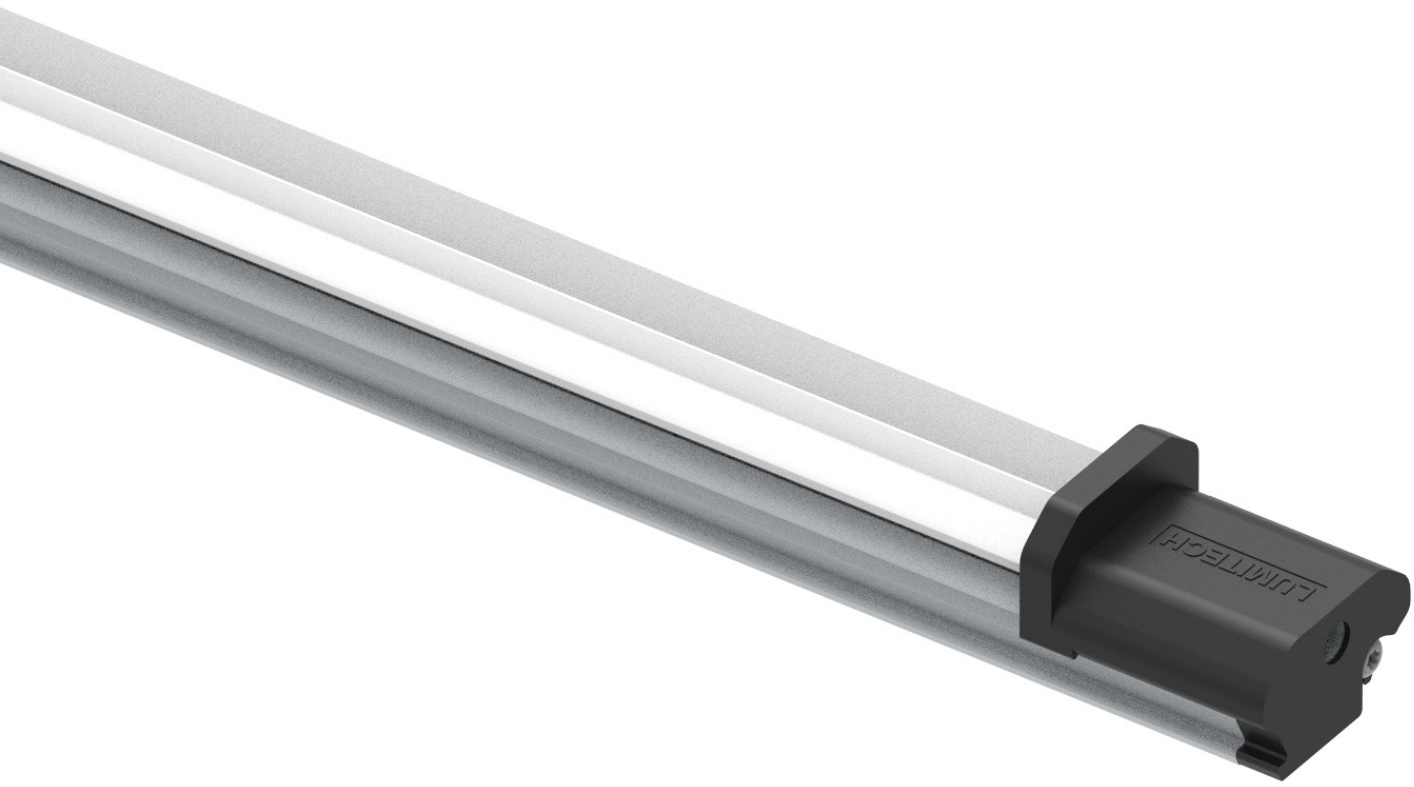
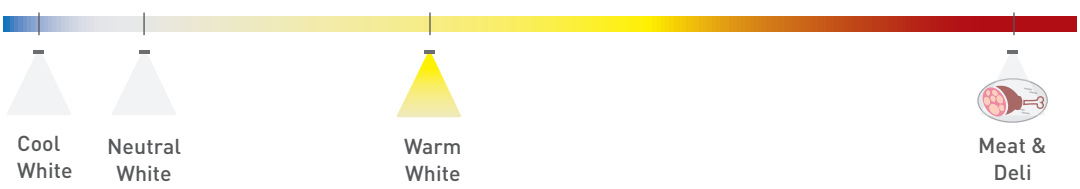
LUMITECH
YOUR LIGHTING SOLUTION



