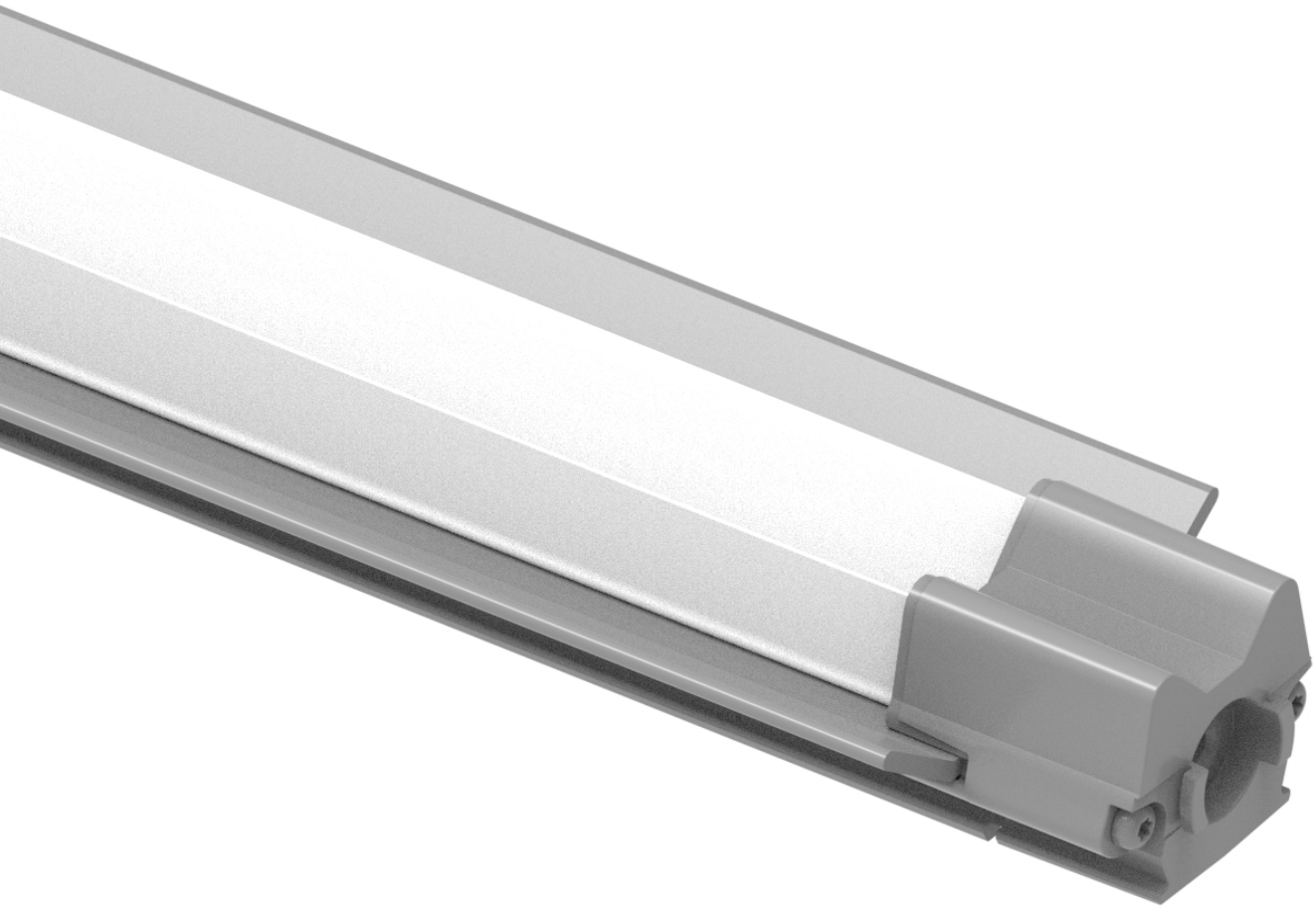
LUMITECH
YOUR LIGHTING SOLUTION



SENSE LINE: Vertical Lighting with blind (IP66)

