

200+ Patent Certificates
\$1,000,000+ Annual Energy Saving
20,000+ Projects Successfully Installed

PRAHA[®]
LIGHTING



LED High Mast Light

Power: 230W - 720W

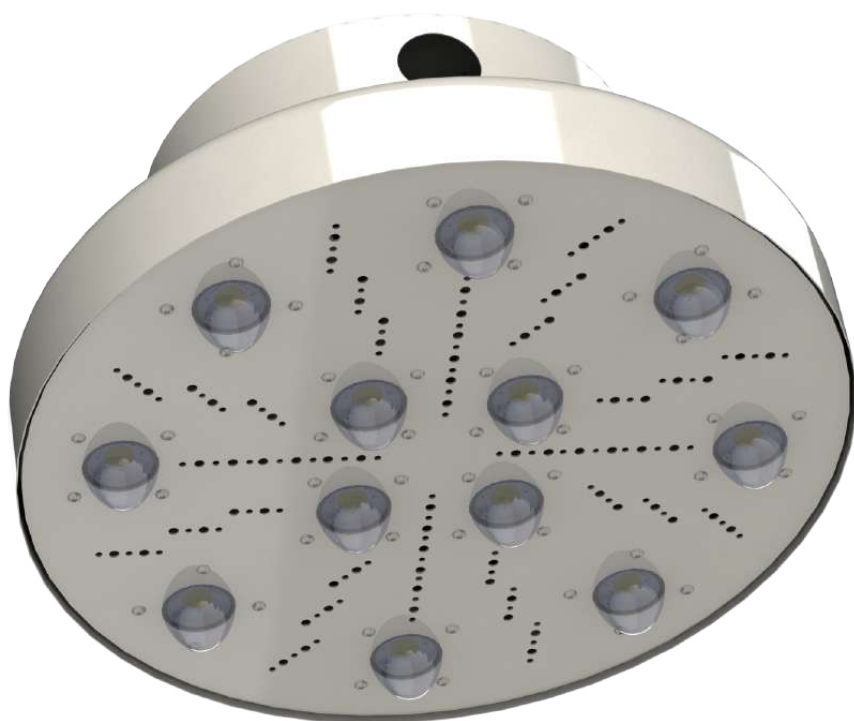


**Innovative & Tailored
Lighting Solutions for Success**
www.prahalighting.com



For others & details please request

Features of PSH Series



PSH2



WARRANTY

5 Year Limited Warranty,
10 Year Preferred Warranty.
Please consult with our sales for detailed agreement.

PSH features a smart lighting system with an easy-to-install lid-latch driver box. Its rugged, weather-tight design, corrosion-resistant polyester powder coating, and up to 5G vibration ratings (for certain models) ensure durability. The PMMA material uses a matrix full light-cutting design with a concave light retaining wall to remove excess light and enhance light control, meeting users' range requirements. The lamp's streamlined body features fin-type heat dissipation, edge sinking design, and convection vents for optimized air flow and extended fixture life. It has an IP66 protection grade, waterproof structure, IK10 shake-proof rating, and high-resistance silicone waterproof ring for double protection. The super bracket design supports over 10 times the lamp's weight, offering a higher safety factor. Induction mounting holes are included for future functional upgrades.

Benefits for choosing PSH



• Tool-Less Maintenance

The driver box requires no tools for maintenance and is easily manageable. Hand clamp-proof.



• Professional Optic Design

Various lenses for professional street lamp glare control and light distribution.



• Exceptional Impact Resistance

Passed 5G Shock Resistance Test.



• Environmental Concept

CCT (2700K~3000K) optional, reducing ecological impact, and friendly to insects and animals.



• Easy Installation

Quick internal wiring connection.



