

**Specifications/Features**

**Housing/Mounting**

Specification grade 4" remodel housing, 5-1/4" O.D. plaster ring flange. 4-7/8" 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. Heavy duty steel plaster ring is secured to ceiling by three (3) spring clamps. LED drivers are fully accessible from below the ceiling, and with the spring-latch housing attachment, can be easily removed. Quick-connect LED light engine enables easy installation and removal.

**Electrical**

UL8750 and Class 2 Compliant; RoHS Compliant, US only. Output over voltage, over-current and short circuit protection. Approved for through-circuit wiring. Max.: (4) 12 AWG (2in/2out). Pre-wired junction box with convenient screwdriver pry-outs. (4) 1/2" concentric knockouts.

**Lamp**

Light engine consists of a high output multi-chip LED array arranged into a single LED package, enabling precise optical control without requiring lensing to diffuse multiple LED sources. Excellent fixture-to-fixture color consistency within a 3-step MacAdam Ellipse tolerance.

**Dimming**

All RA4LRM downlights are available for non-dimming and dimming applications. For non-dimming applications, use driver option D2.

**Trims**

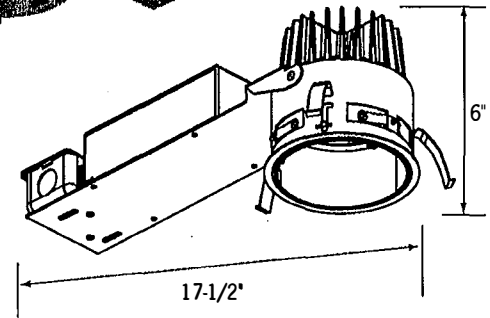
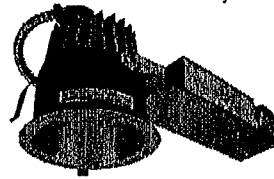
Specification Grade trims are available in several different styles and finishes for your space. Featuring a high quality Alzak™ finish; optically designed for reduced glare while maintaining maximum lumen output. See "4" LED Recessed Trims" spec sheet for information and details.

**Warranty**

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

**Labels/Usage**

CSAus Certified to UL Standards. Suitable for damp locations. CSA Certified to UL Standards. Refer to trim spec sheet for Canada compliant trims. Energy Star approved when used with CST4322L-CLR (all beam distributions) and CST4322L-PL trims. Not approved for 4000K options. Assembled in the USA.



Ceiling Opening: 4-7/8"  
Ceiling Thickness: 1/2" - 5/8"

	1000 Series	2000 Series
<b>Input Voltage</b>		
Non-dimming	90-305V AC, 47-63Hz	90-305V AC, 47-63Hz
0-10V dimming	90-305V AC, 47-63Hz	90-305V AC, 47-63Hz
Triac dimming	90-135V AC, 47-63Hz	Not Available
Lutron HiLume® Dimming	120V AC, 50/60Hz	120V AC, 50/60Hz
<b>Input Wattage</b>	16	29
<b>Output Current (mA)</b>	350	700
<b>Color Temp</b>	2700K/3000K 3500K/4000K	2700K/3000K 3500K/4000K
<b>CRI: Standard</b>	83 (80min)	83 (80min)
<b>Driver</b>		
Power Factor	> 0.90	> 0.90
THD	< 20%	< 20%
<b>Dimming</b>		
0-10V	15-100%	15-100%
Triac	10-100%	Not Available
Lutron HiLume®	1-100%	1-100%
<b>Emergency Batt. Backup</b>	Not Available	Not Available

