

RA6LNC
6" LED Recessed Downlight
Universal New Construction Housing

Catalog No. _____

Type _____

Project _____

Specifications/Features

Housing/Mounting

Specification grade 6" housing, 6" aperture. 6-5/8" Ceiling Opening; works in ceiling thicknesses from 1/2" – 2".

16 Gauge galvanized steel housing with die-cast aluminum heat sink. Requires minimum 3" clearance around fixture from insulation material.

Thermal protection provided in case of improper insulation use.

Dual nailer hanger bars are adjustable for 16" and 24" center joists (14-1/4" to 24-1/2"). Nailer bars enable easy installation; may be extended to rest on T-bar ceilings. Optional clip-on T-bar hangers also available.

Quick-connect LED light engine enables easy installation and removal.

LED Drivers are fully accessible from below the ceiling, and with the spring-latch housing attachment, can be easily removed.

Electrical

1000 Series

Driver Specifications: Input Wattage 16W; Output Current 350mA
 TRIAC Dimming (120V only): Input Voltage: 90-135VAC, 47-63Hz
 0-10V Dimming (120/277V): Input Voltage: 90-305 VAC, 47-63Hz
 Lutron Hi-Lume® Dimming (120V only): Input Voltage: 120 VAC, 50/60Hz

2000 Series

Driver Specifications: Input Wattage 29W; Output Current 700mA
 0-10V Dimming (120/277V): Input Voltage: 90-305 VAC, 47-63Hz
 Lutron Hi-Lume® Dimming (120V only): Input Voltage: 120 VAC, 50/60Hz

2700 Series

Driver Specifications: Input Wattage 45W; Output Current 1050mA
 0-10V Dimming (120/277V): Input Voltage: 90-305 VAC, 47-63Hz
 Lutron Hi-Lume® Dimming (120V only): Input Voltage: 120 VAC, 50/60Hz

Optional emergency battery pack with remote test switch is available.

UL8750 and Class 2 Compliant, RoHS Compliant.

Output over-voltage, over-current and short circuit protection.

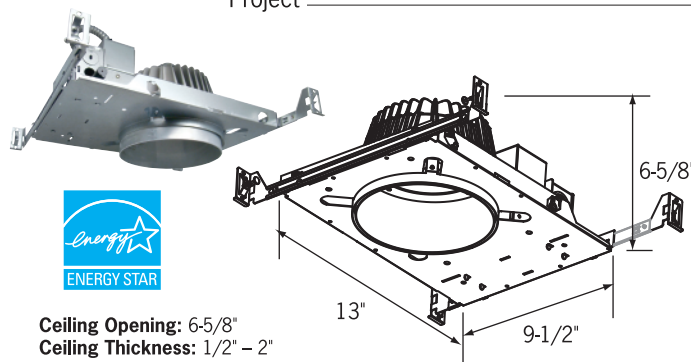
Approved from trough-circuit wiring. Max: (8) 12AWG (4in/4out). Wiring should be rated for at least 75°C.

Pre-wired junction box with convenient screwdriver pry-outs. (6) 1/2" and (1) 1/2" x 3/4" concentric knockout.

Lamp

Light engine consists of a single, high output multi-chip LED array enabling precise optical control. Excellent fixture-to-fixture color consistency with a 3-step MacAdam Ellipse tolerance.

Ordering Information



Available in the following color temperatures: 2700K, 3000K, 3500K, and 4000K; CRI: 80 min., 83 typical
 System designed and rated for 50,000 hours at 70% lumen maintenance.

Dimming

All RA6L downlights are available for non-dimming and dimming applications. Options include:

- TRIAC dimming (1000 series only), dimming range down to 10%
- 0-10V Dimming, dimming range down to 15%
- Lutron Hi-Lume dimming, dimming range down to 1%

For non-dimming applications, use driver option D2. Consult factory for Lutron EcoSystem® dimming option.

Trims

Specification Grade trims are available in several different styles and finishes for your space. Featuring a high quality Alzak™ finish; optically designed for reduced glare while maintaining maximum lumen output. See "6" LED Recessed Trims" spec sheet for information and details.

Warranty

This complete fixture is covered by ConTech's full five (5) year replacement guarantee after date of purchase.

Labels/Usage

CSAus Certified to UL Standards. Suitable for damp locations.
 cCSAus Certified to UL Standards. Limited trim availability for use in Canada. see "6" LED Recessed Trims" sheet for trim information and details.
 Energy Star approved for 16W and 29W when used with CST6322L2-CLR and CST6322L2-PL trims. Not approved for 45W or 4000K options.