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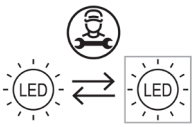
LUMITECH DATASHEET - SENSE LINE: Vertical Lighting with blind (IP66)

PRODUCT DESCRIPTION

- Highly efficient lighting
- Ready-to-connect solution with the „Cinch" cabling system
- One continuous luminaire (without interruptions) for each offered length
- Highly effective performance due to directional lighting and integrated heat dissipation
- Excellent product illumination with a combination of SMD LEDs and innovative optics
- Safe-use operation due safety extra-low voltage (SELV)
- Simple installation with specific fixing clips (available on request)
- Heat sink profile made of extruded LowCarbon Aluminium
- Linear lenses made of Polycarbonate (GWT up to 850°C)
- Endcaps made of PC
- Dimming capability

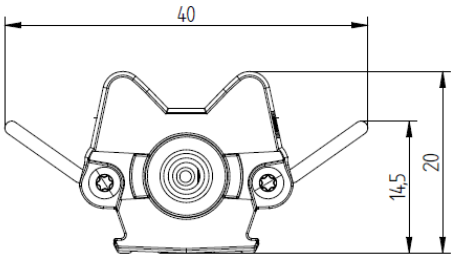
TECHNICAL DATA

Supply voltage	24 VDC
Ambient temperature ta	-30 ... +30 °C
Max. surface temperature on profile tc	60 °C
Type of protection	IP66 - requires protection plug (see Cinch datasheet)
Protection class	III
Risk group (EN 62471:2008)	0

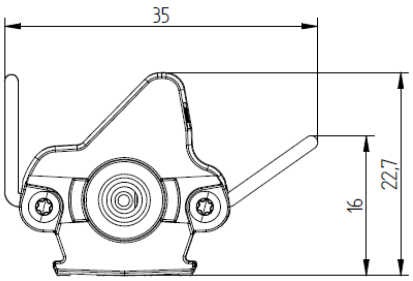


DIMENSIONS

DOOR CENTER LIGHTING WITH BLIND (SDS/CB)



DOOR END LIGHTING WITH BLIND (SDS/EB)



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LUMITECH DATASHEET - SENSE LINE: Vertical Lighting with blind (IP66)

