



## ORBIT – RLR

### ADJUSTABLE MULTIPLE LED LUMINAIRE

The Orbit RLR series is our LED recessed multi-spot. Whether you're designing a completely new commercial venue or planning a renovation, the Orbit RLR offers the flexibility for either of those options with the same housing. This is the ideal fixture for commercial office, residential, retail, restaurant and hotel lighting projects that require the beauty of recessed lighting.

#### FEATURES AND SPECIFICATIONS

##### • Specifications

- Non-IC new construction or existant ceiling

##### Material

- Diecast aluminum
- Optical compartment and metal backbox

##### Installation

- Integral wire connection box
- Integral transformer for T-bar & drywall ceiling available

##### Adjustable

- Universal joint for independent adjustment of each gimbal head, horizontal 356°, vertical 56°

##### Beam angle

- Spot: 23°
- Medium: 27°
- Flood: 35°

##### • Lamp/Driver

##### PER HEAD <sup>1</sup>

##### S1

LED 23 W  
2 200 lm at 3 000 K, 80+ CRI  
or 1 800 lm at 3 000 K, 90+ CRI

##### S2

LED 33 W  
3 000 lm at 3 000 K, 80+ CRI  
or 2 400 lm at 3 000 K, 90+ CRI

##### S3

LED 45 W  
4 300 lm at 3 000 K, 80+ CRI  
or 3 600 lm at 3 000 K, 90+ CRI

##### S4

LED 52 W  
5 000 lm at 3 000 K, 80+ CRI  
or 4 100 lm at 3 000 K, 90+ CRI

##### Driver

- 0-10 V dimming in option
- Estimated lifespan of over 50 000 hours to L70

##### • Compliances

- CSA Certified to C22.2 #250, UL1598
- ICES 005

**5** yrs  
warranty

LED  
fixture

ICES  
005

CSA  
C US

#### OVERVIEW

|                       |                            |
|-----------------------|----------------------------|
| Light source          | LED                        |
| Watts (W)             | 23, 33, 45, 52             |
| Lumen output (lm)     | 2 200 - 5 000              |
| Efficacy (lm/W)       | 88 - 108                   |
| Color temperature (K) | 2 700, 3 000, 3 500, 4 000 |
| CRI                   | 80+ , 90+                  |

<sup>1</sup> Lumens are based on 36° flood beam angle.

## ORDERING GUIDE

RLR — L — — — — — / — / — — — — —

| Series | LED configuration | LED     | Lumen package (lm per head) | CRI      | Volts (V) <sup>1</sup> | Housing color          | Trim color | Gimbal color | Color temp. (K)          | Reflector (one per gimbal) |            |            |            | Option                            |
|--------|-------------------|---------|-----------------------------|----------|------------------------|------------------------|------------|--------------|--------------------------|----------------------------|------------|------------|------------|-----------------------------------|
|        |                   |         |                             |          |                        |                        |            |              |                          | 1                          | 2          | 3          | 4          |                                   |
| RLR    | 1 - 1 head        | L - LED | S1 - 2 200                  | 80 - 80+ | A - 120                | B - Black              | B - Black  | B - Black    | 27K - 2 700              | S - Spot                   | S - Spot   | S - Spot   | S - Spot   | DIM1 - 0-10V Dimming <sup>4</sup> |
|        | 2 - 2 heads       |         | S2 - 3 000                  | 90 - 90+ | H - 347                | W - White <sup>2</sup> | W - White  | W - White    | 30K - 3 000              | M - Medium                 | M - Medium | M - Medium | M - Medium |                                   |
|        | 3 - 3 heads       |         | S3 - 4 300                  |          |                        |                        | S - Silver | S - Silver   | 35K - 3 500 <sup>3</sup> | F - Flood                  | F - Flood  | F - Flood  | F - Flood  |                                   |
|        | 4 - 4 heads       |         | S4 - 5 000                  |          |                        |                        |            |              | 40K - 4 000              |                            |            |            |            |                                   |

<sup>1</sup> For other voltages, please consult with manufacturer.<sup>2</sup> Only available with white gimbal.<sup>3</sup> Only available with CRI 80+.<sup>4</sup> Without the DIM1 option, there is no dimming.

## TECHNICAL SPECIFICATION TABLE

| Lumen package | Watts (W) | Volts (V) | 2 700 K    |                 | 3 000 K    |                 | 3 500 K    |                 | 4 000 K    |                 | CRI | Life L70 (hrs) | Type of distrib. | Power factor | THD (%) |
|---------------|-----------|-----------|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|-----|----------------|------------------|--------------|---------|
|               |           |           | Lumen (lm) | Efficacy (lm/W) | Lumen (lm) | Efficacy (lm/W) | Lumen (lm) | Efficacy (lm/W) | Lumen (lm) | Efficacy (lm/W) |     |                |                  |              |         |
| S1            | 23        | 120       | 2 019      | 88              | 2 105      | 92              | 2 148      | 93              | 2 363      | 103             | 80+ | 50 000         | Medium           | >0.9         | <20     |
| S2            | 33        | 120       | 2 750      | 83              | 2 921      | 89              | 2 921      | 89              | 3 007      | 91              | 80+ | 50 000         | Medium           | >0.9         | <20     |
| S3            | 45        | 120       | 4 081      | 91              | 4 339      | 96              | 4 425      | 98              | 4 855      | 108             | 80+ | 50 000         | Medium           | >0.9         | <20     |
| S4            | 52        | 120       | 4 769      | 92              | 5 057      | 97              | 5 157      | 99              | 5 628      | 108             | 80+ | 50 000         | Medium           | >0.9         | <20     |