Example Order: —

Housing — LED Module/Color Temp* Electrical/Dimming Trim Type Battery Back-Up

- | | | | | |
|---|---|--|--|---|
| <p>1000 Series
 427K - 16W/2700K
 430K - 16W/3000K
 435K - 16W/3500K
 440K - 16W/4000K</p> <p>2000 Series
 527K - 29W/2700K
 530K - 29W/3000K
 535K - 29W/3500K
 540K - 29W/4000K</p> | <p>2700 Series
 627K - 45W/2700K
 630K - 45W/3000K
 635K - 45W/3500K
 640K - 45W/4000K</p> | <p>12D1 - 120V Triac Dimming
 12D2 - 120V Non-Dimming/
 0-10V Dimming
 12D3 - 120V Lutron HiLume®
 Dimming
 27D2 - 277V Non-Dimming/
 0-10V Dimming</p> <p>Options</p> <p>RL-KIT - Commercial Mounting Brackets
 HB-24 - 27" Flat Hanger Bars for RL-KIT
 HBC-24 - 25" C-Channel Hanger Bars for RL-KIT in Grid Ceiling Construction
 HB-30 - T-Bar Hanger Set</p> | <p>* - All Others
 Leave Blank
 W - Wall Wash</p> | <p>- No Battery Back-Up
 Leave Blank
 EBL - Factory Installed
 7W/200mA Emergency
 Battery Back-Up</p> |
|---|---|--|--|---|

Electrical/Dimming Compatibility	1000 Series	2000 Series	2700 Series
120V Triac Dimming (12D1)	X	X	X
120V Non-Dimming/0-10V Dimming (12D2)	X	X	X
120V Lutron HiLume® Dimming (12D3)	X	X	X
277V Non-Dimming/0-10V Dimming (27D2)	X	X	X
Emergency Battery Back-Up (EBL)	X	X	X

*Trims

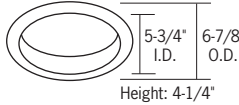
See attached "6" LED Recessed Trims" sheet for trim information and details.

*For High CRI options, consult factory



Specification Grade Specular Reflector

One piece ALZAK™ reflector in clear, platinum or white. Spun parabolic contour provides 50° cutoff to lamp and lamp image. Optically designed for superior light control. Self-flanged trim design that produces a smooth transition from fixture to ceiling. OD: 6-7/8"; ID: 5-3/4"



Approved for use in U.S. and Canada. Add "-C" after finish code for wet location approved trim.

CST6322L2-(CLR, PL, WHT)

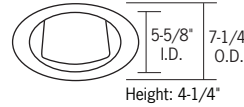


Lensed Wall Wash Trim

Lensed Wall Wash Trim; Clear, Platinum or White Reflector. OD: 7-1/4"; ID: 5-5/8"

Approved for use in U.S. and Canada.

CTR6323L2-CLR - Clear Reflector
CTR6323L2-PL - Platinum Reflector
CTR6323L2-WHT - White Reflector

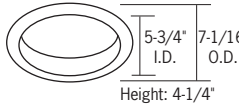


Two Piece Reflector Trim

Two piece reflector: clear or white upper reflector, clear or platinum lower cone; Includes (1) LF38-CL glass lens. OD: 7-1/16"; ID: 5-3/4"

Approved for use in U.S. and Canada when glass lens is installed (in dry or wet locations)

CTR6321L2-CLR-(CLR,PL) - Clear Reflector
CTR6321L2-WHT-(CLR,PL) - White Reflector

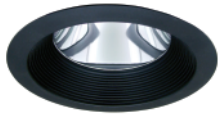


Floating Glass Trim

Floating glass disc; clear or white reflector. 1-1/4" Drop from ceiling. Glass OD: 8-3/4".

Approved for use in U.S. and Canada.

CTR6325L2-(CLR,WHT)-P

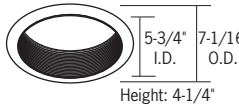


Two Piece Reflector/Baffle Trim

Two piece reflector: clear or white upper reflector, black or white lower baffle; Includes (1) LF38-CL glass lens. OD: 7-1/16"; ID: 5-3/4"

Approved for use in U.S. and Canada when glass lens is installed (in dry or wet locations).

CTR6321L2-CLR-(B,P) - Clear Reflector
CTR6321L2-WHT-P-(B,P) - White Reflector



Floating Glass Ring

Floating glass ring; clear or white reflector. 1-1/4" Drop from ceiling; 3-1/2" center hole. Glass OD: 8-3/4".

Approved for use in U.S. and Canada.

CTR6326L2-(CLR,WHT)-P

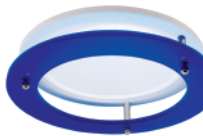
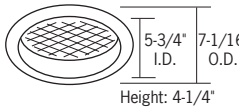


Two Piece Reflector Trim with Lens

Two piece reflector/baffle: Clear or white upper reflector, clear or platinum lower cone; regressed prismatic convex lens, Wet Location Listed. OD: 7-1/16"; ID: 5-3/4"

Approved for use in U.S. and Canada.

