



6" LED Recessed Downlight: Remodel Housing

Catalog	No	

Type _____

Project _____

Specifications/Features

Housing/Mounting

Specification grade 6" housing, 6-1/2" aperture. 6-5/8" Ceiling opening. 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 module/trim assembly is held in place with three (3) "trim lock" dimpled spring clips.

Quick-connect LED light engine enables easy installation and removal. LED Drivers are fully accessible from below the ceiling and can be easily removed.

Electrical

UL8750 and Class 2 Compliant, RoHS Compliant.

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

Approved for through-circuit wiring. Max: (4) 12AWG (2in/2out). Wiring should be rated for at least 75°C.

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

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. System designed and rated for 50,000 hours at 70% lumen maintenance.

Dimming

All R6RM downlights are available for non-dimming and dimming applications.

For a list of compatible dimmers, refer to LED Dimming Catalog.

Trims

Specification Grade trims are available in several different styles and finishes. Featuring a high quality Alzak™ finish; optically designed for reduced glare while maintaining maximum lumen output. See attached trim 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

cCSAus Certified to UL Standards. Suitable for damp locations. Energy Star certified with the following trims: C6322-PL, C6322-WHT and C6322-CLR (all beam distributions). The –C and –SL options are not certified.

Lutron and eldoLED dimming options are not Energy Star certified. Assembled in the USA.



6-3/4

Ceiling Opening: 6-5/8" Ceiling Thickness: 1/2" – 5/8"

13-5/8"

	Series 1	Series 2	Series 3	Series 4	Series 5	Series 6	
Input Wattage (W)	10	14	20	28	37	43	
Input Current (A) 120/277	.08/.04	.12/.06	.17/.08	.23/.11	.31/.14	.36/.17	
Input Voltage							
Dimming (Triac, ELV, 0-10V)			120V AC	, 50/60Hz			
			277V AC	, 50/60Hz			
Lutron HiLume® Dimming			120V AC	, 50/60Hz			
Lutron Eco-System® Dimming			120V AC	, 50/60Hz			
			277V AC	, 50/60Hz			
eldoLED ECOdrive/SOLOdrive/			120V AC	, 50/60Hz			
POWERdrive DMX	277V AC, 50/60Hz						
Color Temp	2700K/3000K/3500K/4000K						
CRI Standard/High	83 (80min) / 90+						
Driver							
Power Factor	> 0.90						
THD			<	20%			
Dimming							
Triac, ELV, 0-10V			10-	100%			
Lutron®	1-100%						
eldoLED ECOdrive	1-100%						
eldoLED SOLOdrive	0.1-100%						
eldoLED POWERdrive DMX			0-1	.00%			



6" LED Recessed Downlight: Remodel Housing

Catalog No.	
Type	

Project __

Example Order: R6F		R6RMI27KI2D	C6322N-CLR	
Housing	LED Series	Color Temp	Electrical	Dimming
R6RM	1 - 10W, 1000 2 - 14W, 1400 3 - 20W, 2000 4 - 28W, 2600 5 - 37W, 3200 6 - 43W, 3600	Olm 30K - 3000K, 83 Olm 35K - 3500K, 83 Olm 40K - 4000K, 83 Olm 27KC - 2700K, 90	CRI 27 - 277V CRI CRI ++ CRI ++ CRI ++ CRI	 D¹ - Triac, ELV, O·10V Dimming D3² - Lutron Hi-lume 1% 2-Wire LED Driver (120V Forward Phase Only) D4 - Lutron Hi-lume 1% EcoSystem LED Driver with Soft-on, Fade-to-Black D6³ - eldoLED ECOdrive, O·10V, 1% Dimming D7³ - eldoLED ECOdrive, DALI, 1% Dimming D8³ - eldoLED SOLOdrive, O·10V, 0.1% Dimming D9³ - eldoLED SOLOdrive, DALI, 0.1% Dimming D9³ - eldoLED POWERdrive, DMX 0.0% Dimming
Trims				

 Triac and ELV dimming for 120V only
 Lutron Hi-Lume dimming only
 available in 120V
 eldoLED Drivers are programmed for linear curve dimming as standard.

For logarithmic curve dimming, please consult factory.

4. Verify DMX Driver and Control System compatibility with factory prior to ordering.

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



Catalog No.

Project -

R6 Series

6" LED Recessed Downlight Trims



Specification Grade Specular Reflector

Specification grade specular reflector: narrow beam clear, medium beam clear, wide beam clear, platinum, platinum wheat, or white. OD: 7"; ID: 5-3/4"

Add "-C" (clear lens) or "-SL" (sandblast lens) after finish code for wet location approved trim.

C6322N-CLR* - 34° Clear Reflector C6322M-CLR* - 65° Clear Reflector C6322W-CLR* - 75° Clear Reflector - Platinum Reflector C6322-PL* C6322-PLWHE* - Platinum Wheat Reflector C6322-WHT - White Reflector

*Available with White Painted Flange, add "-WPF" to part number.



5-5/8

I.D.

Height: 4-1/4"

5-3/4"

7-7/8"

7-7/8

5-3/4"

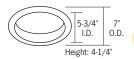
0.D.

Lensed Wall Wash Trim

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

C6323-CLR* - Clear Reflector C6323-PL* - Platinum Reflector C6323-WHT - White Reflector

*Available with White Painted Flange, add "-WPF" to part number.





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"; ID: 5-3/4"

Approved for dry/damp locations. Approved for wet locations when glass lens is installed.



- Clear Reflector/

C6321-WHT-(CLR,PL)

Clear or Platinum Lower Cone

Clear or Platinum Lower Cone



Floating Glass Trim

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

CTR6325L2-(CLR,WHT)-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".

CTR6326L2-(CLR,WHT)-P



5-3/4"

I.D.

Height: 4-1/4"

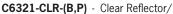
Height: 4-1/4"

0.D.

Two Piece Reflector/Baffle Trim

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

Approved for dry/damp locations. Approved for wet locations when glass lens is installed.



Black or White Lower Baffle

C6321-WHT-(B,P) - White Reflector/

Black or White Lower Baffle



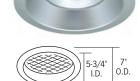
Floating Single Acrylic Ring

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".



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



Two Piece Reflector Trim with Lens

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

C6327-CLR-(CLR,PL) - Clear Reflector/

Clear or Platinum Lower Cone

C6327-WHT-(CLR,PL) - White Reflector/

Clear or Platinum Lower Cone



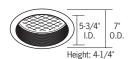
Floating Double Acrylic Ring

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".



CTR6324L2-(CLR,WHT)-P 2AR6(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"; ID: 5-3/4"

C6327-CLR-(B,P) - Clear Reflector/

Black or White Lower Baffle

C6327-WHT-(B.P) - White Reflector/

Black or White Lower Baffle

Acrylic Ring Finishes: -B (blue), -F (frosted), -G (green), -R (red), -Y (yellow)



6" LED Recessed Downlight: Remodel Housing

Catalog	No
- 0	

Type		
IVDE		

Project			
Project _			

Photometrics

Multiplication Factors

CCT	STD CRI	HIGH CRI	SERIES 1	SERIES 2	SERIES 3	SERIES 4	SERIES 5	WHT/PL REFLECTORS
2700K	0.94	0.70	0.29	0.39	0.53	0.73	0.90	1.0
3000K	N/A	0.75	0.29	0.39	0.53	0.73	0.90	1.0
3500K	1.0	0.81	0.29	0.39	0.53	0.73	0.90	1.0
4000K	1.0	0.87	0.29	0.39	0.53	0.73	0.90	1.0

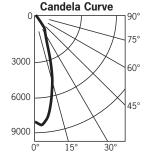
R6NC630K12D/C6322N-CLR

Designed for 50,000 Hour Lamp Life*; LM-63 Test No. 85531

Designed for 50,000 Hour Lamp Life*; LM-63 Test No. 85912

Light Output (Fixture Delivered Lumens): 3544
Total Watts@120V: 43.0
Lumens Per Watt: 82.4
Color Rendering Index (CRI)¹: 83
Color Temperature (CCT)²: 3034K

Spectral Power Distribution Chart³



Candlepower Summary							
FROM 0	CANDELA	LUMENS					
0	8149						
5	8114	731					
15	4969	1336					
25	1863	898					
35	1073	530					
45	35	28					
55	15	14					
65	6	6					
75	2	2					
85	0	0					
95	0						

Intensity Distribution						
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)				
6'	226.4	3.4				
8'	/127.3 \	4.6				
10'	81.5	5.7				
12'	56.6	6.9				
14'	41.6	8.0				
16' /	31.8	9.1				

