prescolite

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

LTR-4RW Open

LITEISTRY 4" ROUND OPEN WALL WASH (WW/DWW/CWW)

LITEISTRY

FEATURES

- 4" architectural LED wall wash delivering 600–4000 lm
- Single, double and corner wall wash solutions
- Provides uniform vertical illumination as well as room side light
- Quiet reflector appearance with 50° optical cutoff
- 2700K–5000K, 80+ and 90+ CRI options
- Available for New Construction (non-IC), IC and Chicago Plenum applications
- Variety of dimming protocol options including 0-10V, DALI, DMX, Lutron Forward Phase and EcoSystem
- NX Distributed Intelligence™ wired and wireless controls capability available

C US ENERGY STAR BUY AMERICAN SOLUTIONS See Certification Specifications

RELATED PRODUCTS

3" LITEISTRY Family | 4" LITEISTRY Family | 6" LITEISTRY Family

CONTROL TECHNOLOGY

NX DISTRIBUTED INTELLIGENCE

SPECIFICATIONS

CONSTRUCTION

- Standard Non-IC. Chicago Plenum and IC options
- Painted black durable steel platform with pre-installed bar hangers
- Pre-wired junction box with snap-on covers for easy access
- Snap-in connection from driver compartment allows easy installation
- Light Engine connections use plenum rated (CMP) cable

OPTICS

- Visually pleasing 50° cutoff to source and source image
- Open cone and kicker reflector assembly with an optical grade silicone lens integral to light engine
- Available in Single, Double, and Corner wall wash distributions
- Provides excellent uniformity down the wall while also contributing to room side lighting
- The light distribution is free of distracting bright spots or pixelation and the perimeter has a smooth transition
- High purity spun aluminum reflector, self-flanged
- Flush mount flange option with mud-in ring available
- Large selection of anodized finishes and colors
- Painted cones and flange options available

ELECTRICAL

- Chip-on-board LED with 2 SDCM
- Multiple CCTs, 80+ or 90+ CRI
- Long LED life: L90 at > 55,000 hours (TM-21)
- Universal voltage 120V–277V driver, 347V optional
- UL Class 2, inherent short circuit and overload protection, RoHS compliant
- Flicker free 0-10V dimming with 1% or <1% performance
- DALI, DMX, and Lutron Forward Phase and EcoSystem options
- NX or Lutron Vive control options available
- Emergency battery pack option available with remote test switch and indicator light
- Refer to additional spec sheets for information on SpectraSync™ Tunable White or Dim-to-Warm or PowerHUBB™ PoE enabled solutions

INSTALLATION

- Accommodates ceiling thickness up to 2" (WW/DWW); up to 1.25" (CWW)
- Universal adjustable mounting brackets also accept 0.5" EMT conduit or 1.5" or 0.75" lathing channel (by others) or Prescolite accessory bar hangers (B24 or B6)
- Light engine/driver fully serviceable from above or below the ceiling

CERTIFICATIONS

- cCSAus certified to UL 1598
- Suitable for damp locations
- EMR: Certified under UL 924 standard for emergency lighting and power equipment
- Approved for 8 (4 in/4 out) No. 12AWG conductors rated for 90°C through wiring
- ENERGY STAR® certified models available (See list and additional information on page 6)
- This product qualifies as a “designated country construction material” per FAR 52.225-11 Buy American-Construction. Materials under Trade Agreements effective 6/6/2020. See Buy American Solutions.

WARRANTY

- 5 year warranty
- See HLI Standard Warranty for additional information

KEY DATA	
Lumen Range	600-4000
Wattage Range	8-52
Efficacy Range (LPW)	88*
Reported Life (Hours)	L90 / >55,000
Input Current (mA)	67-433 (120V)

*Based on Specular, 35K, 80 CRI

PHOTOMETRY

DIMENSIONAL DRAWINGS

BROCHURE

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ORDERING GUIDE

Example: LTR–4RD–H–SL10L–DM1–LTR–4RW–T–SL35K8WW–S

CATALOG #

HOUSING

LTR-4RD-H –

Aperture/Shape/Function	
LTR-4RD-H	4" Round Downlight/ WW/DWW Wall Wash New Construction Housing
LTR-4RCW-H	4" Round Corner Wall Wash Housing [11]