• Multiple Accessories and Options

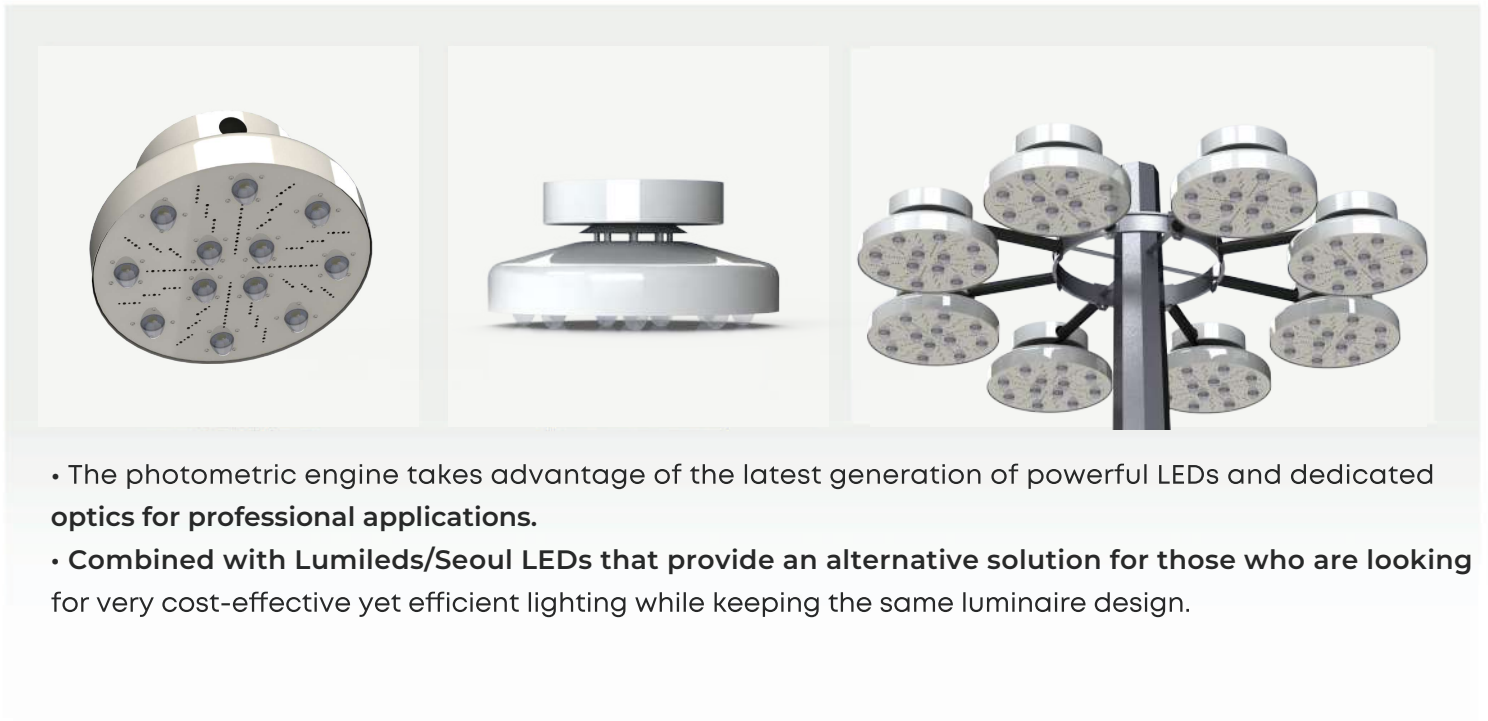
Supports accessories and options such as Photocell (Nema), 3pin/7pin bases, ZigBee, LoRa, Zhaga bases, Dali, Casambi, NB-IoT control.



