28 Module 60mA: max 33 Module 50mA: max 35 Module 40mA: max 40 Module 33mA: max 42 Module

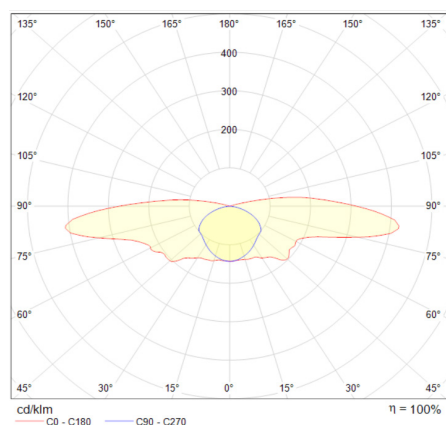
Selection of the operating device/protective functions

The operating device protects the modules against overvoltage, overcurrent, overload and short circuits. The device must comply with the relevant standards for safe operation in freezer and refrigeration equipment and must be also technically approved by LUMITECH Lighting Solution GmbH. Power supply units must ensure the following protective measures:

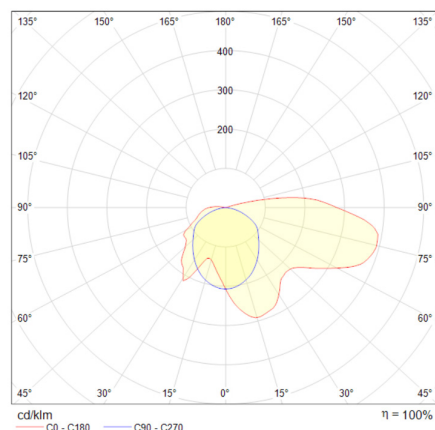
- SELV
- Short-circuit protection
- Overload protection
- Overtemperature protection
- Protection against environmental influences

