

CASE STUDY



CLIENT: Carrefour
LOCATION: Angers Grand Maine, France
PROJECT: Installation LED Under Canopy Illumination



CASE STUDY

Light output survey

After installation of eight LS Downlights at the Carrefour Angers petrol station, the results and differences in light output and energy usage between full power-modus and eco-modus are displayed below.

PRODUCT INSTALLED:

8 LS downlights with EOS 50LED, 4000K , 125W max. Symmetric (16764)



VALUES SET:

Features

Values LS downlight with EOS
Power rating (supplied)
Motion detection
Power in eco-mode
Time without detection before switching to Eco mode
Functionality

Values LS downlight with EOS

125 W
80% of the maximum (125 W) is 102 W
ON
15% of the nominal, is 15,3 W
2 minutes

- Individual operation per luminaire
- Each luminaire uses the information from its own motion sensor.

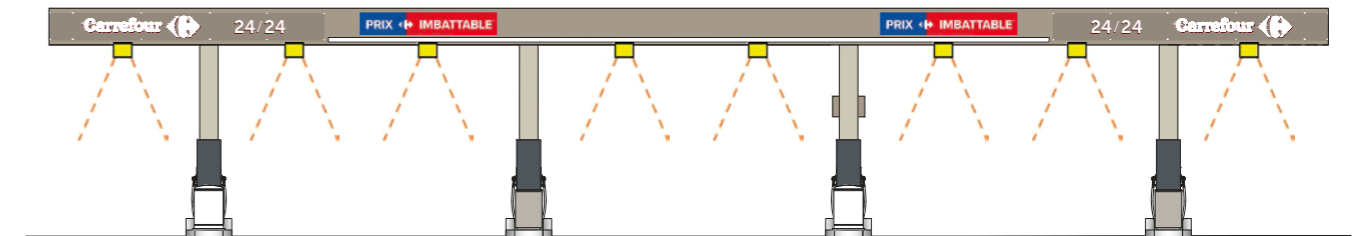
LS Downlights installed at Carrefour Angers Grand Maine, France.

POWER CONSUMPTION

Per downlight:

Power after detection: 102 W

Power in eco-mode: 15,5 W



Total consumption of the LED downlights after detection on all luminaires 816 W

Total consumption of the LED downlights in eco-mode 122,4 W



LIGHT MEASUREMENT

Location	Required value	Values measured
Horizontal light measurement at groundlevel	300 lux (*)	>320 lux (320 –450 lux)
Vertical illumination measurement at the nozzles	150 lux (**)	> 230 lux

(*) required value / Client

(**) required value / Standard NF EN 12464



Measured at ground level:
439 lux



Measured by nozzles:
248 lux



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