

Dot.fuel Gen.2

LED projector for fuel canopy installations



CREE LIGHTING

Product Description

Dot.fuel is the perfect balance of price and performance with increased efficiency, a flexible lighting solution that can be easily adopted for new and retrofit applications. Available with gas station - specific lumen packages and lenses, Dot.fuel can be built-in into metal ceilings as required, which results in great installation flexibility and much more: its mounting options, make it perfect not only for petroleum but for a far greater range of covered canopy applications.

Thanks to compact design characterized by innovative heatsink and low weight, Dot.fuel can be mounted easily recessed from below the canopy deck in few minutes, providing the best-in-class solution.

Applications: Canopy fuel, fuel stations, soffits

Performance Summary

Efficacy: up to 160lm/W

Initial Delivered LED Lumens: up to 23600 lm

Lifetime color consistency: 4SDM

Limited Warranty: 5 years on luminaire

Extended warranty (up to 10 years) available for approved projects. Contact ADLT for further information.



Ordering Information

Eg: KTFA-45-PA-12L-407-+-A-WH-DIM-S-S-01

KTFA	-	45	-	PA	-	12L	-	407	-	+	-	A	-	WH	-	DIM	-	S	-	S	-	01
Product		Mounting		Optic		Lumen Package		CCT		Insulation Class		Voltage		Finish		Options		Variant		Protection		Cable length
KTFA Dot Fuel Version A	-	45 Standard plate new & retrofit 44*	-	PA Petroleum Asymmetric PS Petroleum Symmetric 60 60 Flood	-	12L Single Module 24L Double Module	-	407 4000K CRI70 577 5700K CRI70	-	+	-	A 220-240V	-	WH White	-	DIM** Standard Program Dim 0-10V	-	S No socket / No sensor M Ambient / Motion Sensor	-	S by driver 10kV CM	-	01 Exit Cable 0,5 m

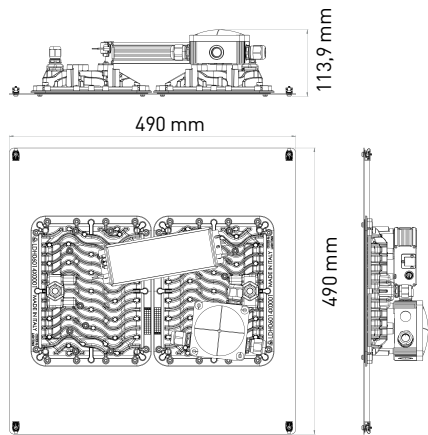
* Plate for retrofitting CPY & 304 products, in combination with existing RTF-RCS kit

**Choose program from standard listed

Dimensions

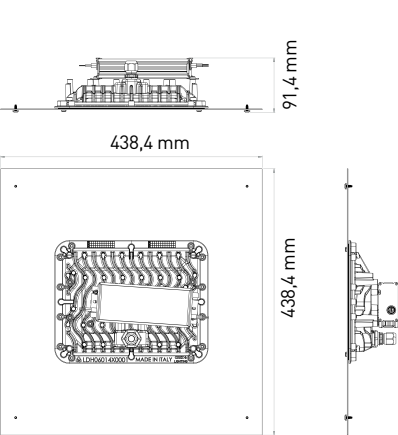
45 Plate size

Size remains the same for single or double module



44 Plate size

Size remains the same for single or double module



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FEATURES

- Full cut-off optics and PCB LEDs compliant with Zhaga Book 15
- LED Lumen output up to 23600lm
- Zhaga Book 15 compliant LED module efficiency (excluding optical system): ≥ 185 lm/W
- Luminaire efficiency (including optical losses): up to 165 lm/W
- CCT: 4000K Ra70, 5700K Ra70
- Initial Chromatic Selection: ≤ 4 -Step MacAdam ellipse or $\Delta u'v' \leq 0.003$ (LM80:08)
- Colour variation at 6,000 hours: ≤ 7 -Step MacAdam ellipse or $\Delta u'v' \leq 0.007$ (LM80:08)
- Luminous flux maintenance factor: L97B10 up to $>100,000$ hours $T_a=25^\circ\text{C}$ (According to IESNA TM-21)
- Protection Degree: IP66 / IK09
- Overvoltage protection: up to 10kV CM according to EN61000-4-5 and EN 61547
- Driver equipped with over-temperature protection for optimal performance and safety
- Power factor: ≥ 0.98 at full load
- Operating temperature: -40°C up to $+50^\circ\text{C}$
- Standard option : Dimmable 0-10V
- Available Variant: Occupancy/Ambient Sensor Fully Programmable via Bluetooth

CONSTRUCTION AND MATERIALS

- Die-cast aluminum body with low copper content
- Innovative heat-sink design
- 4mm thick ultra clear transparent glass protection screen
- Replaceable PMMA lenses
- Replaceable LED board equipped with ESD protection
- Cable type H07RN-F (Cable length up to 50cm)
- Easy installation
- Easy installation with pre-assembled mounting plate, ideal for both new and retrofit installations up to 450x450mm existing opening
- Practicality in ordinary and extraordinary maintenance
- Luminaire assembled without the use of adhesives, completely disassembled and recyclable
- Ultra durable littestrong glass clips