–

Lumen Package		Lumen Output	
SL	Standard Lumen	**06L**	600
		10L	1000
		15L	1500
ML	Medium Lumen	**20L**	2000
		25L	2500
		30L	3000
HL	High Lumen	**35L**	3500
		40L	4000

–

Driver Options	
DM1	0-10V Dimming to 1%
DM01	0-10V Dimming to < 1%
DMX	DMX with RDM dimming to < 0.1% [2]
DALI	DALI Dimming to 1%
2DM	Lutron Hi-Lume 2-wire Dimming to 1% (120V Forward Phase only) [2]
EDM	Lutron Hi-Lume EcoSystem Dimming to 1% [2]

Control Options	
NXE	NX Enabled, Dual SmartPorts [3]
NXWE	NX Wireless Enabled [3]
NXWD	NX Wireless Enabled, Dual SmartPorts [3]
LV	Lutron Vive Enabled, 0-10V (requires 0-10V driver)
LVE	Lutron Vive Enabled, EcoSystem, (requires EDM)

Voltage	
Standard 120-277V	
34	347V [6]

Housing Options	
CP	Chicago Plenum [7, 9]
IC	IC rated [8, 9]
DTS	Device Transfer Switch with Dimming Bypass [9, 12]
GTD	Generator Transfer Device [9]
EMR	Emergency Battery Pack with remote test switch and indicator light [9]
F	Fuse [9]

TRIM

LTR-4RW-T –

Aperture/Shape/Function	
LTR-4RW-T	4" Round Wall Wash Light Engine/Trim Assembly

–

Lumen Package	
SL	Standard Lumen
ML	Medium Lumen
HL	High Lumen

CCT	
27K	2700K
30K	3000K
35K	3500K
40K	4000K
50K	5000K [1]

CRI	
8	80+CRI
9	90+CRI

Distribution	
WW	Single Wall Wash
DWW	Double Wall Wash
CWW	Corner Wall Wash [11]

TRIM CONTINUED

–

Reflector Finish	
Finish not applicable with painted reflectors (WC or BC)	
S	Specular
SS	Semi-Specular
MFC	American Matte™
VS	Softglow®
VSS	SoftSheen™

Reflector Color	
Standard Clear	
CG	Champagne Gold
BL	Black
LW	Light Wheat
PW	Pewter
WC	Painted White Cone and Flange
BC	Painted Black Cone and Flange

Flange Color Options	
Standard matches reflector color	
WT	White Flange [4]
BT	Black Flange [4]

Lower Trim Options	
FM	Flush Mount Mud-in Ring [10]
WF	Wide Flange

Reflector Options	
AM	Antimicrobial Coating [5]

Accessories	
☐ **B24**	Set of two (2) 24" bar hangers for T-bar ceilings
☐ **B6**	Set of two bar hangers for ceiling joist up to 24" centers
☐ **FMR4-R**	Flush Mount Mud-In Ring, 4" Round
☐ **LiteGear**	LiteGear® Inverter, 125VA-250VA
☐ **LPS Series**	LightPower Micro-Inverter, 20VA-55VA
☐ **MOR4-R-WH**	Metal Oversized Ring, 4" Round, White (8.25" outside diameter)
☐ **MOR4-R-BL**	Metal Oversized Ring, 4" Round, Black (8.25" outside diameter)

Notes:

1 5000K available in 80+ CRI only.
2 2DM, EDM, DMX available in 10L-35L.
3 NX requires DM1 driver option.
4 WT not needed for WC, BT not needed for BC.
5 AM available with WC or Specular Clear (S or SWT). Consult factory for other colors.
6 347V requires DM1 driver option; not available in 06L or with Controls, F, DTS, GTD or EMR.
7 CP available up to 20L; not available with DMX, Controls, or EMR options.
8 IC available up to 20L; not available with Controls options.
9 Housing options (except Fuse) not available in combination.
10 Flush Mount Flange (FM) requires FMR accessory (sold separately).
11 CWW must use LTR-4RCW-H housing.
12 DTS available with DM1, DM01, DALI, or EDM; not available with LVE.

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CONTROLS

NX Distributed Intelligence™ Lighting Controls:

Supports applications in a variety of deployment options- wired, wireless, hybrid. Integrates with and enables a wide array of luminaires including those with SpectraSync™ Color Tuning Technology.

