

## Canopy Lighting

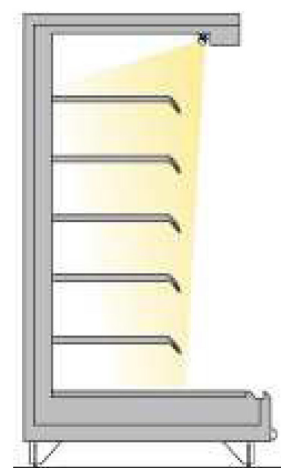
### REFRIGERATORS & FREEZERS LUMINAIRES

#### FEATURES & BENEFITS

- Efficient canopy lighting for cooling and freezer shelves
- Available in a variety of light colours and can be matched to specific food types
- Ready-to-connect solution available, thanks to our Quick Connection System (QCS)
- 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

## SKU SPECIFICATIONS

Article Number	Description	Length (mm)	Nr. of modules	Luminous flux light engine (lm)	Power (W)	CCT
91420000	Bright-Line Canopy 910mm, 4000K CRI90, 12W, CLW8Q	910	6	1240	11,4	NW
91420001	Bright-Line Canopy 910mm, 3000K CRI90, 12W, CLW8Q	910	6	1080	11,4	WW
91420002	Bright-Line Canopy 910mm, 2700K CRI90, 12W, CLW8Q	910	6	1030	11,4	PC
91420003	Bright-Line Canopy 910mm, Meat CRI90, 12W, CLW8Q	910	6	970	11,4	PM
91420004	Bright-Line Canopy 910mm, 4000K CRI90, 15W, HO, CLW8Q	910	6	1550	15,0	NW
91420005	Bright-Line Canopy 910mm, 3000K CRI90, 15W, HO, CLW8Q	910	6	1350	15,0	WW
91420006	Bright-Line Canopy 910mm, 2700K CRI90, 15W, HO, CLW8Q	910	6	1280	15,0	PC
91420007	Bright-Line Canopy 910mm, Meat CRI90, 15W, HO, CLW8Q	910	6	1210	15,0	PM
91420008	Bright-Line Canopy 1200mm, 4000K CRI90, 16W, CLW8Q	1200	8	1660	15,2	NW
91420009	Bright-Line Canopy 1200mm, 3000K CRI90, 16W, CLW8Q	1200	8	1440	15,2	WW
91420010	Bright-Line Canopy 1200mm, 2700K CRI90, 16W, CLW8Q	1200	8	1370	15,2	PC
91420011	Bright-Line Canopy 1200mm, Meat CRI90, 16W, CLW8Q	1200	8	1300	15,2	PM
91420012	Bright-Line Canopy 1200mm, 4000K CRI90, 20W, HO, CLW8Q	1200	8	2070	20,0	NW
91420013	Bright-Line Canopy 1200mm, 3000K CRI90, 20W, HO, CLW8Q	1200	8	1800	20,0	WW
91420014	Bright-Line Canopy 1200mm, 2700K CRI90, 20W, HO, CLW8Q	1200	8	1710	20,0	PC
91420015	Bright-Line Canopy 1200mm, Meat CRI90, 20W, HO, CLW8Q	1200	8	1620	20,0	PM
91420016	Bright-Line Canopy 1760mm, 4000K CRI90, 23W, CLW8Q	1760	12	2480	22,8	NW
91420017	Bright-Line Canopy 1760mm, 3000K CRI90, 23W, CLW8Q	1760	12	2160	22,8	WW
91420018	Bright-Line Canopy 1760mm, 2700K CRI90, 23W, CLW8Q	1760	12	2050	22,8	PC
91420019	Bright-Line Canopy 1760mm, Meat CRI90, 23W, CLW8Q	1760	12	1940	22,8	PM
91420020	Bright-Line Canopy 1760mm, 4000K CRI90, 30W, HO, CLW8Q	1760	12	3100	30,0	NW
91420021	Bright-Line Canopy 1760mm, 3000K CRI90, 30W, HO, CLW8Q	1760	12	2690	30,0	WW
91420022	Bright-Line Canopy 1760mm, 2700K CRI90, 30W, HO, CLW8Q	1760	12	2560	30,0	PC
91420023	Bright-Line Canopy 1760mm, Meat CRI90, 30W, HO, CLW8Q	1760	12	2420	30,0	PM

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

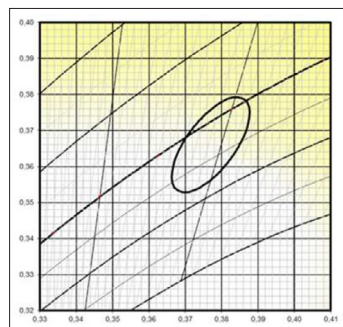
\* Luminous flux min. value = typ. value - 20%

\* Tolerance mechanical dimensions +/- 1mm

\* Tolerance electrical data +/- 15%

\* Tolerance optical data +/-10%

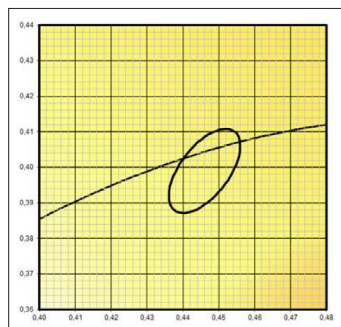
COORDINATES AND TOLERANCES ACCORDING TO CIE 1964



CIE - Coordinates

Neutral white 3950K

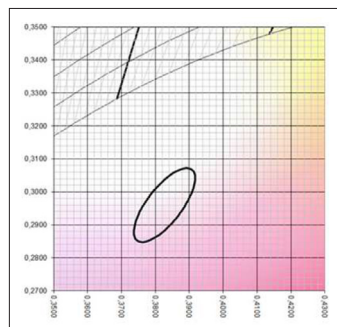
	x0	y0
Center point	0.3770	0.3660
MacAdam ellipse	3SDCM	



CIE - Coordinates

Warm white 2800K

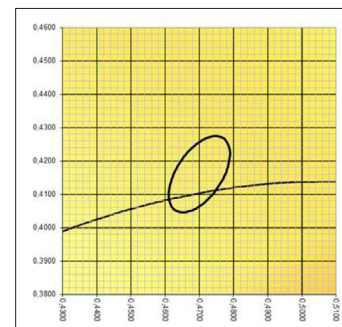
	x0	y0
Center point	0.4480	0.3990
MacAdam ellipse	3SDCM	



CIE - Coordinates

Packed Meat

	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 <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.