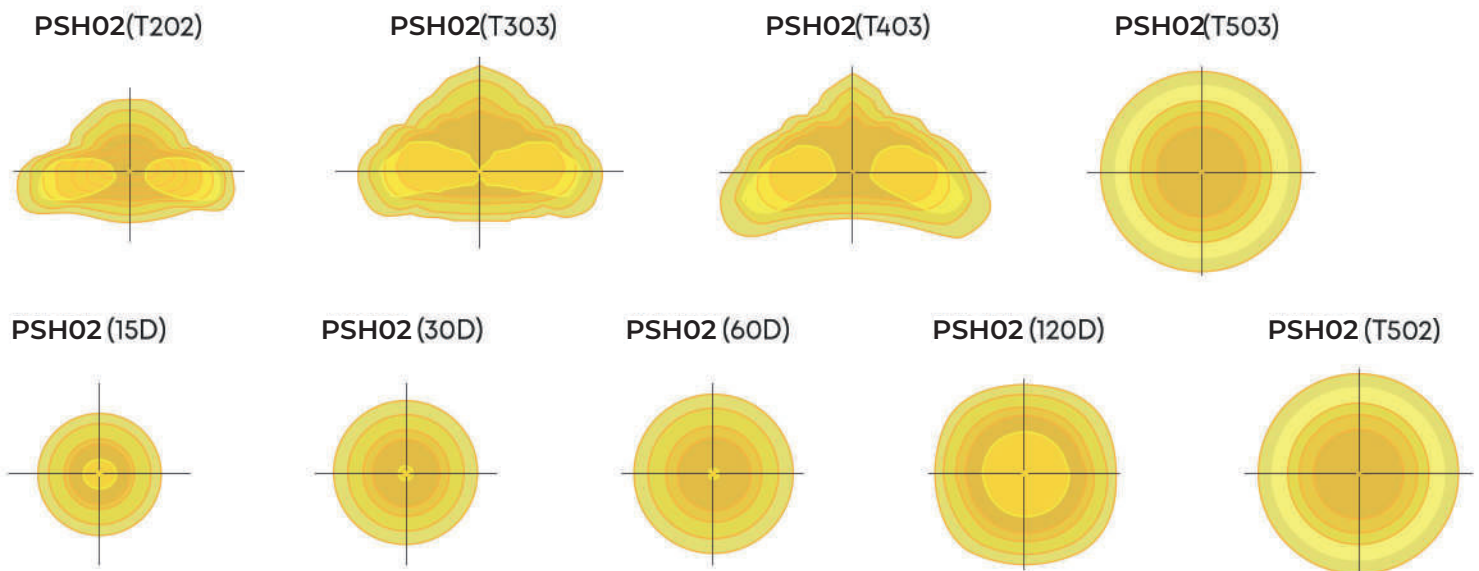
PSHlight engine using reflective technology to optimize application efficiency and minimize glare. The efficient design of the LED modules makes each light engine highly customizable, allowing the light distribution to be aimed toward the application.

- LM-79 test and report in accordance with IESNA Standard.
- PSH02: 2700K~6500K CCT
- Minimum CRI of 70, 80 and 90 optional.

We deliver innovation and customization, further expanding the flexibility of the project. Exceptional uniformity and low glare for maximum comfort.



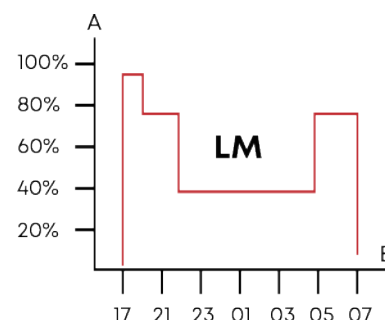
Distribution



1

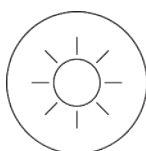
Custom Dimming Profile

Smart luminaire drivers enable the programming of complex dimming profiles without extra wiring. Customized time intervals and light levels contribute to maximum energy savings, maintaining required lighting levels and uniformity throughout the night.



Daylight Sensor / Photocell

Photocell or daylight sensors switch the luminaire on as soon natural light falls to a certain level. It can be programmed to switch on during a storm, on a cloudy day (in critical areas) or only at night fall so as to provide safety and comfort in public spaces.



3

Smart standards. Smarter lighting.

