

DATE

PROJECT

TYPE

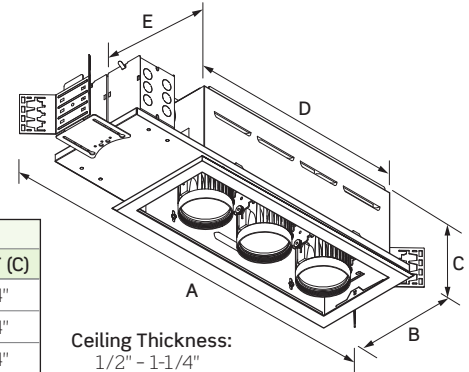
RDA6L SERIES | O3 Adjustable Recessed Multiples



X3: Three Lamp Linear



Pull-down Mechanism







Ceiling Thickness:
1/2" - 1-1/4"
Wing Bracket Width:
7-3/8"

# OF LAMPS	OVERALL		
	LENGTH (A)	WIDTH (B)	HEIGHT (C)
X1	20-3/4" to 22-3/4"	8-11/16"	8-1/4"
X2	27" to 29"	8-11/16"	8-1/4"
X3	33-1/4" to 35-1/4"	8-11/16"	8-1/4"
X4	39-1/4" to 41-1/4"	8-11/16"	8-1/4"

Length = minimum and maximum extension of Adjustable Wing Brackets

# OF LAMPS	HOUSING		TRIM EDGE = 1-INCH		CEILING CUT-OUT	
	LENGTH (D)	WIDTH (E)	LENGTH (F)	WIDTH (G)	LENGTH	WIDTH
X1	7-3/16"	6-7/8"	8"	8"	7-1/2"	7-1/8"
X2	13-3/8"	6-7/8"	14-3/16"	8"	13-5/8"	7-1/8"
X3	19-9/16"	6-7/8"	20-3/8"	8"	20"	7-1/8"
X4	25-3/4"	6-7/8"	26-9/16"	8"	26"	7-1/8"

Measurements are from a single head	RDA6L05	RDA6L1	RDA6L2
WATTAGE	10W	20W	29W
LUMEN OUTPUT ¹	1000Lm	2200Lm	3000Lm
BEAM SPREADS	13° Spot, 25° Medium, 40° Flood		
COLOR TEMPERATURE	2700K, 3000K, 3500K, 4000K,		
CRI	83 (80min) or 90+		
INPUT WATTAGE	10W	20W	29W
INPUT CURRENT (A) 120V / 277V	.08/.04	.17/.07	.24/.11
INPUT VOLTAGE	120V AC, 50/60Hz		
120V Dimming (TRIAC, ELV, 0-10V)	120V AC, 50/60Hz		
277V Dimming (0-10V)	277V AC, 50/60Hz		
Lutron EcoSystem® Dimming	120V AC, 50/60Hz 277V AC, 50/60Hz		
DRIVER POWER FACTOR	> 0.90		
TOTAL HARMONIC DISTORTION (THD)	< 20%		
DIMMING RANGE	1-100% (Performance varies based on dimmer selection, see Dimming Spec Sheet for details)		
Triac, ELV, 0-10V	1-100%		
Lutron HiLume® Dimming	1-100%		
LISTINGS	    cCSAus Certified to UL Standards; Suitable for Dry or Damp Locations cCSAus Certified to UL924 Standard for Emergency Lighting when specified with the Emergency Battery Backup Option (-ER) CP Housings are City of Chicago Environmental Air (CCEA) Rated		
WARRANTY	Five (5) year replacement after date of purchase Emergency Battery Option covered by a one (1) year replacement guarantee after date of purchase		
SYSTEM RATING	50,000 Hours @ 70% Lumen Maintenance		

1. Approximate lumen output based on 3000K performance; see photometric test results for additional information

DATE	PROJECT	TYPE
------	---------	------

RDA6L SERIES | O3 Adjustable Recessed Multiples

ORDERING INFORMATION

Consult factory for custom configurations, including:

- Different Beams, Color Temperatures, Lumen Packages or Multiple Circuits (2-maximum) are required in a single multiple-head fixture
- Non-standard, custom paint finishes