TECHNICAL DATA | ORDER DATA

Art. No.	Type	Length	Light Colour	Series Connection	Efficiency [lm/W]	Luminous flux [lm]	Power [W]	CRI
Door Center Lighting with blind								
tbd.	LUMI SENSE 1027mm 965 24V/80mA/13,4W SDS/CB G1	1027mm	6500K	3	153	2050	13,4	90
tbd.	LUMI SENSE 1027mm 957 24V/80mA/13,4W SDS/CB G1	1027mm	5700K	3	152	2040	13,4	90
tbd.	LUMI SENSE 1027mm 950 24V/80mA/13,4W SDS/CB G1	1027mm	5000K	3	153	2060	13,4	90
tbd.	LUMI SENSE 1027mm 942 24V/80mA/13,4W SDS/CB G1	1027mm	4200K	3	153	2050	13,4	90
tbd.	LUMI SENSE 1027mm 940 24V/80mA/13,4W SDS/CB G1	1027mm	4000K	3	153	2050	13,4	90
tbd.	LUMI SENSE 1027mm 930 24V/80mA/13,4W SDS/CB G1	1027mm	3000K	3	126	1700	13,4	90
tbd.	LUMI SENSE 1027mm NM 24V/80mA/13,4W SDS/CB G1	1027mm	Natural Meat	3	126	1690	13,4	80
tbd.	LUMI SENSE 1027mm PM 24V/80mA/13,4W SDS/CB G1	1027mm	Packed Meat	3	125	1680	13,4	90
tbd.	LUMI SENSE 1167mm 965 24V/80mA/15,4W SDS/CB G1	1167mm	6500K	3	152	2340	15,4	90
tbd.	LUMI SENSE 1167mm 957 24V/80mA/15,4W SDS/CB G1	1167mm	5700K	3	152	2330	15,4	90
tbd.	LUMI SENSE 1167mm 950 24V/80mA/15,4W SDS/CB G1	1167mm	5000K	3	153	2350	15,4	90
91540008	LUMI SENSE 1167mm 942 24V/80mA/15,4W SDS/CB G1	1167mm	4200K	3	152	2340	15,4	90
91540075	LUMI SENSE 1167mm 940 24V/80mA/15,4W SDS/CB G1	1167mm	4000K	3	153	2350	15,4	90
tbd.	LUMI SENSE 1167mm 930 24V/80mA/15,4W SDS/CB G1	1167mm	3000K	3	127	1950	15,4	90
tbd.	LUMI SENSE 1167mm NM 24V/80mA/15,4W SDS/CB G1	1167mm	Natural Meat	3	126	1930	15,4	80
tbd.	LUMI SENSE 1167mm PM 24V/80mA/15,4W SDS/CB G1	1167mm	Packed Meat	3	125	1920	15,4	90
tbd.	LUMI SENSE 1307mm 965 24V/80mA/17,3W SDS/CB G1	1307mm	6500K	3	152	2630	17,3	90
tbd.	LUMI SENSE 1307mm 957 24V/80mA/17,3W SDS/CB G1	1307mm	5700K	3	152	2630	17,3	90
tbd.	LUMI SENSE 1307mm 950 24V/80mA/17,3W SDS/CB G1	1307mm	5000K	3	153	2650	17,3	90
tbd.	LUMI SENSE 1307mm 942 24V/80mA/17,3W SDS/CB G1	1307mm	4200K	3	152	2630	17,3	90
tbd.	LUMI SENSE 1307mm 940 24V/80mA/17,3W SDS/CB G1	1307mm	4000K	3	153	2640	17,3	90
tbd.	LUMI SENSE 1307mm 930 24V/80mA/17,3W SDS/CB G1	1307mm	3000K	3	127	2190	17,3	90
tbd.	LUMI SENSE 1307mm NM 24V/80mA/17,3W SDS/CB G1	1307mm	Natural Meat	3	126	2170	17,3	80
tbd.	LUMI SENSE 1307mm PM 24V/80mA/17,3W SDS/CB G1	1307mm	Packed Meat	3	125	2160	17,3	90
tbd.	LUMI SENSE 1447mm 965 24V/80mA/19,2W SDS/CB G1	1447mm	6500K	2	153	2930	19,2	90
tbd.	LUMI SENSE 1447mm 957 24V/80mA/19,2W SDS/CB G1	1447mm	5700K	2	152	2920	19,2	90
tbd.	LUMI SENSE 1447mm 950 24V/80mA/19,2W SDS/CB G1	1447mm	5000K	2	153	2940	19,2	90
91540092	LUMI SENSE 1447mm 942 24V/80mA/19,2W SDS/CB G1	1447mm	4200K	2	153	2930	19,2	90
91540077	LUMI SENSE 1447mm 940 24V/80mA/19,2W SDS/CB G1	1447mm	4000K	2	153	2930	19,2	90
tbd.	LUMI SENSE 1447mm 930 24V/80mA/19,2W SDS/CB G1	1447mm	3000K	2	127	2430	19,2	90
tbd.	LUMI SENSE 1447mm NM 24V/80mA/19,2W SDS/CB G1	1447mm	Natural Meat	2	126	2410	19,2	80
tbd.	LUMI SENSE 1447mm PM 24V/80mA/19,2W SDS/CB G1	1447mm	Packed Meat	2	125	2400	19,2	90
tbd.	LUMI SENSE 1587mm 965 24V/80mA/21,1W SDS/CB G1	1587mm	6500K	2	152	3220	21,1	90
tbd.	LUMI SENSE 1587mm 957 24V/80mA/21,1W SDS/CB G1	1587mm	5700K	2	152	3210	21,1	90
tbd.	LUMI SENSE 1587mm 950 24V/80mA/21,1W SDS/CB G1	1587mm	5000K	2	153	3230	21,1	90
91540210	LUMI SENSE 1587mm 942 24V/80mA/21,1W SDS/CB G1	1587mm	4200K	2	152	3220	21,1	90
91540079	LUMI SENSE 1587mm 940 24V/80mA/21,1W SDS/CB G1	1587mm	4000K	2	153	3230	21,1	90
tbd.	LUMI SENSE 1587mm 930 24V/80mA/21,1W SDS/CB G1	1587mm	3000K	2	127	2680	21,1	90
tbd.	LUMI SENSE 1587mm NM 24V/80mA/21,1W SDS/CB G1	1587mm	Natural Meat	2	125	2650	21,1	80
tbd.	LUMI SENSE 1587mm PM 24V/80mA/21,1W SDS/CB G1	1587mm	Packed Meat	2	125	2640	21,1	90
tbd.	LUMI SENSE 1680mm 965 24V/80mA/22,4W SDS/CB G1	1680mm	6500K	2	152	3410	22,4	90
tbd.	LUMI SENSE 1680mm 957 24V/80mA/22,4W SDS/CB G1	1680mm	5700K	2	152	3400	22,4	90
tbd.	LUMI SENSE 1680mm 950 24V/80mA/22,4W SDS/CB G1	1680mm	5000K	2	153	3430	22,4	90
tbd.	LUMI SENSE 1680mm 942 24V/80mA/22,4W SDS/CB G1	1680mm	4200K	2	152	3410	22,4	90
tbd.	LUMI SENSE 1680mm 940 24V/80mA/22,4W SDS/CB G1	1680mm	4000K	2	153	3420	22,4	90
tbd.	LUMI SENSE 1680mm 930 24V/80mA/22,4W SDS/CB G1	1680mm	3000K	2	127	2840	22,4	90
tbd.	LUMI SENSE 1680mm NM 24V/80mA/22,4W SDS/CB G1	1680mm	Natural Meat	2	125	2810	22,4	80
tbd.	LUMI SENSE 1680mm PM 24V/80mA/22,4W SDS/CB G1	1680mm	Packed Meat	2	125	2800	22,4	90

