

R4SA

4" LED Recessed Downlight: StopAire® Housing

Specifications/Features

Housing/Mounting

Specification grade 4" Stop Aire® 4-3/4" aperture. 4-7/8" 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 and 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.

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.: (8) 12 AWG (4in/4out). Wiring should be rated for at least 90°C. Pre-wired junction box with (8) 1/2" and (4) 3/4" 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. System designed and rated for 50,000 hours at 70% lumen depreciation.

Dimming

All R4SA downlights are available for non-dimming and dimming applications. For a list of compatible dimmers, see [Dimming Specifications](#) sheet.

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

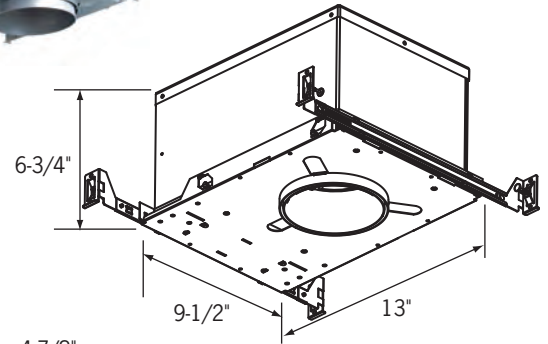
This complete fixture is covered by ConTech's full five (5) year replacement guarantee after date of purchase.

Labels/Usage

cCSAus Certified to UL Standards. Suitable for damp locations. Conforms to Washington State Energy Code (WSEC) for low air infiltration. Tested in accordance with ASTM E283 (2.0 CFM or less). Chicago Plenum CCEA Listed. Assembled in the USA.

Energy Star certified:

- Series 1 through 6.
- Certified trims only: C4322-PL, C4322-WHT and C4322-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: 4-7/8"
Ceiling Thickness: 1/2" – 1-1/2"

	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					N/A
	277V AC, 50/60Hz					N/A
Color Temp	2700K/3000K/3500K/4000K					
CRI Standard/High	83 (80min) / 90+					
Driver						
Power Factor	> 0.90					
THD	< 20%					

R4SA

4" LED Recessed Downlight: StopAire® Housing

Ordering Information

Example Order:

R4SAI27K12D

C4322N-CLR

Housing	LED Series	Color Temp	Electrical	Dimming
R4SA	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 34 ¹ - 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, DALI, 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

Accessories (Standard Hanger Bars Supplied with Housing)

HB-30 - T-Bar Hanger Set

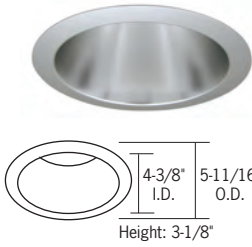
Trims

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

1. Only available for 347V Dimming option (D2).
 2. Triac and ELV dimming for 120V only.
 3. Lutron Hi-Lume dimming only available in 120V.
 4. LED Series 6 is not available with eldoLED Dimming options.
 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.

R4 Series

4" 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: 5-11/16"; ID: 4-3/8"
 Add "C" (clear lens) or "SL" (sandblast lens) after finish code for wet location approved trim.

- C4322N-CLR*** - Narrow Beam (36°), Clear Reflector
- C4322M-CLR*** - Medium Beam (54°), Clear Reflector
- C4322W-CLR*** - Wide Beam (80°), Clear Reflector
- C4322-PL*** - Platinum Reflector
- C4322-PLWHE*** - Platinum Wheat Reflector
- C4322-WHT** - White Reflector

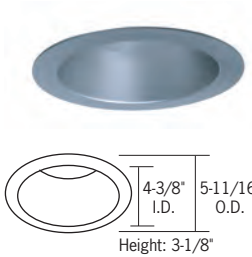
*Available with White Painted Flange, add "-WPF" to part number



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: 5-11/16"; ID: 3-7/8"

- C4327-CLR-(CLR,PL)** - Clear Reflector/ Clear or Platinum Lower Cone
- C4327-WHT-(CLR,PL)** - White Reflector/ Clear or Platinum Lower Cone