Example Order: RDA6L127KC12DSX22BLK - P

LED Series	Color Temp/CRI	Electrical/Dimming	Beam	Lamps	Housing & Luminaire Finish	Trim Finish
RDA6L05 - 10W 1000Lm	83 (80min) CRI 27K - 2700K	12D - 120V TRIAC/ELV/0-10V 27D - 277V 0-10V Dimming	S - 13° Spot M - 25° Med. F - 40° Flood	X1 - One/ Square Hsg.	BLK - Matte Black WHT - Matte White	B - Matte Black P - Matte White N - Trimless
RDA6L1 - 20W 2200Lm	30K - 3000K 35K - 3500K	12D4 - 120V Lutron Hi-Lume 1% EcoSystem Driver with Soft-on, Fade-to-Black		X2 - Two/ Linear Hsg.		
RDA6L2 - 29W 3000Lm	40K - 4000K 90+ CRI 27KC - 2700K 30KC - 3000K 35KC - 3500K 40KC - 4000K	27D4 - 277V Lutron Hi-Lume 1% EcoSystem Driver with Soft-on, Fade-to-Black		X3 - Three/ Linear Hsg. X4 - Four/ Linear Hsg.		

Options

CP¹ - Chicago Plenum

ER² - Factory Installed

7W/200mA Emergency Battery Backup,
Remote Test Switch

E² - Factory Installed

7W/200mA Emergency Battery Backup,
Internal Test Switch in Side Wall of Housing

1. Chicago Plenum is not available for use with Series 2 (29W); cannot be used with the Emergency Battery Backup option

2. Emergency Battery Backup: For use in new construction applications only - requires above ceiling access. Will only energize one (1) head on a multi-head unit. 800 Lumen nominal average for all LED options.

ACCESSORY & OPTIC ORDERING INFORMATION

MOUNTING ACCESSORIES

Wing Type Commercial Mounting Brackets are included, Hanger Bars ordered separately

HB-24 - 27-Inch Flat Hanger Bars for RL-KIT

HBC-24 - 25-Inch C-Channel Hanger Bars for RL-KIT in Grid Ceiling Construction

LUMINAIRE ACCESSORIES

NOTE: When a Snoot, Louver or Lens is desired, ensure the same quantity is ordered as the number of lamps on the unit, e.g. a two-lamp unit would require two (2) media to be ordered

FA-46-(B, P) - 1-Inch Snoot/
Accessory Holder

LA-45⁴ - 3-3/4-Inch Dia.
Black Honeycomb Louver

LF20-^{*4} - 3-3/4-Inch Dia.
Tempered Glass Lenses

4. Requires FA-46 Snoot/Accessory Holder

*Color/Pattern Legend

-73 (Spread Lens), **-LS** (Linear Spread Lens), **-SL** (Soft Light), **-SOL** (Solite),
-UV (Optivex UV Filter), **-A** (Amber), **-B** (Blue), **-CL** (Clear), **-G** (Green),
-LB (Light Blue), **-R** (Red), **-RO** (Rose), **-Y** (Yellow)

REFLECTORS

Reflectors are interchangeable and can be field replaced

CTL825REFL-S - 13° Spot

CTL825REFL-M - 25° Medium

CTL825REFL-F - 40° Flood

DATE

PROJECT

TYPE

RDA6L SERIES | O3 Adjustable Recessed Multiples

PRODUCT DETAILS

Construction

- Non-IC Housing; requires minimum 3-inch clearance around luminaire from insulation material
- Thermal protection provided in case of improper insulation use
- Heavy duty 18-gauge steel housing; powder coat painted in matte black or matte white
- Single to four head units available
- Housing weights: 1-Head = 12lbs
2-Head = 17lbs
3-Head = 24lbs
4-Head Linear = 28lbs
- Output over voltage, over-current and short circuit protection
- Approved for through circuit wiring; maximum of eight (8) No. 12 AWG branch circuit conductors (4 in, 4 out)
- Junction Box has eighteen (18) 1/2-inch pry-outs
- Wire rating: 90°C, thermally protected
- Wing type Mounting Brackets allow for 3-inch vertical adjustment. Brackets accept optional HB-24 Flat Hanger Bars or HBC-24 "C" Channel Hangers.

Features

- Available in 13° Spot, 25° Medium and 40° Flood beams; each distribution is achieved utilizing specular spun metal reflectors
- Reflectors can be easily changed in the field for optimal flexibility
- Complete luminaire (Heads, Drivers and Junction Box) can be accessed from below the ceiling
- Lamp heads with constant tension design for tilt and rotation adjustability; tilt mechanism can be locked into place with a provided allen wrench
- Lamp heads provide 370° rotation and 45° tilt adjustability inside the housing
- Lamp head features a firm-feel detent pull-down mechanism (2-inch extension) which allows the head to tilt up to 90°; pull-down mechanism can be locked into place with a provided allen wrench
- Housing may be used for trimmed or trimless applications
- Trimmed housings are available with a steel powder coat matte black or matte white trim; steel torsion springs provide secure retention in housing
- Trimless housings allow the ceiling to be finished and painted right to the aperture opening for a clean appearance; trimless frame is steel with a matte white powder coat finish