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LUMITECH DATASHEET - SENSE LINE: Vertical Lighting with blind (IP66)

TECHNICAL DATA | ORDER DATA

Art. No.	Type	Length	Light Colour	Series Connection	Efficiency [lm/W]	Luminous flux [lm]	Power [W]	CRI
tbd.	LUMI SENSE 1727mm 965 24V/80mA/23,0W SDS/CB G1	1727mm	6500K	2	152	3510	23,0	90
tbd.	LUMI SENSE 1727mm 957 24V/80mA/23,0W SDS/CB G1	1727mm	5700K	2	152	3500	23,0	90
tbd.	LUMI SENSE 1727mm 950 24V/80mA/23,0W SDS/CB G1	1727mm	5000K	2	153	3530	23,0	90
tbd.	LUMI SENSE 1727mm 942 24V/80mA/23,0W SDS/CB G1	1727mm	4200K	2	152	3510	23,0	90
tbd.	LUMI SENSE 1727mm 940 24V/80mA/23,0W SDS/CB G1	1727mm	4000K	2	153	3520	23,0	90
tbd.	LUMI SENSE 1727mm 930 24V/80mA/23,0W SDS/CB G1	1727mm	3000K	2	127	2920	23,0	90
tbd.	LUMI SENSE 1727mm NM 24V/80mA/23,0W SDS/CB G1	1727mm	Natural Meat	2	125	2890	23,0	80
tbd.	LUMI SENSE 1727mm PM 24V/80mA/23,0W SDS/CB G1	1727mm	Packed Meat	2	125	2880	23,0	90
Door End Lighting with blind								
tbd.	LUMI SENSE 1027mm 965 24V/40mA/6,7W SDS/EB G1	1027mm	6500K	4	153	1030	6,7	90
tbd.	LUMI SENSE 1027mm 957 24V/40mA/6,7W SDS/EB G1	1027mm	5700K	4	153	1030	6,7	90
tbd.	LUMI SENSE 1027mm 950 24V/40mA/6,7W SDS/EB G1	1027mm	5000K	4	153	1030	6,7	90
tbd.	LUMI SENSE 1027mm 942 24V/40mA/6,7W SDS/EB G1	1027mm	4200K	4	153	1030	6,7	90
tbd.	LUMI SENSE 1027mm 940 24V/40mA/6,7W SDS/EB G1	1027mm	4000K	4	153	1030	6,7	90
tbd.	LUMI SENSE 1027mm 930 24V/40mA/6,7W SDS/EB G1	1027mm	3000K	4	128	860	6,7	90
tbd.	LUMI SENSE 1027mm NM 24V/40mA/6,7W SDS/EB G1	1027mm	Natural Meat	4	128	860	6,7	80
tbd.	LUMI SENSE 1027mm PM 24V/40mA/6,7W SDS/EB G1	1027mm	Packed Meat	4	126	850	6,7	90
tbd.	LUMI SENSE 1167mm 965 24V/40mA/7,7W SDS/EB G1	1167mm	6500K	4	152	1170	7,7	90
tbd.	LUMI SENSE 1167mm 957 24V/40mA/7,7W SDS/EB G1	1167mm	5700K	4	152	1170	7,7	90
tbd.	LUMI SENSE 1167mm 950 24V/40mA/7,7W SDS/EB G1	1167mm	5000K	4	154	1180	7,7	90
tbd.	LUMI SENSE 1167mm 942 24V/40mA/7,7W SDS/EB G1	1167mm	4200K	4	154	1180	7,7	90
91540076	LUMI SENSE 1167mm 940 24V/40mA/7,7W SDS/EB G1	1167mm	4000K	4	152	1170	7,7	90
tbd.	LUMI SENSE 1167mm 930 24V/40mA/7,7W SDS/EB G1	1167mm	3000K	4	128	980	7,7	90
