Corelite

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: 14.0 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 ≤ 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.
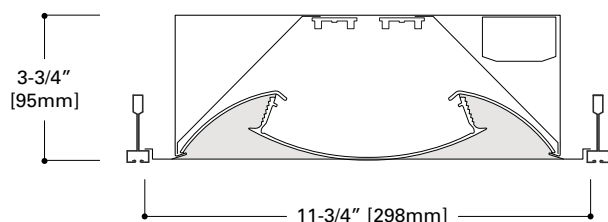
Warranty
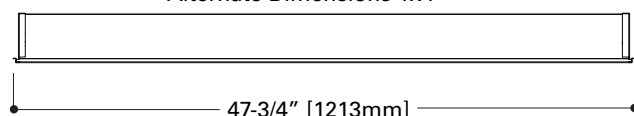Five-year warranty.

CLASS R3
Curved Lens

LED

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

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

powered by fifthlight technology

3-3/4" [95mm]

11-3/4" [298mm]

Alternate Dimensions 1x4

47-3/4" [1213mm]

ORDERING INFORMATION

Sample Number: R3-WL-3L35-LD5-UNV-14-T1-STD-EL14W-AR

Series [1]	Optics/Shielding	Light Level (1x4, 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 (2030 Lms, 16W) **2** = Light Level 2 (3009 Lms, 24W) **3** = Light Level 3 (4071 Lms, 33W) **4** = Light Level 4 (5077 Lms, 43W) **5** = Light Level 5 (6031 Lms, 54W)	**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
14 = 1' 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%) **STP** = Step Dimming (Bi-Level, 50%) [5] **5LT** = Fifth Light DALI (1%-100%) [4] **LH** = Lutron HiLume 1% EcoSystems [6]	**EL14W** = 14-watt 120V-277V Integral EM Battery Pack [7] **GTD2** = Emergency Transfer Switch	**AR** = Air Return **CP** = Chicago Plenum **W6** = 6' Whip Flex **W12** = 12' Whip Flex

See page 2 for technical notes

F·T·N
Powering Business Worldwide

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
25°C	>87%	148,000

INLAY OPTIONS

Linear Prismatic (WL)

Round Perf (WD)

Rectangular Perf (WG)

Nano-Prism (WN)
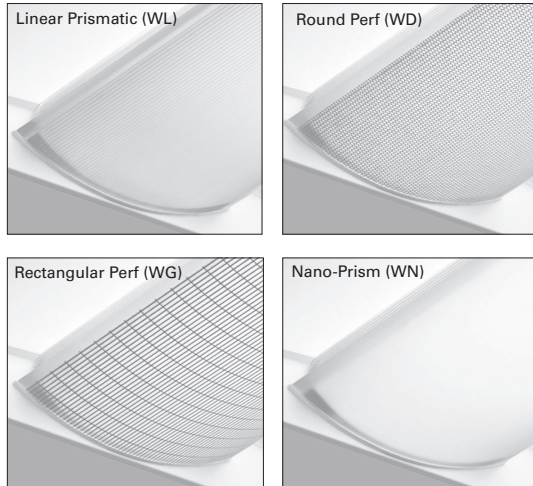
ENERGY AND PERFORMANCE DATA

1x4 – R3 Light Level Outputs and Distributions (3500K)				
Series	Light Level	Delivered Lumens	Wattage	Efficacy (LPW)
R3-WL	1	2030	15.8	129
	2	3009	23.8	126
	3	4071	33.3	122
	4	5077	43.3	117
	5	6031	54.0	112
R3-WD	1	1837	15.8	116
	2	2722	23.8	114
	3	3683	33.3	111
	4	4593	43.3	106
	5	5456	54.0	101
R3-WG	1	1849	15.8	117
	2	2740	23.8	115
	3	3707	33.3	111
	4	4623	43.3	107
	5	5492	54.0	102
R3-WN	1	1955	15.8	124
	2	2897	23.8	122
	3	3919	33.3	118
	4	4888	43.3	113
	5	5806	54.0	108

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 1x4 drywall frame kit, order part **#DF-14-W**. For 1x4 surface mount kit, order part **#SK-14-WT**. 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. 1x4: STP driver not available in Light Levels 1 and 2.
6. 1x4: LH/L5 driver not available in Light Level 1.
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)

PHOTOMETRICS

R3-WL-3L35-LD5-UNV-14.IES
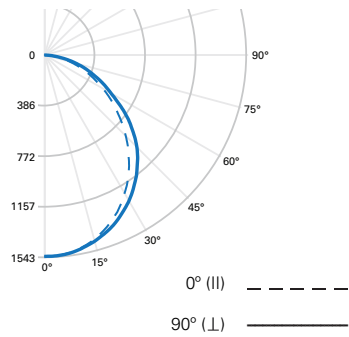
FILE NAME: R3-WL-3L35-LD5-UNV-14.IES

LAMP: (LD5) LED 3500K

LUMENS: 4071 Lm

WATTS: 33.3 W

EFFICACY: 122 Lm/W

TEST NO.: P219951

SC: (II) 1.19, (⊥) 1.25

0° (II) — — —
90° (⊥) ———

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	1179	29.0
0°-40°	1909	46.9
0°-60°	3277	80.5
0°-90°	4071	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	3365	3643	3820
55°	3006	3415	3473
65°	2621	3047	3060
75°	2193	2699	2699
85°	1627	2066	1815

R3-WG-3L35-LD5-UNV-14.IES
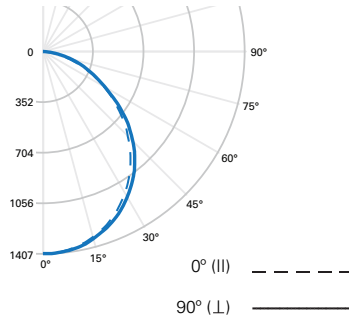
FILE NAME: R3-WG-3L35-LD5-UNV-14.IES

LAMP: (LD5) LED 3500K

LUMENS: 3707 Lm

WATTS: 33.3 W

EFFICACY: 111 Lm/W

TEST NO.: P219965

SC: (II) 1.21, (⊥) 1.25

0° (II) — — —
90° (⊥) ———

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	1081	29.1
0°-40°	1755	47.3
0°-60°	3023	81.5
0°-90°	3707	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	3234	3380	3457
55°	2950	3149	3082
65°	2531	2699	2634
75°	1834	2214	2235
85°	1000	1377	1254

R3-WN-3L35-LD5-UNV-14.IES
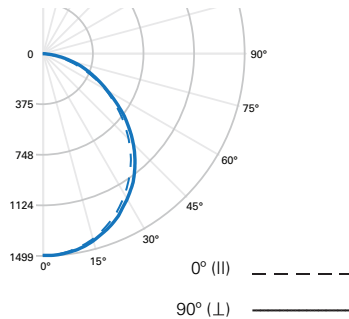
FILE NAME: R3-WN-3L35-LD5-UNV-14.IES

LAMP: (LD5) LED 3500K

LUMENS: 3919 Lm

WATTS: 33.3 W

EFFICACY: 118 Lm/W

TEST NO.: P219993

SC: (II) 1.21, (⊥) 1.24

0° (II) — — —
90° (⊥) ———

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	1149	29.3
0°-40°	1863	47.5
0°-60°	3197	81.6
0°-90°	3919	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	3434	3573	3620
55°	3092	3311	3244
65°	2660	2840	2815
75°	1918	2361	2383
85°	939	1439	1254

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