

Canopy LED Luminaires with energy management system

Optima Series

Techlumen **Optima®** LED canopy luminaire utilizes Techlumen i-motion® smart energy management system.

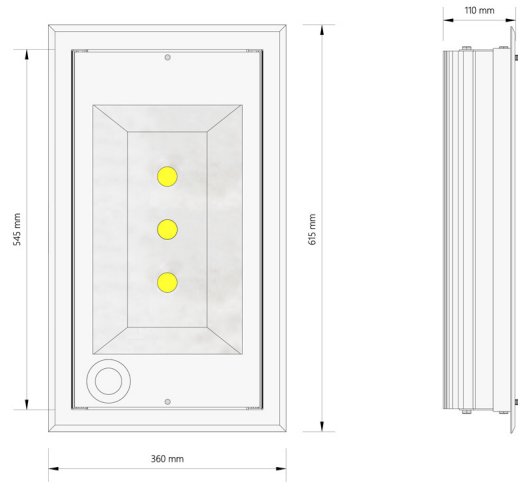
With **i-motion®**, the luminaire works at low power, equal to 30% of full power. When a vehicle enters the detection area, i-motion® sets Optima® to 100% light output, for a selected time duration. i-motion® leads to excellent level of economy, which can result to energy savings of 95%.

The 93W version provides 15993lm and offers more light output than conventional HQI 250W lamp systems. At stand-by operation mode - 31W, Optima® provides light output similar to 150W CFL lamp systems.

Techlumen LED Optima® have 5 years warranty. The LED chips have 10 years warranty. i-motion® system in combination with Optima®'s high quality and efficiency, result to significant economic benefits.



Dimensions



Pros

- Low working temperature
- It produces little heat compared to other types of lighting
- Requires no maintenance
- Long life - 5 years warranty
- Easy installation
- High reliability
- Excellent performance with low power consumption
- High brightness
- High color rendering up to 80 CRI
- Instant start - immediate termination
- It does not emit UV or IR radiation
- Does not contain mercury
- Resistance to shock and vibration

Applications

- Gas stations
- Canopies

Manufactured in Greece



Type	Optima series
Luminous Power	8514 lm - 15993 lm
Power	51W - 93W
Driver	Meanwell
LED Chip	Bridgelux Vero
Consumption	0.053 KWh/h - 0.093 KWh/h
Ambient Temperature	-30 °C - + 40 °C
Efficacy	160 lm/W - 182 lm/W
Power Factor	0,95
CRI	70 - 80
CCT	4000K - 5600K
IP Rating	IP65
Body	Alluminium
Finishing	Any RAL
Dimensions	615 x 360 x 110 mm - adjustable
Weight	9.6 Kg
Warranty	5 years
Approvals:	CE, EN 60598-1, EN 13032.01 EN 61439-1:2009 EN 61543:1995 2006/95/EC 2004/108/EC EN 60598-2-2 Rohs

Optima Versions					
Watt	Code	CCT	CRI	Lumens	Lm/W
60W	Optima-840-51	4000	80	8514	166
	Optima-750-51	5000	70	9318	182
	Optima-757-51	5700	70	8991	176
75W	Optima-840-75	4000	80	11586	157
	Optima-750-75	5000	70	12681	172
	Optima-757-75	5700	70	12234	166
93W	Optima-840-93	4000	80	14613	160
	Optima-750-93	5000	70	15993	175
	Optima-757-93	5700	70	15432	169

Canopy LED: Techlumen Optima®
- When there is no vehicle under the canopy, lights are working at 30% of their full power.

Vehicle entry - LED luminaires activation

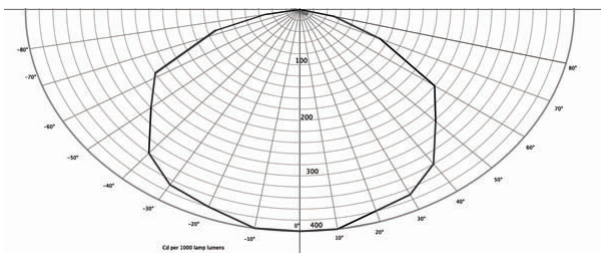
- The other fixtures remain at the 30% of their full power
- Vehicle detection - Activation of "presence" system - Power increase to 100%

Vehicle stop - 2nd luminaires activation

- The other fixtures remain at the 30% of their full power
- Vehicle detection - "presence" system activation - Power increase to 100%
- The 2nd set of luminaires at full power for the vehicle stop (default is 30%)

Result:
Conventional HQL 2 Watt fixtures are replaced by Techlumen Optima® 93W LED fixtures.
The activation of "presence" system leads to 55% less power consumption.

Polar Intensity Diagram



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