tbd.	LUMI SENSE 1167mm NM 24V/40mA/7,7W SDS/EB G1	1167mm	Natural Meat	4	128	980	7,7	80
tbd.	LUMI SENSE 1167mm PM 24V/40mA/7,7W SDS/EB G1	1167mm	Packed Meat	4	126	970	7,7	90
tbd.	LUMI SENSE 1307mm 965 24V/40mA/8,6W SDS/EB G1	1307mm	6500K	3	153	1320	8,6	90
tbd.	LUMI SENSE 1307mm 957 24V/40mA/8,6W SDS/EB G1	1307mm	5700K	3	153	1320	8,6	90
tbd.	LUMI SENSE 1307mm 950 24V/40mA/8,6W SDS/EB G1	1307mm	5000K	3	154	1330	8,6	90
tbd.	LUMI SENSE 1307mm 942 24V/40mA/8,6W SDS/EB G1	1307mm	4200K	3	154	1330	8,6	90
tbd.	LUMI SENSE 1307mm 940 24V/40mA/8,6W SDS/EB G1	1307mm	4000K	3	153	1320	8,6	90
tbd.	LUMI SENSE 1307mm 930 24V/40mA/8,6W SDS/EB G1	1307mm	3000K	3	127	1100	8,6	90
tbd.	LUMI SENSE 1307mm NM 24V/40mA/8,6W SDS/EB G1	1307mm	Natural Meat	3	127	1100	8,6	80
tbd.	LUMI SENSE 1307mm PM 24V/40mA/8,6W SDS/EB G1	1307mm	Packed Meat	3	127	1100	8,6	90
tbd.	LUMI SENSE 1447mm 965 24V/40mA/9,6W SDS/EB G1	1447mm	6500K	3	153	1470	9,6	90
tbd.	LUMI SENSE 1447mm 957 24V/40mA/9,6W SDS/EB G1	1447mm	5700K	3	153	1470	9,6	90
tbd.	LUMI SENSE 1447mm 950 24V/40mA/9,6W SDS/EB G1	1447mm	5000K	3	153	1470	9,6	90
tbd.	LUMI SENSE 1447mm 942 24V/40mA/9,6W SDS/EB G1	1447mm	4200K	3	153	1470	9,6	90
91540078	LUMI SENSE 1447mm 940 24V/40mA/9,6W SDS/EB G1	1447mm	4000K	3	153	1470	9,6	90
tbd.	LUMI SENSE 1447mm 930 24V/40mA/9,6W SDS/EB G1	1447mm	3000K	3	127	1220	9,6	90
tbd.	LUMI SENSE 1447mm NM 24V/40mA/9,6W SDS/EB G1	1447mm	Natural Meat	3	127	1220	9,6	80
tbd.	LUMI SENSE 1447mm PM 24V/40mA/9,6W SDS/EB G1	1447mm	Packed Meat	3	127	1220	9,6	90
tbd.	LUMI SENSE 1587mm 965 24V/40mA/10,6W SDS/EB G1	1587mm	6500K	3	152	1610	10,6	90
tbd.	LUMI SENSE 1587mm 957 24V/40mA/10,6W SDS/EB G1	1587mm	5700K	3	152	1610	10,6	90
tbd.	LUMI SENSE 1587mm 950 24V/40mA/10,6W SDS/EB G1	1587mm	5000K	3	153	1620	10,6	90
91540211	LUMI SENSE 1587mm 942 24V/40mA/10,6W SDS/EB G1	1587mm	4200K	3	153	1620	10,6	90
91540080	LUMI SENSE 1587mm 940 24V/40mA/10,6W SDS/EB G1	1587mm	4000K	3	152	1610	10,6	90
tbd.	LUMI SENSE 1587mm 930 24V/40mA/10,6W SDS/EB G1	1587mm	3000K	3	128	1350	10,6	90
tbd.	LUMI SENSE 1587mm NM 24V/40mA/10,6W SDS/EB G1	1587mm	Natural Meat	3	128	1350	10,6	80
tbd.	LUMI SENSE 1587mm PM 24V/40mA/10,6W SDS/EB G1	1587mm	Packed Meat	3	127	1340	10,6	90

