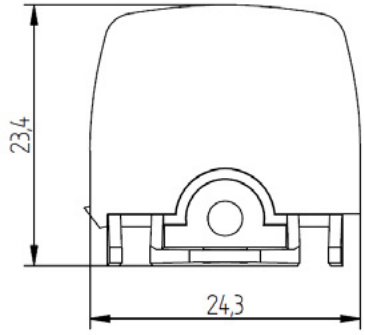
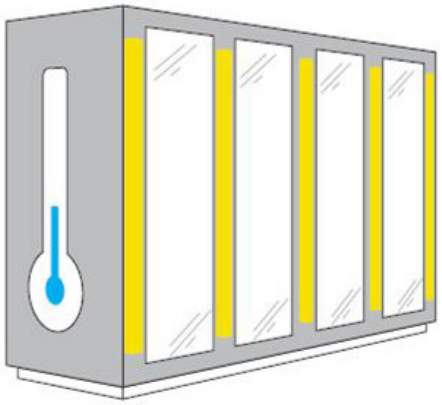


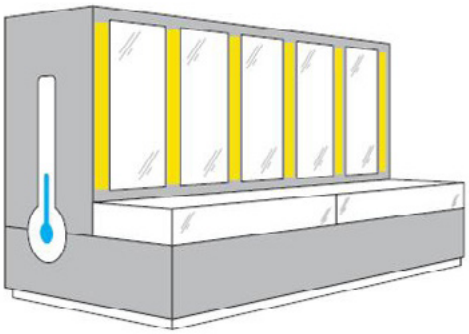
Door Freezer Lighting

REFRIGERATORS & FREEZERS LUMINAIRES

FEATURES & BENEFITS

- Efficient, extra slim lighting for freezer 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

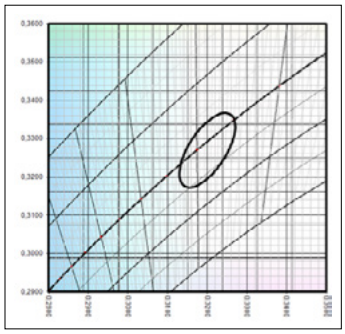
Supply voltage	24V DC
Ambient temperature ta	-30 ... +30 ˚C
Max. surface temeprature on profile tc	60 ˚C
Type of protection	IP 20
Protection class	III
Risk group (EN 62471:2008)	1
CRI	≥90

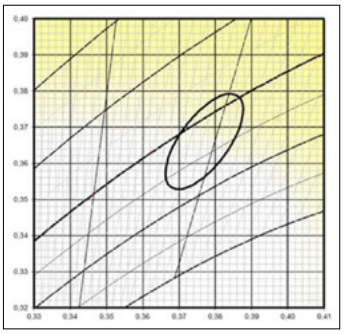
SKU SPECIFICATIONS

Article Number	Description	Length (mm)	Nr. of modules	Luminous flux light engine (lm)	Power (W)	CCT
91420106	Bright-Line Door Freezer 910mm, 5000K CRI90, 6W, C2400, SED-8 C	910	6	640	6,0	CW
91420107	Bright-Line Door Freezer 910mm, 5000K CRI90, 6W, C2400, SED-8 L	910	6	500	6,0	CW
91420108	Bright-Line Door Freezer 910mm, 5000K CRI90, 6W, C2400, SED-8 R	910	6	500	6,0	CW
91420109	Bright-Line Door Freezer 910mm, 4000K CRI90, 6W, C2400, SED-8 C	910	6	670	6,0	NW
91420110	Bright-Line Door Freezer 910mm, 4000K CRI90, 6W, C2400, SED-8 L	910	6	520	6,0	NW
91420111	Bright-Line Door Freezer 910mm, 4000K CRI90, 6W, C2400, SED-8 R	910	6	520	6,0	NW
91420112	Bright-Line Door Freezer 1500mm, 5000K CRI90, 10W, C2400, SED-8 C	1500	10	1060	10,0	CW
91420113	Bright-Line Door Freezer 1500mm, 5000K CRI90, 10W, C2400, SED-8 L	1500	10	830	10,0	CW
91420114	Bright-Line Door Freezer 1500mm, 5000K CRI90, 10W, C2400, SED-8 R	1500	10	830	10,0	CW
91420115	Bright-Line Door Freezer 1500mm, 4000K CRI90, 10W, C2400, SED-8 C	1500	10	1110	10,0	NW
91420116	Bright-Line Door Freezer 1500mm, 4000K CRI90, 10W, C2400, SED-8 L	1500	10	870	10,0	NW
91420117	Bright-Line Door Freezer 1500mm, 4000K CRI90, 10W, C2400, SED-8 R	1500	10	870	10,0	NW
91420118	Bright-Line Door Freezer 1650mm, 5000K CRI90, 11W, C2400, SED-8 C	1650	11	1170	11,0	CW
91420119	Bright-Line Door Freezer 1650mm, 5000K CRI90, 11W, C2400, SED-8 L	1650	11	910	11,0	CW
91420120	Bright-Line Door Freezer 1650mm, 5000K CRI90, 11W, C2400, SED-8 R	1650	11	910	11,0	CW
91420121	Bright-Line Door Freezer 1650mm, 4000K CRI90, 11W, C2400, SED-8 C	1650	11	1220	11,0	NW
91420122	Bright-Line Door Freezer 1650mm, 4000K CRI90, 11W, C2400, SED-8 L	1650	11	960	11,0	NW
91420123	Bright-Line Door Freezer 1650mm, 4000K CRI90, 11W, C2400, SED-8 R	1650	11	960	11,0	NW

* All typical values for Ta=25°C +/- 2°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

Cool white 4900K		
	x0	y0
Center point	0.3478	0.3535
MacAdam ellipse	3SDCM	

CIE - Coordinates

Neutral white 3950K		
	x0	y0
Center point	0.3770	0.3660
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.