Project		Catalog #		Type	
Prepared by		**Notes**		**Date**	

Corelite

RZL-NN

LED
Suspended
Direct

Typical Applications

Office • Education • Healthcare • Hospitality • Retail

🔗 Interactive Menu

- Order Information page 2
- Product Specifications page 2
- Photometric Data page 3
- Energy and Performance Data page 3
- Control Systems page 4
- Product Warranty

Product Certification

UL CERTIFIED SAFETY
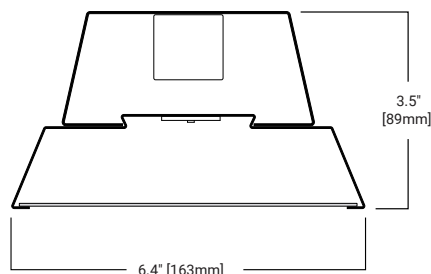
Efficiency Standards **T24** California Title 24 Non-Residential Compliant

RoHS COMPLIANT

Product Features

powered by **fifthlight** technology

damp location

Top Product Features

- Available in 4', 8', 12' and Continuous runs
- High performance efficacy up to 128 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

3.5" [89mm]

6.4" [163mm]

48" [1219mm]

96" [2438mm]

144" [3658mm]

COOPER Lighting Solutions

Order Information

SAMPLE ORDER NUMBER: **RZL-NN-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	NN=Frosted Smooth Lens (100% Down)	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 See additional RZL specification sheet for other shielding types.	**Notes** Nominal lumen values baselined on WB version. Refer to performance table on Page 3 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%) 5LT=Fifth Light DALI (5%-100%) LH=Lutron HiLume 1% EcoSystems L5=Lutron 5-Series 5% EcoSystems	WAA=WaveLinx Wireless Integrated Sensor WAB=WaveLinx Lite Wireless Integrated Sensor LWIPD1=Enlighted Wireless Integrated Sensor	ILB12=12-watt battery pack, 120V-277V, Iota ILB-SL-CP12	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.			**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
- 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
- **NN:** Solid aluminum sides with high-transmission smooth frosted lay-in flat acrylic lens, 0.125 inches thick.

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 top side of the luminaire
- 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
- 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

Warranty
- Five year warranty standard. www.cooperlighting.com/legal
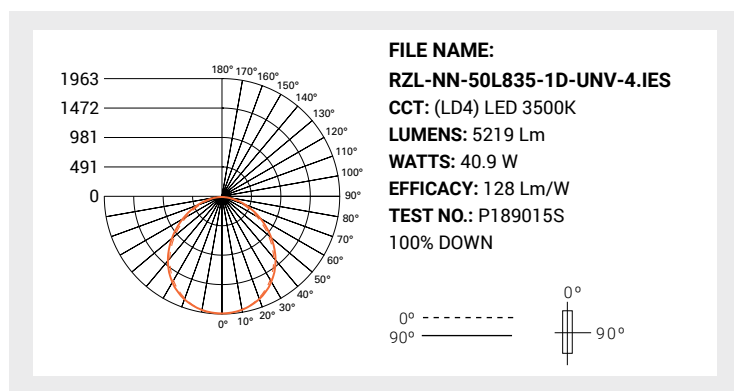
Shielding Options

NN

*See additional RZL specsheets for other 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

1963
1472
981
491
0

FILE NAME:
RZL-NN-50L835-1D-UNV-4.IES
CCT: (LD4) LED 3500K
LUMENS: 5219 Lm
WATTS: 40.9 W
EFFICACY: 128 Lm/W
TEST NO.: P189015S
100% DOWN

Note: Refer to IES files for more product data.

Energy and Performance Data

RZL-NN LED Performance (3500K/80CRI)					
Series/ Distribution	Lumen Package	Delivered Lumens		Wattage		Efficacy LPW
		4FT	Per FT	4FT	Per FT	
RZL-NN	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

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-NN / 40L / 3500K / 80 CRI
Lumen Output selected = 1031 lms/ft

3500K / 90 CRI Desired
Lumen Adjustment Factor = 0.861

Adjusted Lumen Output = 1031 lms/ft x 0.861 = 888 lms/ft

Color Data (3500K)

		80CRI
TM-30-15	R_f	82.6
	R_g	94.9
CRI/CIE	R_a	83.6
	R_9	25.0

Lumen Maintenance

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

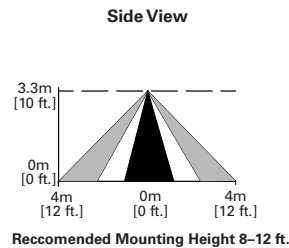 COOPER Lighting Solutions
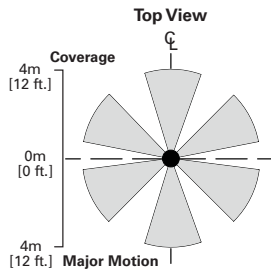
🔗 Control Systems

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

Connected Systems
CLICK HERE

The RZL-NN with Integrated Sensor technology provides automatic energy savings without sacrificing performance. The RZL-NN 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.

Top View

Coverage

4m [12 ft.]

0m [0 ft.]

4m [12 ft.] **Major Motion**

Side View

3.3m [10 ft.]

0m [0 ft.]

4m [12 ft.]   0m [0 ft.]   4m [12 ft.]

Reccomended Mounting Height 8–12 ft.

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

devices → areas → floors → buildings

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