



## HANDRAIL LIGHTING | Sense Line GenX



**Refrigeration and Freezer equipment**



**Handrail lighting**



**High efficiency**



**Plug-in solution**  
Cinch-Connection-System



**Dimmable**



**Various lengths**



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### ■ PRODUCT DESCRIPTION

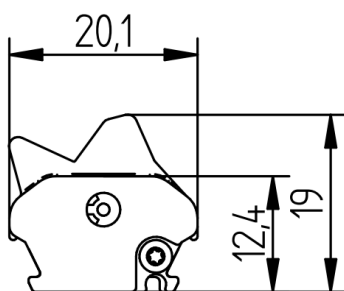
- High efficient lighting of handrails for cooling and freezer equipment
- Additional „LUMITECH SHADE“ to avoid glare is recommended
- Ready-to-connect solution available, thanks to our Cinch Connection System
- High operational performance due to directional lighting, integrated heat dissipation and highly efficient LEDs
- Excellent product illumination thanks to the combination of SMD LEDs and innovative optics
- Safe-use operation due to safety extra-low voltage (SELV)
- Simple installation with application of FIXING Plates or with the LUMITECH Shade
- 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)

### ■ TECHNICAL DATA

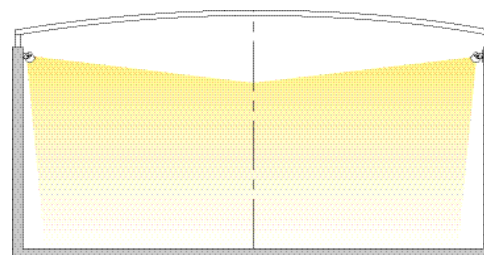
Supply voltage	24 VDC
Ambient temperature $t_a$	-30 ... +30 °C
Max. surface temperature on profile $t_c$	60 °C
Type of protection	IP54 (only with „PROTECTION KIT“)
Protection class	III
Risk group [EN 62471:2008]	0



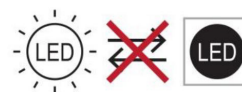
### ■ SKETCH



### ■ APPLICATION



Non-replaceable light source



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### TECHNICAL DATA | ORDER DATA

Art. No.	Type	Length	Light colour	No. of LED modules	Efficiency	Luminous flux	Power	CRI	EEC light source
91430381	LED LE1200 CW 8L14-GenX 24V/80mA ASH8DY	1.200mm	Cool White	8	106lm/W	1610lm	15,2W	≥90	E
91430179	LED LE1200 NW 8L14-GenX 24V/80mA ASH8DY	1.200mm	Neutral White	8	106lm/W	1610lm	15,2W	≥90	E
91430382	LED LE1200 PM 8L14-GenX 24V/80mA ASH8DY	1.200mm	Meat & Deli	8	88lm/W	1330lm	15,2W	≥90	F
91430383	LED LE1760 CW 12L14-GenX 24V/80mA ASH8DY	1.760mm	Cool White	12	106lm/W	2410lm	22,8W	≥90	E
91430338	LED LE1760 NW 12L14-GenX 24V/80mA ASH8DY	1.760mm	Neutral White	12	106lm/W	2410lm	22,8W	≥90	E
91430384	LED LE1760 PM 12L14-GenX 24V/80mA ASH8DY	1.760mm	Meat & Deli	12	88lm/W	2000lm	22,8W	≥90	F

Packaging: 12 pieces/carton, 360 pieces/palle

- 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 +/-15%
- Tolerance min. value CRI +/-1

Luminaires also available in all other LUMITECH light colours:

Warm White 3000K	Pasta & Cheese 2700K	Bread & Pastries 2400K
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### CONVERTER