VERTICAL LIGHTING | Sense Line GenX+

- **Cooler & Freezer Cabinets**
- **Door Center**
- **Door End**
- **Plug & Play** Cinch-Connection-System
- **Dimmable**
- **High efficiency**



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VERTICAL LIGHTING | Sense Line GenX+

PRODUCT DESCRIPTION

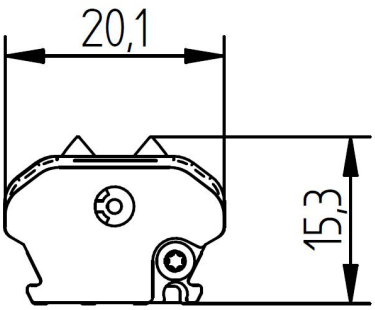
- High efficient, extra slim door lighting
- Ready-to-connect solution available, thanks to Cinch Connection System
- High operational performance due to directional lighting & integrated heat removal
- Excellent product illumination thanks to the combination of SMD LEDs and innovative optics
- Avoids glare and reflections by using a door blind (optional)
- Safe-use operation due safety extra-low voltage (SELV)
- Simple installation with application of fixing plates, or blind
- Heat sink profile made of extruded LowCarbon-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

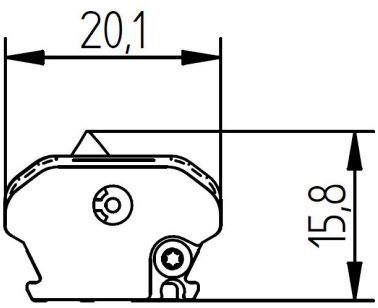
Supply voltage	24 VDC
Ambient temperature ta	-30 ... +30 °C
Max. surface temperature on profile tc	60 °C
Type of protection	IP54 (only with „PROTECTION KIT")
Protection class	III
Risk group (EN 62471:2008)	0

