

Project		Catalog #		Type	
Prepared by		Notes		Date	



Corelite

RZL

LED
Suspended
Direct / Semi-Direct

Typical Applications

Office • Education • Healthcare • Hospitality • Retail

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- Product Warranty

Product Certification



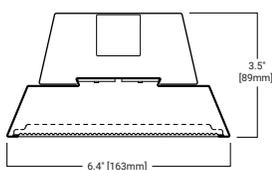
Product Features



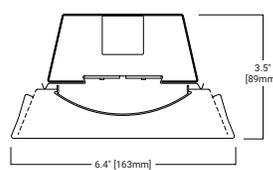
Top Product Features

- Available in 4', 8', 12' and Continuous runs
- High performance efficacy up to 135 lumens per watt
- Five lumen packages (750-2,000 lumens per foot)
- Five unique architectural style variations
- Modern industrial look and feel

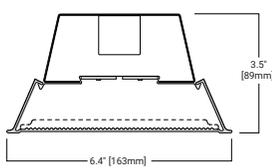
Dimensions and Fixture Lengths



RZL-NB-NL Cross Section



RZL-WF Cross Section



RZL-WB-WL Cross Section



Order Information

SAMPLE ORDER NUMBER: **RZL-NB-50L835-1D-UNV-STD-WAA-ILB12-W-AC48-T1-28**

Series	Shielding/Optics	Lumen Package Nominal per 4' section	CRI	Color Temperature	Circuiting	Specialty Wiring	Input Voltage
RZL=RZL Linear LED	NL=Frosted Linear Prismatic Lens (100% Down) NB=Micro Baffles / Prismatic Lens (100% Down) WL=Luminous Sides, Frosted Linear Prismatic Lens WB=Luminous Sides, Micro Baffles / Prismatic Lens WF=Metal Baffles with Perf Siderails / Smooth Frosted Lens	30L=3,000 Lms (750 lms/ft) 40L=4,000 Lms (1,000 lms/ft) 50L=5,000 Lms (1,250 lms/ft) 65L=6,500 Lms (1,625 lms/ft) 80L=8,000 Lms (2,000 lms/ft)	8=80CRI 9=90CRI	30=LED 3000K 35=LED 3500K 40=LED 4000K	1=1 Circuit	D=None E=Emergency Circuit S=Secondary Circuit N=Emergency + Secondary Circuit	UNV=Universal (120V-277V) 347=347V
		Notes Nominal lumen values baselined on WB version. Refer to performance table on Page 4 for more detail. Consult factory for custom lumen outputs.	Notes Additional lead-time may apply for 930, 935 and 940 configurations.		Notes Refers to wiring in cross section.	Notes Emergency and Secondary circuit section wiring are configured per 4ft section. Secondary circuit not available with integrated sensor options.	Notes Integral 347V driver with STD 0-10V option only. Factory supplied 347V remote transformer for all other driver options.

Driver/Dimming Options	Integrated Sensor	Integral Emergency	Finish	Suspension/ Power Feed	Suspension Length	Ceiling Type	Run Length
STD=Standard 0-10V (1%-100%) SLT=Fifth Light DALI (1%-100%) LH=Lutron HiLume 1% EcoSystems	WAA=WaveLinx Wireless Integrated Sensor WAB=WaveLinx Lite Wireless Integrated Sensor LWIPD1=Enlighted Wireless Integrated Sensor	B06=6-watt, 120V-277V Emergency Battery Pack B10=10-watt, 120V-277V Emergency Battery Pack EPC=LVS Controls EPC UL924 Bypass Relay	W=White S=Silver B=Black CC=Custom Color	AC=Aircraft Cable PP=Rigid Pendant SS=Single Swivel Rigid Pendant	AC 48", 120", 240", or 360" PP/SS 12" - 96" (12" increments)	T1=15/16" T-Bar T9=9/16" T-Bar TS=Slotted T-Bar JB=Junction Box / Structure UM=Universal Ceiling Kit (T1, T9, JB) S=Swivel at Cancopy (=T1, T9, TS or JB)	4=4 ft. 8=8 ft. 12=12 ft. XX=Specify Row Length
	Notes WAA and WAB must be used with "STD" driver. Consult factory for emergency circuit option with integrated sensor option. SWPD1 has been renamed to WAA, but remains the same sensor.	Notes EPC option used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others)		Notes Rigid Pendant options available with "ST" and "JB" ceiling types. Refer to ceiling interface installation instructions for more details. White mounting hardware standard; for black mounting hardware, add "-B" after ceiling type.		Notes Standard row configurations over 12' consist of 8' and 12' luminaires.	