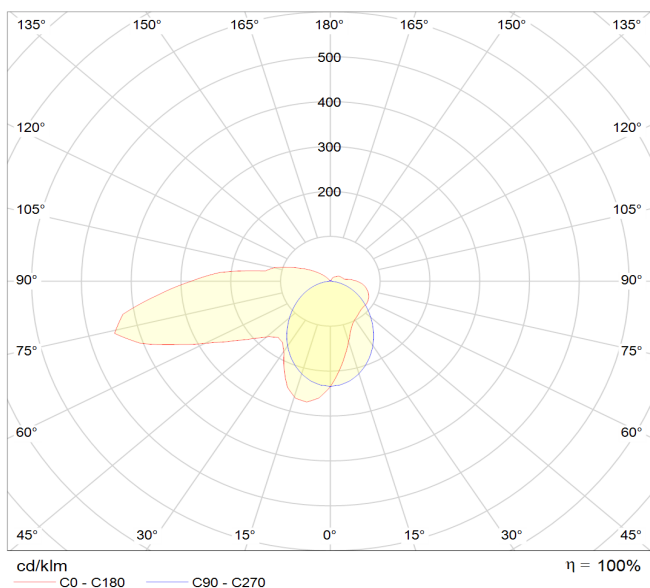
Output voltage	24 VDC +10 %
Power converter	= sum of the typical individual power of the light engines + 20 %
Chain length (luminaires)	120mA: max 21 LED modules 100mA: max 24 LED modules <b>80mA: max 28 LED modules</b> 60mA: max 33 LED modules 50mA: max 35 LED modules 40mA: max 40 LED modules 33mA: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