OPTICAL PROPERTIES - LUMINAIRE

Center



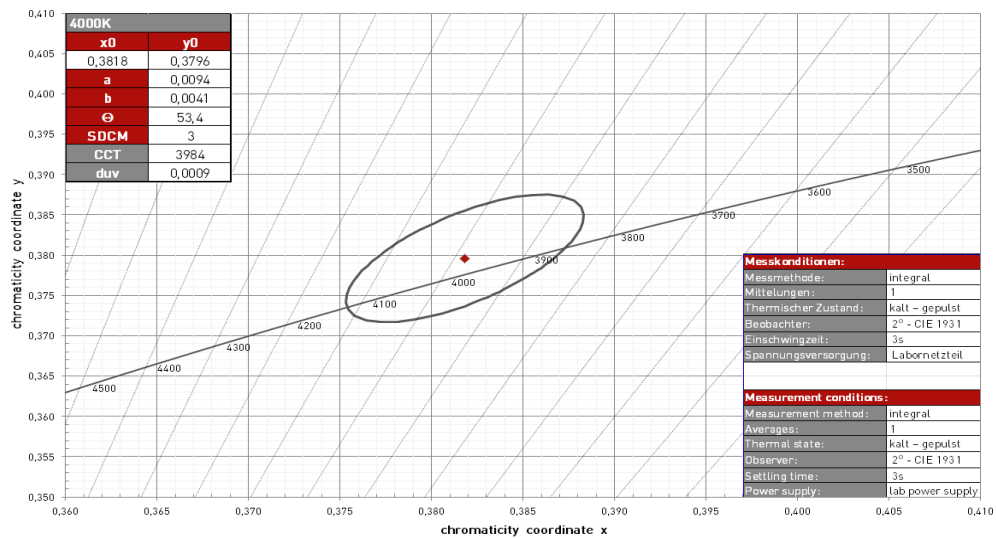
END



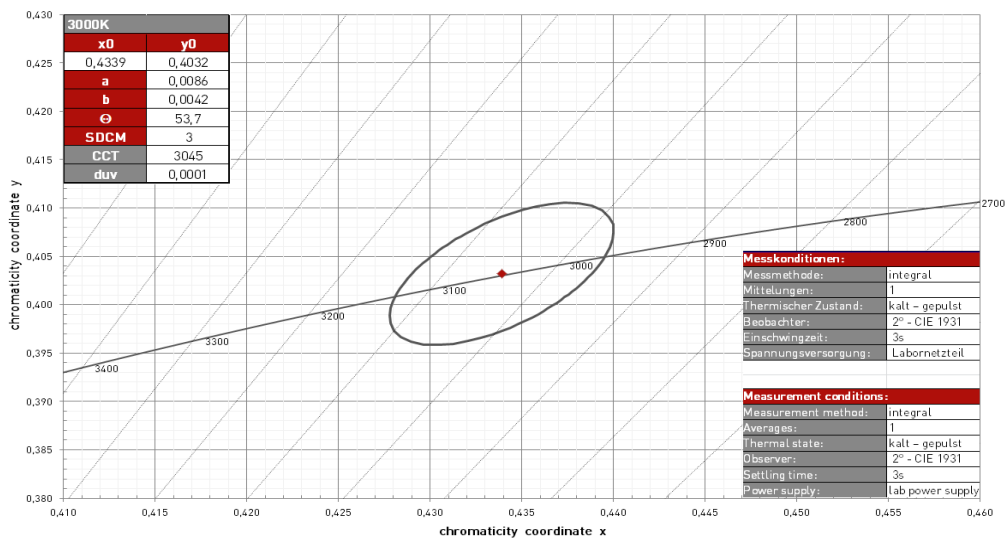
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COORDINATES AND TOLERANCES*

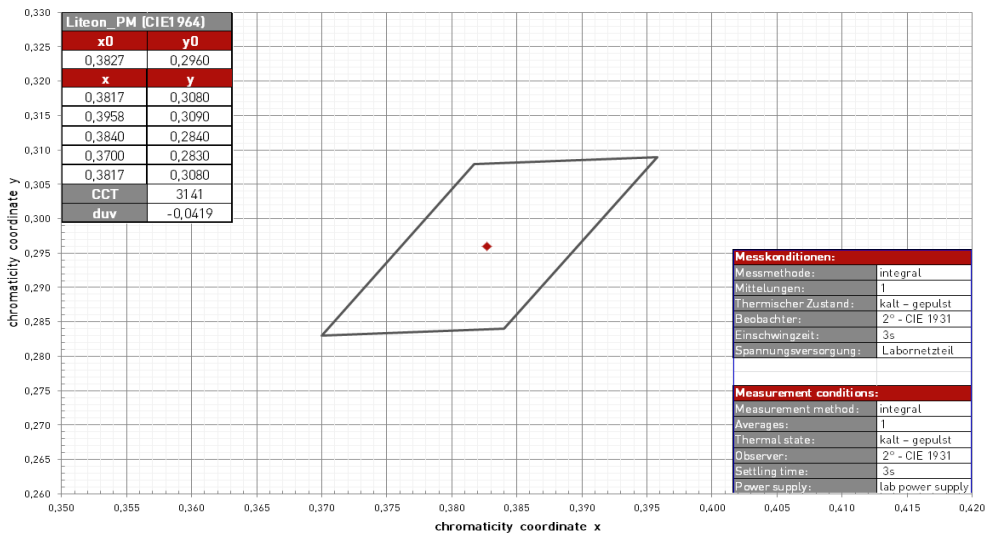
Neutral White



Warm White



Packed Meat



*Data refers only to LED MODULES WITHOUT LENS!

*Colour shift through the lens is possible on request!

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COLOUR KEY

Code	CW	NW	WW	PC	BP	PM
Colour	Cool White	Neutral White	Warm White	Pasta & Cheese	Bread & Pastries	Meat & Deli
CCT	5000K	4000K	3000K	2700K	2400K	special colour

LIFETIME

70.000h (L80 B10)

STANDARDS

- EN 60598-1
- EN 60598-2-1
- EN 62031
- EN 62471
- EN 60335-2-89

THERMAL BEHAVIOUR

Operating temperature (operation, no defects)	ta	-30 ... +30 °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 temperature-sensitive 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.



Note

- Installation should only be conducted by a licensed electrician.
- 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.
- The user is responsible for correct selection of illumination intensity. Excessive illumination intensity may lead to greying or colour changes of displayed products.