LUMITECH
YOUR LIGHTING SOLUTION

HORIZONTAL LIGHTING | Sense Line GenX+

Cooler & Freezer cabinets, Dry shelves

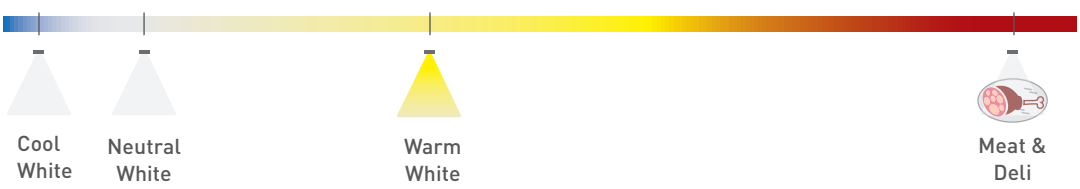
Plug & Play
Cinch-Connection-System

Canopy Lighting

Shelf Lighting

Counter Lighting

Handrail Lighting



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PRODUCT DESCRIPTION

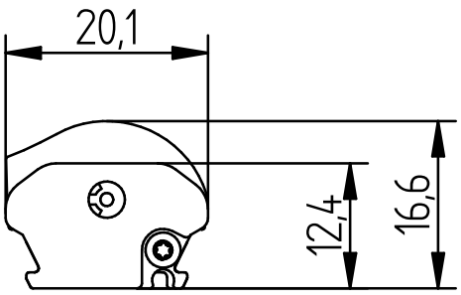
- High efficient lighting up to 160lm/W
- Ready-to-connect solution available, thanks to Cinch Connection System
- High operational performance due to directional lighting & integrated heat dissipation
- Excellent product illumination thanks to the combination of SMD LEDs and innovative optics
- Safe-use operation due to safety extra-low voltage (SELV)
- Simple installation with application of fixing plates
- Optional blinds are available
- 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
- Suitable for use with the Lumitech Power Line (e.g. multideck)

TECHNICAL DATA

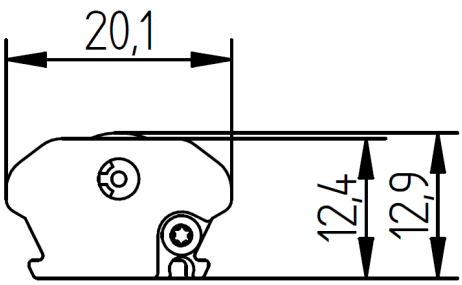
Supply voltage	24 VDC
Ambient temperature ta	-30 ... +30 °C
Max. surface temperature on profile tc	60 °C
Type of protection	IP54 (only with „PROTECTION KIT“)
Protection class	III
Risk group (EN 62471:2008)	0