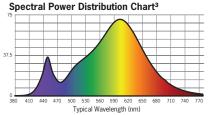
Beam Distribution: 34° **Spacing Criteria:** 0.56

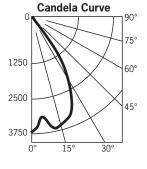
R6NC630K12D/C6322M-CLR

Light Output (Fixture Delivered Lumens): 3539 Total Watts@120V: 43.3 Lumens Per Watt: 81.7

00 530 560 590 620 65 Typical Wavelength (nm)

Color Rendering Index (CRI)1: 82 Color Temperature (CCT)2: 3088K





Candlepower Summary							
FROM 0	CANDELA	LUMENS					
0	3647						
5	3210	320					
15	3537	994					
25	2954	1328					
35	1389	761					
45	95	76					
55	43	39					
65	15	16					
75	4	5					
85	1	1					
95	0						

Intensity Distribution						
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)				
6'	101.3	6.2				
8'	57.0	8.3				
10'	36.5	10.4				
12'	25.3	12.5				
14'	18.6	14.6				
16' /	14.2	16.7				

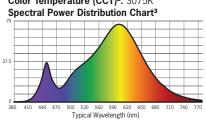
Beam Distribution: 66° **Spacing Criteria:** 0.95

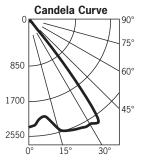
R6NC630K12D/C6322W-CLR

Light Output (Fixture Delivered Lumens): 3521 **Total Watts@120V:** 44.0

Lumens Per Watt: 80.0

Color Rendering Index (CRI)¹: 82 Color Temperature (CCT)²: 3075K





Candlepower Summary						
FROM 0	CANDELA	LUMENS				
0	2330					
5	2183	208				
15	2469	691				
25	2596	1203				
35	2475	1235				
45	114	118				
55	49	44				
65	16	17				
75	4	5				
85	1	1				
95	0					

Designed for 50,000 Hou	ur Lamp Life*; LM-63 Test No. 85700
ower Summary	Intensity Distribution
ANDELA LUMENO	

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	64.7	8.6
8'	36.4	11.5
10'	23.3	14.4
12'	16.2	17.3
14'	11.9	20.1
16'	9.1	23.0

Beam Distribution: 75° Spacing Criteria: 1.11

^{1.} Accuracy of rendering colors

^{2.} Color appearance of light source

^{3.} Colors present within the light source



6" LED Recessed Downlight: Remodel Housing

Catalog	No

Type		

Project _			
1 101001 -			

Photometrics

Multiplication Factors

CCT	STD CRI	HIGH CRI	SERIES 1	SERIES 2	SERIES 3	SERIES 4	SERIES 5	WHT/PL REFLECTORS
2700K	0.94	0.70	0.29	0.39	0.53	0.73	0.90	1.0
3000K	N/A	0.75	0.29	0.39	0.53	0.73	0.90	1.0
3500K	1.0	0.81	0.29	0.39	0.53	0.73	0.90	1.0
4000K	1.0	0.87	0.29	0.39	0.53	0.73	0.90	1.0

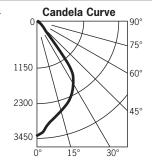
R6NC630K12D/C6322-PL

Designed for 50,000 Hour Lamp Life*; LM-63 Test No. 86084

Light Output (Fixture Delivered Lumens): 3304
Total Watts@120V: 43.2
Lumens Per Watt: 76.5
Color Pendering Index (CPIN): 82

Color Rendering Index (CRI)¹: 82 Color Temperature (CCT)²: 3030K Spectral Rewer Distribution Chart³





Candlepower Summary					
FROM 0	CANDELA	LUMENS			
0	3359				
5	3092	289			
15	2708	764			
25	2346	1073			
35	1612	852			
45	244	194			
55	95	88			
65	31	32			
75	9	10			
85	1	2			
95	0				

Intensity Distribution						
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)				
6'	/93.3	5.8				
8'	52.5	7.7				
10'	33.6	9.7				
12'	/ 23.3	11.6				
14'	17.1	13.6				
16'	13.1	15.5				

Beam Distribution: 69° **Spacing Criteria:** 0.97

^{1.} Accuracy of rendering colors

^{2.} Color appearance of light source