LoRaWAN[®] Luminaire Controller Zhaga is a wireless device for remote LED luminaire control with a Zhaga-compliant connector and DALI interface. It's compatible with LoRaWAN[®], NB-IoT, and LTE-M networks, featuring a modern, compact design suitable for various street lighting modules.

LoRaWAN[®] Luminaire Controller NEMA is designed for LED luminaires with an ANSI C136.41 NEMA receptacle. It controls the luminaire through DALI or 0-10V analog interfaces and provides a secure power connection with three robust twist lock contacts.

Application Reference

PRAHA[®]
LIGHTING

- Road & highway lighting
- Urban road & street lighting
- Residential area lighting
- Parks & perimeter lighting
- Parking lot lighting
- Riverside & jogging track



High Mast
Lighting



Main road
& Highway



National
Parade Square



Port &
Loading Bay

Parameter Table

Electrical Specifications												
Model	PSH -230W		PSH -315W		PSH -380W		PSH -460W		PSH -580W		PSH -720W	
Power(W)	230 W		315 W		380 W		460 W		580 W		720 W	
Input Voltage	Normal Voltage=100-277VAC, High Voltage=277-480VAC, please read *Note-1 before choosing.											
THD	<20%											
PF	>0.90											
Control Option	DALI, 1-10V/ PWM / timer dimming, Nema, Zhaga, Presence detection sensor. 3 or 7 pin receptacle reserved.											
Operating Temperature	-40°C to 55°C (-40 °F to 131 °F)						-40°C to 50°C (-40 °F to 122 °F)					
Driver Brand	Inventronics or others											
Surge Protection	20KV Standard											
Photometric Specifications												
	Y22-T303	140 lm/W	135 lm/W	130 lm/W	140 lm/W	135 lm/W	130 lm/W					
	Y22-T403	*	*	*	*	*	*					
	Y22-T503	*	*	*	*	*	*					
	S5-T202	155 lm/W	150 lm/W	145 lm/W	*	*	*					
	S5-T302	*	*	*	*	*	*					
	S5-T402	*	*	*	*	*	*					
	S5-T502	175 lm/W	170 lm/W	165 lm/W	175 lm/W	170 lm/W	165 lm/W					
	S5-PC-15D	145 lm/W	140 lm/W	135 lm/W	145 lm/W	140 lm/W	135 lm/W					
	S5-PC-30D	170 lm/W	165 lm/W	160 lm/W	170 lm/W	165 lm/W	160 lm/W					
	S5-PC-60D	175 lm/W	170 lm/W	165 lm/W	175 lm/W	170 lm/W	165 lm/W					
	S5-PC-120D	*	*	*	175 lm/W	170 lm/W	165 lm/W					
	Y22-T303	32200 lm	42525 lm	49400 lm	64400 lm	78300 lm	93600 lm					
	Y22-T403	*	*	*	*	*	*					
	Y22-T503	*	*	*	*	*	*					
	S5-T202	35650 lm	47250 lm	55100 lm	*	*	*					
	S5-T302	*	*	*	*	*	*					
	S5-T402	*	*	*	*	*	*					
	S5-T502	40250 lm	53550 lm	62700 lm	80500 lm	98600 lm	118800 lm					
	S5-PC-15D	33350 lm	44100 lm	51300 lm	66700 lm	81200 lm	97200 lm					