DIMENSIONS

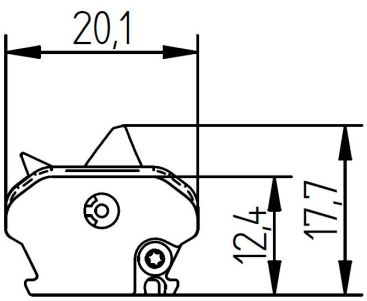
CANOPY LIGHTING - ASC



SHELF & COUNTER LIGHTING - COS



HANDRAIL LIGHTING - ASH



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TECHNICAL DATA | ORDER DATA

Art. No.	Type	Length	Light colour	No. of LED modules	Luminous flux	Power	Efficiency	CRI	EEC light source
Canopy Lighting (HE & HO)									
91451000	LED LE890 NW 6L14-XHD2 24V/33mA ASC8DY	890mm	4000K	6	770lm	4,8W	160lm/W	92	C
91451001	LED LE890 WW 6L14-XHD2 24V/33mA ASC8DY	890mm	3000K	6	750lm	4,8W	156lm/W	92	D
91451002	LED LE890 PM 6L14-XHD1 24V/33mA ASC8DY	890mm	Meat	6	630lm	4,8W	131lm/W	92	E
91451003	LED LE1170 NW 8L14-XHD2 24V/33mA ASC8DY	1170mm	4000K	8	1030lm	6,4W	161lm/W	92	C
91451004	LED LE1170 WW 8L14-XHD2 24V/33mA ASC8DY	1170mm	3000K	8	1000lm	6,4W	156lm/W	92	D
91451005	LED LE1170 PM 8L14-XHD1 24V/33mA ASC8DY	1170mm	Meat	8	830lm	6,4W	130lm/W	92	E
91451006	LED LE1731 NW 12L14-XHD2 24V/33mA ASC8DY	1731mm	4000K	12	1540lm	9,6W	160lm/W	92	C
91451007	LED LE1731 WW 12L14-XHD2 24V/33mA ASC8DY	1731mm	3000K	12	1500lm	9,6W	156lm/W	92	D
91451008	LED LE1731 PM 12L14-XHD1 24V/33mA ASC8DY	1731mm	Meat	12	1250lm	9,6W	130lm/W	92	E
91451009	LED LE890 NW 6L14-XHD2 24V/60mA ASC8DY	890mm	4000K	6	1380lm	9,0W	153lm/W	92	C
91451010	LED LE890 WW 6L14-XHD2 24V/60mA ASC8DY	890mm	3000K	6	1330lm	9,0W	148lm/W	92	D
91451011	LED LE890 PM 6L14-XHD1 24V/60mA ASC8DY	890mm	Meat	6	1110lm	9,0W	123lm/W	92	E
91451012	LED LE1170 NW 8L14-XHD2 24V/60mA ASC8DY	1170mm	4000K	8	1830lm	12,0W	153lm/W	92	C
91451013	LED LE1170 WW 8L14-XHD2 24V/60mA ASC8DY	1170mm	3000K	8	1780lm	12,0W	148lm/W	92	D
91451014	LED LE1170 PM 8L14-XHD1 24V/60mA ASC8DY	1170mm	Meat	8	1480lm	12,0W	123lm/W	92	E
91451015	LED LE1731 NW 12L14-XHD2 24V/60mA ASC8DY	1731mm	4000K	12	2750lm	18,0W	153lm/W	92	C
91451016	LED LE1731 WW 12L14-XHD2 24V/60mA ASC8DY	1731mm	3000K	12	2660lm	18,0W	148lm/W	92	D
91451017	LED LE1731 PM 12L14-XHD1 24V/60mA ASC8DY	1731mm	Meat	12	2220lm	18,0W	123lm/W	92	E
Shelf Lighting									
91451018	LED LE890 NW 6L14-XHD2 24V/25mA COS8DY	890mm	4000K	6	570lm	3,6W	158lm/W	92	C
91451019	LED LE890 WW 6L14-XHD2 24V/25mA COS8DY	890mm	3000K	6	550lm	3,6W	153lm/W	92	D
91451020	LED LE890 PM 6L14-XHD1 24V/25mA COS8DY	890mm	Meat	6	460lm	3,6W	128lm/W	92	E
91451021	LED LE1170 NW 8L14-XHD2 24V/25mA COS8DY	1170mm	4000K	8	750lm	4,8W	156lm/W	92	C
91451022	LED LE1170 WW 8L14-XHD2 24V/25mA COS8DY	1170mm	3000K	8	730lm	4,8W	152lm/W	92	D
91451023	LED LE1170 PM 8L14-XHD1 24V/25mA COS8DY	1170mm	Meat	8	610lm	4,8W	127lm/W	92	E
Counter Lighting									
91451024	LED LE890 NW 6L14-XHD2 24V/60mA COS8DY	890mm	4000K	6	1380lm	9,0W	153lm/W	92	C
91451025	LED LE890 WW 6L14-XHD2 24V/60mA COS8DY	890mm	3000K	6	1330lm	9,0W	148lm/W	92	D
91451026	LED LE890 PM 6L14-XHD1 24V/60mA COS8DY	890mm	Meat	6	1110lm	9,0W	123lm/W	92	E
91451027	LED LE1170 NW 8L14-XHD2 24V/60mA COS8DY	1170mm	4000K	8	1830lm	12,0W	153lm/W	92	C
91451028	LED LE1170 WW 8L14-XHD2 24V/60mA COS8DY	1170mm	3000K	8	1780lm	12,0W	148lm/W	92	D
91451029	LED LE1170 PM 8L14-XHD1 24V/60mA COS8DY	1170mm	Meat	8	1480lm	12,0W	123lm/W	92	E
Handrail Lighting									
91451030	LED LE1170 CW 8L14-XHD2 24V/60mA ASH8DY	1170mm	5000K	8	1630lm	12,0W	136lm/W	92	C
91451031	LED LE1170 NW 8L14-XHD2 24V/60mA ASH8DY	1170mm	4000K	8	1630lm	12,0W	136lm/W	92	C
91451032	LED LE1731 CW 12L14-XHD2 24V/60mA ASH8DY	1731mm	5000K	12	2440lm	18,0W	136lm/W	92	C
91451033	LED LE1731 NW 12L14-XHD2 24V/60mA ASH8DY	1731mm	4000K	12	2440lm	18,0W	136lm/W	92	C

