LUMITECH
YOUR LIGHTING SOLUTION



SENSE LINE: Vertical Lighting (IP66)

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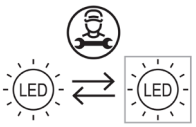
LUMITECH DATASHEET - SENSE LINE: Vertical Lighting (IP66)

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

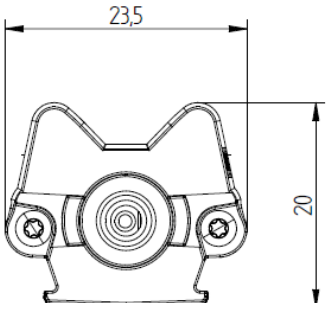
TECHNICAL DATA

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

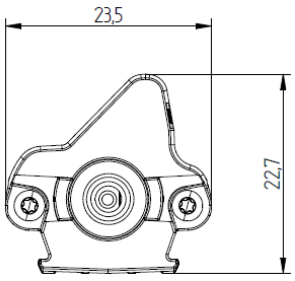


DIMENSIONS

DOOR CENTER LIGHTING (SDS/C)



DOOR END LIGHTING (SDS/E)



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TECHNICAL DATA | ORDER DATA

Art. No.	Type	Length	Light Colour	Series Connection	Efficiency [lm/W]	Luminous flux [lm]	Power [W]	CRI
Door Center Lighting								
tbd.	LUMI SENSE 1027mm 965 24V/80mA/13,4W SDS/C G1	1027mm	6500K	3	160	2150	13,4	90
tbd.	LUMI SENSE 1027mm 957 24V/80mA/13,4W SDS/C G1	1027mm	5700K	3	160	2150	13,4	90
tbd.	LUMI SENSE 1027mm 950 24V/80mA/13,4W SDS/C G1	1027mm	5000K	3	161	2160	13,4	90
91540040	LUMI SENSE 1027mm 942 24V/80mA/13,4W SDS/C G1	1027mm	4200K	3	160	2150	13,4	90
tbd.	LUMI SENSE 1027mm 940 24V/80mA/13,4W SDS/C G1	1027mm	4000K	3	161	2160	13,4	90
91540042	LUMI SENSE 1027mm 930 24V/80mA/13,4W SDS/C G1	1027mm	3000K	3	133	1790	13,4	90
91540044	LUMI SENSE 1027mm NM 24V/80mA/13,4W SDS/C G1	1027mm	Natural Meat	3	132	1770	13,4	80
tbd.	LUMI SENSE 1027mm PM 24V/80mA/13,4W SDS/C G1	1027mm	Packed Meat	3	132	1770	13,4	90
tbd.	LUMI SENSE 1167mm 965 24V/80mA/15,4W SDS/C G1	1167mm	6500K	3	160	2460	15,4	90
91540046	LUMI SENSE 1167mm 957 24V/80mA/15,4W SDS/C G1	1167mm	5700K	3	160	2450	15,4	90
tbd.	LUMI SENSE 1167mm 950 24V/80mA/15,4W SDS/C G1	1167mm	5000K	3	161	2470	15,4	90
91540294	LUMI SENSE 1167mm 942 24V/80mA/15,4W SDS/C G1	1167mm	4200K	3	160	2460	15,4	90
tbd.	LUMI SENSE 1167mm 940 24V/80mA/15,4W SDS/C G1	1167mm	4000K	3	161	2470	15,4	90
tbd.	LUMI SENSE 1167mm 930 24V/80mA/15,4W SDS/C G1	1167mm	3000K	3	133	2050	15,4	90
91540033	LUMI SENSE 1167mm NM 24V/80mA/15,4W SDS/C G1	1167mm	Natural Meat	3	132	2030	15,4	80
tbd.	LUMI SENSE 1167mm PM 24V/80mA/15,4W SDS/C G1	1167mm	Packed Meat	3	132	2020	15,4	90
tbd.	LUMI SENSE 1307mm 965 24V/80mA/17,3W SDS/C G1	1307mm	6500K	3	160	2770	17,3	90
tbd.	LUMI SENSE 1307mm 957 24V/80mA/17,3W SDS/C G1	1307mm	5700K	3	160	2760	17,3	90
tbd.	LUMI SENSE 1307mm 950 24V/80mA/17,3W SDS/C G1	1307mm	5000K	3	161	2780	17,3	90
tbd.	LUMI SENSE 1307mm 942 24V/80mA/17,3W SDS/C G1	1307mm	4200K	3	160	2770	17,3	90