	S5-PC-30D	39100 lm	51975 lm	60800 lm	78200 lm	95700 lm	115200 lm					
S5-PC-60D	40250 lm	53550 lm	62700 lm	80500 lm	98600 lm	118800 lm						
S5-PC-120D	*	*	*	80500 lm	98600 lm	118800 lm						
ULOR	PSH = 0%, @ Luminaire inclination 0°											
CCT	PSH02:2700K~6500K											
CRI	70Ra, 80Ra, 90Ra optional											
Beam Angle	PSH 02:T2/T3/T4/T5; PSH 02:15D/30D/60D/120D/T5											
Mechanical Specifications												
IP/IK	PSH02: IP66/IK10											
Vibration Resistance	3G/5G vibration rated (please request for details), conform to standard IEC 68-2-6.											
SCx(EPA)	Top: 0.230256m² (2.48ft²); Front: 0.105389m² (1.13ft²); Left: 0.0720093m² (0.78²); Top: 0.297089m² (3.20ft²); Front: 0.114723m² (1.23ft²); Left: 0.0811475m² (0.87ft²);											
Housing/Materials	Heavy-duty die-cast aluminum (EN AC-46100)											
Surface Treatment	Anti-UV thermosetting polyester / 80 micron epoxy primer + Anti-UV thermosetting polyester (for extremely corrosive environments).											
Painting	Black, Silver gray, Customized color											
Cable	Pre-wired with a 30 cm cable (Other lengths on request)											
Mounting	Slip fitter											
LED												
LED Manufacturer	LUMILEDS/Seoul											
LED Model	Seoul 5050/Seoul Y22											
	Y22-T303	317 mA	412 mA	436 mA	339 mA	399 mA	465 mA					
	Y22-T403	*	*	*	*	*	*					
	Y22-T503	*	*	*	*	*	*					
	S5-T202	*	*	*	*	*	*					
	S5-T302	*	*	*	*	*	*					
	S5-T402	*	*	*	*	*	*					
	S5-T502	66 mA	90 mA	108 mA	62 mA	78 mA	97 mA					
	S5-PC-15D	55 mA	77 mA	92 mA	67 mA	84 mA	105 mA					
	S5-PC-30D	34 mA	47 mA	56 mA	40 mA	50 mA	63 mA					
	S5-PC-60D	34 mA	47 mA	56 mA	40 mA	50 mA	63 mA					
Lens	Polycarbonate / Tempered glass											
Others												
Lifespan	L80B10 > 108000 h, @Tq 55°C											
Warranty	5 years in standard, 10 years optional											
Certification	UL/cUL/FCC/CE/ENEC/SAA/GS, For other certificates please request											
Product Size(mm)	650*284mm											
Net Weight(kg)	15.5kg											
Recommended Installation Height	20M	25M	30M	35M	40M	45M						
Application field	Suitable for port, railway station, highway express											
Important note!	The provided information is solely for reference; the official measurement report holds higher authority.											
*** Stands for the lens module is under development, and the specific parameters will be calculated according to the actual project requirement.												

