

P 5500 Series

PAR38 LED Architectural Downlighting



Advantages of P5500

- High Efficacy (lm/W) PAR 38 down light
- High-Tech energy efficient design with a **Short ROI Period**
- High CRI, glare-free uniform lighting
- **Advanced integrated thermal technology** enables low LED Junction Temperatures (Tj) for maintenance free long life.
- 5-Year Limited Warranty
- **Dimmable** built-in LED driver with **Smart Circuitry** enables greater protection when used in unstable electrical grids
- **Indoor / Outdoor** all-in-one PAR lamp for retrofit or new construction
- Designed and Engineered in the **USA**

Application

- Residential
- Retail
- Hospitality
- Healthcare
- Display

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Features

- P5500 Light Module is designed to last 60,000 hours with a minimum of 70% Lumen Maintenance
- High lumen output & high efficacy
- Available in warm 2700 / 3000K, neutral 4000K and cool 5000K white
- Dimmable to 25% with selected dimmers
- Available in GU-24 Base for high efficacy line voltage sockets
- Suitable for recessed IC and non IC housings
- Indoor / outdoor: Ideal for damp locations

Housing

- Proprietary **Air-Flow Convection® System** designed to minimize heat and maximize LED life by reducing the junction temperature of the LED when used in environments exceeding 50°C (122°F)
- P5500 is manufactured using only the highest grade alloys and proprietary die-casting technology in the construction of the dome housing and heat sink to maximize performance and minimize cooling cost

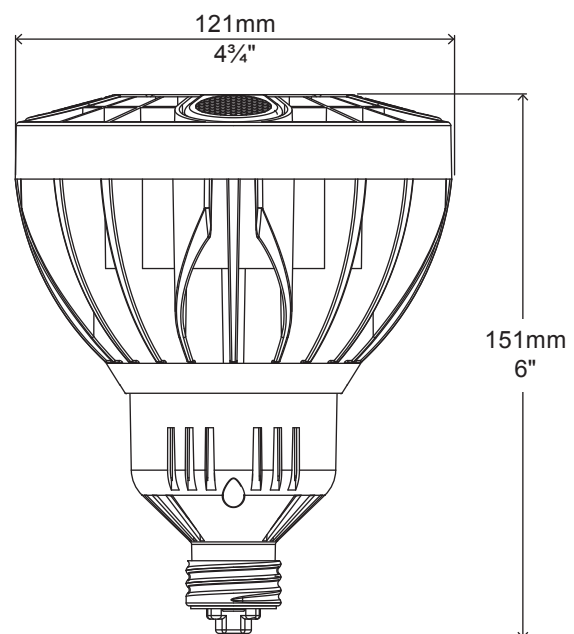
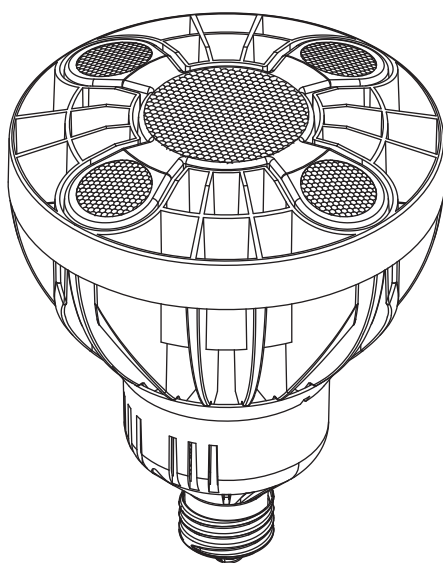
Electronics

- Patented MCPCB technology enables ultra low LED junction temperatures for maintenance free long life
- Integrated high efficiency LED driver and power supply
- Smart circuitry with surge and transient voltage protection
- Precisely controlled **constant current** draw for stable power source
- Powered by industry leading high brightness **LED** chip

Optics

- Proprietary high efficacy optical design using **Total Internal Reflection (TIR)** to deliver light where you need it most.

External Dimensions



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Sockets

E26/27 Standard Edison Socket



Mounting options



INDOOR CAN / RETROFIT

Part Number	Part Description
RH5500	RH5500 - Recessed Housing for Retrofit



SURFACE MOUNT / OUTDOOR CAN

Part Number	Part Description
SMHP5500E-W	P5500 E26/27 Socket / Surface Mount Housing / Indoor / White



INDOOR CAN / NEW CONSTRUCTION

Part Number	Part Description
NH5500	NH5500 - Recessed Housing for New Construction

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Ordering Information

P550	Voltage	Socket	-	CCT	Trim Color
	1 = 110VAC 2 = 220VAC	E = E26/27		27 = 2700K 30 = 3000K 40 = 4000K 50 = 5000K	M = Mocha W = White

Example

Part Number	Part Description
P5501E-30W	13Watt 110VAC E26/27 Standard Edison Socket / Dimmable / 3000K Warm White / White Trim

