

APPLICATION
NOTE

LEDiL's well established FLORENCE family is also available in a sturdier IP-version. The FLORENCE-3R-IP has three rows of optics and an integrated silicone gasket to provide ingress protection against water and dust. The compatibility with industrial standard mid power led modules makes it an ideal solution for low and mid bay industrial applications.

For more information about simulations:



tech.support@ledil.com

FLORENCE-3R-IP

- 321 x 79 x 9.35mm PC lens
- Integrated silicon gasket for ingress protection against water and dust for up to IP67
- Highly efficient modular lighting with mid power LEDs
- Sturdy fastening with screws
- 90°, 60° and oval beams similar to original FLORENCE-3R

COMPATIBILITY

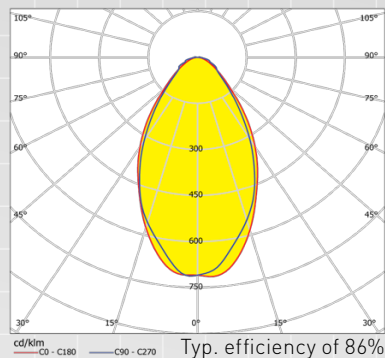
- Zhaga book 7 three-row (L28W6) modules and similar



TYPICAL APPLICATIONS

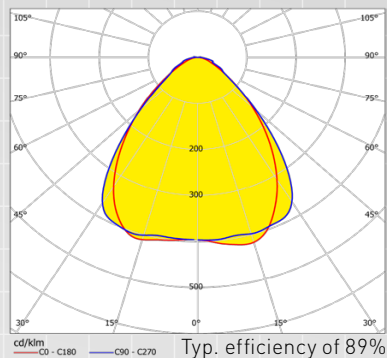
- Industrial lighting
- Indoor lighting
- Low & Mid Bay
- Halls

FLORENCE-3R-IP-Z60



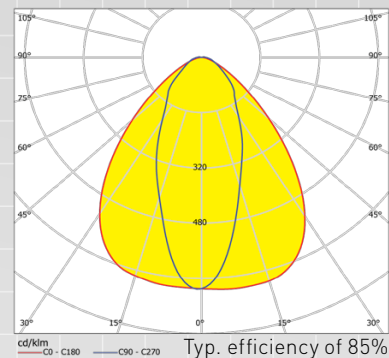
- Typical FWHM: 60°
- Typical installation height 5m