NX DISTRIBUTED™ INTELLIGENCE

NX INTEGRATED CONTROLS REFERENCE								
NX Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	0–10V Dimming	On/off Control	Bluetooth® App Programming
NX Networked – Wired								
NXE	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC/R[1]
NX Networked – Wireless								
NXWE[2]	N/A	Yes	Yes	No	No	Yes	Yes	No[3]
NX Networked – Wired/Wireless								
NXWD	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC/R[1,3]

1 NXBTC/R needs to be plugged into an available NX SmartPort™ on the fixture network

2 Programming via App requires factory assistance

3 To program NXWE option, need to consult factory. If connected to an area controller, programming can be done from that

PERFORMANCE DATA TABLE

Performance data provided below is for 3500K, 80 CRI with Specular Clear reflector finish/color

Lumen Package	Nominal Lumens	Distribution	"Delivered Lumens"	Watts	LPW
06L	600	Open Single Wall Wash	620	7.8	79
10L	1000	Open Single Wall Wash	991	12.0	83
15L	1500	Open Single Wall Wash	1418	18.6	76
20L	2000	Open Single Wall Wash	1989	22.7	88
25L	2500	Open Single Wall Wash	2357	27.8	85
30L	3000	Open Single Wall Wash	2829	34.6	82
35L	3500	Open Single Wall Wash	3380	42.9	79
40L	4000	Open Single Wall Wash	3858	51.5	75

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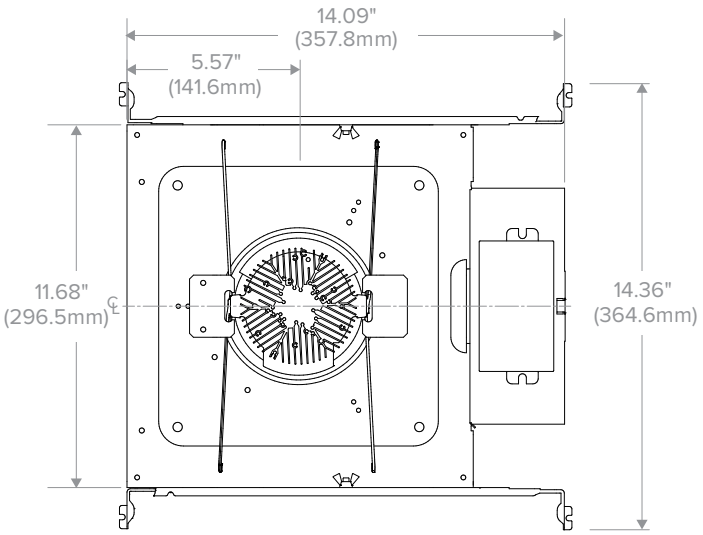
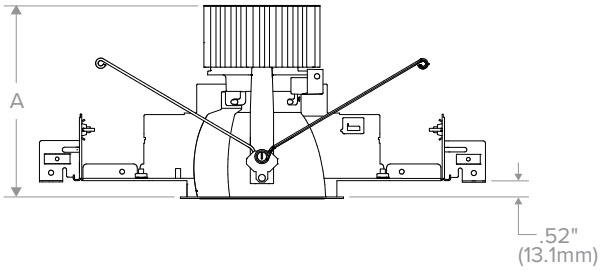
DIMENSIONS