Packaging Information

Case Quantity	Dimensions (LxWxH)	Weight
24	68 x 52 x 37 cm 26¾ x 20½ x 14⅝ in	23.07 kg 50.75 lbs

LED Driver Electrical Specifications

AC Input: 110VAC or 220VAC / 0.3-0.15A / 47-63Hz	Output: 28VDC - 475mA
Input Inrush Current: < 10A / 115VAC, < 20A / 230VAC	Tolerance: ±7%
Power Factor: > 0.94 at Full Load, 115VAC, 230VAC	MTBF(@25°C): >100,000 Hours, MIL-217F
Current Crest Factor (Ipk): 1.5 Max	Safety: UL1310 Class 2, CE, RoHS, TUV
Total Harmonic Distortion: 20% Max	Meet: EN55015, EN61547, EN61347-2-13, EN6100-3-2,
Efficiency: TYP 85%	EN61000-3-3, FCC Class B
Protection OCP, SCP, OVP - Auto Recovery	Surge Protection: 4KVAC / 3 seconds

Dimmable with Selected Dimmers and On/Off Step Dimming
 T1: 100%, T2: 75%, T3: 50%, T4: 25% (on/off time interval 1.5 sec).
 NOTE: All Values Have ±7% Tolerance

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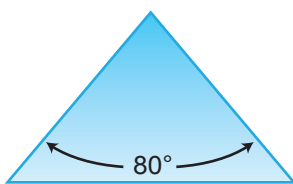
Specification

Fixture Watts *	13 Watt
Lumens (Total) *	1,100 Lumens
Efficacy *	84 Lumens / W
LED Model	Lumileds
T _s - Solder Point Temp *	54°C
Operational Temperature (T _a)	-40°C ~ 45°C /
Light Beam Angle	120°
Incandescent Equivalence	110VAC or 220VAC / 0.3-0.15A / 47-63Hz
Input Voltage	100 Watt
CRI	85
Lighting Control	Triac - 10% / Step - 25%
Warranty	5-Year Limited
Storage Temp. / Humidity	-40°C ~ 80°C / 20 - 95% RH non - condensing

* Test data @ T_a: 25°C
 NOTE: All Values Have ±7% Tolerance



Illumination Levels



Height	LUX	FC
2m / 6.5ft	134	12.4
3m / 9.8ft	62	5.8
4m / 13ft	36	3.3
5m / 16.5ft	24	2.2

NOTE: Light Intensities Are Measured Directly Below The Fixture Using Clear Lens.
 All Values Have ±7% Tolerance.

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Photometry (LM79 Test Number LTL 28698)

Average Luminance Table (cd/m²)

		Horizontal Angle (°)		
		0	45	90
Vertical Angle (°)	0	59700	59700	59700
	45	13090	13090	13090
	55	8738	8738	8738
	65	7167	7167	7167
	75	6979	6979	6979
	85	9629	9629	9629

NOTE: All Values Have ±7% Tolerance

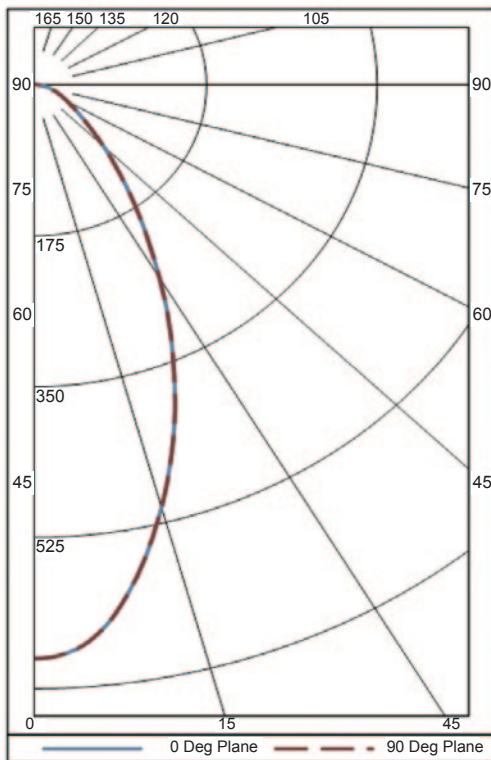
Lumen values may be lower than those indicated on the product specification page due to technological advancements.

Zonal Lumen Tabulation

Zone (°)	Lumens	Zone (°)	Lumens
0-5	15.72	45-50	35.49
5-10	44.20	50-55	28.11
10-15	64.65	55-60	22.61
15-20	76.04	60-65	18.61
20-25	78.74	65-70	15.20
25-30	74.46	70-75	12.17
30-35	65.35	75-80	9.30
35-40	55.04	80-85	6.50
40-45	44.81	85-90	3.75

NOTE: All Values Have ±7% Tolerance

Polar Plot



Intensity vs. Vertical Angle