FLORENCE-3R-IP-Z90

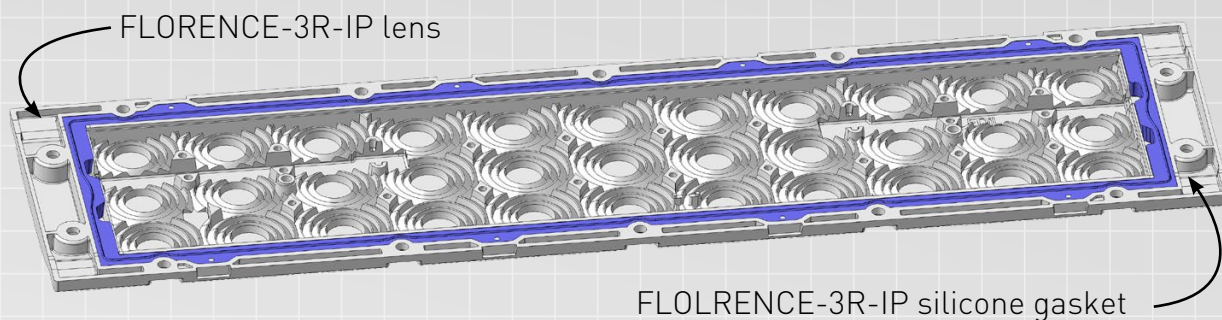


- Typical FWHM: 90°
- Typical installation height 3.5m

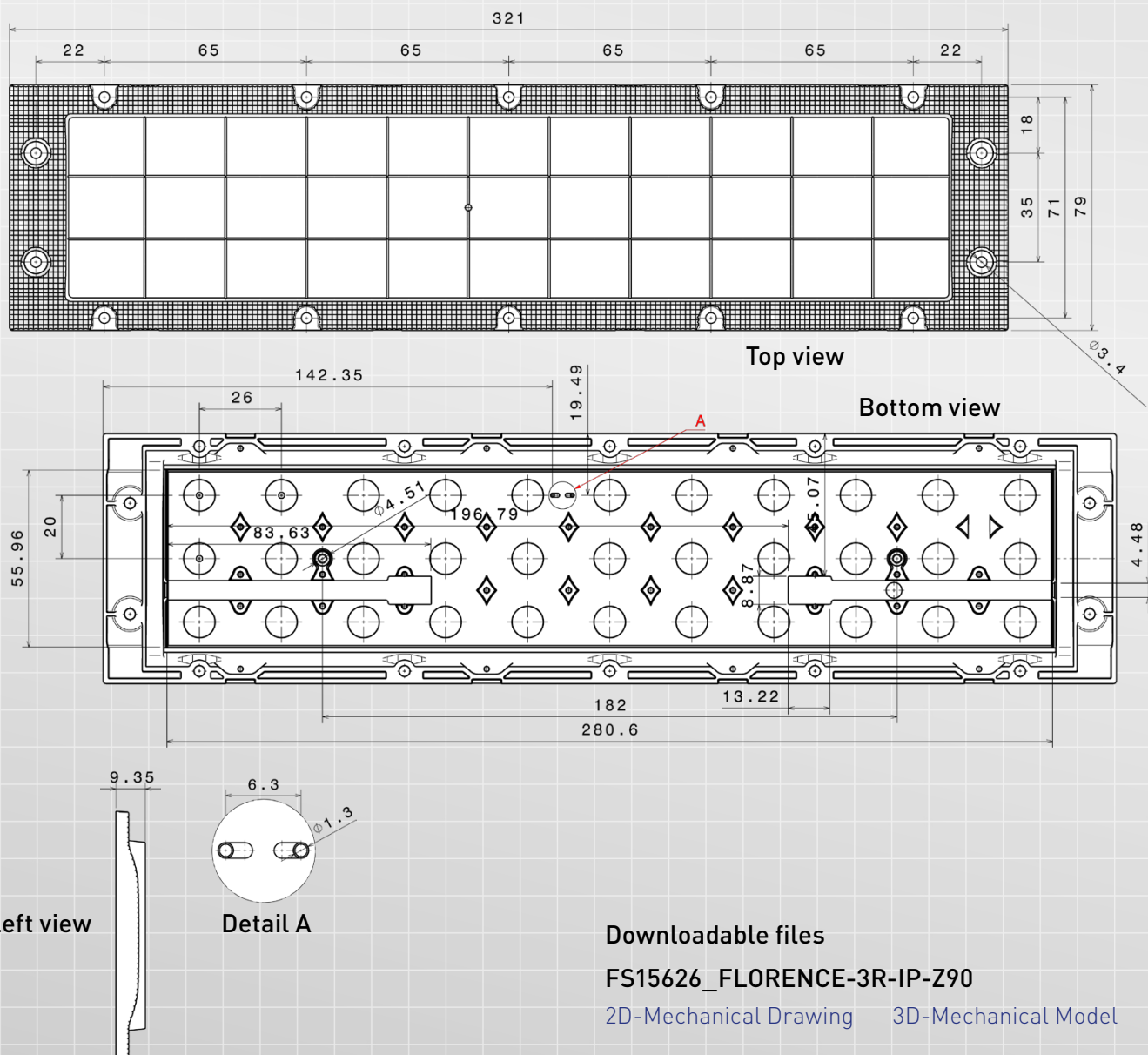
FLORENCE-3R-IP-0



- Typical FWHM: 84+40
- Oval shaped light distribution



- 1) Insert the silicone gasket to the bottom and ensure it is evenly in place.
- 2) With the silicone gasket attached align the lens on top of the PCB.
- 3) Fasten the lens to the heatsink using 14pcs M3 (DIN 7985) screws with maximum torque of 0.6Nm



