

FEATURES & SPECIFICATIONS

INTENDED USE — The RTLED combines digital LED lighting and controls technologies with patented high-performance optical design to offer the most advanced luminaire for general-ambient lighting applications. High-efficacy light engine delivers long life and excellent color, ensuring a superior quality lighting installation that is highly efficient and sustainable.

CONSTRUCTION — Rugged, one-piece cold-rolled steel reflector assembly with embossed facets. Coated polyester powder-paint after fabrication.

Rigid structure with ballast box and end plates. End plates include integral T-bar clips.

Impact-modified acrylic prismatic refractor with polymer light-diffusing film.

Luminaires may be mounted end-to-end and continuously wired.

OPTICS — Volumetric illumination is delivered by creating an optimal mix of light to walls, partitions, vertical and horizontal work surfaces — rendering the interior space, objects and occupants in a more balanced, complementary luminous environment.

Light distribution is carefully controlled at high angles, providing just enough luminous flux to create the volumetric effect.

Linear faceted reflector cavity softens and distributes light into the space while minimizing luminous contrast between the fixture and ceiling.

Regressed two-piece refractor system obscures and integrates individual LED images and uniformly washes the reflector cavity with light.

Sloped end plates provide a smooth, luminous transition between fixture and ceiling while enhancing the perception of fixture depth.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. RTLED is rated to deliver L80 performance for 50,000 hours.

Standard nLight® embedded controls make each luminaire addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices and the RTLED luminaires using standard Cat-5 cabling. Unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission.

Lumen Management: Unique lumen management system (option N80) provides onboard intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

Bi-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

LED AccuDrive™ driver delivers full-range dimming from 0-10V control signal.

Driver disconnect provided where required to comply with US and Canadian codes.

INSTALLATION — Drivers and internal components accessed via plenum. Driver tray may be removed from fixture during service. Suitable for damp location.

Maintenance: LED boards include plug-in connectors for easy replacement or servicing.

Catalog Number
Notes
Type



Volumetric Lighting

2RTLED

2' X 4'
LED



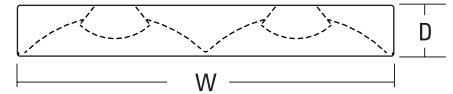
Specifications

Length: 48 (121.9)

Width: 24 (61.0)

Depth: 3-1/8 (7.9)

All dimensions are inches (centimeters).



LISTING — CSA Certified to meet U.S. and Canadian standards.

DLC Certified. Tested to LM80 standards.

Protected by one or more of US Patent Nos. 7,229,192; D541,467; D541,468; D544,633; D544,634; D544,992. D544,933 and additional patents pending.

WARRANTY — Five-year warranty coverage of luminaires includes fixture construction, LED light engine, driver and nLight control device. Terms and conditions apply.

Note: Specifications subject to change without notice.

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: 2RTL4 48L D49 LP835 N80

2RTL4		Air function		Lumens	Voltage	Driver	Lamp	Controls		Option
2RTL4	Recessed 2X4 LED	(blank) CAS	No air Center air slots (air removal)	40L ¹ 48L ¹	(blank) MVOLT (120 - 277V) 347 347 ²	D40 40W ^{3,4} D49 49W ^{3,5}	LP835 82 CRI, 3500 Kelvin LP840 82 CRI, 4000 Kelvin LP850 82 CRI, 5000 Kelvin	NX BLD N80 N80EMG N100 N100EMG	Dimming, no nlight Bi-level dimming nLight with 80% (L80) lumen management nLight with 80% (L80) lumen management for use with generator supply EM power nLight without lumen management nLight without lumen management for use with generator supply EM power	EL14L 1400 lumen battery pack

nLight® Control Accessories:

Order as separate catalog number. Visit www.sensorswitch.com/nLight for complete listing of nLight controls.

WallPod stations	Model number	Occupancy sensors	Model number
On/Off	nPODM [color]	Standard range 360°, ceiling (PIR / dual tech)	nCM 9 / nCM PDT 9
On/Off & Raise/Lower	nPODM DX [color]	Extended range 360°, ceiling (PIR / dual tech)	nCM 10 / nCM PDT 10
Graphic Touchscreen	nPOD GFX	Wide view (PIR / dual tech)	nWV 16 / nWV PDT 16
Photocell controls	Model number	Cat-5 cable bundles (plenum rated)	Model number
Continuous dimming	nCM ADC	10', 15 pieces per bundle	CAT5 10FT
On/Off & Dimming	nCM PC ADC	30', 15 pieces per bundle	CAT5 30FT

Accessories: Order as separate catalog number.