Product Specifications

Construction

- Compact 3.5"x 6.4" profile with a die-formed 20 gauge cold rolled steel upper channel for strength and rigidity combined with a die-formed aluminum lower housing
- Driver accessible from below by removing gear tray assembly

End Caps

- Injection molded polycarbonate
- Mechanically attached with no fasteners

Lengths

- Available in 4-ft, 8-ft, and 12-ft sections
- All sections are modular eliminating the need for starter, joiner and end sections
- Standard row configurations over 12-ft consist of 8-ft and 12-ft luminaires unless otherwise specified

Finish

- Electrostatically applied polyester powder coat paint
- RAL custom colors are available
- Injection molded components are color matched

Mounting

- Aircraft cable mounts on 4'-0", 8'-0" and 12'-0" centers
- Rigid pendant options are available
- All other mounts interface to 1/4"-20 studs
- Refer to installation instructions for various ceiling interface details
- All sections are continuously wired with snap quick connects
- Fixtures can be joined via internal joining brackets for rigid, straight continuous runs

Shielding / Optics

- **NL:** Solid aluminum sides with frosted linear prismatic lay-in flat acrylic lens, 0.125" thick. No uplight.
- **NB:** Solid aluminum sides with high transmission 0.125" thick clear linear prismatic lay-in flat acrylic

lens with white micro baffle inlay to minimize visual glare. No uplight.

- **WB:** Snap-on three-sided high transmission 0.125" thick clear linear prismatic acrylic lens with white micro baffle inlay to minimize visual glare.
- **WL:** Snap-on three-sided frosted linear prismatic acrylic lens, 0.125 inches thick.
- **WF:** Die-formed aluminum baffle assembly (4" blade spacing). Perforated siderail sections are 23% open with 0.0625" stagger hole spacing for side visual brightness. Smooth curved frosted acrylic center lens to eliminate direct view of the LEDs from below. Shielding assembly swings down for access to LEDs.

LED and Light Engine

- LED's are available in 3000K, 3500K or 4000K
- CRI options of either ≥80CRI or ≥90CRI
- Lumen output will be affected - please refer to the lumen adjustment factor table

Integrated Controls

- Cooper Lighting Solutions' Connected Lighting Systems:
 - WaveLinX sensor
 - Enlighted sensor
 - Fifth Light DALI driver
- Refer to the Connected Lighting options page and ordering information for more details

Emergency Options

- Optional 120V-277V integral emergency battery pack is 12W maximum, 90 minute output, and powers a 4-foot section
- Test switch/indicator button located on the endcap or joiner cover
- 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 12 = 1200 lumens).
- Emergency section wiring and UL 924 emergency/

generator transfer options available - consult factory for details

Electrical

- Long-Life LED system coupled with integral electronic drivers
- Standard with 120-277V 0-10V dimming drivers (1% standard)
- 347V 0-10V drivers are available
- Dimming wires come standard but can be capped in the field for standard switched operation
- A single power feed drop supplied as standard

Lumen Maintenance

- Projected lumen maintenance based on TM-21 standards is L85 > 60,000 hours at 25°C ambient conditions

Weight

- 4.0 - 4.5 lbs. per foot

Compliance

- cULus listed for damp locations, 25°C ambient environments
- RoHS compliant
- DLC Standard and DLC Premium
- Tested to IESNA LM-79 and LM-80
- Stated life per TM21 standards
- Can be used for State of California Title 24 high efficacy luminaire
- DesignLights Consortium® Qualified and classified for DLC Standard, refer to www.designlights.org for details

