

LM Series

LED Architectural Downlighting



- HIGH LUMEN OUTPUT
- RECESS / SURFACE MOUNT
- GREEN ENERGY EFFICIENT LIGHTING

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Product Information

Light Emitting Designs introduces the ultimate in architectural lighting with the latest generation of LED technology in the all-new LM series architectural light.

The LM series surpasses all other recessed architectural LED light fixtures in the industry with its advanced design and engineering. The LM Series is designed for commercial and residential lighting used for both indoor / outdoor applications.

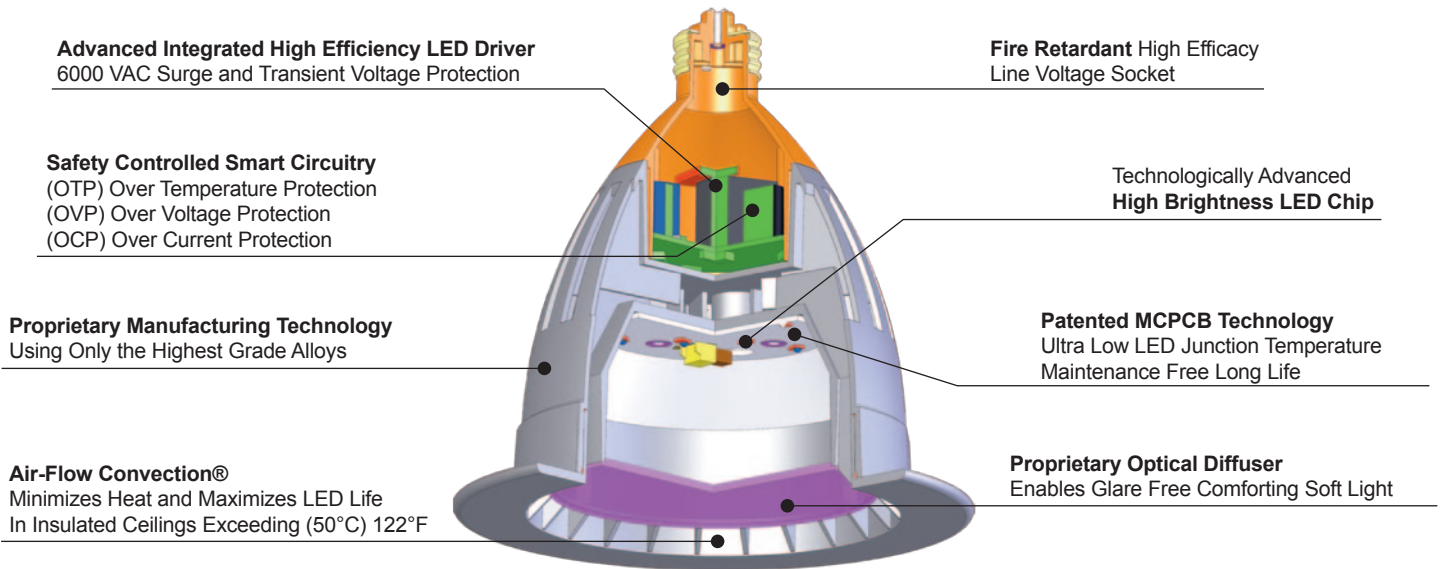
It fits in most standard recessed IC or non IC housings for retrofit or new construction. LM Series is able to obtain an unprecedented evenly uniform bright light, while maximizing the life of the LED light module.

US PATENT # 8,272,765 / 6,830,364 / US 2014 / 0301076A1 other US and international patents pending.

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Technical Drawing



Advantages of LM Series

- Ultra bright industry leading **High Efficacy (lm/W)** Luminaire
- Energy efficient luminaire with a **Short ROI Period**
- **High CRI** with warm comforting soft light
- **Uniform Glare-Free** lighting without the uncomfortable LED “eye piercing effect”
- **Patented thermal solution** enables low LED Junction Temperatures (T_j) 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 luminaire for retrofit or new construction
- Designed and Engineered in the **USA**

Application

- Residential
- Retail
- Hospitality
- Healthcare
- Schools
- Office

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Features

- **LM Series** 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 (excluding LM 200)
- 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)
- LM Series 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