**Ordering Information**

Example Order: RA4LRM — I30KI 2D2 CST4322LN-CLR

Housing	LED Module/Color Temp	Electrical/Dimming	Trim Type
RA4 RM	—	12D2	

**RA4LRM**

**1000 Series**

- 127K** - 16W/2700K
- 130K** - 16W/3000K
- 135K** - 16W/3500K
- 140K** - 16W/4000K

**2000 Series**

- 227K** - 29W/2700K
- 230K** - 29W/3000K
- 235K** - 29W/3500K
- 240K** - 29W/4000K

Consult factory for high CRI options

**12D1** - 120V Triac Dimming

- 12D2** - 120V Non-Dimming/0-10V Dimming
- 12D3** - 120V Lutron HiLume® Dimming
- 27D2** - 277V Non-Dimming/0-10V Dimming

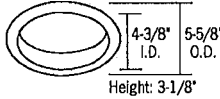
- \* - All Others Leave Blank
- W - Wall Wash

\*Trims

See "4" LED Recessed Trims" sheet for trim information and details.



**Specification Grade Specular Reflector**  
Specification grade specular reflector: narrow beam clear, medium beam clear, wide beam clear, platinum, or white. OD: 5-5/8"; ID: 4-3/8"  
Approved for use in U.S. and Canada. Add "-C" after finish code for wet location approved trim.



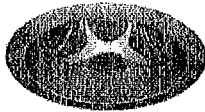
- CST4322LN-CLR** - Narrow Beam (47°), Clear Reflector
- CST4322LM-CLR** - Medium Beam (55°), Clear Reflector
- CST4322LW-CLR** - Wide Beam (72°), Clear Reflector
- CST4322L-PL** - Platinum Reflector
- CST4322L-WHT** - White Reflector



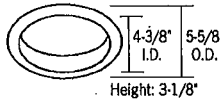
**Lensed Wall Wash Trim**  
Lensed Wall Wash Trim; Clear, Platinum or White Reflector. OD: 5-1/2"; ID: 4"  
Approved for use in U.S. and Canada.



- CTR4323L-CLR** - Clear Reflector
- CTR4323L-PL** - Platinum Reflector
- CTR4323L-WHT** - White Reflector



**Two Piece Reflector Trim**  
Two piece reflector: clear or white upper reflector, clear or platinum lower cone; Includes (1) LF20-CL glass lens. OD: 5-5/8"; ID: 3-1/2"  
Approved for use in U.S. and Canada when glass lens is installed (in dry or wet locations).



- CTR4321L-CLR-(CLR,PL)** - Clear Reflector
- CTR4321L-WHT-(CLR,PL)** - White Reflector

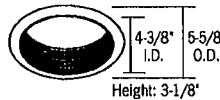


**Floating Glass Trim**  
Floating glass disc; clear or white reflector. 1-1/4" Drop from ceiling. Glass OD: 6-1/16".  
Approved for use in U.S. and Canada.

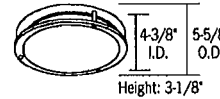
- CTR4325L-(CLR,WHT)-P**



**Two Piece Reflector/Baffle Trim**  
Two piece reflector: clear or white upper reflector, black or white lower baffle; Includes (1) LF20-CL glass lens. OD: 5-5/8"; ID: 3-1/2"  
Approved for use in U.S. and Canada when glass lens is installed (in dry or wet locations).

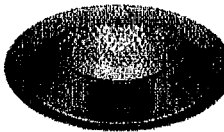


- CTR4321L-CLR-(B,P)** - Clear Reflector
- CTR4321L-WHT-P-(B,P)** - White Reflector

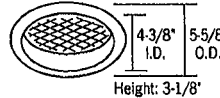


**Floating Glass Ring**  
Floating glass ring; clear or white reflector. 1-1/4" Drop from ceiling; 3-1/2" center hole. Glass OD: 6-1/16".  
Approved for use in U.S. and Canada.

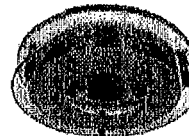
- CTR4326L-(CLR,WHT)-P**



**Two Piece Reflector Trim with Lens**  
Two piece reflector with lens: Clear or white upper reflector, clear or platinum lower cone; regressed prismatic convex lens, Wet Location Listed. OD: 5-5/8"; ID: 3-7/8"  
Approved for use in U.S. and Canada.