DGA24	Drywall ceiling adaptor , unit installation
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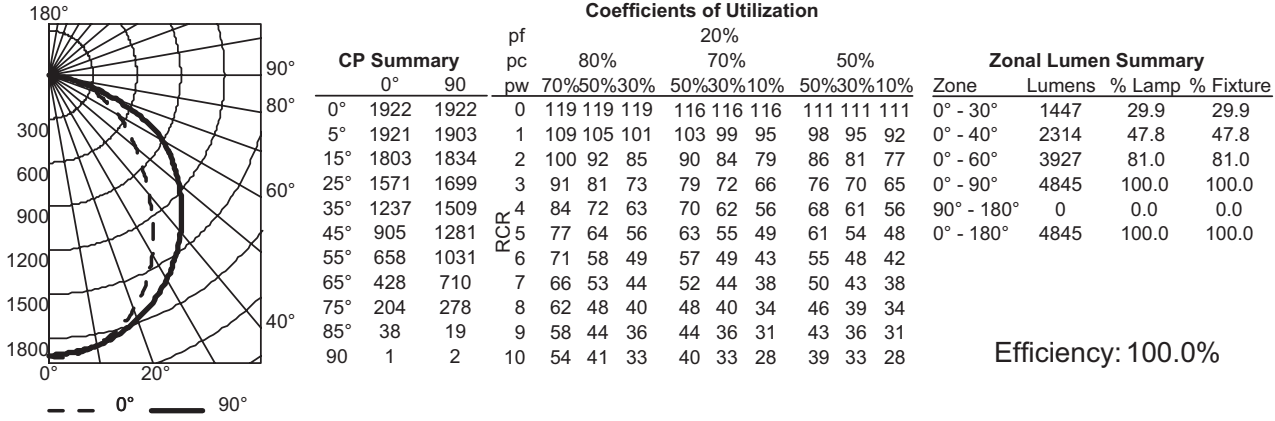
Notes

- 1 Approximate lumen output.
- 2 Not available with EL battery pack or BLD controls.
- 3 Approximate input power (watts) +/-5%.
- 4 For use with 40L.
- 5 For use with 48L.

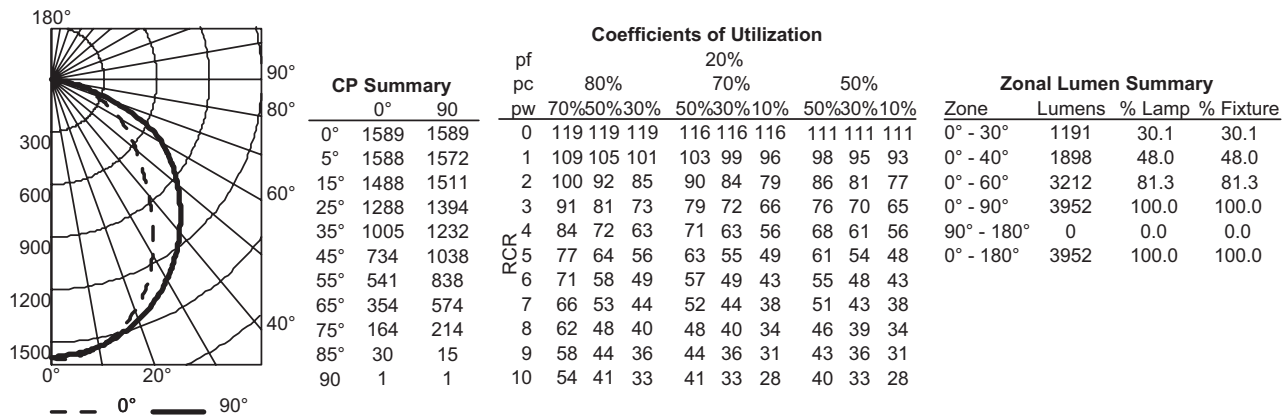
2RTLLED Volumetric Recessed Lighting 2'x4'

PHOTOMETRICS

2RTL4 48L D49 LP835, 4,845 delivered lumens, test no. LTL 20365, tested in accordance to IESNA LM-79.

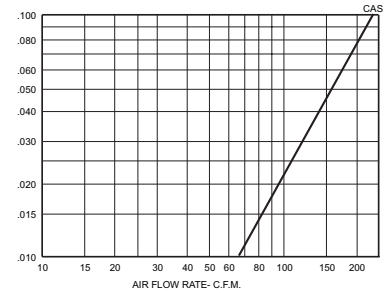


2RTL4 40L D40 LP835, 3,952 delivered lumens, test no. LTL 21172, tested in accordance to IESNA LM-79.



T5/T8 Energy Comparison to LED				
System	Lamp type	Ballast factor	Input watts	Watts saved by using LED
LED-N100	LED	1.0	49	--
LED-N80 ¹	LED	1.0	39	--
Two-lamp T8	F32T8	0.88	55	6
Two-lamp T5	F28T5	1.0	58	9

RTLLED with Air Handling



Note

1 With night 80% lumen management input watts start at 39 and gradually increasing to 49 at 50,000 hrs when using 48L system.

Constant Lumen Management

Enabled by the embedded nLight control, the RTLLED actively tracks its run-time and manages its light source such that constant lumen output is maintained over the system life. Referred to as lumen management, this feature eliminates the energy waste created by the traditional practice of over-lighting.