tbd.	LUMI SENSE 1307mm 940 24V/80mA/17,3W SDS/C G1	1307mm	4000K	3	160	2770	17,3	90
tbd.	LUMI SENSE 1307mm 930 24V/80mA/17,3W SDS/C G1	1307mm	3000K	3	133	2300	17,3	90
tbd.	LUMI SENSE 1307mm NM 24V/80mA/17,3W SDS/C G1	1307mm	Natural Meat	3	132	2280	17,3	80
tbd.	LUMI SENSE 1307mm PM 24V/80mA/17,3W SDS/C G1	1307mm	Packed Meat	3	131	2270	17,3	90
tbd.	LUMI SENSE 1447mm 965 24V/80mA/19,2W SDS/C G1	1447mm	6500K	2	160	3080	19,2	90
91540047	LUMI SENSE 1447mm 957 24V/80mA/19,2W SDS/C G1	1447mm	5700K	2	160	3070	19,2	90
91540296	LUMI SENSE 1447mm 950 24V/80mA/19,2W SDS/C G1	1447mm	5000K	2	161	3090	19,2	90
91540027	LUMI SENSE 1447mm 942 24V/80mA/19,2W SDS/C G1	1447mm	4200K	2	160	3080	19,2	90
91540002	LUMI SENSE 1447mm 940 24V/80mA/19,2W SDS/C G1	1447mm	4000K	2	160	3080	19,2	90
91540030	LUMI SENSE 1447mm 930 24V/80mA/19,2W SDS/C G1	1447mm	3000K	2	133	2560	19,2	90
91540034	LUMI SENSE 1447mm NM 24V/80mA/19,2W SDS/C G1	1447mm	Natural Meat	2	132	2530	19,2	80
tbd.	LUMI SENSE 1447mm PM 24V/80mA/19,2W SDS/C G1	1447mm	Packed Meat	2	132	2530	19,2	90
tbd.	LUMI SENSE 1587mm 965 24V/80mA/21,1W SDS/C G1	1587mm	6500K	2	160	3380	21,1	90
tbd.	LUMI SENSE 1587mm 957 24V/80mA/21,1W SDS/C G1	1587mm	5700K	2	160	3370	21,1	90
tbd.	LUMI SENSE 1587mm 950 24V/80mA/21,1W SDS/C G1	1587mm	5000K	2	161	3400	21,1	90
tbd.	LUMI SENSE 1587mm 942 24V/80mA/21,1W SDS/C G1	1587mm	4200K	2	160	3380	21,1	90
tbd.	LUMI SENSE 1587mm 940 24V/80mA/21,1W SDS/C G1	1587mm	4000K	2	161	3390	21,1	90
tbd.	LUMI SENSE 1587mm 930 24V/80mA/21,1W SDS/C G1	1587mm	3000K	2	133	2810	21,1	90
tbd.	LUMI SENSE 1587mm NM 24V/80mA/21,1W SDS/C G1	1587mm	Natural Meat	2	132	2790	21,1	80
tbd.	LUMI SENSE 1587mm PM 24V/80mA/21,1W SDS/C G1	1587mm	Packed Meat	2	132	2780	21,1	90
tbd.	LUMI SENSE 1680mm 965 24V/80mA/22,4W SDS/C G1	1680mm	6500K	2	160	3590	22,4	90
91540275	LUMI SENSE 1680mm 957 24V/80mA/22,4W SDS/C G1	1680mm	5700K	2	160	3580	22,4	90
91540297	LUMI SENSE 1680mm 950 24V/80mA/22,4W SDS/C G1	1680mm	5000K	2	161	3610	22,4	90
91540028	LUMI SENSE 1680mm 942 24V/80mA/22,4W SDS/C G1	1680mm	4200K	2	160	3590	22,4	90
91540295	LUMI SENSE 1680mm 940 24V/80mA/22,4W SDS/C G1	1680mm	4000K	2	161	3600	22,4	90
91540031	LUMI SENSE 1680mm 930 24V/80mA/22,4W SDS/C G1	1680mm	3000K	2	133	2980	22,4	90
91540035	LUMI SENSE 1680mm NM 24V/80mA/22,4W SDS/C G1	1680mm	Natural Meat	2	132	2960	22,4	80
tbd.	LUMI SENSE 1680mm PM 24V/80mA/22,4W SDS/C G1	1680mm	Packed Meat	2	132	2950	22,4	90