#### 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:

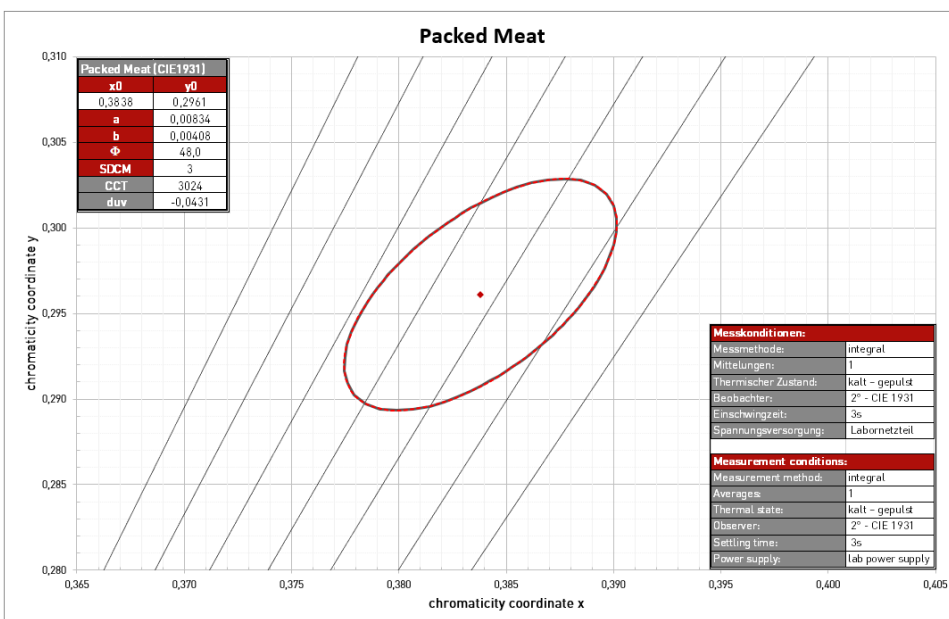
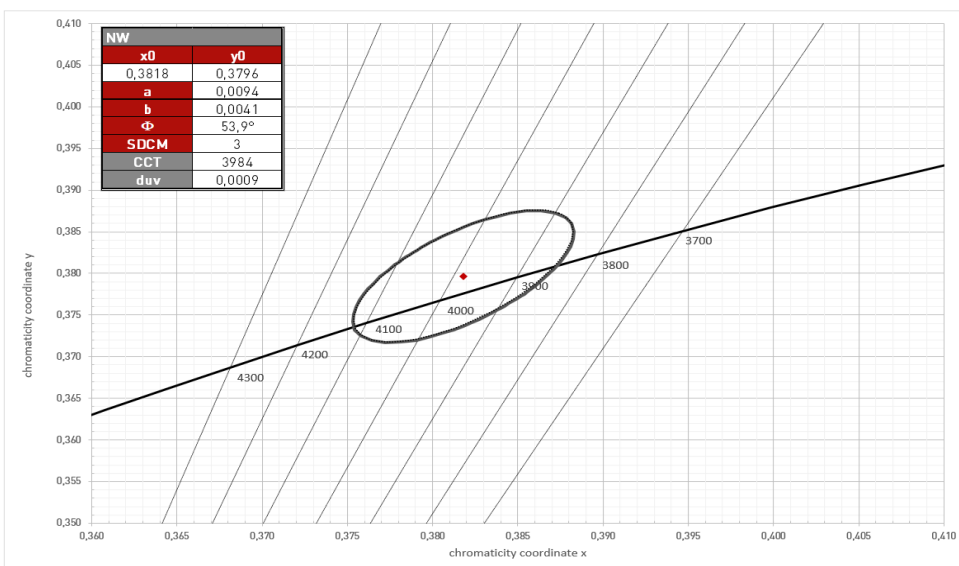
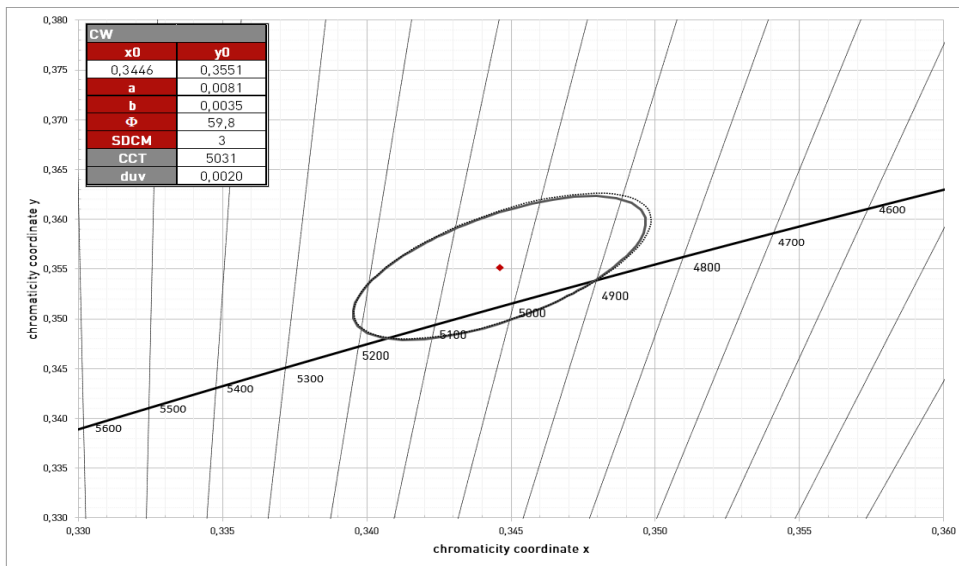
- SELV
- Short-circuit protection
- Overload protection
- Overtemperature protection
- Protection against environmental influences

### OPTICAL PROPERTIES - LUMINAIRE



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III COORDINATES AND TOLERANCES\*



\*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
- PRP/HACCP (Food Safety)

### THERMAL BEHAVIOUR

Operating temperature (operation, no defects)	ta	-30 ... +30 °C
Storage temperature	ts	-30 ... +60 °C
Temperature cooling profile <sup>12</sup>	tc	-30 ... +60 °C

<sup>1</sup> Values apply to operation at 100% output, natural convection.

<sup>2</sup> 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.