

DESCRIPTION

The Corelite R3 LED combines excellent performance with the high sense of style and superior brightness management that characterizes the Corelite Class RZ family. The proprietary LED platform delivers a soft, diffuse volume of pure white light that carries the general character of a fluorescent source while simultaneously eliminating unsightly socket shadows and the hassle of luminaire maintenance. Available in 2x2, 2x4, 1x4, and multiple lensing styles, the Class RZ family is ideal for a large range of architectural interiors including offices, schools, and hospitals.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

Low profile 3-3/4" housing constructed of die-formed 20 gauge cold rolled steel with integral 20 gauge gear tray. High reflectance sheet metal internal reflectors can be removed for easy access to driver compartment from below ceiling plenum. Fixture weight: 22.5 lbs.

Shielding

High light transmission curved frosted prismatic acrylic lens with UV inhibitors minimizes lamp image and LED pixilation. Perf patterns and nano-prismatic are available as additional aesthetic options. Perf available in round or rectangular pattern via internal frosted acrylic inlay and smooth clear acrylic lens. Nano-prismatic inlay is a high light transmission material offering

additional brightness mitigation with smooth acrylic lens. Lenses secured to housing via injection molded inserts for easy access to light engine.

Finish

Fixture housing is high reflectance white using electrostatically applied polyester powder coat paint for durability and luminous uniformity.

Electrical

Long-life LED system coupled with electrical driver to deliver optimal performance. Projected life is 60,000 hours at 87% lumen output. LEDs are available in 3000K, 3500K or 4000K with a typical CRI \leq 85. Standard drivers are 0-10 volt continuous dimming that work with any 0-10V control/dimmer. Or, specify Digital Addressable Lighting Interface (DALI)

drivers; for use with Fifth Light controls. See ordering information for details.

Mounting

Universal flange design works with most lay-in ceiling types. Integral pry-out tabs secure luminaire to ceiling grid from above. Fixture offers tie-in locations for tie-wire on all corners. Consult local code for appropriate tie-wire recommendations. See Technical Notes section for drywall frame kit and surface mount kit options.

Compliance

Components are UL recognized and luminaires are cULus listed for 25°C ambient environments, damp location listed, and RoHS compliant.

Warranty

Five-year warranty.

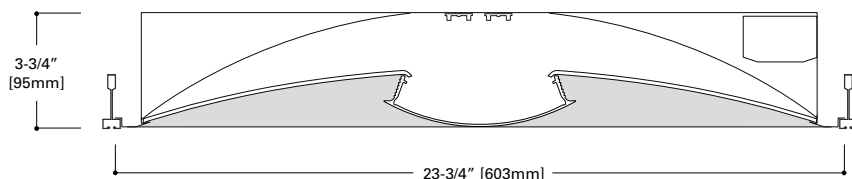


CLASS R3 Curved Lens

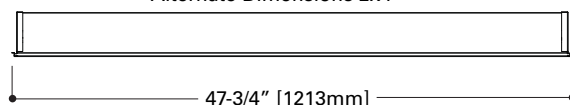
LED

2' x 4' Recessed
3-3/4" Depth

CERTIFICATION DATA
cULus - 1598
Damp Location Listed
IC Rated
LM79/LM80 Compliant
ROHS Compliant



Alternate Dimensions 2x4



ORDERING INFORMATION

Sample Number: R3-WL-3L35-LD5-UNV-24-T1-STD-EL14W-AR

Series ⁽¹⁾	Shielding	Light Level (2x4, WL, 3500K delivered lumens)	Color Temperature	LED Revision	Input Voltage
R3 = Class R3 LED Recessed Series	WL = Linear Prismatic Lens WD = Round Perf Inlay WG = Rectangular Perf Inlay WN = Nano Prism Lens	1 = Light Level 1 (3083 Lms, 23W) 2 = Light Level 2 (3998 Lms, 31W) 3 = Light Level 3 (5098 Lms, 40W) 4 = Light Level 4 (6044 Lms, 50W) 5 = Light Level 5 (6848 Lms, 59W)	L30 = LED 3000K L35 = LED 3500K L40 = LED 4000K	LD5 = LED 5.0	UNV = Universal (120V-277V) 347 = 347V ⁽²⁾
Size	Ceiling Type	Driver Type	Emergency (Optional)	Options	
24 = 2' x 4'	T1 = 1" T-Bar, Slot Grid, and 9/16" Tegular ⁽³⁾ T9 = 9/16" T-Bar (Flush)	STD = Standard 0-10V (10%-100%) HCD = 0-10V (1%-100%) ⁽⁶⁾ STP = Step Dimming (Bi-Level, 50%) ⁽⁵⁾ 5LT = Fifth Light DALI (10%-100%) ⁽⁴⁾ LH = Lutron HiLume 1% EcoSystems L5 = Lutron 5-Series 5% EcoSystems	EL14W = 14-watt 120V-277V Integral EM Battery Pack ⁽⁷⁾ GTD2 = Bodine Emergency Transfer Switch	AR = Air Return CP = Chicago Plenum W6 = 6' Whip Flex W12 = 12' Whip Flex	

