

# Architectural Downlighting

## OM6LED RMDLR

6" LED 2000/3000 Lumen  
Remodeler/Retrofit Downlight



### Specifier's Reference

Project
Type
Model No.
Comments

### application

- Philips Omega LED 2000 lumen Remodel/Retrofit downlight is designed to upgrade existing 6" recessed to a higher energy efficient LED source. We provide the latest in LED technology an easy to install downlight that mounts into a variety of existing Philips Omega recessed housings as well as other competitive housings.

### light engine

- Philips Omega mixing chamber/optical assembly: Remote phosphor technology provides increased efficiency and color stability by redirecting back reflected light. Phosphor lens assembly converts high brightness blue light into white light for an even diffused pattern, eliminating bright spots often created by individual LEDs. This technology provides consistent, stable color with CCT color control of +/- 100K over the life of the light engine and provides 20% higher efficiency.
- LED Array: The LED Array consist of a metal core circuit board with 22 high brightness royal blue LEDs.
- Color: Available in three CCT options, 3000K, 3500K or 4000K with 80CRI +/-2%.
- Electrical: **(2000lm)** The power supply/driver features Advnon-dimming driver with 0-10V analog dimming capability. The power supply is overload and short circuit protected as well as thermally regulated to prevent overheating. Sound rating A. Refer to dimming compatibility spec sheet for complete details. Driver has rated lifetime of 50,000 hours. 70C maximum operating temperature, -20C minimum starting temperature.
- Electrical: **(3000lm)** The LED power supply/ driver by Advance Xitanium is available 120VAC or 277VAC, 60Hz with an overload and short circuit protected feature and it is thermally regulated to prevent overheating. 120VAC dedicated driver provides both 0-10V analog and (ELV) Trailing Edge dimming capabilities. 277VAC provides standard 0-10V analog dimming. Driver has a rated lifetime of 50,000 hours. Refer to 0-10V dimming capability spec sheet on [www.omegalighting.com](http://www.omegalighting.com) for complete details.
- Lifetime/Lumen Maintenance: 60,000 (2000lm) and (3000lm) 50,000 hour lifetime at 70% lumen maintenance light engine. (L70)

the housing yoke. The heat sink is designed to properly maintain junction temperatures in recessed Non-IC applications to provide reliable performance over the life of the light engine. The heat sink incorporates alignment tabs to properly position with the housing. Rust resistant springs are used to secure the reflector to the light engine. Fixtures should not operated or exceed ambient temperature above 40°C.

- Frame: Precision die stamped 16ga galvanized steel mounting pan and yoke assembly. Yoke supports weight of heat sink and light engine assembly to prevent stress on finished reflector.
- Reflector: Precision spun .050 aluminum reflectors are self flanged and snap to heat sink for consistent alignment to the optical assembly. Provides 50 degree visual cutoff to source and source image.
- Junction Box: 16 ga galvanized steel. UL listed for 8 No. 12 AWG, 90C through branch circuit conductors. Allows inspection below ceiling.
- Service: Modular construction allows for easy maintenance of complete system below ceiling. Removing reflector provides easy access to heat sink and light engine assembly. This assembly may be removed by depressing the springs which attach to the yoke and then simply opening protective cover and unplugging the push in connector from the LED board.

### installation

- Installation: Frame installs through existing ceiling opening and accommodates ceilings 1/2" - 1" depth. Detachable j-box can easily be wired from below the ceiling then rotated into place on the housing frame. The light engine assembly then can be connected and attached to the upper yoke support. Finally the reflector can be installed by attachment to the light engine.