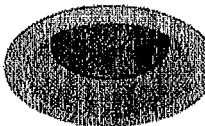


- CTR4327L-CLR-(CLR,PL)** - Clear Reflector
- CTR4327L-WHT-(CLR,PL)** - White Reflector

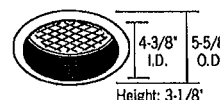


**Floating Single Acrylic Ring**  
Single floating colored acrylic ring; clear or white reflector. 1-1/2" Drop from ceiling. Acrylic Ring OD: 6-7/8"; ID: 4-3/8".  
Approved for use in U.S. and Canada.

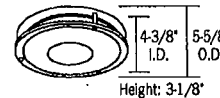
- CTR4324L-(CLR,WHT)-P**
- 1AR4(B,F,G,R,Y)**



**Two Piece Reflector/Baffle Trim with Lens**  
Two piece reflector 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: 5-5/8"; ID: 3-7/8"  
Approved for use in U.S. and Canada.



- CTR4327L-CLR-(B,P)** - Clear Reflector
- CTR4327L-WHT-P-(B,P)** - White Reflector



**Floating Double Acrylic Ring**  
Stacked floating colored acrylic rings; clear or white reflector. 2-3/4" Drop from ceiling. Acrylic Ring OD: 6-7/8"; ID: 4-3/8".  
Approved for use in U.S. and Canada.

- CTR4324L-(CLR,WHT)-P**
- 2AR4(B,F,G,R,Y)**

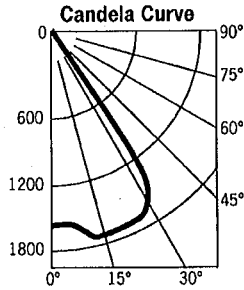
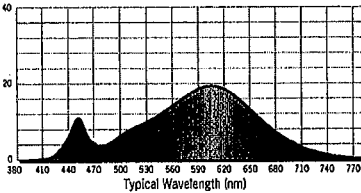


**Photometrics**

**RA4LNC-230K12D2/CST4322LW-CLR**

Designed for 50,000 Hour Lamp Life\*; LM-79 Test No. 70358

Light Output (Fixture Delivered Lumens): 2056  
Total Watts@120V: 28.6  
Lumens Per Watt: 72  
Color Rendering Index (CRI)<sup>1</sup>: 83  
Color Temperature (CCT)<sup>2</sup>: 3079K Warm White  
Spectral Power Distribution Chart<sup>3</sup>



**Candlepower Summary**

FROM 0	CANDELA	LUMENS
0	1553	
5	1519	150
15	1731	489
25	1714	783
35	924	542
45	78	64
55	24	21
65	6	6
75	2	1
85	0	0
95	0	

**Intensity Distribution**

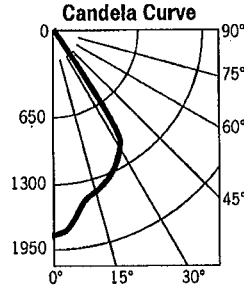
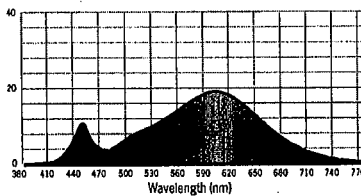
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	43.1	7.7
8'	24.3	10.3
10'	15.5	12.9
12'	10.8	15.5
14'	7.9	18.0
16'	6.1	20.6

Beam Distribution: 72°  
Spacing Criteria: 1.29

**RA4LNC-230K12D2/CST4322L-PL**

Designed for 50,000 Hour Lamp Life\*; LM-79 Test No. 70359

Light Output (Fixture Delivered Lumens): 1806  
Total Watts@120V: 29.5  
Lumens Per Watt: 61  
Color Rendering Index (CRI)<sup>1</sup>: 82  
Color Temperature (CCT)<sup>2</sup>: 3080K Warm White  
Spectral Power Distribution Chart<sup>3</sup>



