

KIT RETROFIT

Technical Datasheet



PRODUCT FEATURES

Application	Street, architectural and industrial lighting
Insulation class	II
Protection rating	Complete assembly IP67/IP40; lens IP67; driver IP67/IP40
Connector	IP68 waterproof connector on request
Intensity category	>= G4
IPEA index	from A3+ to A6+ in accordance with Italian Ministerial Decree 27/09/2017 (C.A.M.)
Warranty	5 years against manufacturing defects; extension for an additional 5 years at the cost of replaced components only
Certifications	Components compliant with applicable standards

MECHANICAL FEATURES

Body	High-performance 6060 aluminium alloy heat sink
Screen / lens	High-transmittance PMMA IP65/IP67 (>95%)
Impact resistance	> IK08
Heat sink	Finned aluminium
Mounting	Custom system for existing luminaire
Heat-sink colour	Grey, epoxy powder coating
Dibond support	Matt black / white or silver / white; other colours on request

OPTICAL UNIT FEATURES

Optical unit	Modular LED units with LEDiL or equivalent optics
LED	CREE XP-G3 / XP-G4 S6/S7 series, ceramic package
Minimum efficacy @ 350mA	>188 lm/W @85°C, 205 lm/W @25°C at 4000K and 5700K >180 lm/W @85°C, 196 lm/W @25°C at 3000K >156 lm/W @85°C, 170 lm/W @25°C at 2200K
CCT	4000 K / 3000 K / 2200 K / 5700 K; other colour temperatures on request
CRI	Ra >= 70; other values on request
Optic	STRADA 2X6 DWC / ME / WWW or other optic according to application
Lens size	173 x 71.4 mm
Optical material	Anti-yellowing PMMA >30 years, RoHS compliant
LED lifetime	L90B20 > 353,000 h
Temperatures	Operating -50°C/+55°C; ambient -25°C/+50°C

ELECTRICAL FEATURES

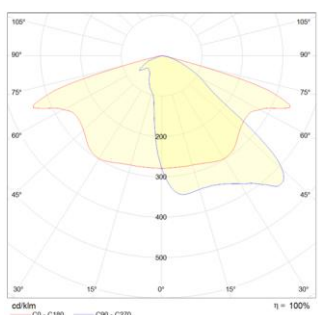
Voltage	220/240 V - 50/60 Hz
Driver	Dimmable electronic driver, Class II, IP67/IP40, Meanwell / OSRAM / Inventronics or equivalent
Driver lifetime	>80,000 h; up to >120,000 h @ case temperature 70°C depending on configuration
Driver efficiency	Up to 95%
Power unit	Class II
Power factor	cos Phi > 0.95
Protections	Short-circuit, overvoltage and overcurrent protection
SPD	6 kV line-line; 10 kV line-earth
Dimming / Smart	1-10V, PWM, resistenza, DALI/DALI2, timer; Smart ZigBee/WiFi

CONFIGURATIONS



Configuration	Description	Support	Weight
Single plate	Power ratings up to 40 W	Matt black / white or silver / white Dibond	depending on luminaire
Multi-plate	60/80 W and 110 W	Custom-made system	depending on configuration

AVAILABLE OPTICS

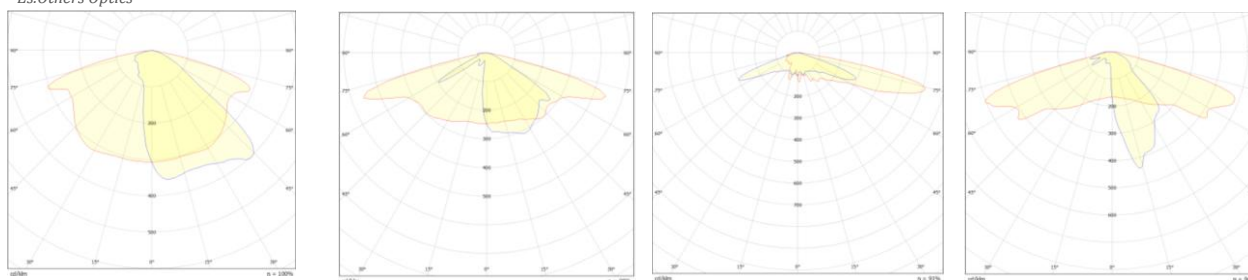


Photometric curve with 2x6 DWC asymmetric lens. Other optics available on request.