CTR6327L2-CLR-(CLR,PL) - Clear Reflector
CTR6327L2-WHT-(CLR,PL) - White Reflector



Floating Single Acrylic Ring

Single sandblasted floating colored acrylic ring supported by three (3) posts. Clear or white reflector. 1-1/2" Drop from ceiling. Acrylic Ring OD: 8-5/8"; ID: 6-1/8".

Approved for use in U.S. and Canada.

CTR6324L2-(CLR,WHT)-P
1AR6(B,F,G,R,Y)

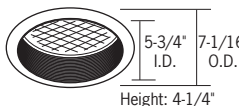


Two Piece Reflector/Baffle Trim with Lens

Two piece aluminum reflector and baffle with lens: Clear or white upper reflector, black or white lower baffle with regressed prismatic convex glass lens; 1-1/2" Regress. Wet Location Listed. OD: 7-1/16"; ID: 5-3/4"

Approved for use in U.S. and Canada.

CTR6327L2-CLR-(B,P) - Clear Reflector
CTR6327L2-WHT-P-(B,P) - White Reflector



Floating Double Acrylic Ring

Stacked floating colored, sandblasted acrylic rings supported by three (3) posts. Clear or white reflector. 2-3/4" Drop from ceiling. Acrylic Ring OD: 8-5/8"; ID: 6-1/8".

Approved for use in U.S. and Canada.

CTR6324L2-(CLR,WHT)-P
2AR6(B,F,G,R,Y)

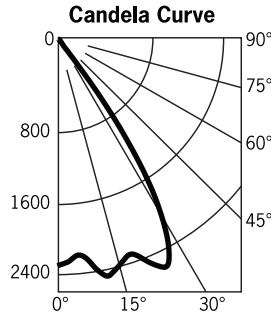
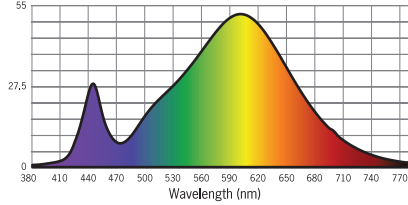


Photometrics

RA6LNC630K12D2/CST6322L2-CLR

Designed for 50,000 Hour Lamp Life*; LM-63 Test No. 72431

Light Output (Fixture Lumens): 2708
Total Watts@120V: 44.3
Lumens Per Watt: 61
Color Rendering Index (CRI)¹: 81
Color Temperature (CCT)²: 3078K Warm White
Spectral Power Distribution Chart³
LM-79 Test No. 72433



Candlepower Summary

FROM 0	CANDELA	LUMENS
0	2265	
5	2172	213
15	2351	662
25	2516	1104
35	1094	647
45	57	47
55	25	23
65	8	8
75	2	2
85	0	0
95	0	

Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	62.9	7.4
8'	35.4	9.9
10'	22.6	12.3
12'	15.7	14.8
14'	11.6	17.3
16'	8.8	19.7

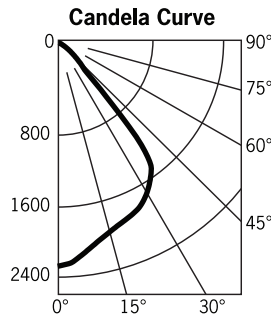
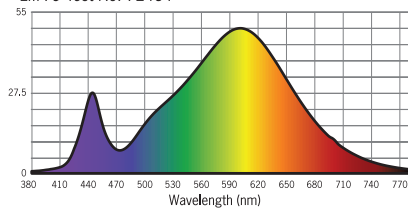
Beam Distribution: 69°
Spacing Criterion: 1.0

*For the 1000 Series/16W data, multiply results by .42
For the 2000 Series/29W data, multiply results by .73*

RA6LNC630K12D2/CST6322L2-PL

Designed for 50,000 Hour Lamp Life*; LM-63 Test No. 72432

Light Output (Fixture Lumens): 2574
Total Watts@120V: 44.3
Lumens Per Watt: 58
Color Rendering Index (CRI)¹: 81
Color Temperature (CCT)²: 3091K Warm White
Spectral Power Distribution Chart³
LM-79 Test No. 72434



Candlepower Summary

FROM 0	CANDELA	LUMENS
0	2310	
5	2222	208
15	1977	559
25	1801	825
35	1294	697
45	240	189
55	77	73
65	17	18
75	4	4
85	0	0
95	0	

Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	64.2	6.5
8'	36.1	8.6
10'	23.1	10.8
12'	16.0	13.0
14'	11.8	15.1
16'	9.0	17.3

Beam Distribution: 71°
Spacing Criterion: 1.0

*For the 1000 Series/16W data, multiply results by .42
For the 2000 Series/29W data, multiply results by .73*

1. Accuracy of rendering colors
2. Color appearance of light source
3. Colors present within the light source

*Dependent on surrounding temperatures