Warranty

- Five year warranty standard. www.cooperlighting.com/legal

Shielding Options

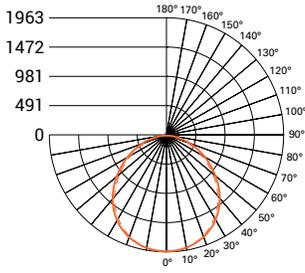


Joining

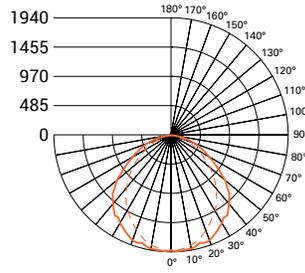
Fixtures are seamlessly connected together with an internal joining sleeve that provides rigidity and durability for long product runs. Simply attach the joining sleeve on one side, slide the next fixture over the joining sleeve and mechanical fasten with two screws on each side. Decorative cover plate snaps over joint to conceal all hardware.

Photometric Data

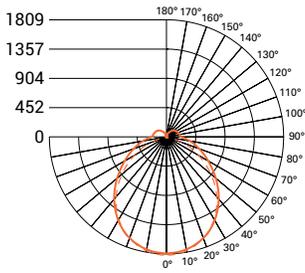
[View IES files](#)



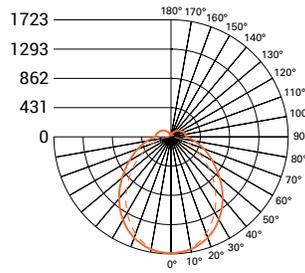
FILE NAME:
RZL-NL-50L835-UNV-4.IES
CCT: (LD4) LED 3500K
LUMENS: 5219 Lm
WATTS: 40.9 W
EFFICACY: 128 Lm/W
TEST NO.: P189015
100% DOWN



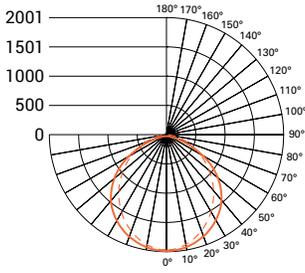
FILE NAME:
RZL-NB-50L835-UNV-4.IES
CCT: (LD4) LED 3500K
LUMENS: 4816 Lm
WATTS: 40.9 W
EFFICACY: 118 Lm/W
TEST NO.: P189000
100% DOWN



FILE NAME:
RZL-WL-50L835-UNV-4.IES
CCT: (LD4) LED 3500K
LUMENS: 5512 Lm
WATTS: 40.9 W
EFFICACY: 135 Lm/W
TEST NO.: P189045
10% Up / 90% DOWN



FILE NAME:
RZL-WB-50L835-UNV-4.IES
CCT: (LD4) LED 3500K
LUMENS: 5043 Lm
WATTS: 40.9 W
EFFICACY: 123 Lm/W
TEST NO.: P189030
12% Up / 88% DOWN



FILE NAME:
RZL-WF-50L835-UNV-4.IES
CCT: (LD4) LED 3500K
LUMENS: 5108 Lm
WATTS: 40.9 W
EFFICACY: 125 Lm/W
TEST NO.: P189060
100% DOWN



Note: Refer to IES files for more product data.

Energy and Performance Data

RZL LED Performance (3500K/80CRI)						
Series/ Distribution	Lumen Package	Delivered Lumens		Wattage		Efficacy LPW
		4FT	Per FT	4FT	Per FT	
RZL-NL	30L	3111	778	25	6.2	126
	40L	4123	1031	35	8.7	119
	50L	5219	1305	41	10.2	128
	65L	6807	1702	57	14.1	120
	80L	8359	2090	75	18.7	112
RZL-NB	30L	2871	718	25	6.2	116
	40L	3805	951	35	8.7	110
	50L	4816	1204	41	10.2	118
	65L	6282	1571	57	14.1	111
	80L	7714	1929	75	18.7	103
RZL-WL	30L	3286	822	25	6.2	133
	40L	4355	1089	35	8.7	125
	50L	5512	1378	41	10.2	135
	65L	7190	1798	57	14.1	127
	80L	8829	2207	75	18.7	118
RZL-WB	30L	3007	752	25	6.2	121
	40L	3985	996	35	8.7	115
	50L	5043	1261	41	10.2	123
	65L	6579	1645	57	14.1	116
	80L	8078	2020	75	18.7	108
RZL-WF	30L	3045	761	25	6.2	123
	40L	4036	1009	35	8.7	116
	50L	5108	1277	41	10.2	125
	65L	6662	1666	57	14.1	118
	80L	8181	2045	75	18.7	109