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LUMITECH DATASHEET - SENSE LINE: Vertical Lighting with blind (IP66)

TECHNICAL DATA | ORDER DATA

Art. No.	Type	Length	Light Colour	Series Connection	Efficiency [lm/W]	Luminous flux [lm]	Power [W]	CRI
tbd.	**LUMI SENSE 1680mm 965 24V/40mA/11,2W SDS/EB G1**	1680mm	6500K	3	153	1710	11,2	90
tbd.	**LUMI SENSE 1680mm 957 24V/40mA/11,2W SDS/EB G1**	1680mm	5700K	3	153	1710	11,2	90
tbd.	**LUMI SENSE 1680mm 950 24V/40mA/11,2W SDS/EB G1**	1680mm	5000K	3	154	1720	11,2	90
tbd.	**LUMI SENSE 1680mm 942 24V/40mA/11,2W SDS/EB G1**	1680mm	4200K	3	154	1720	11,2	90
tbd.	**LUMI SENSE 1680mm 940 24V/40mA/11,2W SDS/EB G1**	1680mm	4000K	3	153	1710	11,2	90
tbd.	**LUMI SENSE 1680mm 930 24V/40mA/11,2W SDS/EB G1**	1680mm	3000K	3	128	1430	11,2	90
tbd.	**LUMI SENSE 1680mm NM 24V/40mA/11,2W SDS/EB G1**	1680mm	Natural Meat	3	128	1430	11,2	80
tbd.	**LUMI SENSE 1680mm PM 24V/40mA/11,2W SDS/EB G1**	1680mm	Packed Meat	3	127	1420	11,2	90
tbd.	**LUMI SENSE 1727mm 965 24V/40mA/11,5W SDS/EB G1**	1727mm	6500K	2	153	1760	11,5	90
tbd.	**LUMI SENSE 1727mm 957 24V/40mA/11,5W SDS/EB G1**	1727mm	5700K	2	153	1760	11,5	90
tbd.	**LUMI SENSE 1727mm 950 24V/40mA/11,5W SDS/EB G1**	1727mm	5000K	2	154	1770	11,5	90
tbd.	**LUMI SENSE 1727mm 942 24V/40mA/11,5W SDS/EB G1**	1727mm	4200K	2	154	1770	11,5	90
tbd.	**LUMI SENSE 1727mm 940 24V/40mA/11,5W SDS/EB G1**	1727mm	4000K	2	153	1760	11,5	90
tbd.	**LUMI SENSE 1727mm 930 24V/40mA/11,5W SDS/EB G1**	1727mm	3000K	2	128	1470	11,5	90
tbd.	**LUMI SENSE 1727mm NM 24V/40mA/11,5W SDS/EB G1**	1727mm	Natural Meat	2	128	1470	11,5	80
tbd.	**LUMI SENSE 1727mm PM 24V/40mA/11,5W SDS/EB G1**	1727mm	Packed Meat	2	127	1460	11,5	90