ISOWET Dead Front Reflector Trim

Isolated, wet location approved thermoplastic reflector with clear glass lens. Lens is deeply regressed inside top of reflector. OD: 5-11/16"; ID: 4-3/8"

- C4322DF-SL** - Satin Silver Paint
- C4322DF-SL-WPF** - Satin Silver Paint with White Painted Flange
- C4322DF-WHT** - Matte White Paint



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: 5-11/16"; ID: 3-7/8"

- C4327-CLR-(B,P)** - Clear Reflector/ Black or White Lower Baffle
- C4327-WHT-(B,P)** - White Reflector/ Black or White Lower Baffle



Two Piece Reflector Trim

Two piece reflector: clear or white upper reflector, clear or platinum lower cone; Includes (1) LF20-CL glass lens. OD: 5-11/16"; ID: 3-7/8"

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

- C4321-CLR-(CLR,PL)** - Clear Reflector/Clear or Platinum Lower Cone
- C4321-WHT-(CLR,PL)** - White Reflector/Clear or Platinum Lower Cone

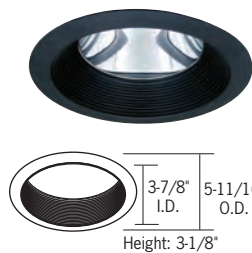


Lensed Wall Wash Trim

Lensed Wall Wash Trim; Clear, Platinum or White Reflector. OD: 5-11/16"; ID: 4"

- C4323-CLR*** - Clear Reflector
- C4323-PL*** - Platinum Reflector
- C4323-WHT** - White Reflector

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



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: 5-11/16"; ID: 3-7/8"

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

- C4321-CLR-(B,P)** - Clear Reflector/ Black or White Lower Baffle
- C4321-WHT-(B,P)** - White Reflector/ Black or White Lower Baffle

R4 Series

4" LED Recessed Downlight Trims



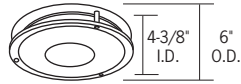
Floating Glass Trim
Floating glass disc; clear or white reflector. 1-1/4"
Drop from ceiling. Glass OD: 6".

CTR4325L-(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: 6".

CTR4326L-(CLR,WHT)-P



R4 Series

4" LED Recessed Downlight Photometrics

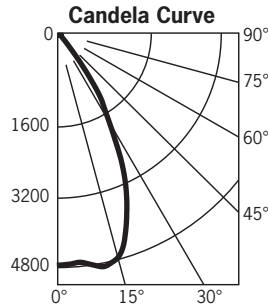
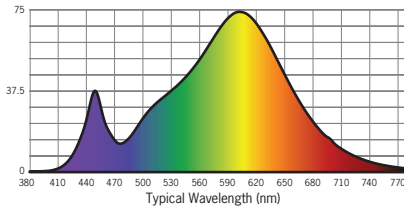
Multiplication Factors

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

R4NC630K12D/C4322M-CLR

Designed for 50,000 Hour Lamp Life*; LM-63 Test No. 85098

Light Output (Fixture Delivered Lumens): 3603
Total Watts@120V: 43.0
Lumens Per Watt: 83.8
Color Rendering Index (CRI)¹: 83
Color Temperature (CCT)²: 2988K
Spectral Power Distribution Chart³



Candlepower Summary

FROM 0	CANDELA	LUMENS
0	4747	
5	4706	455
15	4680	1278
25	2956	1316
35	815	514
45	30	24
55	11	11
65	4	4
75	1	1
85	0	0
95	0	

Intensity Distribution

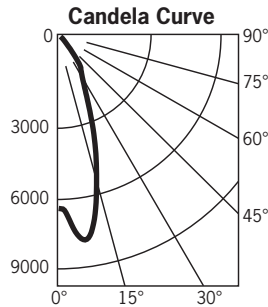
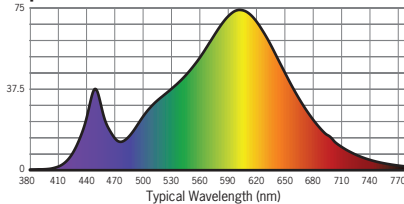
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	131.9	5.4
8'	74.2	7.2
10'	47.5	9.0
12'	33.0	10.8
14'	24.2	12.6
16'	18.5	14.4

