



PRODUCT FEATURES

1. Waterproof floodlight for surface installation, replacing traditional luminaires.
2. Its aluminum reflector creates a perfectly homogenous visual effect that can not be differentiated from traditional halogen.
3. The aluminum structure allows fast cooling of the chip, a great efficiency in the conduction of heat and a great performance in the thermal dissipation.
4. Led-by-pass technology: If a led is damaged, it will not affect the rest, nor will it increase its operating current.
5. Internal driver with intelligent constant current technology, stable current output.

PRODUCT ICONS FEATURE



5 years



INVENTRONICS

PHILIPS

LUMILEDS



General Information

Product Range: Outdoor
Product Family: Projection Lighting
Product Model: Flood Lights

Series Reference: EXPTH
Warranty: 5 years
Lifespan @ Ta=25°C: L70-L80 F10 100,000 h
Lifespan @ Ta=40°C: L70-L80 F10 60,000 h

Electric Specifications

Voltage (V): 100-240VAC
Frequency (Hz): 50-60 Hz
Power Factor (PF): >0.95
Flicker (%): <0.04
Total Harmonic Distortion (THD %): <20%
Protection Class: II

Light Specifications

System Luminous Efficacy (lm/W): 120-130 lm/W ±10%
Color Render Index (CRI >Ra): >80
Correlated Color Temperature (CCT °K): 2500K-6500K // RGB
Color Consistency (SDCM): <4
Beam Angle (Degrees): Different options regarding lens type
Upper Light Output Ratio (ULOR %): 0%

Protection Specifications

Index of protection (IP): IP66
Surge Protection: Optional

Application Conditions

Storage Temperature (°C): -40°C - +85°C
Operating Temperature (°C): -40°C - +60°C
Operating Humidity (RH): 5-95%RH

Control And Communication

Dimming Function: 0-10V/PWM/DALI/DMX (Optional)
Other Sensors Options: Photoelectric Movement (Optional)
Wireless Communications Compatibility: Optional
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Installation And Maintenance

Type: Surface
System: Flange (U) bracket to ceiling or wall
Vertical Angle Adjustment: Yes
Horizontal Angle Adjustment: Yes
Replaceable Light Source: Yes
Replaceable Driver: Yes
Replaceable Lens: Yes
Replaceable Cover: No
Housing Opening System: Stainless steel screws
Wire Connectors System: Waterproof quick Threaded fastener

PCB

PCB Type: MC PCB
PCB Material: Aluminum
Thermal Visc: Yes
Lead Bypass Protection: Yes
Overheating Protection: Yes

LED

Brand: PHILIPS
Type: SMD
Model: S050

Driver

Brand: Inventronics
Series Type: EUCE80 (Other series optional)
Internal or External: Internal
Isolated or Not: Isolated

HeatSink

Thermal Interface Material (TIM): Yes
Body Material: Aluminum
Fins Material: Aluminum
Extra Cooling System: The whole structure of radiation

Housing

Body Material: Aluminum anodized
Finishing: Aluminum
Color RAL: Grey
Cover Material: Tempered glass
Cover Type: Clear
Locking System: Stainless steel screws

Optical

Lens Material: PC

Wire Connection

Cable Material: 3 * 1.0mm rubber with cold-pressed terminal
Connectors System: Waterproof threaded fastener connector

Matters Need Attention

- Matters need attention: 1. Before use, should carefully read the instructions, to avoid accidents and damage.
2. Please wear gloves to avoid injury before installation work.
3. Lighting installation, and wiring work must be carried out in the absence of power.
4. Power line joints must do insulation, waterproofing treatment.
5. Do not look directly at the light emitting LED lighting in close distance, ensure not hurt the eyes.

