



## Door Lighting

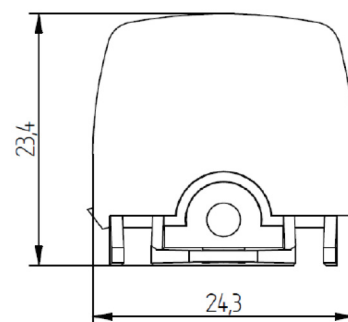
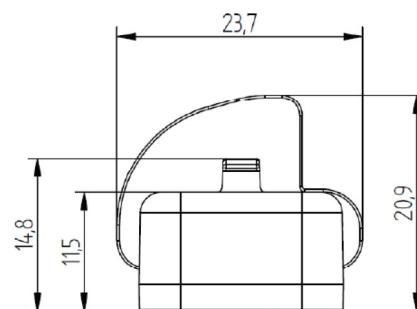
### REFRIGERATORS & FREEZERS LUMINAIRES

#### FEATURES & BENEFITS

- Efficient lighting for different applications
- 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 application of fixing plates
- Heat sink profile made of anodised, extruded aluminium
- LED modules protected against moisture & dust by Conformal coating
- 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, 95

## SKU SPECIFICATIONS

Article Number	Description	Current (mA)	Length (mm)	Nr. of modules	Luminous flux light engine (lm)	Power (W)	CCT
90102151	LED LE1080 NW 10L10-1 24V/80mA SED-8Y 1500 C	80	1080	10	1520	19.2	NW
90102152	LED LE1080 NW 10L10-1 24V/42mA SED-8Y 1500 L	42	1080	10	640	10.1	NW
90102153	LED LE1080 NW 10L10-1 24V/42mA SED-8Y 1500 R	42	1080	10	640	10.1	NW
90102154	LED LE1080 PM 10L10-1 24V/80mA SED-8Y 1500 C	80	1080	10	1320	19.2	PM
90102155	LED LE1080 PM 10L10-1 24V/42mA SED-8Y 1500 L	42	1080	10	580	10.1	PM
90102156	LED LE1080 PM 10L10-1 24V/42mA SED-8Y 1500 R	42	1080	10	580	10.1	PM

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

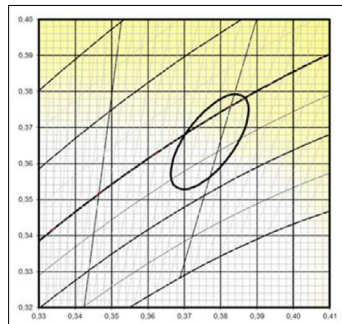
\* Luminous flux min. value = typ. value - 20%

\* Tolerance mechanical dimensions +/- 1mm

\* Tolerance electrical data +/- 15%

\* Tolerance optical data +/-10%

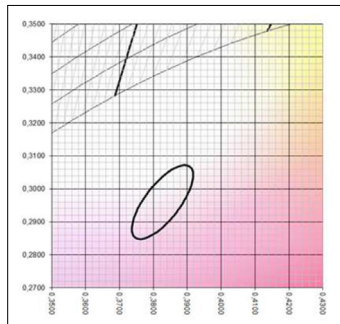
## COORDINATES AND TOLERANCES ACCORDING TO CIE 1964



## CIE - Coordinates

Neutral white 4100K

	x0	y0
Center point	0.3770	0.3660
MacAdam ellipse	3SDCM	



## CIE - Coordinates

Meat &amp; Deli

	x0	y0
Center point	0.3890	0.3030
MacAdam ellipse	3SDCM	

## OPTICAL PROPERTIES

## Lifetime

tc <sub>LED</sub> 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.