Packaging: 12 pieces/carton, 360 pieces/pallet

*other light colors on request

- L14-XHD1: All typical values for Ta=25°C +/- 2°C
- L14-XHD2: All typical values for Ta=60°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

CONVERTER

Output voltage	24 VDC +10 %
Power driver	= sum of the typical individual power of the light engins + 10 %
Chaining length (in series)	max 50 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

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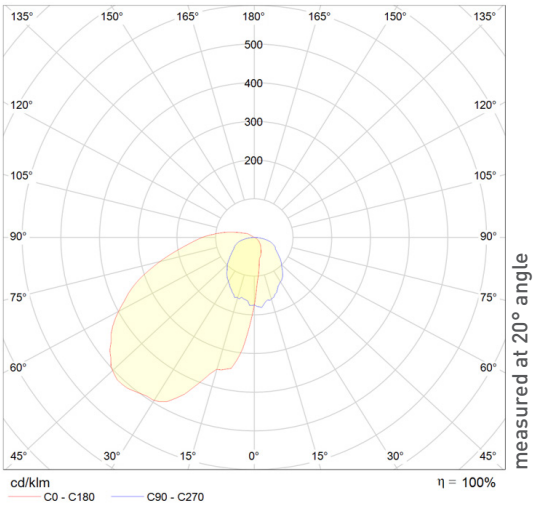
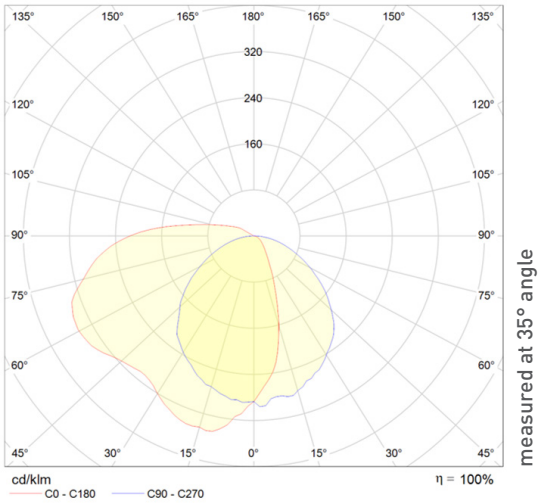
OPTICAL PROPERTIES - LUMINAIRE

