

DESCRIPTION

Experience refined architectural performance at a great value. The completely re-designed Corelite R2X LED comes with everything you would want for a long-term sustainable lighting system. An expansion on the Class R2 Series, the Class R2X LED continues to provide low-glare ambient illumination yet dramatically reduces energy consumption and maintenance costs. The ultra-shallow profile provides peace of mind for plenum coordination while maintaining an architecturally pleasing environment with the low glare high performance opal lens. Available in 2x2, 2x4 and 1x4 fixture sizes, the R2X LED is well suited for any architectural space including open offices, schools, and corridors.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

Low profile 2-7/8" housing constructed of die-formed 20 gauge cold rolled steel with integral 20 gauge gear tray. Removable pan assembly from below the plenum allows for a future proof solution. High reflectance white powder coat painted reflector system. Fixture weight: 17.0 lbs.

Finish

Fixture housing and back reflector are 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 80% 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. DesignLights Consortium® Qualified and classified for DLC Standard, refer to www.designlights.org for details.

Warranty

Five-year warranty.

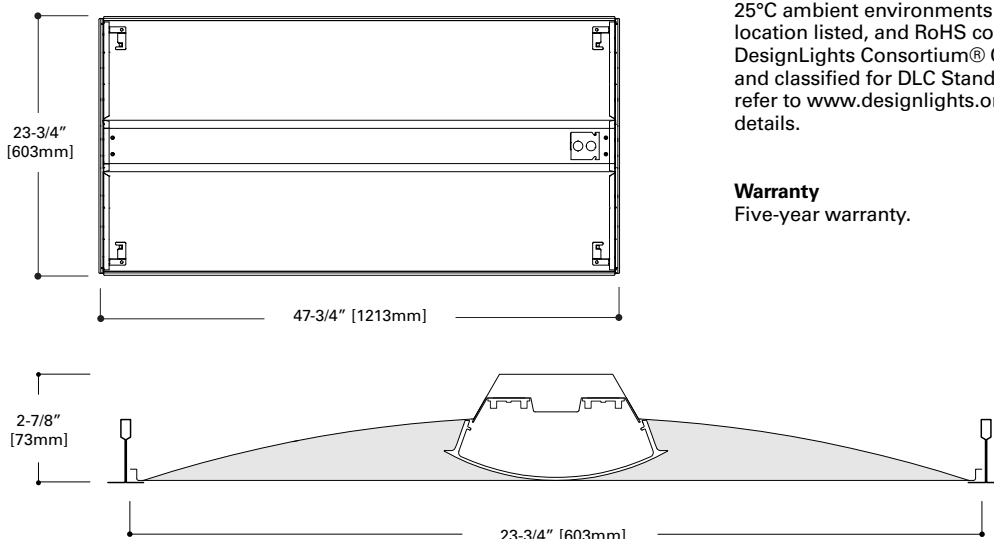


CLASS R2X Opal Lens

LED

2' x 4' Recessed
2-7/8" Depth

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



ORDERING INFORMATION

Sample Number: R2X-WO-3L35-LD5-UNV-24-T1-STD-EL14W-AR

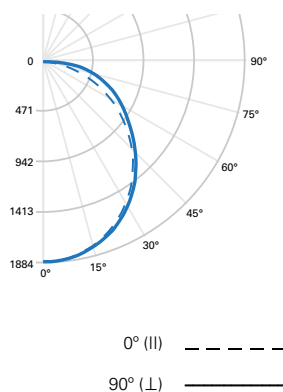
Series ⁽¹⁾ (10)		Shielding	Light Level (2x4, 3500K delivered lumens)	Color Temperature	LED Revision	Input Voltage
R2X = Class R2X LED Recessed Series		WO = Opal Lens	1 = Light Level 1 (3294 Lms, 25W) 2 = Light Level 2 (4392 Lms, 35W) 3 = Light Level 3 (5463 Lms, 45W) 4 = Light Level 4 (6719 Lms, 57W) 5 = Light Level 5 (7740 Lms, 71W)	L30 = LED 3000K L35 = LED 3500K L40 = LED 4000K	LD5 = LED 5.0	UNV = Universal (120V-277V) 347 = 347V ⁽²⁾ (7)
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 ⁽⁸⁾ GTR2 = Bodine Generator Transfer Relay ⁽⁹⁾	AR = Air Return AM = Anti-Microbial Coating CP = Chicago Plenum LG = Lens Gasketing 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 Cooper Lighting Solutions, visit www.cooperlighting.com
5. 2x4: STP driver not available in Light Level 1.
6. 2x4: Two HCD drivers required for Light Level 5.
7. 2x4: Two 347V 0-10V drivers required for Light Level 5.
8. 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).
9. GTR2 options include 2 relays on fixtures with dimming drivers. Must specify voltage as 120V or 277V when ordering these devices.
10. DesignLights Consortium® Qualified and classified for DLC Standard, refer to www.designlights.org for details.

PHOTOMETRICS



FILE NAME: R2X-WO-3L35-LD5-UNV-24.IES

LAMP: (LD5) LED 3500K

LUMENS: 5463 Lm

WATTS: 45.4 W

EFFICACY: 120 Lm/W

TEST NO.: P217911

SC: (II) 1.22, (I) 1.25

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	1451	26.6
0°-40°	2363	43.3
0°-60°	4144	75.9
0°-90°	5463	100

LUMINANCE DATA (cd/m²)

Vertical Angle	0°	45°	90°
45°	2256	2313	2339
55°	2113	2218	2295
65°	1938	2186	2424
75°	1612	2345	2751
85°	973	2868	3558

LUMEN MAINTENANCE

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

ENERGY AND PERFORMANCE DATA

2x4 – R2X Light Level Outputs and Distributions (3500K)				
Series	Light Level	Delivered Lumens	Wattage	Efficacy (LPW)
R2X-WO	1	3294	25.1	131
	2	4392	34.9	126
	3	5463	45.4	120
	4	6719	57.1	118
	5	7740	71.3	109