* Note-1: For the power supply in the United States and Canada, in case the input voltage fluctuation ≥240V the High Voltage solution is highly recommended for performance stability. Improper selection will cause damage to the driver or the light.

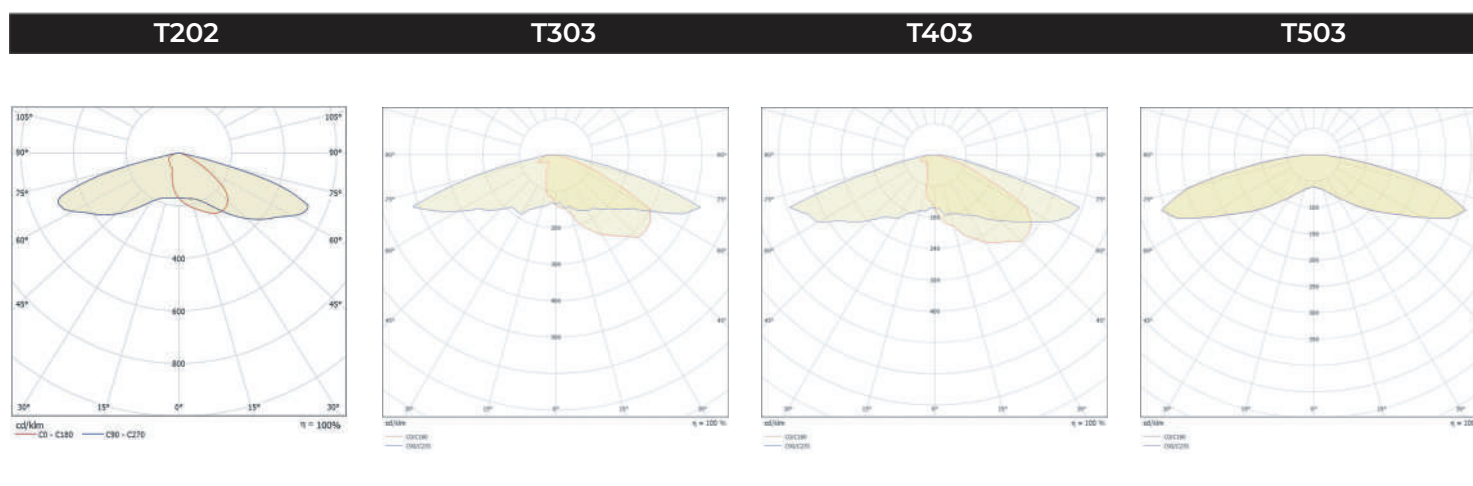
Ordering Information

AOK	-	-	-	-	-	-	-	-	-
WATTS	TYPE	VOLTAGE	LED CHIPS	TYPE OF SENSOR	*CCT&CRI	*DISTRIBUTION	MOUNT	HOUSING	
230WPSH	01	NV=100-277V	S5=Seoul 5050	00=Without Sensor	2770=2700K 70CRI	15D=15°	A=Slip Fitter	BK=Black	
315WPSH	03	HV=277-480V	Y22=Seoul Y22	DV=Dimmable	3070=3000K 70CRI	30D=30°		SL=Silver Gray	
380WPSH				PH=Photocell	4070=4000K 70CRI	60D=60°			
460WPSH					5070=5000K 70CRI	120D=120°			
580WPSH					5770=5000K 70CRI	T2=T202			
720WPSH					6570=6500K 70CRI	T3=T303			
					2780=2700K 80CRI	T4=T403			
					3080=3000K 80CRI	T5=T503			
					4080=4000K 80CRI				
					5080=5000K 80CRI				
					5780=5700K 80CRI				
					6580=6500K 80CRI				

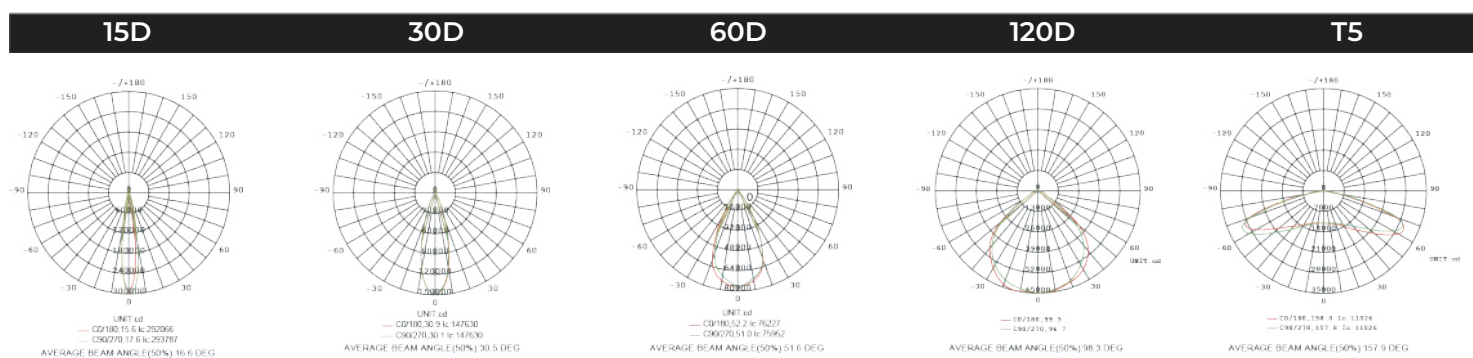
*CCT&CRI: PSH02: 2700K-6500K CCT

Photometry

PSH01 VERSION PHOTOMETRY



PSH03 VERSION PHOTOMETRY



All published Luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited Laboratory.