**Candlepower Summary**

FROM 0	CANDELA	LUMENS
0	1855	
5	1725	161
15	1502	428
25	1347	616
35	721	436
45	139	112
55	40	39
65	10	11
75	2	2
85	0	0
95	0	

**Intensity Distribution**

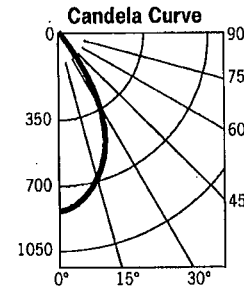
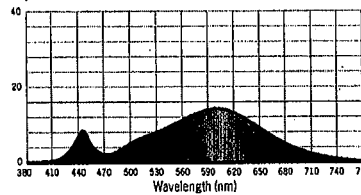
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	51.5	6.0
8'	29.0	8.0
10'	18.5	10.0
12'	12.9	12.1
14'	9.5	14.1
16'	7.2	16.1

Beam Distribution: 68°  
Spacing Criteria: 1.0

**RA4LNC-230K12D2/CTR4323L-CLR**

Designed for 50,000 Hour Lamp Life\*; LM-79 Test No. 72139

Light Output (Fixture Delivered Lumens): 876  
Total Watts@120V: 28.7  
Lumens Per Watt: 31  
Color Rendering Index (CRI)<sup>1</sup>: 81  
Color Temperature (CCT)<sup>2</sup>: 3168K Warm White  
Spectral Power Distribution Chart<sup>3</sup>



**Candlepower Summary**

FROM 0	CANDELA	LUMENS
0	812	
5	907	76
15	931	196
25	778	239
35	479	180
45	236	99
55	131	52
65	61	24
75	16	8
85	3	3
95	0	

**Footcandles on Wall**

Single Unit, 3' From Wall

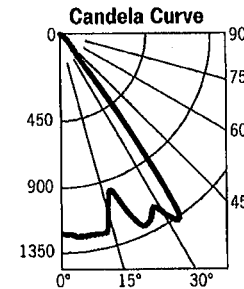
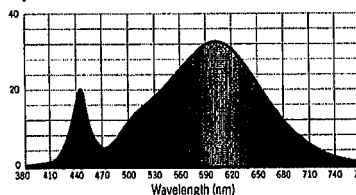
Distance from Ceiling	Single Unit, 3' From Wall					
	0'	1'	2'	3'	4'	5'
1'	3	2	1	0	0	0
2'	8	6	3	1	0	0
3'	9	8	4	2	1	0
4'	10	8	5	3	1	1
5'	9	8	5	3	1	1
6'	7	7	5	3	2	1
7'	6	5	4	3	2	1
8'	4	4	3	3	2	1
9'	3	3	3	2	2	1

beam center

**RA4LNC-230K12D2/CTR4326L-CLR-P**

Designed for 50,000 Hour Lamp Life\*; LM-63 Test No. 71563

Light Output (Fixture Delivered Lumens): 1730  
Total Watts@120V: 29  
Lumens Per Watt: 60  
Color Rendering Index (CRI)<sup>1</sup>: 82  
Color Temperature (CCT)<sup>2</sup>: 3138K Warm White  
Spectral Power Distribution Chart<sup>3</sup>



**Candlepower Summary**

FROM 0	CANDELA	LUMENS
0	1258	
5	1280	122
15	1107	326
25	1256	587
35	628	461
45	105	84
55	53	49
65	29	29
75	14	16
85	5	6
95	5	

**Intensity Distribution**

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	34.9	8.0
8'	19.7	10.6
10'	12.6	13.3
12'	8.7	15.9
14'	6.4	18.6
16'	4.9	21.2

Beam Distribution: 70°  
Spacing Criteria: 1.30

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

\*Dependent on surrounding temperatures

For the 1000 Series/16W data, multiply results by .50