DIMENSIONS

DOOR - CENTER



DOOR - END



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TECHNICAL DATA | ORDER DATA

Art. No.	Type	Length	Light colour	No. of LED modules	Luminous flux [lm]	Power [W]	Efficiency [lm/W]	CRI	EEC light source
Door Lighting									
91451034	LED LE1450 CW 10L14-XHD2 24V/70mA SES8DY C	1450mm	5000K	10	2210	16,0	138	92	C
91451035	LED LE1450 CW 10L14-XHD2 24V/40mA SES8DY E	1450mm	5000K	10	1280	10,0	128	92	C
91451036	LED LE1450 NW 10L14-XHD2 24V/70mA SES8DY C	1450mm	4000K	10	2210	16,0	138	92	C
91451037	LED LE1450 NW 10L14-XHD2 24V/40mA SES8DY E	1450mm	4000K	10	1280	10,0	128	92	C
91451038	LED LE1450 WW 10L14-XHD2 24V/70mA SES8DY C	1450mm	3000K	10	2140	16,0	134	92	D
91451039	LED LE1450 WW 10L14-XHD2 24V/40mA SES8DY E	1450mm	3000K	10	1240	10,0	124	92	D
91451040	LED LE1450 PM 10L14-XHD1 24V/70mA SES8DY C	1450mm	Meat	10	1790	16,0	112	88	E
91451041	LED LE1450 PM 10L14-XHD1 24V/40mA SES8DY E	1450mm	Meat	10	1040	10,0	104	88	E
91451042	LED LE1591 CW 11L14-XHD2 24V/70mA SES8DY C	1591mm	5000K	11	2430	17,6	138	92	C
91451043	LED LE1591 CW 11L14-XHD2 24V/40mA SES8DY E	1591mm	5000K	11	1410	11,0	128	92	C
91451044	LED LE1591 NW 11L14-XHD2 24V/70mA SES8DY C	1591mm	4000K	11	2430	17,6	138	92	C
91451045	LED LE1591 NW 11L14-XHD2 24V/40mA SES8DY E	1591mm	4000K	11	1410	11,0	128	92	C
91451046	LED LE1591 WW 11L14-XHD2 24V/70mA SES8DY C	1591mm	3000K	11	2350	17,6	134	92	D
91451047	LED LE1591 WW 11L14-XHD2 24V/40mA SES8DY E	1591mm	3000K	11	1370	11,0	125	92	D
91451048	LED LE1591 PM 11L14-XHD1 24V/70mA SES8DY C	1591mm	Meat	11	1960	17,6	111	88	E
91451049	LED LE1591 PM 11L14-XHD1 24V/40mA SES8DY E	1591mm	Meat	11	1140	11,0	104	88	E
91451050	LED LE1731 CW 12L14-XHD2 24V/70mA SES8DY C	1731mm	5000K	12	2650	19,2	138	92	C
91451051	LED LE1731 CW 12L14-XHD2 24V/40mA SES8DY E	1731mm	5000K	12	1530	12,0	128	92	C
91451052	LED LE1731 NW 12L14-XHD2 24V/70mA SES8DY C	1731mm	4000K	12	2650	19,2	138	92	C
91451053	LED LE1731 NW 12L14-XHD2 24V/40mA SES8DY E	1731mm	4000K	12	1530	12,0	128	92	C
91451054	LED LE1731 WW 12L14-XHD2 24V/70mA SES8DY C	1731mm	3000K	12	2560	19,2	133	92	D
91451055	LED LE1731 WW 12L14-XHD2 24V/40mA SES8DY E	1731mm	3000K	12	1490	12,0	124	92	D
91451056	LED LE1731 PM 12L14-XHD1 24V/70mA SES8DY C	1731mm	Meat	12	2140	19,2	111	88	E
91451057	LED LE1731 PM 12L14-XHD1 24V/40mA SES8DY E	1731mm	Meat	12	1240	12,0	103	88	E

Packaging: 12 pieces/carton, 360 pieces/pallet

- Luminous flux min. value = typ. value +/- 15%
- Tolerance mechanical dimensions +/- 1mm
- Tolerance electrical data +/- 15%
- Tolerance optical data +/-15%
- Tolerance min. value CRI +/-2

CONVERTER

Output voltage	24 VDC +10 %
Power driver	= sum of the typical individual power of the light engins + 10 %
Chaining length (in series)	@70mA: max 18 LED modules @40mA: max 25 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

The luminaires 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.

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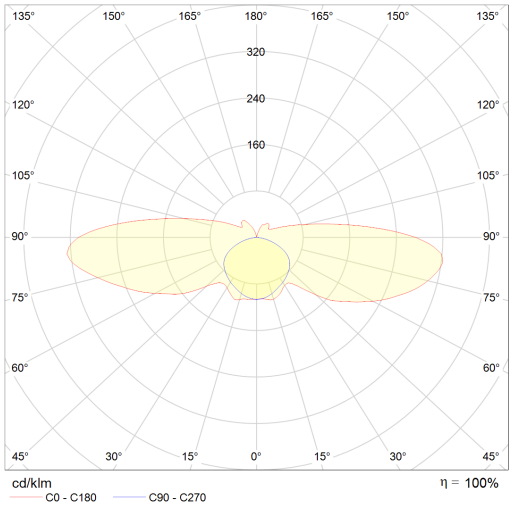
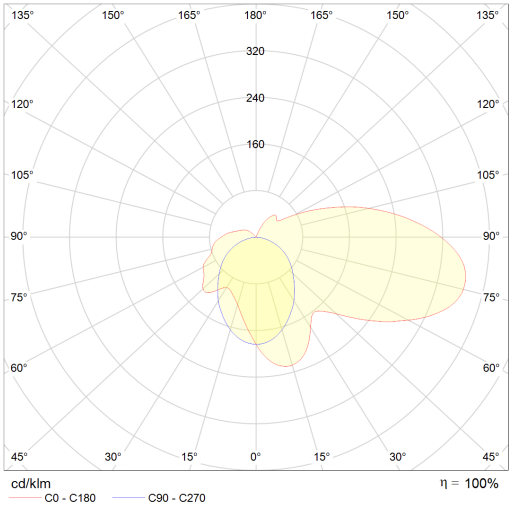
VERTICAL LIGHTING | Sense Line GenX+