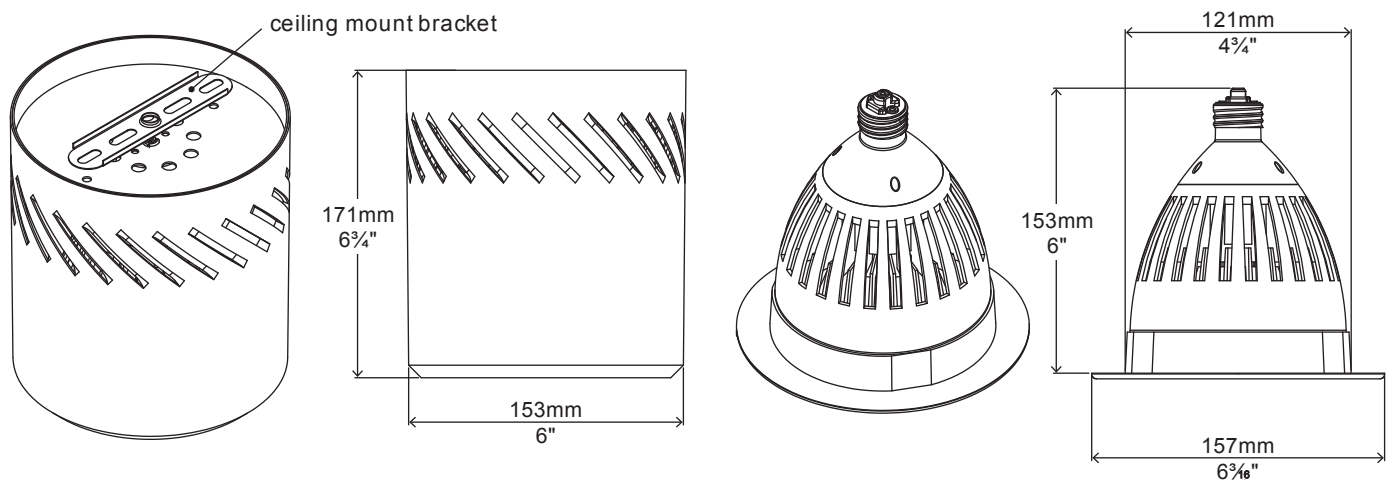
Electronics

- 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 reflector and optical diffuser system enables 120° glare-free comforting soft light without the uncomfortable LED “eye piercing effect”