IsoCandela Plot

This plot displays the beam spread distribution at a distance of 164.503.6 meters. The horizontal axis represents longitude from -80° to 80°, and the vertical axis represents latitude from -80° to 80°. Concentric circles represent different candela levels.

Candela Level	Count	Percentage
Cd: 146,143	90%	
Cd: 123,453	75%	
Cd: 90,762	60%	
Cd: 82,302	50%	
Cd: 65,841	40%	
Cd: 49,381	30%	
Cd: 32,821	20%	
Cd: 16,460	10%	

--- Point of Max Cd: 164.503.6

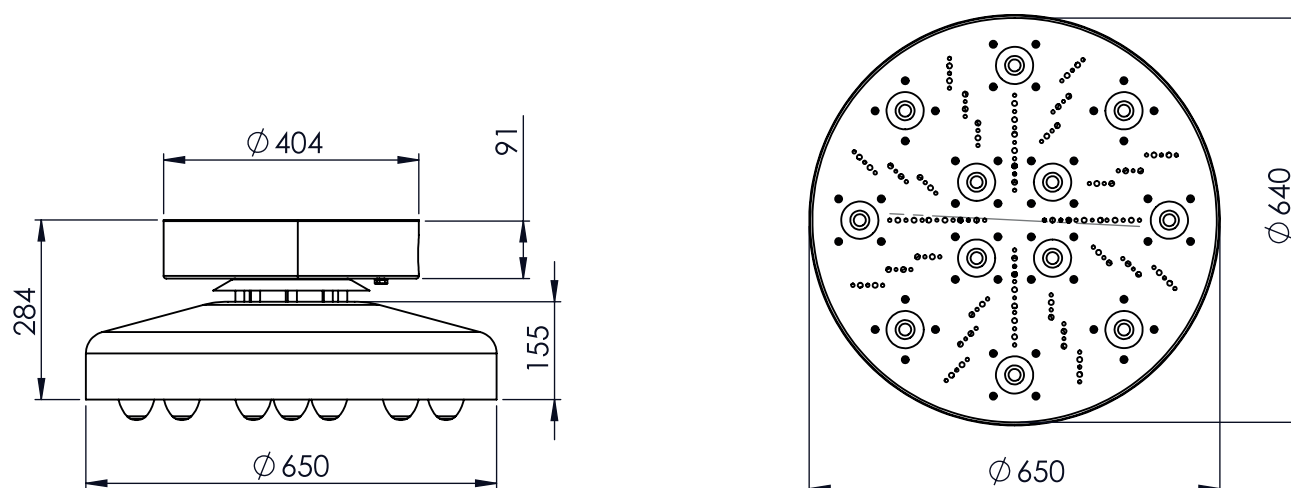
IsoCandela Plot

Legend:

- Cd: 68,653, 90%
- Cd: 57,211, 75%
- Cd: 45,769, 60%
- Cd: 38,141, 50%
- Cd: 30,513, 40%
- Cd: 22,884, 30%
- Cd: 15,256, 20%
- Cd: 7,628, 10%

--- Point of Max Cd: 76.330.6

Fixture Dimensions



Mounting & Accessories



- Heavy-duty die-cast aluminum housing, anti-corrosion.
- Lid-latch driver box design & tool-less entry for easy maintenance.
- Side entry and bolt mounting installation, easy & fast.
- 3G/5G vibration rated (please request for details), conform to standard IEC 68-2-6.

Control Options



Photocell



Shorting cap



3 pin/7 pin receptacle



*As the products are upgraded, the accessories may differ from those described in the pictures. Please consult with our sales team for updated details and order separately.



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WARRANTY

5 Year Limited Warranty,
10 Year Preferred Warranty.
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