Corelite

Class R6 LED

6" x 2'/4' Recessed
3-¾" Depth

Typical Applications

Office • Education • Healthcare • Hospitality • Retail • Industrial • Manufacturing • Outdoor Roadway • Outdoor Area/Site • Code-Compliance Areas • Sports Venues • Residential

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Product Certification

UL CERTIFIED SAFETY
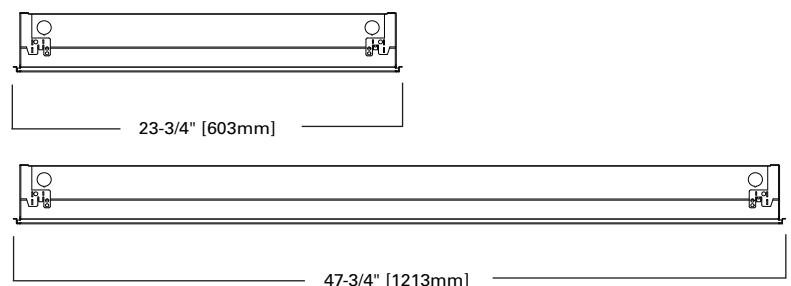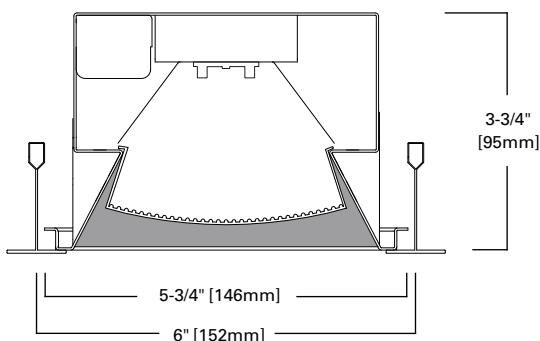RoHS COMPLIANT

Product Features

damp location

Top Product Features

- Narrow aperture compatible with TechZone™
- 3-3/4″ installed depth
- Multiple lumen packages with efficacies up to 135 lumens per watt
- Fully serviceable from below ceiling plenum
- 2 ft. and 4ft. Fixture lengths

Dimensional and Mounting Details

3-3/4"
[95mm]

5-3/4" [146mm]

6" [152mm]

23-3/4" [603mm]

47-3/4" [1213mm]

Order Information

SAMPLE ORDER NUMBER: **R6-WL-30L835-LD5-UNV-4-T1-STD**

Series	Shielding	Lumen Package (Nominal 3500K delivered lumens)	CRI	Color Temperature	LED Revision	Input Voltage
R6=Class R6 LED Recessed	**WL**=Frosted Linear Prismatic	**10L**=1000 lumens (2 ft) **15L**=1500 lumens (2 ft) **20L**=2000 lumens (2 ft / 4 ft) **30L**=3000 lumens (4 ft) **40L**=4000 lumens (4 ft)	**8**=80CRI	**30**=LED 3000K **35**=LED 3500K **40**=LED 4000K	**LD5**=LED 5.0	**UNV**=Universal (120V-277V) **347**=347V
Notes	Notes	Notes Refer to performance table on Page 3 for more detail.	Notes	Notes	Notes	Notes

Size	Ceiling Type	Driver Type	Options
2=6" x 2' **4**=6" x 4'	**T1**=1" T-Bar, Slot Grid, and 9/16" Tegular **T9**=9/16" T-Bar (Flush)	**STD**=Standard 0-10V (1%-100%) **5LT**=Fifth Light DALI (1%-100%) **LH**=Lutron HiLume 1% EcoSystems (LDE1)	**CP**=Chicago Plenum **W6**=6' Whip Flex **W12**=12' Whip Flex
Notes	Notes "T1" ceiling type is compatible with Metalux DF and DFR Series Drywall Frame Kits, ordered separately from Metalux.	Notes Lutron driver options not available in 2ft unit size.	Notes See specification features for flexible metal conduit details.