### listings & warranty

- ETL, cUL Listed. (Suitable for wet location applications.)
- LED life calculations are based upon application junction temperatures an driver currents at or below IESNA - LM-80-08 manufacturer's test data. IES test performed per IESNA - LM-79-08.
- 5 year Warranty



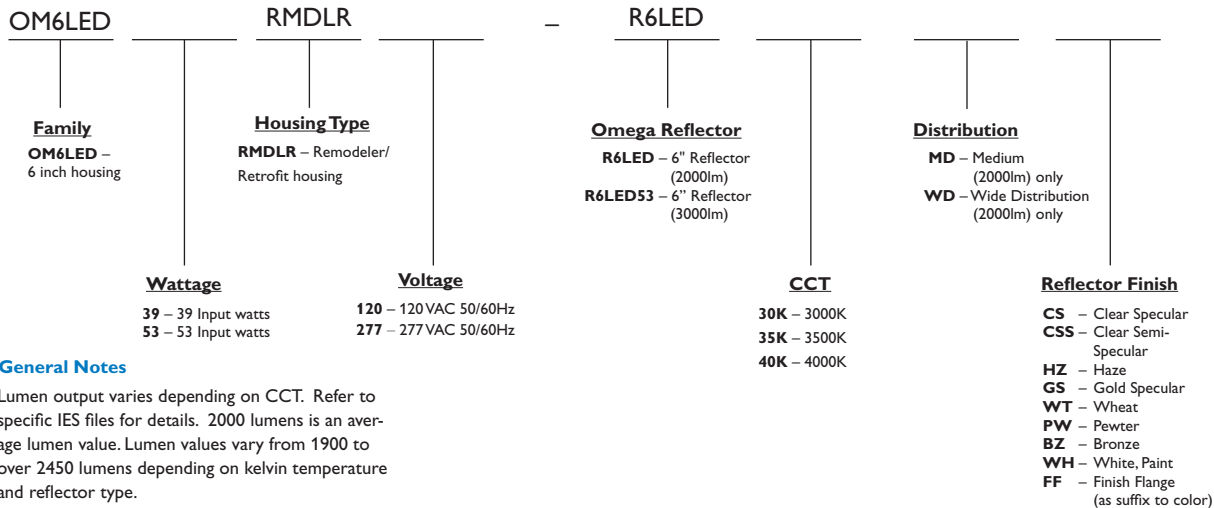
### construction

- Thermal Management: A proprietary die-cast aluminum heat sink allows for easy and tool-less installation to

## Green Choice: OM6LED39RMDLR120-R6LED30KMDCS

### HOUSING

### LIGHT ENGINE - REFLECTOR



### General Notes

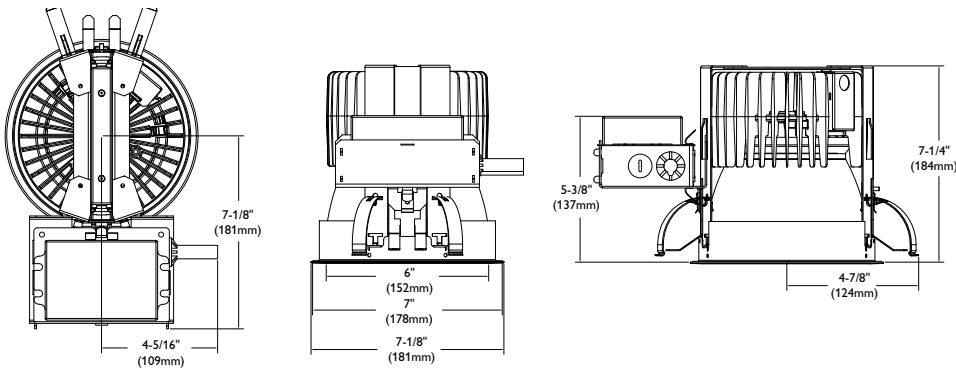
Lumen output varies depending on CCT. Refer to specific IES files for details. 2000 lumens is an average lumen value. Lumen values vary from 1900 to over 2450 lumens depending on kelvin temperature and reflector type.