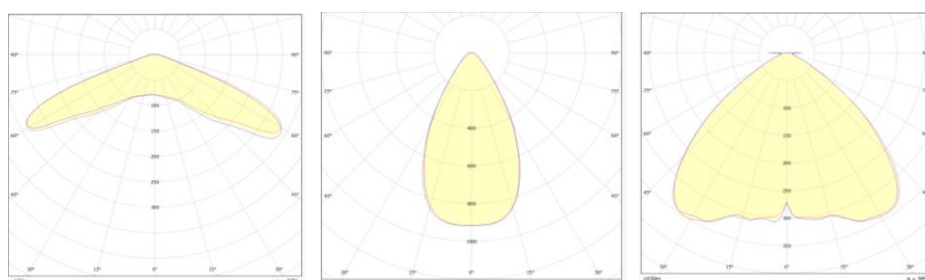
OPTICAL UNIT

Standard optic	STRADA 2X6 DWC / ME / WWW or other optic according to application / lighting calculation
Applications	Street, architectural, industrial, urban and outdoor areas
Material	Anti-yellowing PMMA >30 years, RoHS compliant
Lens format	Rectangular 173 x 71.4 mm
Intensity class	>= G4 according to photometric configuration
Variants	Alternative photometries available on request

Es.Others Optics



T4B



KIT RETROFIT

Technical Data & Code Structure

PROVISIONS

Installation	Kit adaptable to existing luminaires through a dedicated plate and fastening system
Wiring	1.5 mm² silicone cable and waterproof connections on request
Driver	Dimmable driver in plastic/aluminium housing
Control	StepDim, AstroDim, DALI/DALI2, 1-10V, PWM or timer on request

LUMINOUS PERFORMANCE

Values are to be considered with +/- 5% tolerance. Source flux varies according to CCT and driving current. The actual output flux depends on the existing luminaire, support and selected optical configuration.

Version	Gross P.	Net P.	LED	Source flux	Notes
Ref_Plaf 30W - 12 LED	30 W	28.5 W	12	>5200 lm @4000K/5700K >4992 lm @3000K >4368 lm @2200K	Single plate
Ref_Plaf 40W - 12 LED	40 W	38 W	12	>6400 lm @4000K/5700K >6144 lm @3000K >5376 lm @2200K	Single plate
Ref_Plaf 40W - 24 LED	40 W	38 W	24	>7400 lm @4000K/5700K >7104 lm @3000K >6216 lm @2200K	Single plate
Ref_Plaf 50W - 12 LED	50 W	47.5 W	12	>7500 lm @4000K/5700K >7200 lm @3000K >6300 lm @2200K	According to configuration
Ref_Plaf 60/80W - 24 LED	60...80 W	57...76 W	24	>10500...12700 lm @4000K/5700K >10080...12192 lm @3000K >8820...10668 lm @2200K	Multi-plate
Ref_Plaf 60/80W - 36 LED	60...80 W	57...76 W	36	>11500...13540 lm @4000K/5700K >11040...12998 lm @3000K >9660...11374 lm @2200K	Multi-plate
Ref_Plaf 110W - 36 LED	110 W	104.5 W	36	>18720 lm @4000K/5700K >17971 lm @3000K >15725 lm @2200K	Multi-plate

PERFORMANCE NOTES

Colour temperature	4000 K / 3000 K / 2200 K / 5700 K; other colour temperatures on request.
Colour rendering	Ra >= 70; higher values available on request.
IPEA index	from A3+ to A6+, varying according to configuration, optics and power supply.
Configuration	The kit is sized according to the existing luminaire and the lighting calculation.

PROPOSED PRODUCT CODE STRUCTURE

The following structure is a proposed order for configuring the KIT RETROFIT family consistently with the available technical variants.

Pos.	Field	Values	Description
1	Family	REF-PLAF	Retrofit kit for existing luminaire
2	Power	030, 040, 050, 060, 075, 080, 110	Nominal gross power
3	No. of LEDs	12 / 24 / 36	Number of installed LEDs
4	CCT	22K / 30K / 40K / 57K	2200 K / 3000 K / 4000 K / 5700 K
5	CRI	70 / 80	Standard or optional CRI
6	Optic	DWC / ME / WWW / ALT	STRADA 2X6 or alternative photometry
7	Control	FIX / 1-10 / PWM / DALI / TIM / SMART	Fixed, dimming or smart control
8	Support	DB-N / DB-W / DB-S / CUSTOM	Black, white, silver Dibond or custom support

CONFIGURATION EXAMPLE

EXAMPLE	REF-PLAF-040-24-40K-70-DWC-DALI-DB-N
Description	Retrofit luminaire kit 40 W, 24 LEDs, 4000 K, CRI 70, 2X6 DWC optic, DALI power supply, matt black Dibond support

NIGHT DIMMING AND SMART CONTROL

StepDim	Flux reduction after a defined number of hours from switch-on. Example: after 4h 80%, after 5h 70%, after 6h 60%, after 7h 50%.
AstroDim	Reduction based on virtual midnight. Example: 22:00 80%, 00:00 70%, 02:00 60%, 04:00 50%.
Smart	Provision on request for smart and remote-control solutions.
Driver	Configurations available on request: 1-10V, PWM, resistor, DALI/DALI2 or timer.