Downloadable files

FS15626_FLORENCE-3R-IP-Z90

2D-Mechanical Drawing

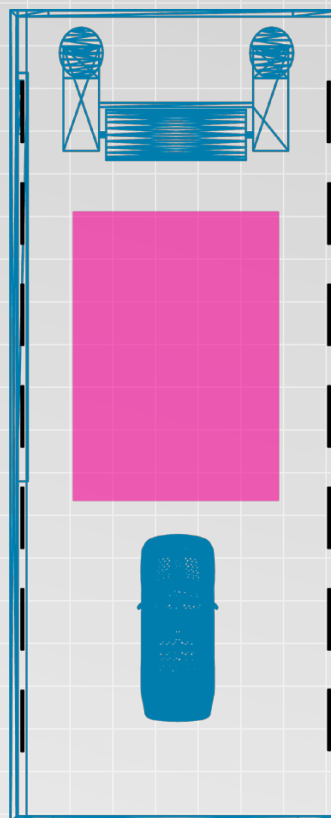
3D-Mechanical Model

CARWASH LIGHTING

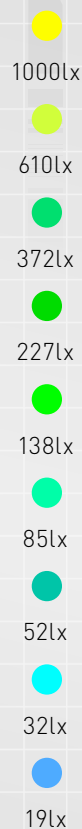
APPLICATION EXAMPLE

Optics used	FLORENCE-3R-IP-Z90
Room width	7.7m
Room height	4.9m
Luminaire rows	2
Distance between rows	7.5m
Row distance from floor	4m
No. of luminaires in a row	7pcs
No. of optics in luminaire	5pcs
Luminaire spacing (c to c)	2.5m
Luminous flux (luminaire)	4900lm
Power (luminaire)	41.5W
Total load	581W
Luminous efficacy	118lm/W
Efficiency	89%*

*Transmittance at 3.2-mm thickness (standard D 1003) 88%. Thinner thickness has better efficacy. Measured using white PCB with good reflectance.

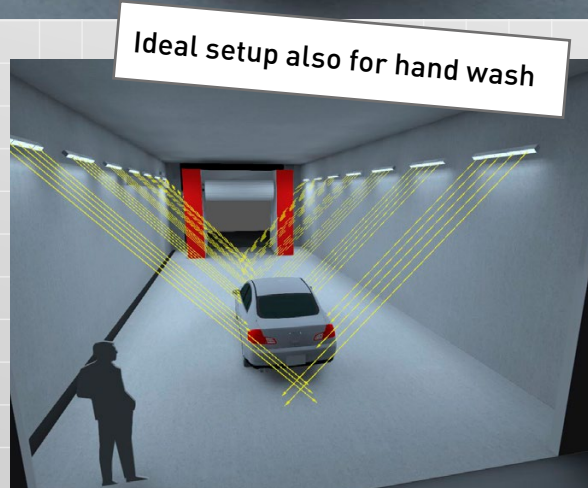
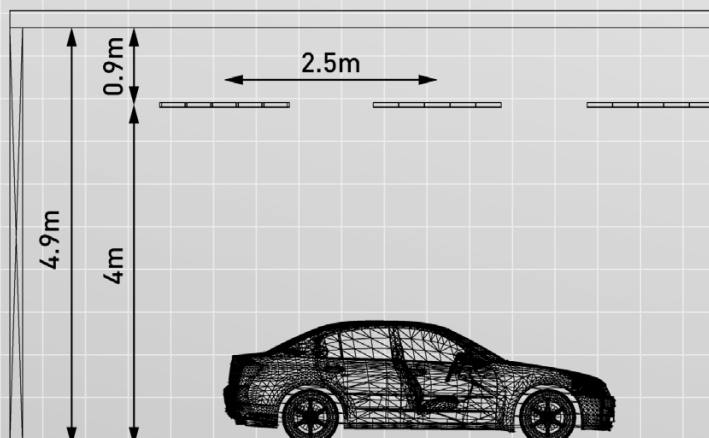
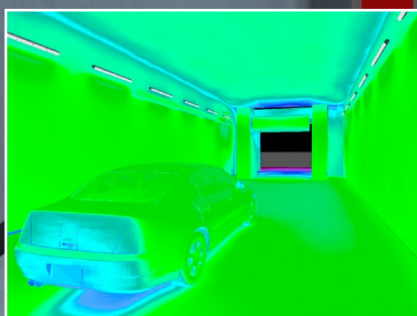