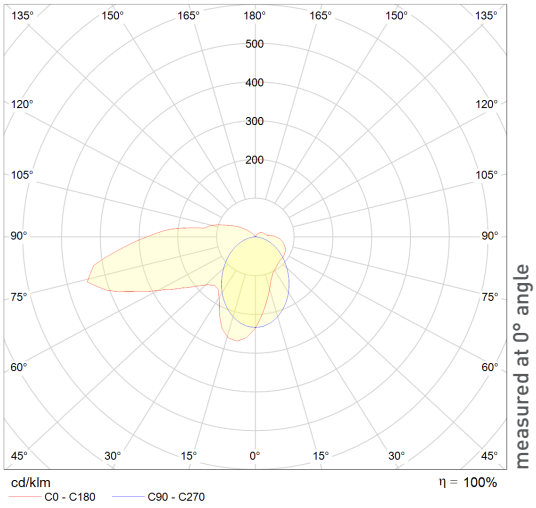
CANOPY LIGHTING - ASC



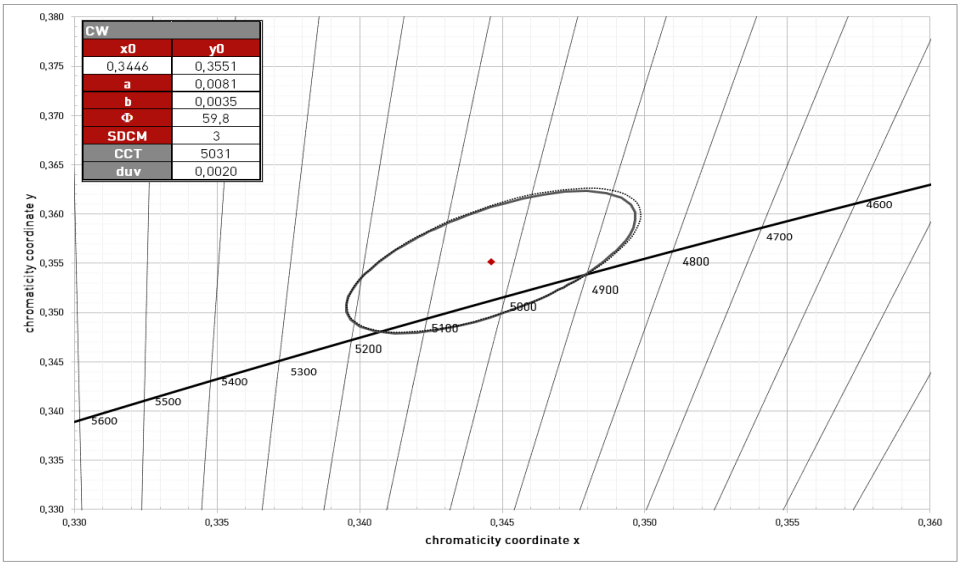
SHELF & COUNTER LIGHTING - COS



HANDRAIL LIGHTING - ASH



COORDINATES AND TOLERANCES (DATA REFERS ONLY TO LED MODULES WITHOUT LENS)



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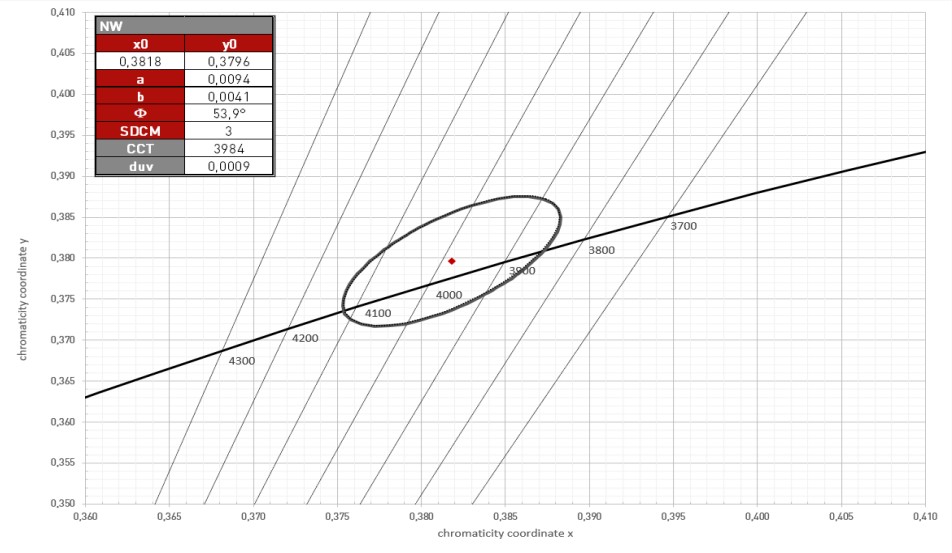

