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: 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 ≤ 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.
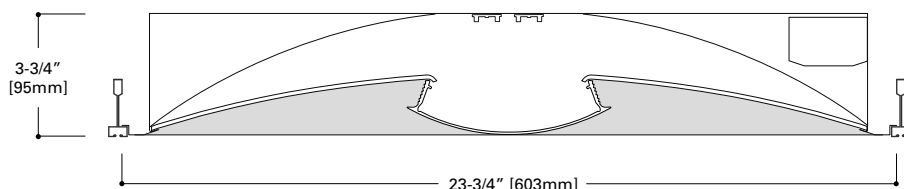
Warranty
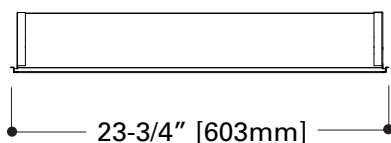Five-year warranty.

CLASS R3
Curved Lens

LED

2' x 2' 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]

23-3/4" [603mm]

Alternate Dimensions 2x2

23-3/4" [603mm]

ORDERING INFORMATION

Sample Number: R3-WL-3L35-LD5-UNV-22-T1-STD-EL14W-AR

Series [1]	Shielding	Light Level (2x2, 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 (2059 Lms, 16W) **2** = Light Level 2 (2559 Lms, 21W) **3** = Light Level 3 (3065 Lms, 26W) **4** = Light Level 4 (3544 Lms, 31W) **5** = Light Level 5 (3980 Lms, 36W) **6** = Light Level 6 (4507 Lms, 40W)	**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
22 = 2' x 2'	**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

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 2x2 drywall frame kit, order part **#DF-22-W**. For 2x2 surface mount kit, order part **#SK-22-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. 2x2: STP driver not available in Light Levels 1, 2, 3, and 4.
6. 2x2: 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)

LUMEN MAINTENANCE

| Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
25°C	>87%	159,000

INLAY OPTIONS

Linear Prismatic (WL)

Round Perf (WD)

Rectangular Perf (WG)

Nano-Prism (WN)
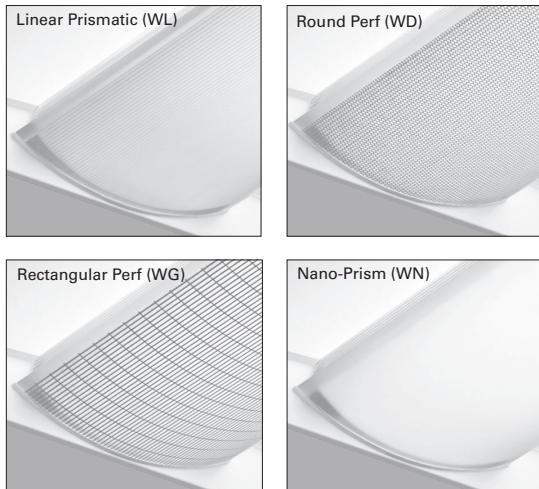
ENERGY AND PERFORMANCE DATA

2x2 – R3 Light Level Outputs and Distributions (3500K)				
Series	Light Level	Delivered Lumens	Wattage	Efficacy (LPW)
R3-WL	1	2059	16.4	126
	2	2559	20.8	123
	3	3065	25.6	120
	4	3544	30.5	116
	5	3980	35.6	112
	6	4507	39.9	113
R3-WD	1	1909	16.4	116
	2	2373	20.8	114
	3	2842	25.6	111
	4	3287	30.5	108
	5	3691	35.6	104
	6	4180	39.9	105
R3-WG	1	1926	16.4	117
	2	2393	20.8	115
	3	2866	25.6	112
	4	3315	30.5	109
	5	3722	35.6	105
	6	4216	39.9	106
R3-WN	1	2038	16.4	124
	2	2533	20.8	122
	3	3034	25.6	119
	4	3508	30.5	115
	5	3940	35.6	111
	6	4461	39.9	112

PHOTOMETRICS
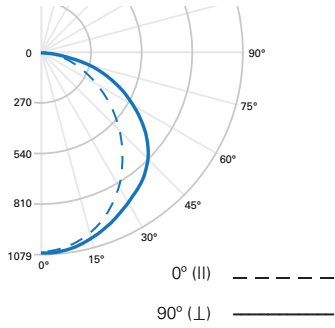
FILE NAME: R3-WL-3L35-LD5-UNV-22.IES

LAMP: (LD5) LED 3500K

LUMENS: 3065 Lm

WATTS: 25.6 W

EFFICACY: 120 Lm/W

TEST NO.: P220064

SC: (ΙΙ) 1.17, (⊥) 1.3

0° (ΙΙ) – – – –
90° (⊥) ———

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	824	26.9
0°-40°	1343	43.8
0°-60°	2384	77.8
0°-90°	3065	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	2289	2682	3105
55°	2033	2641	3140
65°	1748	2494	3112
75°	1475	2357	3014
85°	1192	1809	2189
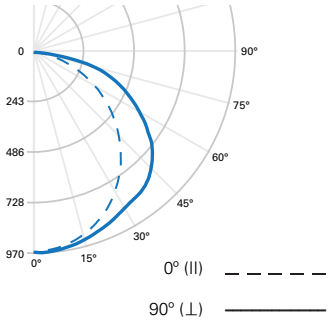
FILE NAME: R3-WG-3L35-LD5-UNV-22.IESI

LAMP: (LD5) LED 3500K

LUMENS: 2866 Lm

WATTS: 25.6 W

EFFICACY: 112 Lm/W

TEST NO.: P220081

SC: (ΙΙ) 1.2, (⊥) 1.33

0° (ΙΙ) – – – –
90° (⊥) ———

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	748	26.1
0°-40°	1230	42.9
0°-60°	2217	77.3
0°-90°	2866	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	2177	2517	2905
55°	1961	2503	3003
65°	1679	2366	3063
75°	1299	2213	3271
85°	763	1334	1476
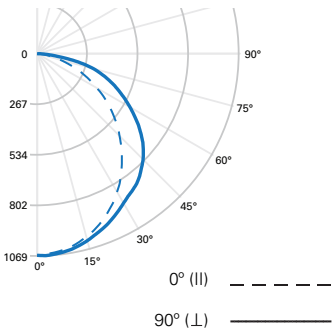
FILE NAME: R3-WN-3L35-LD5-UNV-22.IES

LAMP: (LD5) LED 3500K

LUMENS: 3034 Lm

WATTS: 25.6 W

EFFICACY: 119 Lm/W

TEST NO.: P220115

SC: (ΙΙ) 1.18, (⊥) 1.28

0° (ΙΙ) – – – –
90° (⊥) ———

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	816	26.9
0°-40°	1332	43.9
0°-60°	2367	78
0°-90°	3034	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	2347	2659	3016
55°	2127	2604	3060
65°	1817	2435	3083
75°	1331	2228	3239
85°	713	1476	1856

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