## ACCESSORY (order separately)

## Optional plaster frame

| Part Number | Quantity of head |
|-------------|------------------|
| PF-RG/RF-1  | 1 head           |
| PF-RG/RF-2  | 2 heads          |
| PF-RG/RF-3  | 3 heads          |
| PF-RG/RF-4  | 4 heads          |

Note: Need to use the plaster frame for t-bar ceiling.

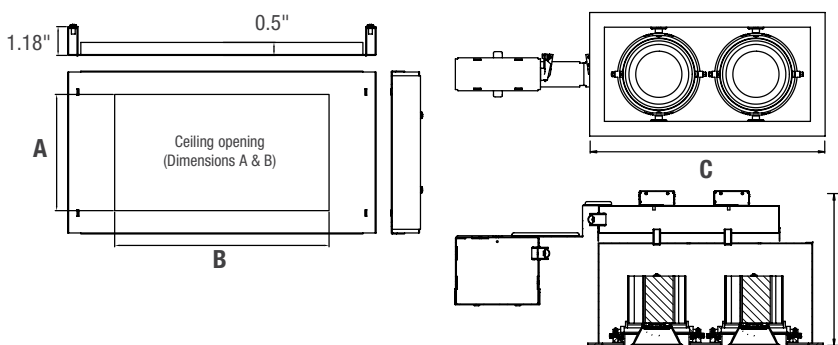
## COMPATIBLE DIMMERS

| Brand   | Model number                                                 |
|---------|--------------------------------------------------------------|
| Lutron  | Diva DDTV, Diva DVSCSTV, Diva DVSTV, Diva DVSCSTV, Nova NFTV |
| Leviton | IlumaTech IP7 series                                         |
| Philips | Sunrise-SRI200ZTUNV                                          |

Dimming range: 10%-100%

## DIMENSIONS

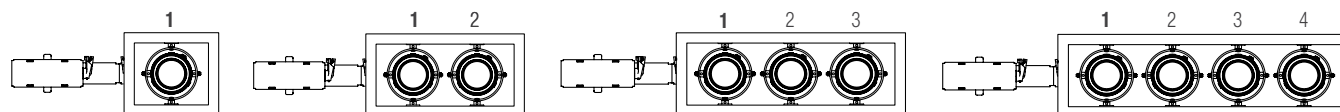
| Quantity of head | Dim. A in (cm) | Dim. B in (cm) | Dim. C in (cm) | Dim. D in (cm) |
|------------------|----------------|----------------|----------------|----------------|
| 1 head           | 7.28 (18.5)    | 7.4 (19.0)     | 8.27 (21.0)    | 10.3 (26.0)    |
| 2 heads          | 7.28 (18.5)    | 14.76 (37.5)   | 15.75 (40.0)   | 10.3 (26.0)    |
| 3 heads          | 7.28 (18.5)    | 21.26 (54.0)   | 22.25 (56.5)   | 10.3 (26.0)    |
| 4 heads          | 7.28 (18.5)    | 27.76 (70.5)   | 28.74 (73.0)   | 10.3 (26.0)    |



## REFLECTOR POSITIONING GUIDE

One individual reflector per gimbal. Please specify in the ordering guide.

Note: The first reflector (1) is always positioned next to the junction box.

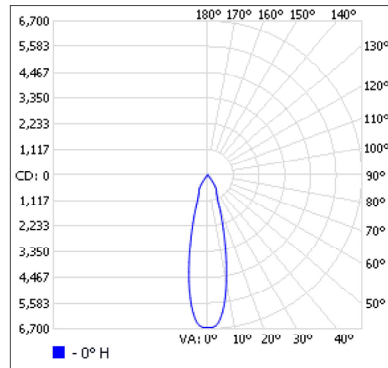


Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions.  
 All products are subject to change or may be discontinued any time without notice.

PHOTOMETRIC DATA<sup>1</sup>

## RLR-1-LS1-80-30K-M • 2105.2 lm

## Polar candela distribution



## Zonal lumen summary

| Zone   | Lumens  | % Fixture |
|--------|---------|-----------|
| 0-30   | 1 769.1 | 84        |
| 0-40   | 2 073.3 | 98.5      |
| 0-60   | 2 105.2 | 100       |
| 60-90  | 0       | 0         |
| 70-100 | 0       | 0         |
| 90-120 | 0       | 0         |
| 0-90   | 2 105.2 | 100       |
| 90-180 | 0       | 0         |
| 0-180  | 2 105.2 | 100       |