Packaging: 12 pieces/carton, 360 pieces/pallet

- All typical values for Ta=25°C +/- 2°C
- Luminous flux = typ. value +/– 20%
- Tolerance mechanical dimensions +/- 1mm
- Tolerance electrical data +/- 15%
- Tolerance optical data +/-15%
- Tolerance min. value CRI +/-2 (valid for LED chips)
- Energy Efficiency class (valid for light source): on request

CONVERTER

Output voltage	24 VDC +10 %
Power driver	= sum of the typical individual power of the light engins + 10 %

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

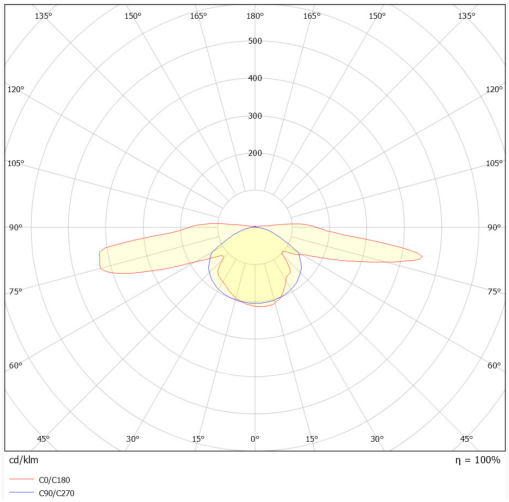
The luminaires must be operated on 24V constant voltage LED drivers, only.
Operation on a constant current LED driver will result in irreversible damage to the luminaire.
Reverse polarity can damage the luminaire.

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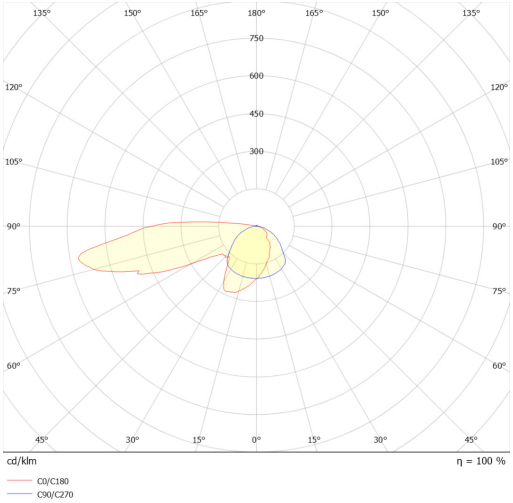
LUMITECH DATASHEET - SENSE LINE: Vertical Lighting with blind (IP66)

OPTICAL PROPERTIES - LUMINAIRE

DOOR CENTER LIGHTING WITH BLIND (SDS/CB)



DOOR END LIGHTING WITH BLIND (SDS/EB)



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, NSF, 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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