Beam Distribution: 54°
Spacing Criteria: 0.82

R4NC630K12D/C4322N-CLR

Designed for 50,000 Hour Lamp Life*; LM-63 Test No. 85317

Light Output (Fixture Delivered Lumens): 3567
Total Watts@120V: 43.0
Lumens Per Watt: 83.0
Color Rendering Index (CRI)¹: 82
Color Temperature (CCT)²: 3027K
Spectral Power Distribution Chart³



Candlepower Summary

FROM 0	CANDELA	LUMENS
0	6579	
5	7684	716
15	5015	1377
25	1967	950
35	780	462
45	46	36
55	18	17
65	6	7
75	2	2
85	0	0
95	0	

Intensity Distribution

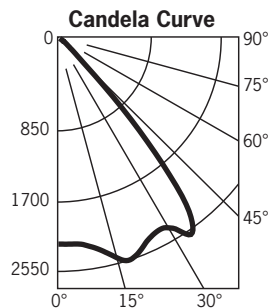
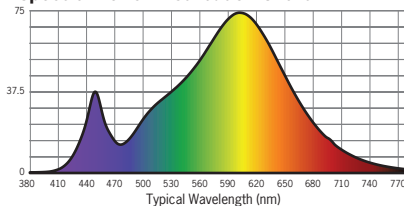
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	182.8	3.9
8'	102.8	5.3
10'	65.8	6.6
12'	45.7	7.9
14'	33.6	9.2
16'	25.7	10.5

Beam Distribution: 36°
Spacing Criteria: 0.63

R4NC630K12D/C4322W-CLR

Designed for 50,000 Hour Lamp Life*; LM-63 Test No. 84842

Light Output (Fixture Delivered Lumens): 3749
Total Watts@120V: 44.4
Lumens Per Watt: 84.4
Color Rendering Index (CRI)¹: 82
Color Temperature (CCT)²: 3025K
Spectral Power Distribution Chart³



Candlepower Summary

FROM 0	CANDELA	LUMENS
0	2248	
5	2256	218
15	2506	701
25	2356	1102
35	2448	1380
45	222	294
55	43	41
65	11	11
75	2	2
85	0	0
95	0	

Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	62.4	8.9
8'	35.1	11.9
10'	22.5	14.9
12'	15.6	17.9
14'	11.5	20.8
16'	8.8	23.8

Beam Distribution: 80°
Spacing Criteria: 1.19

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

*Dependent on surrounding temperatures

R4 Series

4" LED Recessed Downlight Photometrics

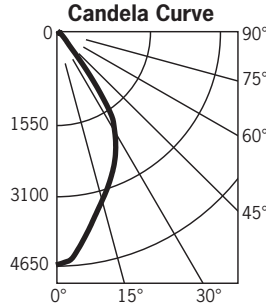
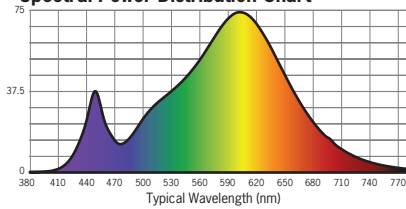
Multiplication Factors

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

R4NC630K12D/C4322-PL

Designed for 50,000 Hour Lamp Life*; LM-63 Test No. 85318

Light Output (Fixture Delivered Lumens): 3423
Total Watts@120V: 43.0
Lumens Per Watt: 79.6
Color Rendering Index (CRI)¹: 82
Color Temperature (CCT)²: 3033K
Spectral Power Distribution Chart³



Candlepower Summary

FROM 0	CANDELA	LUMENS
0	4582	
5	4309	395
15	3376	949
25	2619	1194
35	1191	725
45	140	116
55	33	33
65	8	9
75	2	2
85	0	0
95	0	

Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	127.3	4.8
8'	71.6	6.4
10'	45.8	8.0
12'	31.8	9.6
14'	23.4	11.3
16'	17.9	12.9

Beam Distribution: 57°
Spacing Criteria: 0.80

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

*Dependent on surrounding temperatures