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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/C G1	1727mm	6500K	2	160	3690	23,0	90
91540048	LUMI SENSE 1727mm 957 24V/80mA/23,0W SDS/C G1	1727mm	5700K	2	160	3680	23,0	90
tbd.	LUMI SENSE 1727mm 950 24V/80mA/23,0W SDS/C G1	1727mm	5000K	2	161	3710	23,0	90
91540041	LUMI SENSE 1727mm 942 24V/80mA/23,0W SDS/C G1	1727mm	4200K	2	160	3690	23,0	90
tbd.	LUMI SENSE 1727mm 940 24V/80mA/23,0W SDS/C G1	1727mm	4000K	2	161	3700	23,0	90
91540043	LUMI SENSE 1727mm 930 24V/80mA/23,0W SDS/C G1	1727mm	3000K	2	133	3070	23,0	90
91540036	LUMI SENSE 1727mm NM 24V/80mA/23,0W SDS/C G1	1727mm	Natural Meat	2	132	3040	23,0	80
tbd.	LUMI SENSE 1727mm PM 24V/80mA/23,0W SDS/C G1	1727mm	Packed Meat	2	132	3030	23,0	90
Door End Lighting								
tbd.	LUMI SENSE 1027mm 965 24V/40mA/6,7W SDS/E G1	1027mm	6500K	4	156	1050	6,7	90
tbd.	LUMI SENSE 1027mm 957 24V/40mA/6,7W SDS/E G1	1027mm	5700K	4	156	1050	6,7	90
tbd.	LUMI SENSE 1027mm 950 24V/40mA/6,7W SDS/E G1	1027mm	5000K	4	158	1060	6,7	90
tbd.	LUMI SENSE 1027mm 942 24V/40mA/6,7W SDS/E G1	1027mm	4200K	4	158	1060	6,7	90
tbd.	LUMI SENSE 1027mm 940 24V/40mA/6,7W SDS/E G1	1027mm	4000K	4	156	1050	6,7	90
tbd.	LUMI SENSE 1027mm 930 24V/40mA/6,7W SDS/E G1	1027mm	3000K	4	131	880	6,7	90
tbd.	LUMI SENSE 1027mm NM 24V/40mA/6,7W SDS/E G1	1027mm	Natural Meat	4	131	880	6,7	80
tbd.	LUMI SENSE 1027mm PM 24V/40mA/6,7W SDS/E G1	1027mm	Packed Meat	4	129	870	6,7	90
tbd.	LUMI SENSE 1167mm 965 24V/40mA/7,7W SDS/E G1	1167mm	6500K	4	156	1200	7,7	90
tbd.	LUMI SENSE 1167mm 957 24V/40mA/7,7W SDS/E G1	1167mm	5700K	4	156	1200	7,7	90
tbd.	LUMI SENSE 1167mm 950 24V/40mA/7,7W SDS/E G1	1167mm	5000K	4	158	1210	7,7	90
91540019	LUMI SENSE 1167mm 942 24V/40mA/7,7W SDS/E G1	1167mm	4200K	4	158	1210	7,7	90
tbd.	LUMI SENSE 1167mm 940 24V/40mA/7,7W SDS/E G1	1167mm	4000K	4	156	1200	7,7	90
tbd.	LUMI SENSE 1167mm 930 24V/40mA/7,7W SDS/E G1	1167mm	3000K	4	130	1000	7,7	90
tbd.	LUMI SENSE 1167mm NM 24V/40mA/7,7W SDS/E G1	1167mm	Natural Meat	4	130	1000	7,7	80
tbd.	LUMI SENSE 1167mm PM 24V/40mA/7,7W SDS/E G1	1167mm	Packed Meat	4	130	1000	7,7	90
tbd.	LUMI SENSE 1307mm 965 24V/40mA/8,6W SDS/E G1	1307mm	6500K	3	156	1350	8,6	90
tbd.	LUMI SENSE 1307mm 957 24V/40mA/8,6W SDS/E G1	1307mm	5700K	3	156	1350	8,6	90
tbd.	LUMI SENSE 1307mm 950 24V/40mA/8,6W SDS/E G1	1307mm	5000K	3	157	1360	8,6	90
tbd.	LUMI SENSE 1307mm 942 24V/40mA/8,6W SDS/E G1	1307mm	4200K	3	157	1360	8,6	90
tbd.	LUMI SENSE 1307mm 940 24V/40mA/8,6W SDS/E G1	1307mm	4000K	3	156	1350	8,6	90
tbd.	LUMI SENSE 1307mm 930 24V/40mA/8,6W SDS/E G1	1307mm	3000K	3	131	1130	8,6	90
tbd.	LUMI SENSE 1307mm NM 24V/40mA/8,6W SDS/E G1	1307mm	Natural Meat	3	131	1130	8,6	80
tbd.	LUMI SENSE 1307mm PM 24V/40mA/8,6W SDS/E G1	1307mm	Packed Meat	3	130	1120	8,6	90
tbd.	LUMI SENSE 1447mm 965 24V/40mA/9,6W SDS/E G1	1447mm	6500K	3	156	1500	9,6	90
tbd.	LUMI SENSE 1447mm 957 24V/40mA/9,6W SDS/E G1	1447mm	5700K	3	156	1500	9,6	90
tbd.	LUMI SENSE 1447mm 950 24V/40mA/9,6W SDS/E G1	1447mm	5000K	3	157	1510	9,6	90
tbd.	LUMI SENSE 1447mm 942 24V/40mA/9,6W SDS/E G1	1447mm	4200K	3	157	1510	9,6	90
91540265	LUMI SENSE 1447mm 940 24V/40mA/9,6W SDS/E G1	1447mm	4000K	3	156	1500	9,6	90
tbd.	LUMI SENSE 1447mm 930 24V/40mA/9,6W SDS/E G1	1447mm	3000K	3	131	1260	9,6	90
tbd.	LUMI SENSE 1447mm NM 24V/40mA/9,6W SDS/E G1	1447mm	Natural Meat	3	131	1260	9,6	80
tbd.	LUMI SENSE 1447mm PM 24V/40mA/9,6W SDS/E G1	1447mm	Packed Meat	3	130	1250	9,6	90
tbd.	LUMI SENSE 1587mm 965 24V/40mA/10,6W SDS/E G1	1587mm	6500K	3	156	1650	10,6	90
tbd.	LUMI SENSE 1587mm 957 24V/40mA/10,6W SDS/E G1	1587mm	5700K	3	156	1650	10,6	90
tbd.	LUMI SENSE 1587mm 950 24V/40mA/10,6W SDS/E G1	1587mm	5000K	3	157	1660	10,6	90
tbd.	LUMI SENSE 1587mm 942 24V/40mA/10,6W SDS/E G1	1587mm	4200K	3	157	1660	10,6	90
91540241	LUMI SENSE 1587mm 940 24V/40mA/10,6W SDS/E G1	1587mm	4000K	3	156	1650	10,6	90
tbd.	LUMI SENSE 1587mm 930 24V/40mA/10,6W SDS/E G1	1587mm	3000K	3	131	1380	10,6	90
tbd.	LUMI SENSE 1587mm NM 24V/40mA/10,6W SDS/E G1	1587mm	Natural Meat	3	131	1380	10,6	80
tbd.	LUMI SENSE 1587mm PM 24V/40mA/10,6W SDS/E G1	1587mm	Packed Meat	3	130	1370	10,6	90