## energy data

### 2000 Lumen Package

Input Voltage	Input Current	Drive Current	Input Power	LED Power	THD %	Power Factor
120	0.36	520mA	39	35.4	10%	>0.9
277	0.17	520mA	39	35.4	10%	>0.9

## dimensions



## compatibility

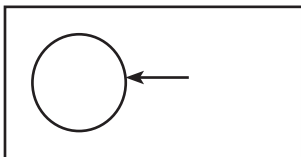
### Retrofit Housing Compatibility Chart

#### 6" Housing

Ordering Guideline	Min.	Max.
All Standard Housings	6-9/16"	6-7/8"

Larger Housings up to 8" 6-7/8" 8-1/2"  
(requires OMOV6-LEDRMDL Oversize Ring)

Dimensions shown are the inside diameter of the frames flange.



photometrics

**OM6LED39RMDLR120-R6LED35KMDCS**

Tested to LM-79 standards.

<b>Clear Specular Reflector</b> <b>Test No.</b> 19273D4 <b>S/MH</b> (0 degree plane) .86 <b>Lamp Type</b> (1) 22 Royal Blue LEDs <b>Total Fixture Lumens</b> 2102 <b>IES File</b> LTL19273D4 <b>Input Watts</b> 39 <b>Beam Angle</b> 59.30 <b>Luminaire Efficacy</b> 52.6 LPW	<b>Candela</b> <table border="1"> <thead> <tr> <th>Degrees</th> <th>At 0°</th> <th>At 90°</th> <th>Foot Lamberts</th> </tr> </thead> <tbody> <tr><td>90</td><td>0</td><td>0</td><td></td></tr> <tr><td>85</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>75</td><td>1</td><td>1</td><td>62</td></tr> <tr><td>65</td><td>1</td><td>1</td><td>38</td></tr> <tr><td>55</td><td>3</td><td>3</td><td>84</td></tr> <tr><td>45</td><td>77</td><td>77</td><td>1742</td></tr> <tr><td>35</td><td>517</td><td>517</td><td></td></tr> <tr><td>25</td><td>1978</td><td>1978</td><td></td></tr> <tr><td>15</td><td>2194</td><td>2194</td><td></td></tr> <tr><td>5</td><td>2321</td><td>2321</td><td></td></tr> <tr><td>0</td><td>2352</td><td>2352</td><td></td></tr> </tbody> </table>	Degrees	At 0°	At 90°	Foot Lamberts	90	0	0		85	0	0	0	75	1	1	62	65	1	1	38	55	3	3	84	45	77	77	1742	35	517	517		25	1978	1978		15	2194	2194		5	2321	2321		0	2352	2352		<b>Lighting Performance Data</b> <table border="1"> <thead> <tr> <th>Ceiling Height (feet)</th> <th>Initial Footcandles</th> <th>Beam Diameter (Ft/In)</th> </tr> </thead> <tbody> <tr><td>8</td><td>77.8</td><td>6 - 3</td></tr> <tr><td>10</td><td>41.8</td><td>8 - 6</td></tr> <tr><td>12</td><td>26.1</td><td>10 - 10</td></tr> <tr><td>14</td><td>17.8</td><td>13 - 1</td></tr> <tr><td>16</td><td>12.9</td><td>15 - 4</td></tr> </tbody> </table>	Ceiling Height (feet)	Initial Footcandles	Beam Diameter (Ft/In)	8	77.8	6 - 3	10	41.8	8 - 6	12	26.1	10 - 10	14	17.8	13 - 1	16	12.9	15 - 4																														
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 776 South Green Street • Tupelo, MS 38804  
 p. 800.234.1890 • f. 662.841.5501  
 www.omegalighting.com  
 Canadian Division  
 189 Bullock Drive • Markham, Ontario L3P 1W4  
 p. 905.294.9570 • f. 905.294.9811

Contact Factory for Additional Configurations.  
 Specifications are subject to change without notice.  
 Consult website for latest version of this spec sheet.



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "HG". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at [www.lamprecycle.org](http://www.lamprecycle.org)