See page 2 for technical notes

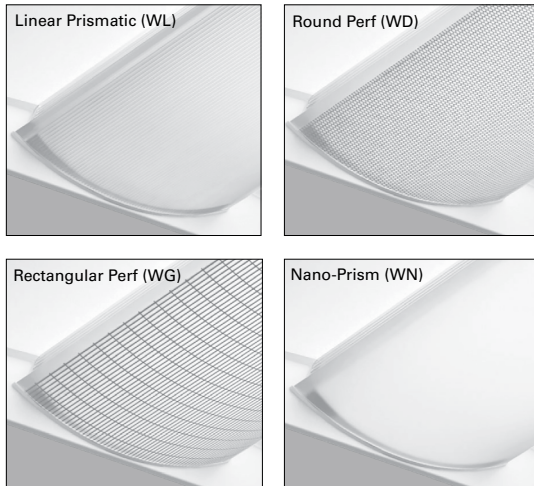
TECHNICAL NOTES

1. Dimming wires come standard in all LED fixtures but can be capped in the field for switched operation.
2. Integral 347V electronic driver with STD 0-10V option only. Factory supplied remote transformer for all other driver/dimming options.
3. "T1" ceiling type is compatible with Metalux DF Series Drywall Frame Kits and Metalux Universal Surface Mount Kits, ordered separately from Metalux. For 2x4 drywall frame kit, order part #DF-24-W. For 2x4 surface mount kit, order part #SK-24-WS. Refer to the surface mount kit specification sheet for more information.
4. Must be used in conjunction with a DALI control system. For a complete listing of Fifth Light Technology products and other solutions from Eaton Controls, visit www.eaton.com/lightingsystems
5. 2x4: STP driver not available in Light Levels 1.
6. 2x4: Two HCD drivers required for Light Level 5.
7. Unless noted otherwise, integral emergency battery pack is 14W maximum, 90 minute output. A test switch/indicator button can be tested safely from the ground using a laser pointer, while the patented EZ Key prevents accidental discharge of the battery during construction. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 14=1400 lumens)

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
25°C	>80%	94,000

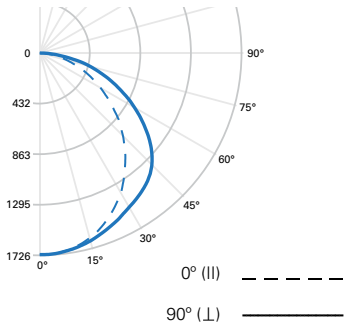
INLAY OPTIONS



ENERGY AND PERFORMANCE DATA

2x4 – R3 Light Level Outputs and Distributions (3500K)				
Series	Light Level	Delivered Lumens	Wattage	Efficacy (LPW)
R3-WL	1	3083	22.9	135
	2	3998	30.5	131
	3	5098	40.4	126
	4	6044	49.6	122
	5	6848	58.6	117
R3-WD	1	2881	22.9	126
	2	3736	30.5	123
	3	4765	40.4	118
	4	5649	49.6	114
	5	6400	58.6	109
R3-WG	1	2893	22.9	126
	2	3751	30.5	123
	3	4784	40.4	118
	4	5672	49.6	114
	5	6426	58.6	110
R3-WN	1	2996	22.9	131
	2	3885	30.5	127
	3	4954	40.4	123
	4	5873	49.6	118
	5	6654	58.6	114

PHOTOMETRICS



FILE NAME: R3-WL-3L35-LD5-UNV-24.IES

LAMP: (LD5) LED 3500K

LUMENS: 5098 Lm

WATTS: 40.4 W

EFFICACY: 126 Lm/W

TEST NO.: P220199

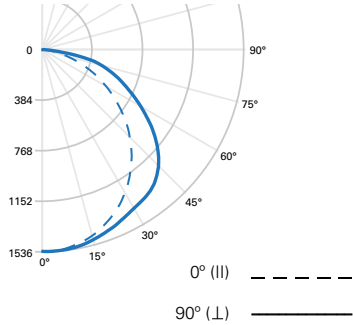
SC: (II) 1.2, (L) 1.33

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	1333	26.1
0°-40°	2192	43
0°-60°	3944	77.4
0°-90°	5098	100

LUMINANCE DATA (cd/m²)

Vertical Angle	0°	45°	90°
45°	1920	2267	2582
55°	1734	2260	2569
65°	1531	2144	2461
75°	1272	2009	2351
85°	963	1772	1954



FILE NAME: R3-WG-3L35-LD5-UNV-24.IES

LAMP: (LD5) LED 3500K

LUMENS: 4784 Lm

WATTS: 40.4 W

EFFICACY: 118 Lm/W

TEST NO.: P220213

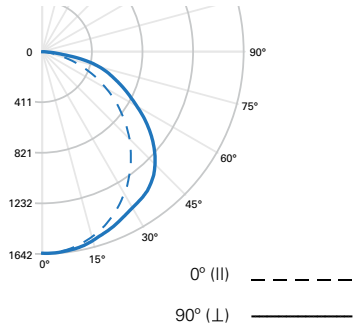
SC: (II) 1.23, (L) 1.4

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	1208	25.2
0°-40°	2009	42.0
0°-60°	3686	77.1
0°-90°	4784	100

LUMINANCE DATA (cd/m²)

Vertical Angle	0°	45°	90°
45°	1846	2161	2457
55°	1718	2165	2462
65°	1494	2036	2439
75°	1132	1860	2632
85°	625	1172	1459



FILE NAME: R3-WN-3L35-LD5-UNV-24.IES

LAMP: (LD5) LED 3500IK

LUMENS: 4954 Lm

WATTS: 40.4 W

EFFICACY: 123 Lm/W

TEST NO.: P220241

SC: (II) 1.22, (L) 1.36

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	1281	25.9
0°-40°	2118	42.8
0°-60°	3842	77.6
0°-90°	4954	100

LUMINANCE DATA (cd/m²)

Vertical Angle	0°	45°	90°
45°	1943	2229	2492
55°	1785	2209	2490
65°	1569	2058	2434
75°	1167	1869	2597
85°	599	1303	1589

Note: Round Perf (WD) photometric performance is similar to Rectangular Perf (WG). Reference IES-format photometry online for more detail.