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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/E G1	1680mm	6500K	3	156	1750	11,2	90
tbd.	LUMI SENSE 1680mm 957 24V/40mA/11,2W SDS/E G1	1680mm	5700K	3	156	1750	11,2	90
tbd.	LUMI SENSE 1680mm 950 24V/40mA/11,2W SDS/E G1	1680mm	5000K	3	157	1760	11,2	90
tbd.	LUMI SENSE 1680mm 942 24V/40mA/11,2W SDS/E G1	1680mm	4200K	3	157	1760	11,2	90
tbd.	LUMI SENSE 1680mm 940 24V/40mA/11,2W SDS/E G1	1680mm	4000K	3	156	1750	11,2	90
tbd.	LUMI SENSE 1680mm 930 24V/40mA/11,2W SDS/E G1	1680mm	3000K	3	131	1470	11,2	90
tbd.	LUMI SENSE 1680mm NM 24V/40mA/11,2W SDS/E G1	1680mm	Natural Meat	3	131	1470	11,2	80
tbd.	LUMI SENSE 1680mm PM 24V/40mA/11,2W SDS/E G1	1680mm	Packed Meat	3	130	1460	11,2	90
tbd.	LUMI SENSE 1727mm 965 24V/40mA/11,5W SDS/E G1	1727mm	6500K	2	156	1800	11,5	90
tbd.	LUMI SENSE 1727mm 957 24V/40mA/11,5W SDS/E G1	1727mm	5700K	2	156	1800	11,5	90
tbd.	LUMI SENSE 1727mm 950 24V/40mA/11,5W SDS/E G1	1727mm	5000K	2	157	1810	11,5	90
tbd.	LUMI SENSE 1727mm 942 24V/40mA/11,5W SDS/E G1	1727mm	4200K	2	157	1810	11,5	90
tbd.	LUMI SENSE 1727mm 940 24V/40mA/11,5W SDS/E G1	1727mm	4000K	2	156	1800	11,5	90
tbd.	LUMI SENSE 1727mm 930 24V/40mA/11,5W SDS/E G1	1727mm	3000K	2	131	1510	11,5	90
tbd.	LUMI SENSE 1727mm NM 24V/40mA/11,5W SDS/E G1	1727mm	Natural Meat	2	131	1510	11,5	80
tbd.	LUMI SENSE 1727mm PM 24V/40mA/11,5W SDS/E G1	1727mm	Packed Meat	2	130	1500	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

