

Door Cooler Lighting

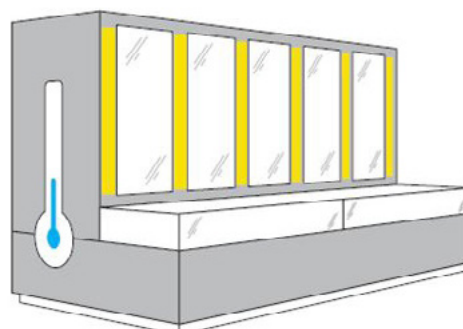
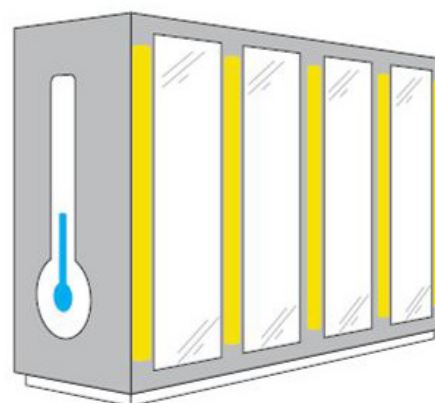
REFRIGERATORS & FREEZERS LUMINAIRES

FEATURES & BENEFITS

- Efficient, extra slim lighting for refrigeration equipment doors
- Available in a variety of light colours and can be matched to specific food types
- Ready-to-connect solution
- High operational performance due to directional lighting, integrated heat removal and highly efficient LEDs
- Excellent product illumination thanks to the combination of SMD LEDs and innovative optics
- Safe-use operation due safety extra-low voltage (SELV)
- Simple installation with endcaps or fixing plates (optional also tape)
- Heat sink profile made of anodised, extruded aluminium
- LED modules protected against moisture & dust by Conformal coating
- Length of connecting cable 2,4 m
- End caps made of PBT
- Linear lenses made of PMMA
- Dimming capability

APPLICATION

Grocery & Supermarkets freezers and refrigerators .
Other specialized uses for narrow enclosures.



SPECIFICATIONS

Supply voltage	24V DC
Ambient temperature t_a	-30 ... +30 °C
Max. surface temperature on profile t_c	60 °C
Type of protection	IP 20
Protection class	III
Risk group (EN 62471:2008)	1
CRI	≥90

SKU SPECIFICATIONS

Article Number	Description	Length (mm)	Nr. of modules	Luminous flux light engine (lm)	Power (W)	CCT
91420070	Bright-Line Door Cooler 1250mm, 4000K CRI90, 16W, C2400, SED-8 C	1250	8	1700	15,2	NW
91420071	Bright-Line Door Cooler 1250mm, 4000K CRI90, 8W, C2400, SED-8 L	1250	8	700	8,0	NW
91420072	Bright-Line Door Cooler 1250mm, 4000K CRI90, 8W, C2400, SED-8 R	1250	8	700	8,0	NW
91420073	Bright-Line Door Cooler 1250mm, 3000K CRI90, 16W, C2400, SED-8 C	1250	8	1470	15,2	WW
91420074	Bright-Line Door Cooler 1250mm, 3000K CRI90, 8W, C2400, SED-8 L	1250	8	610	8,0	WW
91420075	Bright-Line Door Cooler 1250mm, 3000K CRI90, 8W, C2400, SED-8 R	1250	8	610	8,0	WW
91420076	Bright-Line Door Cooler 1250mm, 2700K CRI90, 16W, C2400, SED-8 C	1250	8	1400	15,2	PC
91420077	Bright-Line Door Cooler 1250mm, 2700K CRI90, 8W, C2400, SED-8 L	1250	8	580	8,0	PC
91420078	Bright-Line Door Cooler 1250mm, 2700K CRI90, 8W, C2400, SED-8 R	1250	8	580	8,0	PC
91420079	Bright-Line Door Cooler 1250mm, Meat CRI90, 16W, C2400, SED-8 C	1250	8	1330	15,2	PM
91420080	Bright-Line Door Cooler 1250mm, Meat CRI90, 8W, C2400, SED-8 L	1250	8	550	8,0	PM
91420081	Bright-Line Door Cooler 1250mm, Meat CRI90, 8W, C2400, SED-8 R	1250	8	550	8,0	PM
91420082	Bright-Line Door Cooler 1500mm, 4000K CRI90, 19W, C2400, SED-8 C	1500	10	2120	19,0	NW
91420083	Bright-Line Door Cooler 1500mm, 4000K CRI90, 10W, C2400, SED-8 L	1500	10	870	10,0	NW
91420084	Bright-Line Door Cooler 1500mm, 4000K CRI90, 10W, C2400, SED-8 R	1500	10	870	10,0	NW
91420085	Bright-Line Door Cooler 1500mm, 3000K CRI90, 19W, C2400, SED-8 C	1500	10	1840	19,0	WW
91420086	Bright-Line Door Cooler 1500mm, 3000K CRI90, 10W, C2400, SED-8 L	1500	10	760	10,0	WW
91420087	Bright-Line Door Cooler 1500mm, 3000K CRI90, 10W, C2400, SED-8 R	1500	10	760	10,0	WW
91420088	Bright-Line Door Cooler 1500mm, 2700K CRI90, 19W, C2400, SED-8 C	1500	10	1750	19,0	PC
91420089	Bright-Line Door Cooler 1500mm, 2700K CRI90, 10W, C2400, SED-8 L	1500	10	720	10,0	PC
91420090	Bright-Line Door Cooler 1500mm, 2700K CRI90, 10W, C2400, SED-8 R	1500	10	720	10,0	PC
91420091	Bright-Line Door Cooler 1500mm, Meat CRI90, 19W, C2400, SED-8 C	1500	10	1660	19,0	PM
91420092	Bright-Line Door Cooler 1500mm, Meat CRI90, 10W, C2400, SED-8 L	1500	10	680	10,0	PM
91420093	Bright-Line Door Cooler 1500mm, Meat CRI90, 10W, C2400, SED-8 R	1500	10	680	10,0	PM
91420094	Bright-Line Door Cooler 1650mm, 4000K CRI90, 21W, C2400, SED-8 C	1650	11	2330	20,9	NW
91420095	Bright-Line Door Cooler 1650mm, 4000K CRI90, 11W, C2400, SED-8 L	1650	11	960	11,0	NW
91420096	Bright-Line Door Cooler 1650mm, 4000K CRI90, 11W, C2400, SED-8 R	1650	11	960	11,0	NW
91420097	Bright-Line Door Cooler 1650mm, 3000K CRI90, 21W, C2400, SED-8 C	1650	11	2030	20,9	WW
91420098	Bright-Line Door Cooler 1650mm, 3000K CRI90, 11W, C2400, SED-8 L	1650	11	840	11,0	WW
91420099	Bright-Line Door Cooler 1650mm, 3000K CRI90, 11W, C2400, SED-8 R	1650	11	840	11,0	WW
91420100	Bright-Line Door Cooler 1650mm, 2700K CRI90, 21W, C2400, SED-8 C	1650	11	1930	20,9	PC
91420101	Bright-Line Door Cooler 1650mm, 2700K CRI90, 11W, C2400, SED-8 L	1650	11	790	11,0	PC
91420102	Bright-Line Door Cooler 1650mm, 2700K CRI90, 11W, C2400, SED-8 R	1650	11	790	11,0	PC
91420103	Bright-Line Door Cooler 1650mm, Meat CRI90, 21W, C2400, SED-8 C	1650	11	1830	20,9	PM
91420104	Bright-Line Door Cooler 1650mm, Meat CRI90, 11W, C2400, SED-8 L	1650	11	750	11,0	PM
91420105	Bright-Line Door Cooler 1650mm, Meat CRI90, 11W, C2400, SED-8 R	1650	11	750	11,0	PM
91410234	LED LE1650 CW 11L14 24V/80mA SED-8Y 2400 C	1650	11	2220	20.9	CW