APPLICATION

- Facades
- Projection lighting
- Sports
- Puddle



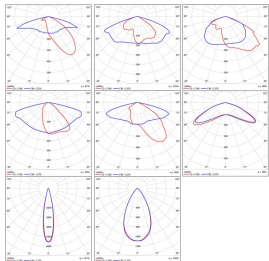
PRODUCT PARAMETERS

Reference	System Power	N° LED	Current (mA)	System Efficiency (lm/W)	Continuous Flux (lm)				Lumen maintenance @ Year=20%	Dimensions	Height (kg)
					0°	30°	60°	90°			
EXP742	40W	48	48mA	120 lm/W a120%	4950	5298	5475	5670	LM7 F12 100-000h	480°360°170mm	7.2
	50W	60	60mA	120 lm/W a120%	7140	7596	7950	8310	LM7 F12 100-000h		
	80W	96	96mA	120 lm/W a120%	9570	10224	10590	11085	LM7 F12 100-000h		
	80W	96	96mA	120 lm/W a120%	10710	11336	11810	12270	LM7 F12 100-000h		
	100W	120	120mA	120 lm/W a120%	12710	13460	13940	14510	LM7 F12 100-000h		
	120W	144	144mA	120 lm/W a120%	15750	16656	17160	17730	LM7 F12 100-000h		
EXP744	300W	360	360mA	120 lm/W a120%	37650	40008	41550	43110	LM7 F12 100-000h	480°360°170mm	8.8
	300W	360	360mA	120 lm/W a120%	43770	46320	47970	49620	LM7 F12 100-000h		
	300W	360	360mA	120 lm/W a120%	49890	52656	54450	56250	LM7 F12 100-000h		
EXP746	400W	480	480mA	120 lm/W a120%	49890	52656	54450	56250	LM7 F12 100-000h	550°461°160mm	13.2
	400W	480	480mA	120 lm/W a120%	57870	60864	62810	64760	LM7 F12 100-000h		
EXP748	320W	384	384mA	120 lm/W a120%	37770	40032	41530	43030	LM7 F12 100-000h	480°312°160mm	26.8
	400W	480	480mA	120 lm/W a120%	49890	52656	54450	56250	LM7 F12 100-000h		
EXP749B	120W	48	48mA						LM7 F12 100-000h	480°360°170mm	8.8
	100W	96	96mA						LM7 F12 100-000h	550°461°160mm	13.2
	80W	144	144mA						LM7 F12 100-000h	580°512°160mm	26.8

PRODUCT CONFIGURATOR

Model	Power	Color CCT	Voltage	Lens	Control	Options
EXP718	100W	AM82	120V	LR81	0-10V	EXPRESS
EXP718	120W	2200K	120V-120V	Asymmetric distribution 1	Dimming 0-10V	Photoelectric control sensor
EXP718	120W	AM82	240V	LR82	ELB	INTEGRATED
EXP718	200W	2700K	200V-240V	Asymmetric distribution 2	Constant Light Output	PW-LIGHTPROOF
EXP718	240W	6W	6000K	LR83	OTL830	External surge protection device 120V
EXP718	240W	6W	6000K	Asymmetric distribution 3	0-10V/0-10V/PWM/Triac	INTEGRATED
EXP718	300W	6W	6000K	LR84	OTL830-180	PW-SDK
EXP718	300W	6W	6000K	Asymmetric distribution 4	0-10V/PWM/Triac	External surge protection device 200V
EXP718	400W	6W	6000K	LR85	DALI	INTEGRATED
EXP718	400W	6000K	60V-105V	Asymmetric distribution 5	Light-Addressable Lighting Interface	
EXP718	400W	800	Red-Green-Blue	LR86	INCHILL	
EXP718	400W	3000K		Symmetric distribution 6	Control of lighting and effects of the stage	
EXP718	60W	VW	3000K	LR87	HC	No control
EXP718	80W	3000K		Symmetric distribution 7	PWM	
EXP718	80W	3000K		LR88	Pulse Width Modulation	
EXP718	80W	3000K		Symmetric distribution 8	Time Regulation System	
EXP718	80W	3000K			Triac for Alternating Current	

LIGHT DISTRIBUTION IMAGE



Successor(s)

PRODUCT DIMENSIONS