Calculation surface



CALCULATION SURFACE RESULTS AT 1.6m height

Average:	326lx
Min:	255lx
Max:	395lx
u0:	0.78

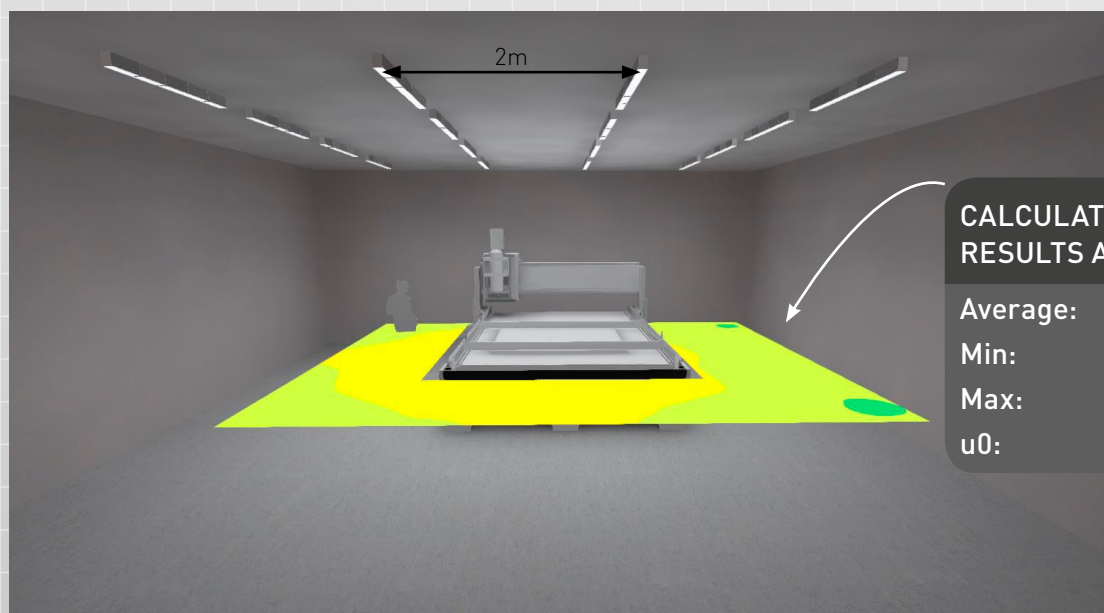
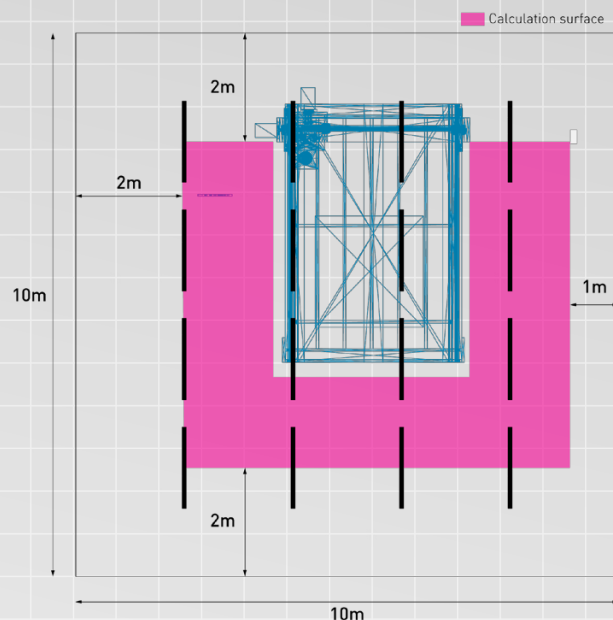


INDUSTRIAL LIGHTING

APPLICATION EXAMPLE

Optics used	FLORENCE-3R-IP-Z90
Mounting height	4m
Distance between luminaires (c to c)	2x2m
No. of luminaires	16pcs
No. of optics in luminaire	5pcs
Luminous flux (luminaire)	4455lm
Power (luminaire)	38W
Total load	608W
Luminous efficacy	117lm/W
Efficiency	89%*

*Transmittance at 3.2-mm thickness (standard D 1003) 88%. Thinner thickness has better efficacy. Measured using white PCB with good reflectance.



CALCULATION SURFACE RESULTS AT 0.8m height

Average:	708lx
Min:	482lx
Max:	859lx
u0:	0.68