Product Specifications

Construction
- 3-3/4" housing depth constructed of die-formed, code gauge cold rolled steel
- High reflectance sheet metal internal reflectors
  - Can be removed for easy access to driver compartment

Shielding
- High light transmission curved frosted linear prismatic acrylic lens with UV inhibitors
- Lens can be removed without the use of tools for easy access to light engine

LED and Light Engine
- LED's are available in 3000K, 3500K or 4000K
- Lumen output will be affected - please refer to the lumen adjustment factor table
- Projected lumen maintenance based on TM-21 standards is L87 > 60,000 hours at 25°C ambient conditions

Electrical
- Long-Life LED system coupled with integral electronic drivers (1% standard)
- 120-277V 0-10V dimming drivers
- 347V 0-10V drivers are available
- Dimming wires come standard but can be capped in the field

Controls
- Options compatible with Cooper Lighting's Connected Lighting Systems:
  - Fifth Light DALI driver
- Refer to the Connected Lighting options page and ordering information for more details

Mounting
- Universal flange design works with most lay-in ceiling types including Armstrong Techzone™
- Integral pry-out tabs secure luminaire to ceiling grid from above
- Tie-in locations for tie-wire on all corners
- Consult local code for appropriate tie-wire recommendations

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

Emergency Options
- Integral emergency options not available

Flexible Metal Conduit Options
- Flex options available for 0-10V dimming control, DALI dimming control, emergency and night light functions
  - 72-inch or 144-inch factory-installed and pre-wired to driver

- To luminaire housing ac-cess plate with 90° enclosed FMC connector
- Default flex option is A3/8-4/18GDIM; 3/8" flexible metal conduit with 2-#18 power and ground wires and 2-#18 UL-listed jacketed 0-10V +/- control wires
- Not all options may be combined and installation rating vary by type

Weight
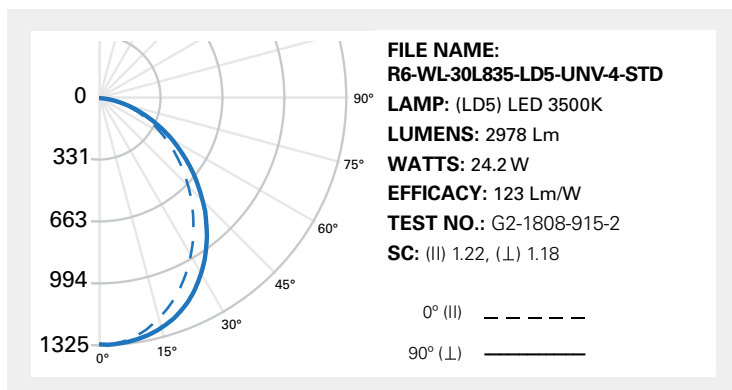- 2ft - 6.0 lbs
- 4ft - 10.0 lbs

Compliance
- Modules are UL recognized components
- IC rated for insulation contact
- cULus listed for damp locations
- RoHS compliant
- Tested to IESNA LM-79 and LM-80
- Stated life per TM21 standards

Warranty
- Five year warranty standard.

Photometric Data

FILE NAME:
R6-WL-30L835-LD5-UNV-4-STD
LAMP: (LD5) LED 3500K
LUMENS: 2978 Lm
WATTS: 24.2 W
EFFICACY: 123 Lm/W
TEST NO.: G2-1808-915-2
SC: (∥) 1.22, (⊥) 1.18

0° (∥) ― ― ―
90° (⊥) ———

Note: Refer to IES files for more product data.

Energy and Performance Data

R6 Light Level Outputs (3500K, 80 CRI)				
Series	Lumen Package	Delivered Lumens per foot	Wattage per foot	Efficacy (LPW)
R6-WL 2 ft	10L	1038	9.2	112
	15L	1489	12.7	117
	20L	2012	18.4	109
R6-WL 4 ft	20L	2075	16.5	126
	30L	2978	24.2	123
	40L	4024	34.7	116

Lumen Adjustment Factors

CCT	80 CRI
3000K	0.960
3500K	1.000
4000K	1.020

Example Calculation:
4 ft / 30L / 3500K / 80 CRI
Lumen Output selected = 2978 lms

3000K / 80 CRI Desired
Lumen Adjustment Factor = 0.960

Adjusted Lumen Output = 2978 lms x 0.960 = 2859 lms

Lumen Maintenance

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