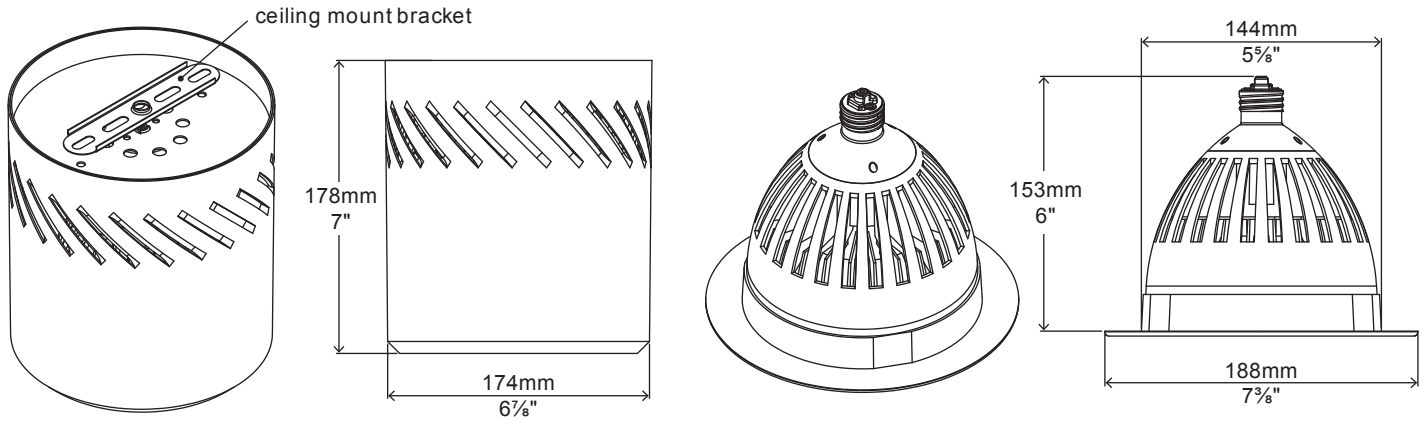
External Dimensions - LM120



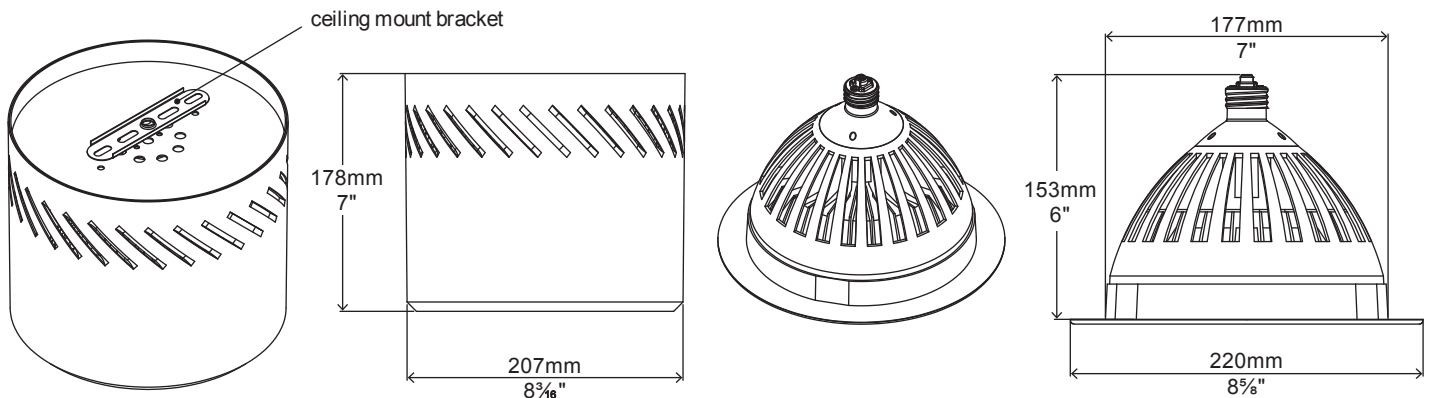
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External Dimensions - LM150



External Dimensions - LM200



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Sockets

E26/27 Standard Edison Socket



GU-24 Base Socket



Mounting options



INDOOR CAN / RETROFIT

Part Number	Part Description
RH120	RH120 - Recessed Housing for Retrofit
RH150	RH150 - Recessed Housing for Retrofit
RH200	RH200 - Recessed Housing for Retrofit



SURFACE MOUNT / OUTDOOR CAN

Part Number	Part Description
SMH120G-W	LM120 GU24 Base Socket / Surface Mount Housing / Indoor / Outdoor / White
SMH150G-W	LM150 GU24 Base Socket / Surface Mount Housing / Indoor / Outdoor / White
SMH200G-W	LM200 GU24 Base Socket / Surface Mount Housing / Indoor / Outdoor / White



INDOOR CAN / NEW CONSTRUCTION

Part Number	Part Description
NH120	NH120 - Recessed Housing for New Construction
NH150	NH150 - Recessed Housing for New Construction
NH200	NH200 - Recessed Housing for New Construction

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Ordering Information

LM	Series			-	CCT			-	Mounting *		
	Series	Voltage	Socket		CCT	Lip Length	Trim Color		Mounting *		
	120 150 200	1 = 110VAC 2 = 220VAC	E = E26/27 G = GU-24		27 = 2700K 30 = 3000K 40 = 4000K 50 = 5000K	L = Long Lip S = Short Lip	M = Mocha W = White		CA SA		

* Mounting Options: United States & Canada select CA, otherwise select SA.

Example

Part Number	Part Description
LM152E-30LW-SA	15Watt 220VAC E26/27 Standard Edison Socket / Dimmable / 3000K Warm White / Long Lip / White Trim / Spring Arm

Packaging Information

Model	Case Quantity	Dimensions (LxWxH)	Weight
LM120	12	61 x 41 x 41 cm 23 ⁵ / ₈ x 16 ¹ / ₈ x 16 ¹ / ₈ in	14.11 - 14.95 kg 31.04 - 32.89 lbs
LM150	12	68 x 47 x 40 cm 26 ³ / ₄ x 18 ¹ / ₂ x 15 ³ / ₄ in	16.70 - 17.78 kg 36.74 - 39.12 lbs
LM200	12	78 x 53 x 40 cm 30 ³ / ₄ x 20 ⁷ / ₈ x 15 ³ / ₄ in	21.37 - 22.33 kg 47.01 - 49.13 lbs

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Specification

Model	LM120	LM150	LM200
Fixture Watts *	13 Watt	14.5 Watt	19.5 Watt
Lumens (Total) *	1,200 Lumens	1,350 Lumens	1,850 Lumens
Efficacy *	92 Lumens / W	93 Lumens / W	95 Lumens / W
T _s - Solder Point Temp *	55°C	54°C	52°C
L70 rated @ 25°C	> 50K hours	> 50K hours	> 50K hours
Incandescent Equivalence	90 Watt	120 Watt	150 Watt
Operational Temperature (T _a)	-40°C ~ 50°C		
Input Voltage	110VAC or 220VAC / 0.3-0.15A / 47-63Hz		
LED Model	Nichia		
CRI	85		
Light Beam Angle	120°		
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