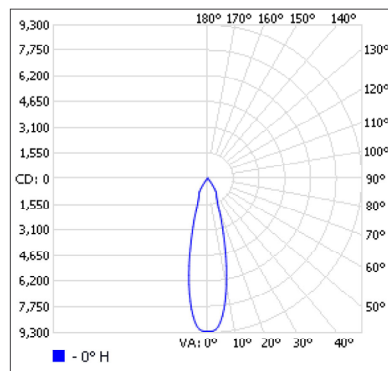
## Illuminance at a distance

| Center beam fc | Beam width |
|----------------|------------|
| 1.7'           | 2 293      |
| 3.3'           | 609        |
| 5.0'           | 265        |
| 6.7'           | 148        |
| 8.3'           | 96.2       |
| 10.0'          | 66.3       |

Vert. spread: 27.0°  
Horiz. spread: 27.1°

## RLR-1-LS2-80-30K-M • 2921.5 lm

## Polar candela distribution



## Zonal lumen summary

| Zone   | Lumens  | % Fixture |
|--------|---------|-----------|
| 0-30   | 2 455.1 | 84        |
| 0-40   | 2 877.3 | 98.5      |
| 0-60   | 2 921.5 | 100       |
| 60-90  | 0       | 0         |
| 70-100 | 0       | 0         |
| 90-120 | 0       | 0         |
| 0-90   | 2 921.5 | 100       |
| 90-180 | 0       | 0         |
| 0-180  | 2 921.5 | 100       |

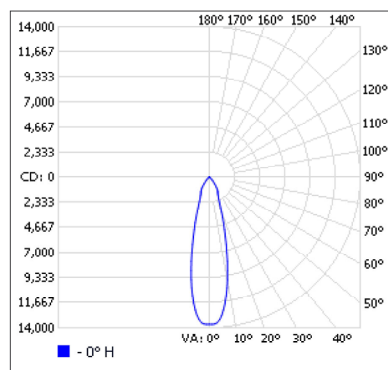
## Illuminance at a distance

| Center beam fc | Beam width |
|----------------|------------|
| 1.7'           | 3 183      |
| 3.3'           | 845        |
| 5.0'           | 368        |
| 6.7'           | 205        |
| 8.3'           | 134        |
| 10.0'          | 92.0       |

Vert. spread: 27.0°  
Horiz. spread: 27.1°

## RLR-1-LS3-80-30K-M • 4339.3 lm

## Polar candela distribution



## Zonal lumen summary

| Zone   | Lumens  | % Fixture |
|--------|---------|-----------|
| 0-30   | 3 646.6 | 84        |
| 0-40   | 4 273.6 | 98.5      |
| 0-60   | 4 339.3 | 100       |
| 60-90  | 0       | 0         |
| 70-100 | 0       | 0         |
| 90-120 | 0       | 0         |
| 0-90   | 4 339.3 | 100       |
| 90-180 | 0       | 0         |
| 0-180  | 4 339.3 | 100       |

## Illuminance at a distance

| Center beam fc | Beam width |
|----------------|------------|
| 1.7'           | 4 727      |
| 3.3'           | 1 254      |
| 5.0'           | 546        |
| 6.7'           | 304        |
| 8.3'           | 198        |
| 10.0'          | 137        |

Vert. spread: 27.0°  
Horiz. spread: 27.1°

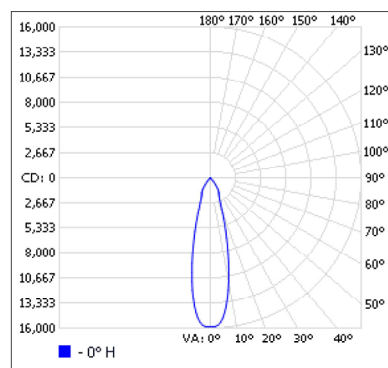
<sup>1</sup> Complete IES files available on our website.

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PHOTOMETRIC DATA<sup>1</sup> (cont'd)

RLR-1-LS4-80-30K-M • 5026.7 lm

## Polar candela distribution



## Zonal lumen summary

| Zone   | Lumens  | % Fixture |
|--------|---------|-----------|
| 0-30   | 4 224.3 | 84        |
| 0-40   | 4 950.6 | 98.5      |
| 0-60   | 5 026.7 | 100       |
| 60-90  | 0       | 0         |
| 70-100 | 0       | 0         |
| 90-120 | 0       | 0         |
| 0-90   | 5 026.7 | 100       |
| 90-180 | 0       | 0         |
| 0-180  | 5 026.7 | 100       |

## Illuminance at a distance

| Center beam fc |       | Beam width |      |
|----------------|-------|------------|------|
| 1.7'           | 5 476 | 0.8'       | 0.8' |
| 3.3'           | 1 453 | 1.6'       | 1.6' |
| 5.0'           | 633   | 2.4'       | 2.4' |
| 6.7'           | 353   | 3.2'       | 3.2' |
| 8.3'           | 230   | 4.0'       | 4.0' |
| 10.0'          | 158   | 4.8'       | 4.8' |

■ Vert. spread: 27.0°  
■ Horiz. spread: 27.1°

<sup>1</sup> Complete IES files available on our website.

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