



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 HEAD¹

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+

¹ Lumens are based on 36° flood beam angle.

ORDERING GUIDE



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

¹ For other voltages, please consult with manufacturer.

² Only available with white gimbal.

³ Only available with CRI 80+.

⁴ 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.

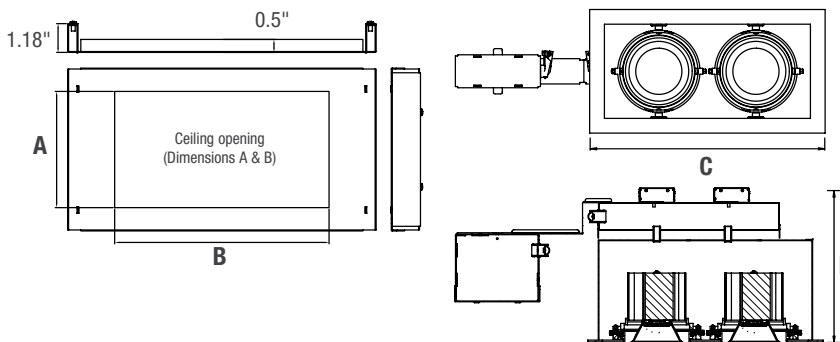
COMPATIBLE DIMMERS

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

Dimming range: 10%-100%

DIMENSIONS

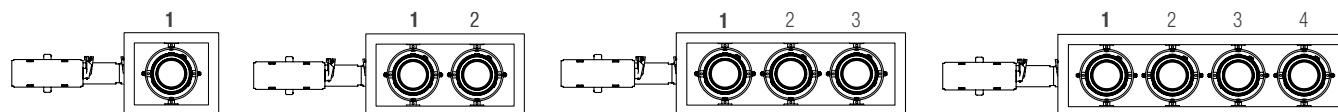
Quantity of head	Dim. A in (cm)	Dim. B in (cm)	Dim. C in (cm)	Dim. D in (cm)
1 head	7.28 (18.5)	7.4 (19.0)	8.27 (21.0)	10.3 (26.0)
2 heads	7.28 (18.5)	14.76 (37.5)	15.75 (40.0)	10.3 (26.0)
3 heads	7.28 (18.5)	21.26 (54.0)	22.25 (56.5)	10.3 (26.0)
4 heads	7.28 (18.5)	27.76 (70.5)	28.74 (73.0)	10.3 (26.0)



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.

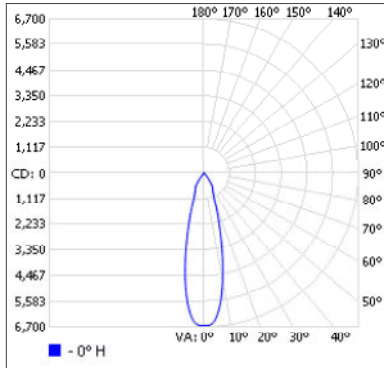


Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

PHOTOMETRIC DATA¹

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

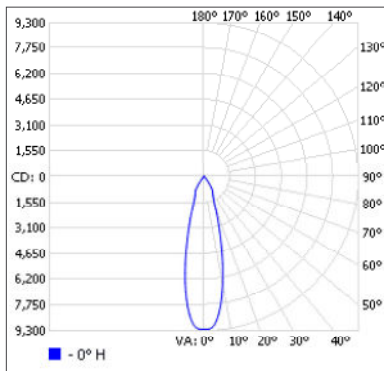
Illuminance at a distance

Center beam fc		Beam width	
1.7'	2 293	0.8'	0.8'
3.3'	609	1.6'	1.6'
5.0'	265	2.4'	2.4'
6.7'	148	3.2'	3.2'
8.3'	96.2	4.0'	4.0'
10.0'	66.3	4.8'	4.8'

■ 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

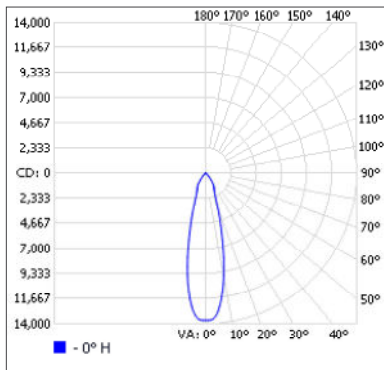
Illuminance at a distance

Center beam fc		Beam width	
1.7'	3 183	0.8'	0.8'
3.3'	845	1.6'	1.6'
5.0'	368	2.4'	2.4'
6.7'	205	3.2'	3.2'
8.3'	134	4.0'	4.0'
10.0'	92.0	4.8'	4.8'

■ 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	0.8'	0.8'
3.3'	1 254	1.6'	1.6'
5.0'	546	2.4'	2.4'
6.7'	304	3.2'	3.2'
8.3'	198	4.0'	4.0'
10.0'	137	4.8'	4.8'

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

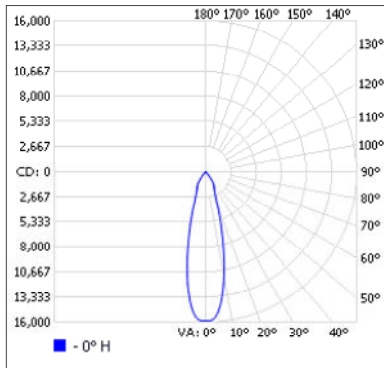
¹ Complete IES files available on our website.

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PHOTOMETRIC DATA¹ (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°

¹ Complete IES files available on our website.

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