Lumen Adjustment Factors

CCT	80 CRI	90 CRI
3000K	0.967	0.830
3500K	1.000	0.861
4000K	1.024	0.883

Example Calculation:

RZL-NB / 40L / 3500K / 80 CRI

Lumen Output selected = 951 lms/ft

3500K / 90 CRI Desired

Lumen Adjustment Factor = 0.861

Adjusted Lumen Output = 951 lms/ft x 0.861 = 819 lms/ft

Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
25°C	>85%	131,000

Color Data (3500K)

		80CRI
TM-30-15	R _f	82.6
	R _g	94.9
CRI/CIE	R _a	83.6
	R _g	25.0

Control Systems

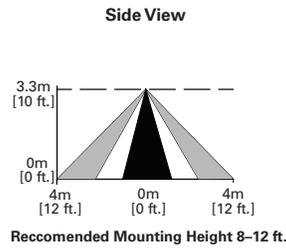
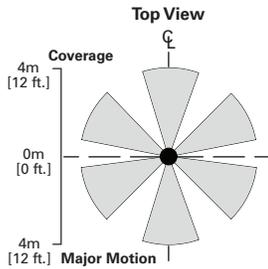
- WaveLinx Wireless
- WaveLinx Wired
- WaveLinx Lite
- Enlighted
- iLumin Plus
- VividTune



Connected Systems
[CLICK HERE](#)

The RZL with Integrated Sensor technology provides automatic energy savings without sacrificing performance. The RZL delivers superior lighting with integrated occupancy and daylighting controls. For standalone and controlled applications, the WaveLinx Lite integral sensor provides out-of-the-box functionality with no gateways required and factory startup is not needed. When more connectivity is required, the WaveLinx Wireless sensor meets modern code and utility requirements, delivers energy and cost savings, while enabling buildings to become smart buildings. The WaveLinx Wireless Connected Lighting System combined with Trellix provides an open IoT platform and infrastructure that connects intelligent sensors leveraging the real-estate of the physical light fixture to solve higher complexity problems to deliver actionable insights through the aggregation of valuable data.

For additional information integrated sensors and connected lighting, please visit [Cooper Lighting Solutions' Connected Lighting Website](#).



Sensor Intergration

Integrated sensors are located in the joint of 8' and 12' units and in the endcap of 4' units for individual and continuous runs. Each unit can be individually controllable or grouped together with the integrated sensors.

Systems comparison chart

Cooper Lighting Solutions provides many lighting system solutions designed to satisfy code requirements and meet the unique needs of any project.



Standalone



Controlled
WaveLinx Lite



Connected
WaveLinx Wireless



Enterprise
Trellix

Occupancy	Yes	Yes	Yes	Yes
Daylighting	Yes	Yes	Yes	Yes
Gateways	-	-	1 WAC	300 WACs
Devices	-	50 per Area (1400 per site)	150 per WAC	45,000 per Core Enterprise
Software	-	WaveLinx Lite Mobile App	WaveLinx Mobile App	Trellix Core
Areas	-	28 per Site	16 per WAC	up to 4,800
Zones	-	16 per Area	16 per Area	up to 76,800
Scheduling	-	-	Local	Global
VividTune™	-	-	Yes	Yes
Plug-Load Control	-	-	Yes	Yes
Integration	-	-	-	BACnet, API
Dashboards	-	-	-	Energy, Occupancy
Configuration	-	Installer	Technician	Technician / IT

SCALABILITY