WARRANTY AND CERTIFICATIONS

- Warranty: 5 years
- CE / CB / ENEC / RoHs
- Risk group exempt in accordance with Standard CEI EN 62471 for photobiological safety
- Compliant to: EN 60598-1; EN 60598-2-2
- Lead-free powder coatings with excellent exterior durability, conforms to the requirements:
 - Adhesion - test comply with ISO 2409
 - Salt spray - test NSS comply with ISO 9227
 - Accelerated Weathering - test UV comply with ISO 16474-2 (ex ISO 11507)
 - Constant humidity - test comply with ISO 6270-1

ELECTRICAL DATA*

Lumen Package	System Watts 220-240V	Total Current	Power Factor
		@230V, 50Hz	
12L	77W	0.37	0.95
24L	159W	0.71	0.98

* Electrical data at 25°C (77°F)

LMF DURIS - RECOMMENDED LUMEN MAINTENANCE FACTORS (LMF)¹

Ambient	LMF iniziale	25K hr Projected ² LMF	50K hr Projected ² LMF	75K hr Calculated ³ LMF	100K hr Calculated ³ LMF
25°C	1	0,99	0,98	0,98	0,97

¹ Lumen maintenance values calculated at 25°C , with TM-21 based on LM-80 data and on-site testing. DURIS for PS, PA Flood 60°
In accordance with IESNA TM-21-11, the values shown in the "projected" column represent interpolated and arc values within six times (6X) the total duration in hours of the tests (performed according to IESNA LM-80-08) to which the device has been subjected ((OUT) e.g. the LED chip).
² In accordance with IESNA TM-21-11, the values shown in the column "calculated" are calculated based on a time span greater than six times (6X) the total duration in hours of the tests (performed according to IESNA LM-80-08) to which the device has been subjected ((OUT) e.g. the LED chip).

WEIGHT

Single Module	2.5 Kg
Double Module	4.7 Kg



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Control options (Optics PA - PS - 60)

DIM - STANDARD PROGRAMS				
Setting Code	System Watts W	Nominal flux (lm)		Description
		4000K Ra70	5700K Ra70	
LUMEN PACKAGE 12L				
FX16ALSA0-S001	77 W	12983	12868	FIXED/DIMMABLE MAX OUTPUT 77W
FX16ALSA0-S002	52 W	9265	9183	FIXED/DIMMABLE MAX OUTPUT 52W
FX16ALSA0-S003	39 W	7157	7094	FIXED/DIMMABLE MAX OUTPUT 39W
LUMEN PACKAGE 24L				
FX16ALSA0-S001	159 W	25966	25736	FIXED/DIMMABLE MAX OUTPUT 159W
FX16ALSA0-S002	126 W	21860	21666	FIXED/DIMMABLE MAX OUTPUT 126W
FX16ALSA0-S003	103W	18530	18366	FIXED/DIMMABLE MAX OUTPUT 103W
FX16AXSA0-S004	77 W	14314	14187	FIXED/DIMMABLE MAX OUTPUT 77W



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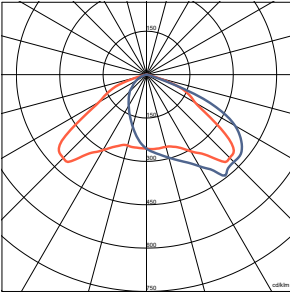
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Photometry

All published luminaire photometric testing performed by an external certified ISO 17025 laboratory.
To obtain an IES file specific to your project consult: www.creelighting-europe.com

PA – PETROLEUM ASYMMETRIC

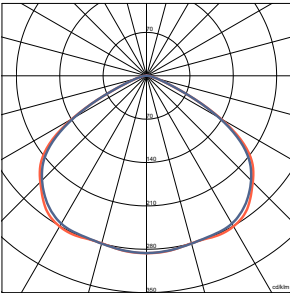


Test Report#: Z38-QL22-R12

LUMEN OUTPUT PETROLEUM ASYMMETRIC		
Lumen Package	4000K Ra70	5700K Ra70
	Initial Delivered Lumens*	Initial Delivered Lumens*
12L	11382	11281
24L	22764	22562

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens

PS – PETROLEUM SYMMETRIC

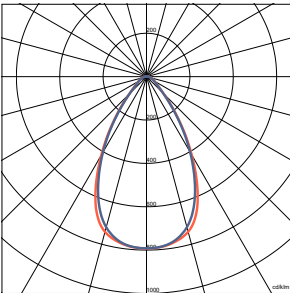


Test Report#: Z38-QL22-R12

LUMEN OUTPUT PS - PETROLEUM SYMMETRIC		
Lumen Package	4000K Ra70	5700K Ra70
	Initial Delivered Lumens*	Initial Delivered Lumens*
12L	11798	11693
24L	23595	23386

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens

60 – 60° FLOOD



Test Report#: Z38-QL22-R15

LUMEN OUTPUT 60 – 60° FLOOD		
Lumen Package	4000K Ra70	5700K Ra70
	Initial Delivered Lumens*	Initial Delivered Lumens*
12L	11309	11209
24L	22618	22418

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens