

6" LED Recessed Downlight: Universal New Construction Housing

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. 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 can be easily removed.



Catalog No._



Electrical

UL8750 and Class 2 Compliant, RoHS Compliant.

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

Approved for through-circuit wiring, Max: (8) 12AWG (4in/4out). Wiring rated to 90°C.

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

Optional emergency battery pack with remote test switch is available.

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 R6 downlights are available for non-dimming and dimming applications. For a list of compatible dimmers, refer to LED Dimming Catalog.

Specification Grade trims are offered with trimmed and trimless options. Several different styles and finishes are available. 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.

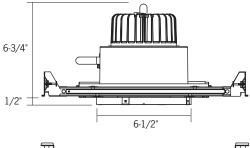
Emergency Battery option is covered by a one (1) year replacement guarantee after date of purchase.

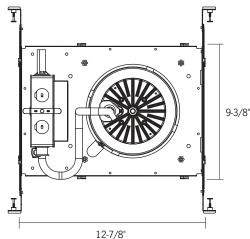
Labels/Usage

cCSAus Certified to UL Standards. Suitable for damp locations. cCSAus Certified to UL924 Standard for Emergency Lighting. Assembled in the USA.

Energy Star certified:

- Series 1 through 6.
- Certified trims only: C6322-PL, CN6322-PL, C6322-WHT, CN6322-WHT, C6322-CLR and CN6322-CLR (all beam distributions). The -C and -SL options are not Energy Star certified.
- Lutron and eldoLED dimming options are not Energy Star certified.
- 347V option is not Energy Star Certified.





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

	Series 1	Series 2	Series 3	Series 4	Series 5	Series 6	
Input Wattage (W)	10	14	20	28	37	43	
Input Current (A) 120/277/347	.08/.04/.03	.12/.06/.04	.17/.08/.06	.23/.11/.08	.31/.14/.11	.36/.16/.12	
Input Voltage							
Standard Driver (120V & 277V)			120V AC,	50/60Hz			
			277V AC,	50/60Hz			
Standard Driver (347V)			347V AC,	50/60Hz			
Lutron HiLume® Driver	120V AC, 50/60Hz						
Lutron Eco-System® Driver	120V AC, 50/60Hz						
	277V AC, 50/60Hz						
eldoLED ECOdrive / SOLOdrive	120V AC, 50/60Hz						
	277V AC, 50/60Hz						
Color Temp	2700K/3000K/3500K/4000K						
CRI Standard/High	83 (80min) / 90+						
Driver							
Power Factor	> 0.90						
THD	< 20%						



6" LED Recessed Downlight: Universal New Construction Housing

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Ordering Information

Example Order	: R6NC	C130K12D —	ER	C6322N-CLR	
Housing	LED Series	Color Temp	Electrical	Dimming	Options —
;	1 - 10W, 1000lm 2 - 14W, 1400lm 3 - 20W, 2000lm 4 - 28W, 2600lm 5 - 37W, 3200lm 6 - 43W, 3600lm	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 27KC - 2700K, 90+ CRI 30KC - 3000K, 90+ CRI 35KC - 3500K, 90+ CRI 40KC - 4000K, 90+ CRI	12 - 120V 27 - 277V 34¹ - 347V	D ² - Triac, ELV, 0-10V Dimming D2 ¹ - 347V, 0-10V Dimming Only D3 ³ - 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 D6 ⁴ - eldoLED ECOdrive, 0-10V, 1% Dimming D7 ⁴ - eldoLED ECOdrive, 0-10V, 0.1% Dimming D8 ⁴ - eldoLED SOLOdrive, 0-10V, 0.1% Dimming D9 ⁴ - eldoLED SOLOdrive, DALI, 0.1% Dimming DMX ^{4,5} - eldoLED POWERdrive, DMX 0.0% Dimming	

For Intellect™ Enabled housing, refer to R6NCIE specification sheet.

Accessories (Standard Hanger Bars Supplied with Housing)

MF6 - 6" Mud Frame 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

RSA6L-5-WHT - 6" Slope Ceiling Adapter, 5° Pitch RSA6L-10-WHT - 6" Slope Ceiling Adapter, 10° Pitch RSA6L-15-WHT - 6" Slope Ceiling Adapter, 15° Pitch RSA6L-20-WHT - 6" Slope Ceiling Adapter, 20" Pitch RSA6L-25-WHT - 6" Slope Ceiling Adapter, 25" Pitch RSA6L-30-WHT - 6" Slope Ceiling Adapter, 30° Pitch

Trims

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

^{1.} Only available for 347V Dimming option (D2). Cannot be used with Emergency Battery Backup option.

^{2.} Triac and ELV dimming for 120V only

^{3.} Lutron Hi-Lume dimming only available in 120V

^{4.} eldoLED Drivers are programmed for linear curve dimming as standard. For logarithmic curve dimming, please consult factory.