OPTICAL PROPERTIES - LUMINAIRE

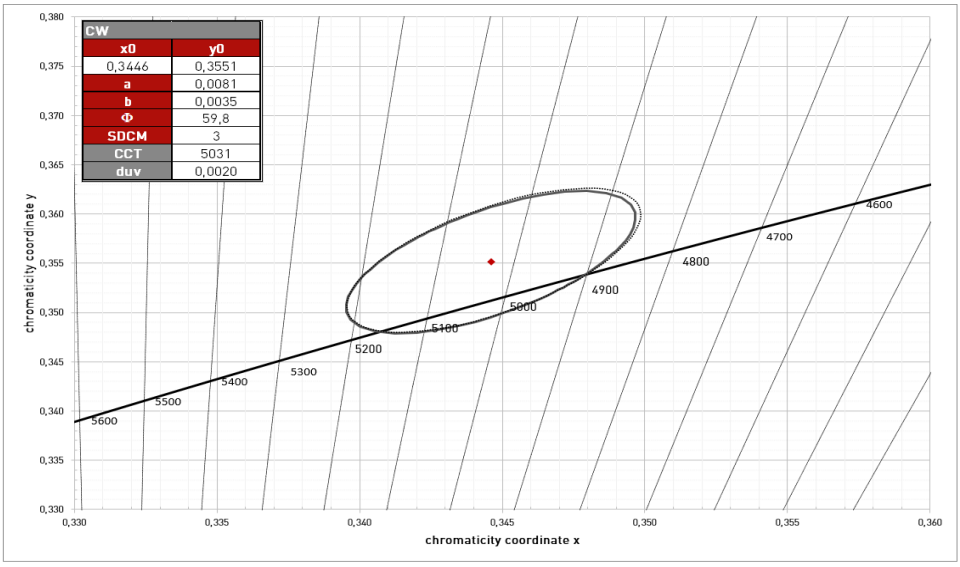
CENTER

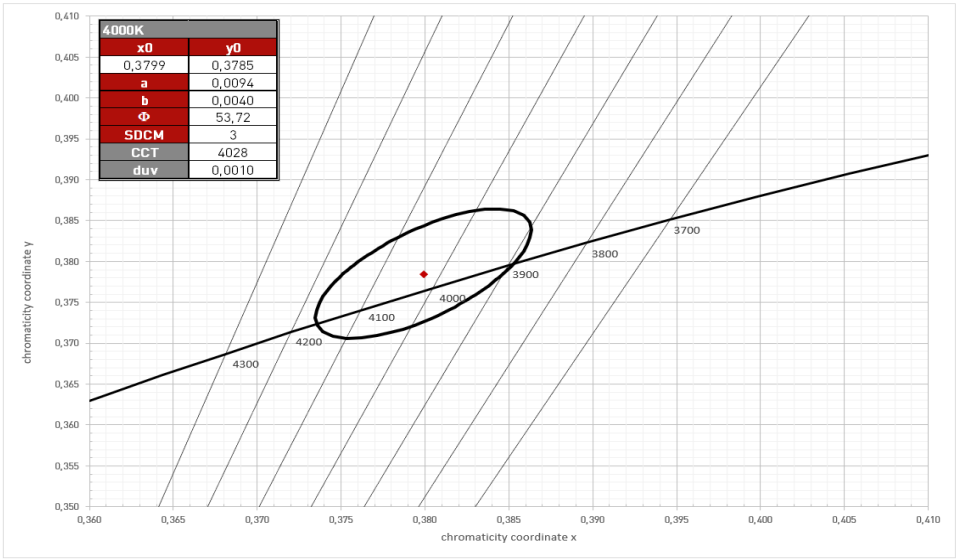


END



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





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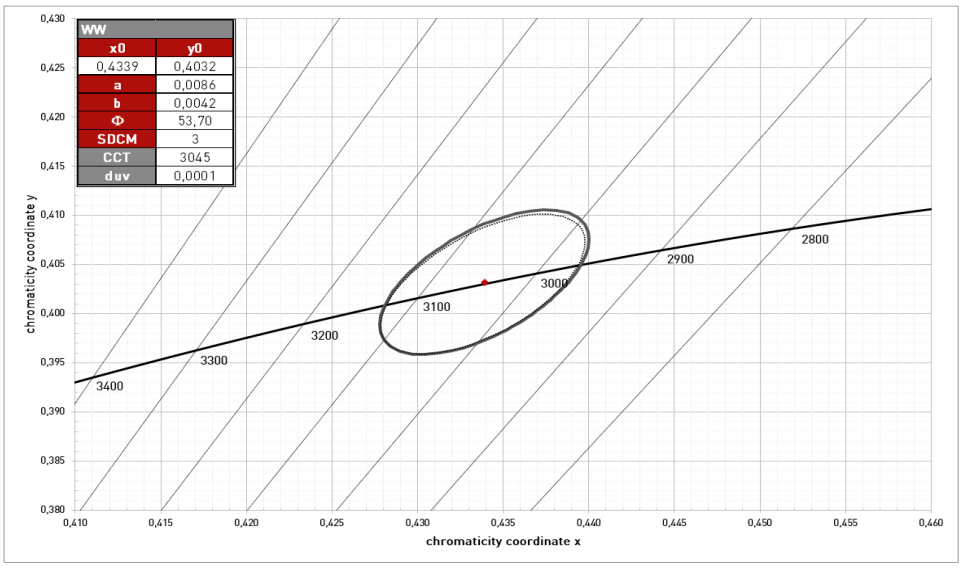

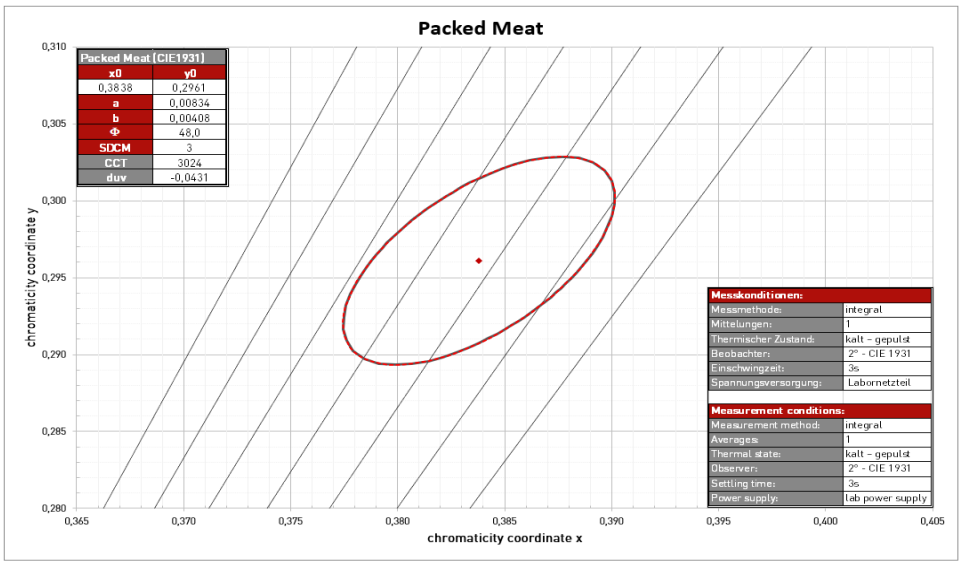

COLOUR KEY

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

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LIFETIME

70.000h (L80 B10)

STANDARDS

- EN 60598-1
- EN 60598-2-1
- EN 62031
- EN 62471
- EN 60335-1, EN 60335-2-24, 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 [1][2]	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.
- Lumitech" accessories must be used. Accessories (e.g. cables) from other manufacturers can lead to failures and damage. The use of these parts will void any warranty claim!
- Luminaires must not be installed next to a cooling or heating outlet!

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