Performance Summary

- Single, high lumen output multi-chip LED array available in 10W/1200Lm, 20W/2200Lm and 29W/3000Lm; wattage/lumen values are per head
- Select from 2700K, 3000K, 3500K and 4000K; CRI of 83 (80 min.) or high CRI of 90+ available
- Excellent fixture-to-fixture color consistency within a 2-step MacAdam Ellipse Tolerance
- Optional FA-46 Snoot/Accessory Holder accepts up to two (2) LF20 Lenses or one (1) LF20 Lens plus FA-16 60MM Black Honeycomb Louver
- All RDA6L Series luminaires are available for dimming and non-dimming applications; for a list of compatible dimmers, refer to the Dimming Specification Sheet
- UL8750 and Class 2 Compliant; RoHS Compliant, US only
- Assembled in the USA

DATE

PROJECT

TYPE

RDA6L SERIES | O3 Adjustable Recessed Multiples

PHOTOMETRICS

TEST PERFORMANCE IS FOR A SINGLE HEAD UNIT

RDA6L230K12DSX1WHT

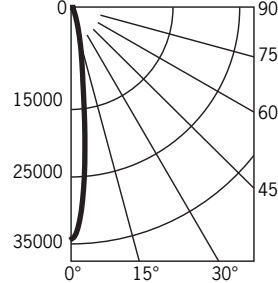
Fixture Delivered Lumens: 3143.9
 Total Watts@120V: 27.54
 Lumens Per Watt: 114.32
 Center Beam Candle Power: 33151
 Beam Distribution: 13°
 Spacing Criterion: 0.24
 Color Rendering Index (CRI)¹: 83
 Color Temperature (CCT)²: 3058K

Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G21022601
 LM-79 Test No. S2103101

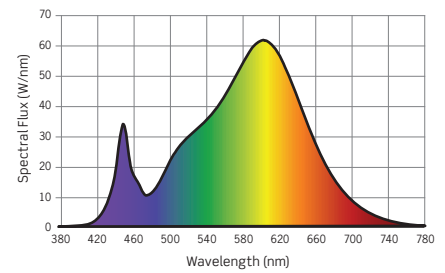
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4'	2071.9	0.9
6'	920.9	1.4
8'	518.0	1.9
10'	331.5	2.3
12'	230.2	2.8
14'	169.1	3.3

Candela Curve



Spectral Power Distribution Chart⁴



RDA6L230K12DMX1WHT

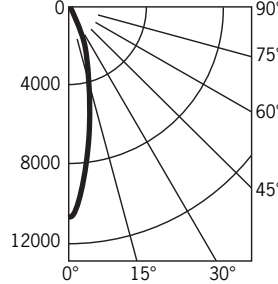
Fixture Delivered Lumens: 3008.51
 Total Watts@120V: 27.50
 Lumens Per Watt: 109.4
 Center Beam Candle Power: 10690
 Beam Distribution: 25°
 Spacing Criterion: 0.48
 Color Rendering Index (CRI)¹: 83
 Color Temperature (CCT)²: 3058K

Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G21022603
 LM-79 Test No. S2103101

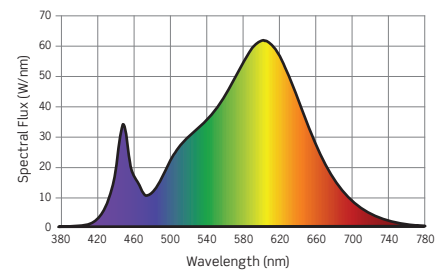
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4'	668.1	1.8
6'	296.9	2.7
8'	167.0	3.6
10'	106.9	4.5
12'	74.2	5.4
14'	54.5	6.3

Candela Curve



Spectral Power Distribution Chart⁴



RDA6L230K12DFX1WHT

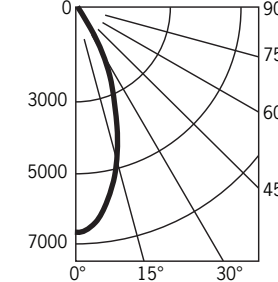
Fixture Delivered Lumens: 3088.8
 Total Watts@120V: 27.52
 Lumens Per Watt: 112.32
 Center Beam Candle Power: 6754
 Beam Distribution: 41°
 Spacing Criterion: 0.65
 Color Rendering Index (CRI)¹: 83
 Color Temperature (CCT)²: 3058K

Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G21022602
 LM-79 Test No. S2103101

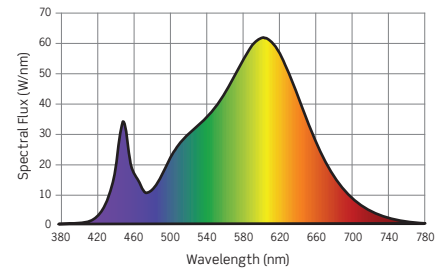
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4'	422.1	3.0
6'	187.6	4.4
8'	105.5	5.9
10'	67.5	7.4
12'	46.9	8.9
14'	34.5	10.3

Candela Curve



Spectral Power Distribution Chart⁴



1. Accuracy of Rendering Colors 2. Color Appearance of Light Source 3. Dependent on Surrounding Temperatures 4. Colors Present within the Light Source

PHOTOMETRIC MULTIPLICATION FACTORS

Lumen output values fluctuate based on CCT. To estimate lumen output of the various CCT/CRI options, multiply 3000K (80 CRI min) results by the following:

CCT	CRI		OUTPUT	
	STD CRI	HIGH CRI	10W	20W
2700K	0.95	0.74	0.38	0.74
3000K	N/A	0.85	0.38	0.74
3500K	1.03	0.89	0.38	0.74
4000K	1.07	0.91	0.38	0.74

DATE

PROJECT

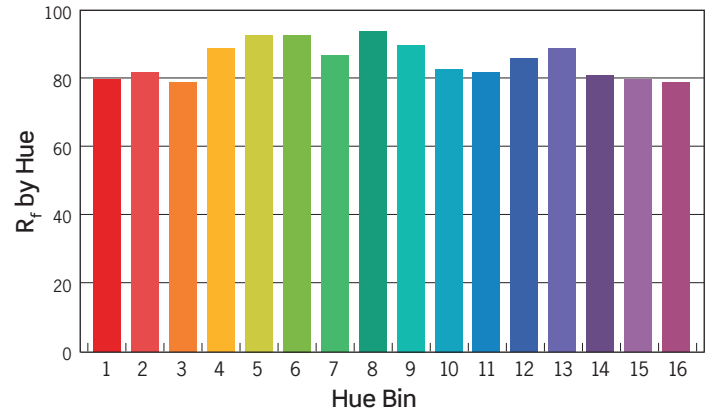
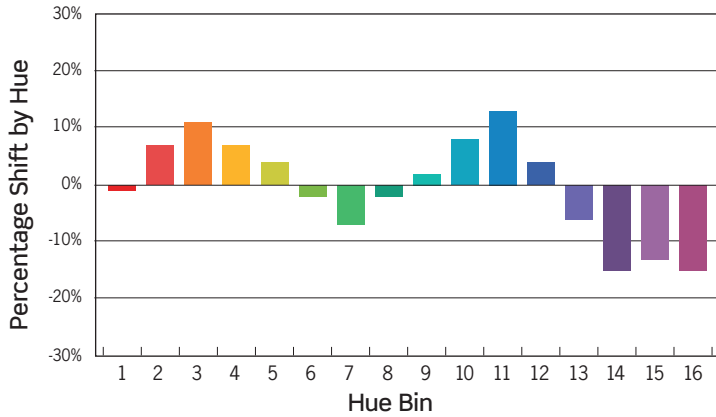
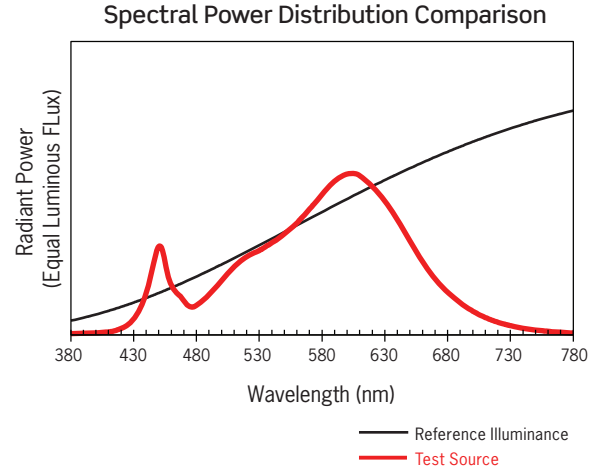
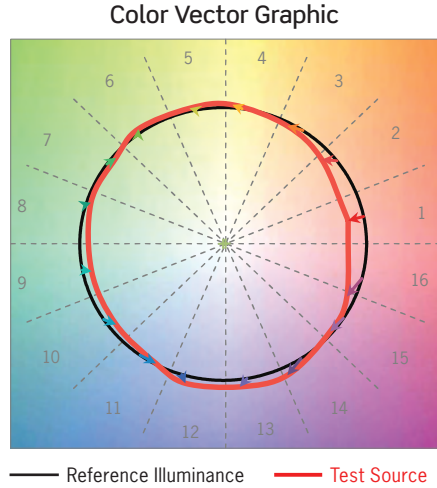
TYPE