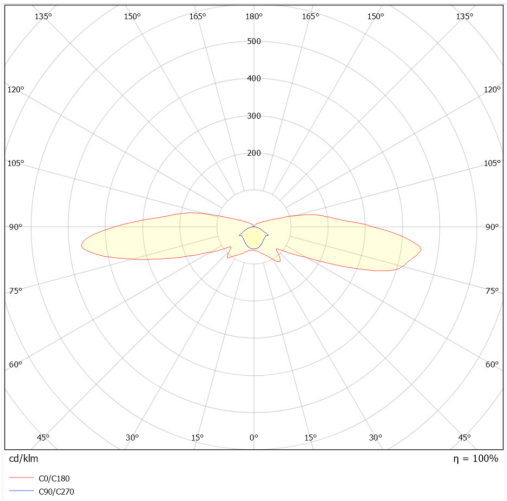
The luminaires must be operated on 24V constant voltage LED drivers, only.
Operation on a constant current LED driver will result in irreversible damage to the luminaire.
Reverse polarity can damage the luminaire.

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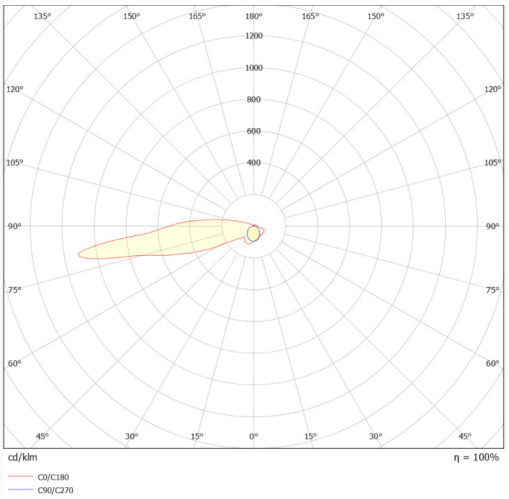
LUMITECH DATASHEET - SENSE LINE: Vertical Lighting (IP66)

OPTICAL PROPERTIES - LUMINAIRE

DOOR CENTER LIGHTING (SDS/C)



DOOR END LIGHTING (SDS/E)



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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