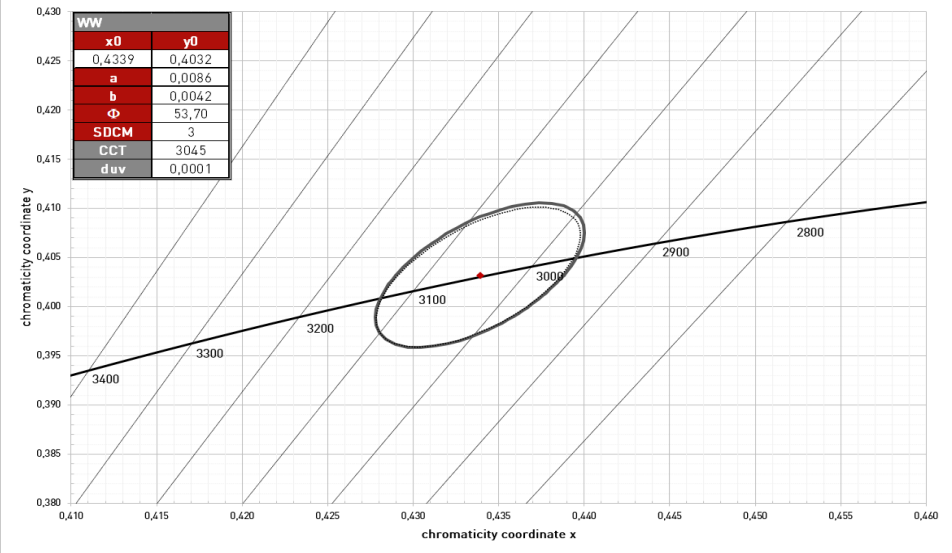

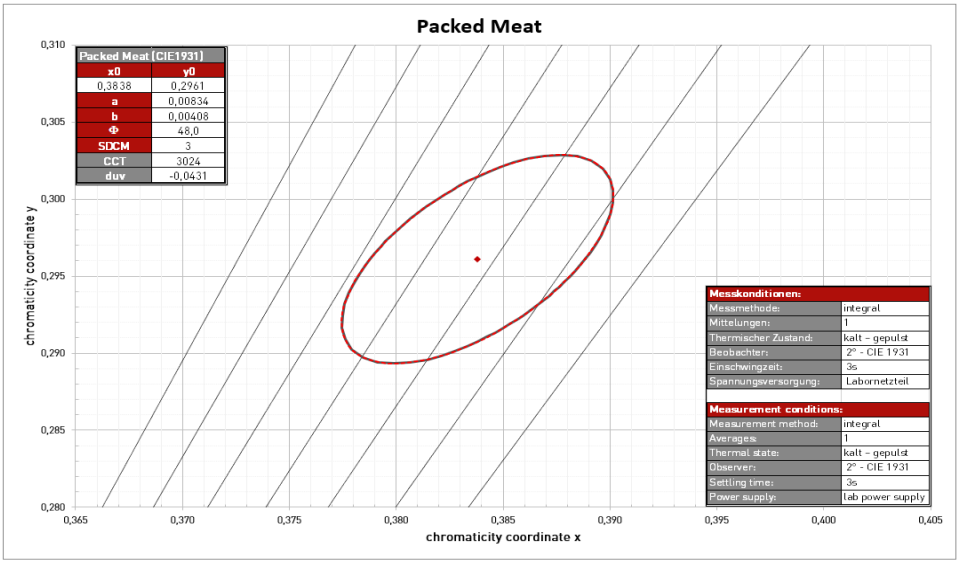

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COLOUR KEY

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
- Eco Design 2019/2020 (SLR)
- Energy Labelling 2019/2015 (ELR)
- PRP/HACCP (Food Safety)
- RoHS/Reach
- ENEC, UL

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 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.

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