* All typical values for $T_a=25^{\circ}\text{C} \pm 2^{\circ}\text{C}$, setting time =200ms

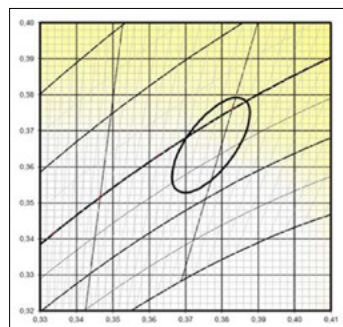
* Luminous flux min. value = typ. value - 20%

* Tolerance mechanical dimensions +/- 1mm

* Tolerance electrical data +/- 15%

* Tolerance optical data +/-10%

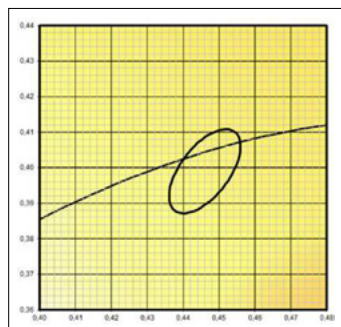
COORDINATES AND TOLERANCES ACCORDING TO CIE 1964



CIE - Coordinates

Neutral white 3950K

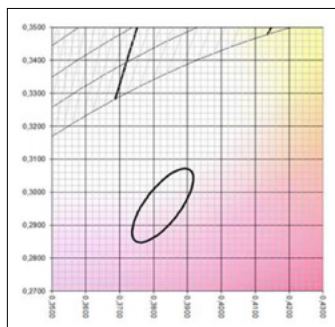
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Center point	0.3770	0.3660
MacAdam ellipse	3SDCM	



CIE - Coordinates

Warm white 2800K

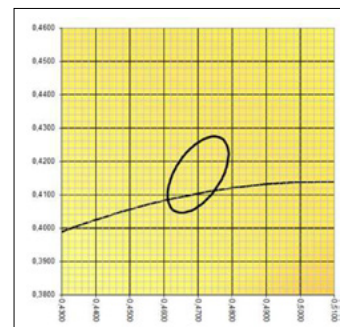
	x0	y0
Center point	0.4480	0.3990
MacAdam ellipse	3SDCM	



CIE - Coordinates

Meat & Deli

	x0	y0
Center point	0.3890	0.3030
MacAdam ellipse	3SDCM	



CIE - Coordinates

Pasta & Cheese 2660K

	x0	y0
Center point	0.4750	0.4160
MacAdam ellipse	3SDCM	

OPTICAL PROPERTIES

Lifetime

tc _{LED} temperature in °C	Luminous flux in %	Lifetime in h
0	70	50000
	80	30000
25	70	47000
	80	29000
45	70	45000
	80	28000

Standards

- *EN 60598-1
- *EN 60598-2-1
- *EN 62031
- *EN 62471

Thermal Behavior

Operating temperature (operation, no defects)	ta	-30 ... +30 °C
Storage temperature	ts	-30 ... +60 °C
Temperature cooling profile*	tc	-30 ... +60 °C

*Values apply to operation at 100% output, natural convection.

*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 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.