RDA6L SERIES | O3 Adjustable Recessed Multiples

TM-30 DATA : RDA6L230K12DMX1WHT

ANSI/IES TM-30-18 Color Rendition Report Test No. S2103101

R_f	85
R_g	96
CCT(K)	3058K
D_{uv}	0.0010
u^I	0.2482
v^I	0.5216



HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	-1%	7%	11%	7%	4%	-2%	-7%	-2%	2%	8%	13%	4%	-6%	-15%	-13%	-15%
R_f VALUE	80	82	79	89	93	93	87	94	90	83	82	86	89	81	80	79

Colors are for visual orientation purposes only

RDA6L SERIES | O3 Adjustable Recessed Multiple Dimming Specifications

- Incandescent 120VAC dimmers adjust the light with “forward phase control,” where the dimmer “chops” the forward part of the AC wave to deliver less or more power to the light source. No neutral wire connection required.
- Electronic low voltage 120VAC dimmers adjust the light with “reverse phase control,” where the dimmer “chops” the back part of the AC wave to deliver less or more power to the light source. Neutral wire connection required.
- 0-10V DC low voltage dimmers operate using two low voltage dimming wires that are separate from the 120V or 277V AC power. The dimmer sends a variable output voltage to the fixture based upon the dimming level. 10V corresponds to undimmed operation, 5V to 50% and so on. Switching on/off is controlled with the line voltage power (120V or 277V AC) input to the dimmer and then dimming operation is controlled with the 0-10V DC low voltage wiring connection between the dimmer and the LED driver. The control signal runs on two low voltage control wires (color coded violet and pink/gray).
- Lutron EcoSystem Drivers provide continuous dimming from 1%-100%. For a complete list of compatible dimmers and controls, please visit www.lutron.com

			RDA6* Dimming Option 12D1 or 27D2
Manufacturer	Product	Model	Light Output
Leviton	IllumaTech	IPI06-1LZ	1%-100%
Leviton	SureSlide	6631-2	1%-100%
Leviton	Renoir	AWSMT7	22%-100%
Leviton	Vizia	VPE06	9%-100%
Leviton	Trimatron	6683-IW	6%-100%
Leviton	Decora	6161	15%-100%
Leviton	SureSlide	6633-P	1%-100%
Leviton	IllumaTech	IPE04	6%-100%
Leviton	IllumaTech	IP710-DLX	NA
Cooper	Devine	DLC03P	1%-100%
Cooper	Skye	SLC03P	0%-100%
Cooper	Decorator	DAL06P	0%-100%
Pass & Seymour	Titan	CD4FB-W	NA
Synergy		ISD BC	NA
Watt Stopper	Miro Decorator	DCLV1	NA
Lutron	Ariadni	TGCL-153P	1%-100%
Lutron	Ariadni	TG-600P	13%-100%
Lutron	Diva	DVCL-153P	1%-100%
Lutron	Diva	DV600P	6%-100%
Lutron	Diva	DVELV303P	6%-100%
Lutron	Diva	DVTV	NA
Lutron	Diva	DVSTWH	8%-100%
Lutron	Faedra	FAELV500	12%-100%
Lutron	Lumea	LG600P	8%-100%
Lutron	Maestro	MAELV600	16%-100%
Lutron	Nova	NFTV	NA
Lutron	Nova T	NTFTV	NA
Lutron	Skylark	S-603PG	5%-96%
Lutron	Skylark	S600P	5%-100%
Lutron	Skylark	SELV300P	10%-100%
Lutron	Skylark	CT103P	9%-100%

*277V TRIAC Dimming is not available

NOTES

1. Testing was performed with a single luminaire connected to Dimmer.
2. Testing has been performed on these Dimmers, but this does not imply any warranty of compatibility.
3. Dimming performance can be influenced by different Loads, as well as variations in Dimmer Switches within the same Model.
4. Dimmer Maximum Load Rating with LED may differ from published Traditional Source Dimmer Ratings. Consult manufacturer for maximum Dimmer information.
5. Consult factory for additional dimming information.