

## 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 driver 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 continuously monitor system performance, allow for constant lumen management / compensation function, facilitate simple “plug-and-play” network and controls upgrading via Cat-5 cable.

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.

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

Suitable for direct insulation contact.

Catalog Number
Notes
Type



Volumetric Lighting

# RTLED



1' X 4'  
LED

### Specifications

Length: 48 (121.9)

Width: 12 (30.5)

Depth: 3-1/8 (7.9)

All dimensions are inches (centimeters).

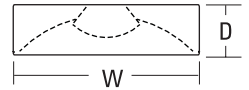
### LISTING

CSA Certified to meet U.S. and Canadian 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.



### ORDERING INFORMATION

For shortest lead times, configure products using **bolded options**.

**Example:** RTLED 2200L D25 LP835 N80

RTLED	2200L	D25		LP835	
Series	Lamp type	Driver	Voltage	Lamp	Control
RTLED Recessed 1X4 LED	<b>2200L<sup>1</sup></b>	<b>D25</b> 25W <sup>2</sup>	<b>(blank)</b> MVOLT (120 - 277V)	<b>LP835</b> 82 CRI, 3500 Kelvin	<b>N80</b> nLight with 80% (L80) lumen management <b>N100</b> nLight without lumen management

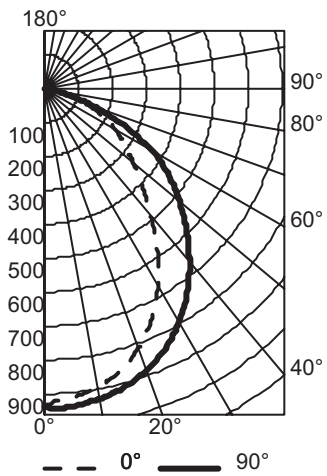
### Notes

- 1 Approximate lumen output.
- 2 Approximate input power (watts).

# RTLED Volumetric Recessed Lighting 1'x4'

## PHOTOMETRICS

RTLED 2200L LP835, 2,219 delivered lumens, test no. LTL19393, tested in accordance to IESNA LM-79.



### CP Summary

	0°	90
0°	939	939
5°	914	940
15°	861	911
25°	748	845
35°	579	734
45°	407	593
55°	289	447
65°	186	257
75°	86	81
85°	15	8
90°	0	0

### Coefficients of Utilization

ROR	pc	Coefficients of Utilization									
		80%			70%			50%			
		pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111		
1	110	106	102	103	100	97	99	96	94		
2	101	93	87	91	85	80	88	83	79		
3	92	82	75	81	74	68	78	72	67		
4	85	73	65	72	64	58	70	63	58		
5	78	66	57	65	57	51	63	56	50		
6	72	60	51	59	51	45	57	50	44		
7	67	54	46	53	45	40	52	45	39		
8	63	50	41	49	41	36	48	41	36		
9	59	46	38	45	38	32	44	37	32		
10	55	42	35	42	34	29	41	34	29		

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	710	32.0	32.0
0° - 40°	1128	50.9	50.9
0° - 60°	1862	83.9	83.9
0° - 90°	2219	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	2219	100.0	100.0

Efficiency: 100.0%

### LED Energy Comparison to T5/T8

System	Lamp type	Ballast factor	Input watts	Watts saved by using LED
LED-N100	LED	1.0	25	--
LED-80 <sup>1</sup>	LED	1.0	20	--
One-lamp T8	F32T8	0.88	28	3
One-lamp T5	F28T5	1.0	32	7

#### Note

1 With nlight 80% lumen management input watts start at 20 and gradually increasing to 25 at 50,000 hrs.