^{5.} Verify DMX Driver and Control System compatibility with factory prior to ordering.

^{6.} Emergency battery backup option: 725 lumen nominal average for any Series 1 through 6.



Catalog No.

Project -

R6 Series

6" LED Recessed Downlight Trims

Trimmed Options







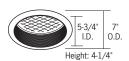
Specification Grade Specular Reflector

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 C6322-PL* - 69° Platinum Reflector C6322-PLWHE* - 69° Platinum Wheat Reflector C6322-WHT - 72° White Reflector





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



5-3/4"

ΙD

Height: 4-1/4"

0.D.

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";

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



- Clear Reflector/ Clear or Platinum Lower Cone

C6321-WHT-(CLR,PL)

White Reflector/ Clear or Platinum Lower Cone



5-5/8" I.D.

Height: 4-1/4"

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

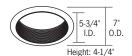
*Available with White Painted Flange, add "-WPF" to part number.



Two Piece Reflector/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.



C6321-CLR-(B,P) - Clear Reflector/ Black or White Lower Baffle

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

Black or White Lower Baffle



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

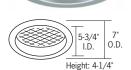




Floating Glass Ring

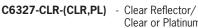
Floating glass ring; clear or white reflector. 1-1/4" Drop from ceiling; 3-1/2" center hole. Glass OD: 8-3/4".

CTR6326L2-(CLR,WHT)-P



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"



Clear or Platinum Lower Cone

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

Clear or Platinum Lower Cone



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



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R6 Series

6" LED Recessed Downlight Trims

Trimless Options

Important Notes: Trimless option requires use of accessory mud frame (MF6 – ordered separately).

Trimless option CANNOT be used on Remodel (R6RM) style housings.

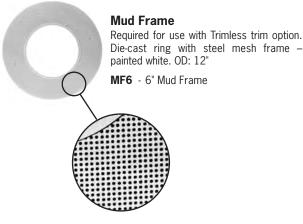
Trimless option for use with 1/2" - 1" ceiling thicknesses only.



Specification Grade Specular Reflector

Specification grade reflector: narrow beam clear, medium beam clear, wide beam clear, platinum, or white. ID: 6"
Add "-C" (clear lens) or "-SL" (sandblast lens) after finish code for wet location approved trim.

CN6322N-CLR - 34° Clear Reflector
CN6322M-CLR - 65° Clear Reflector
CN6322W-CLR - 75° Clear Reflector
CN6322-PL - 69° Platinum Reflector
CN6322-WHT - 72° White Reflector





Lensed Wall Wash Trim

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



CN6323-CLR - Clear Reflector CN6323-PL - Platinum Reflector CN6323-WHT - White Reflector



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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

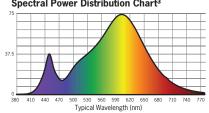
R6NC630K12D/C6322N-CLR

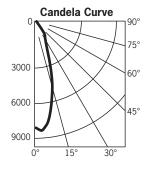
Designed for 50,000 Hour Lamp Life*; LM-63 Test No. 85531

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		

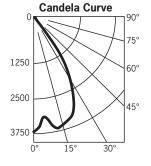
Beam Distribution: 34° **Spacing Criteria:** 0.56

R6NC630K12D/C6322M-CLR

Light Output (Fixture Delivered Lumens): 3539 **Total Watts@120V:** 43.3

Lumens Per Watt: 81.7 Color Rendering Index (CRI)¹: 82 Color Temperature (CCT)²: 3088K





Candlepower Summa				
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

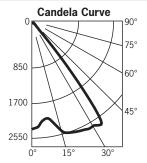
R6NC630K12D/C6322W-CLR

Designed for 50,000 Hour Lamp Life*; LM-63 Test No. 85700

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

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
Spectral Power Distribution Chart³





Candle	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					

Intensity Distribution					
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: Universal New Construction Housing

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Photometrics

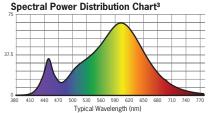
Multiplication Factors

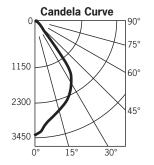
CCT	STD CRI	HIGH CRI	SERIES 1	SERIES 2	SERIES 3	SERIES 4	SERIES 5	WHT/PL REFLECTORS
2700K	0.94	0.70	0.29	0.39	0.53	0.73	0.90	1.0
3000K	N/A	0.75	0.29	0.39	0.53	0.73	0.90	1.0
3500K	1.0	0.81	0.29	0.39	0.53	0.73	0.90	1.0
4000K	1.0	0.87	0.29	0.39	0.53	0.73	0.90	1.0

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 Rendering Index (CRI)¹: 82
Color Temperature (CCT)²: 3030K





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

All specifications subject to change without notice.

^{1.} Accuracy of rendering colors

^{2.} Color appearance of light source