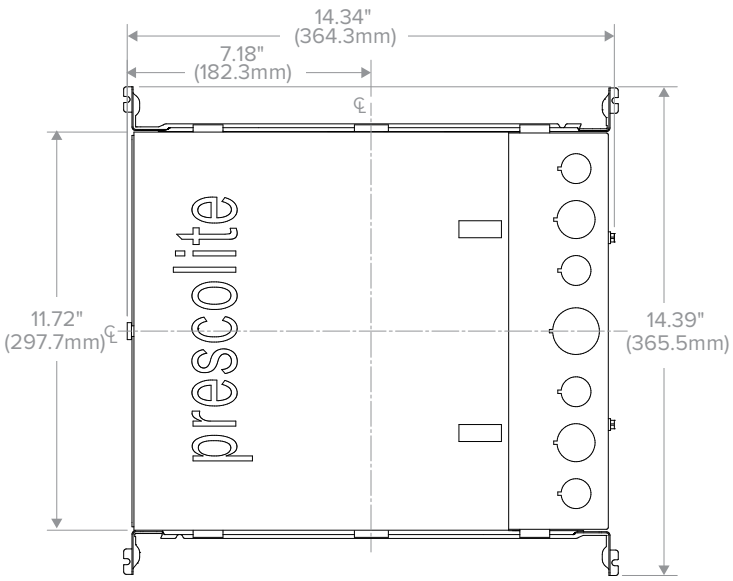


Top View

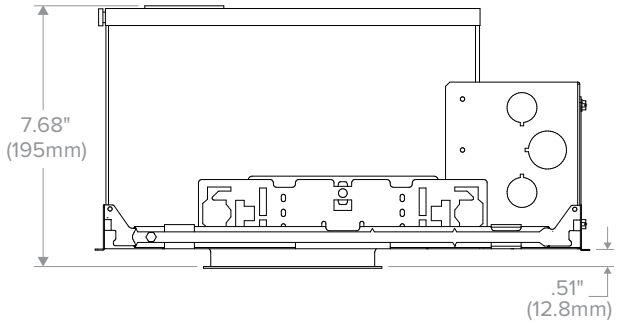


Dimensional Data		
Aperture		4.00" (101.6mm)
Flange:	Standard	5.25" (133.4mm)
	Flush Mount	4.50" (114.3mm)
Ceiling Cutout:	Standard	5.00" (127.0mm)
	Flush Mount	5.12" (130.0mm)
Ceiling Thickness	WW/DWW	0.50" to 2.00" (12.7mm to 50.8mm)
	CWW	0.50" to 1.25" (12.7mm to 31.8mm)

LTR-4RW-H



Top View



Dimensional Data		
Aperture		4.00" (101.6mm)
Flange:	Standard	5.25" (133.4mm)
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	Flush Mount	5.12" (130.0mm)
Ceiling Thickness	WW/DWW	0.50" to 2.00" (12.7mm to 50.8mm)
	CWW	0.50" to 1.25" (12.7mm to 31.8mm)

LTR-4RD-H IC/CP

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IES FILE

PHOTOMETRY

LTR-4RD-H-ML20L-DM1 / LTR-4RW-T-ML35K8WW-S

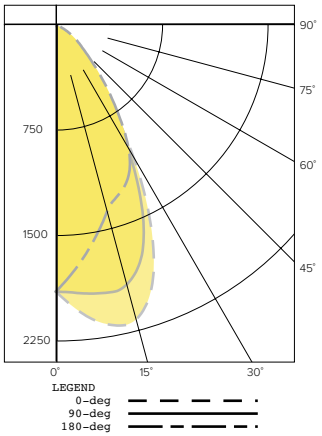
LUMINAIRE DATA

Test No.	**19.00750**
Description	**Single Wall Wash, 2000 lm, 3500K, 80 CRI**
Delivered Lumens	**1989**
Watts	**22.7W**
Efficacy	**87.5**
Mounting	**Recessed**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1777	89.3
0-60	1959	98.5
0-90	1989	100.0
0-180	1989	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1900
5	1730
15	1390
25	1210
35	783
45	360
55	173
65	69
75	13
85	2
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	59049
55°	34982
65°	18936
75°	5826
85°	2662

*Candela/Square Meter

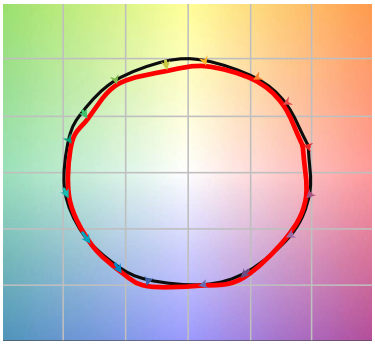
LUMEN MULTIPLIER

Option	27K8	30K8	35K8	40K8	50K8	27K9	30K9	35K9	40K9
Multiplier	0.94	0.98	1.00	1.01	1.02	0.81	0.84	0.85	0.85

Photometrics are published below at a nominal 3500 Kelvin, 80+ CRI. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

TM-30 DATA

COLOR VECTOR GRAPHIC 3500K, 90 CRI

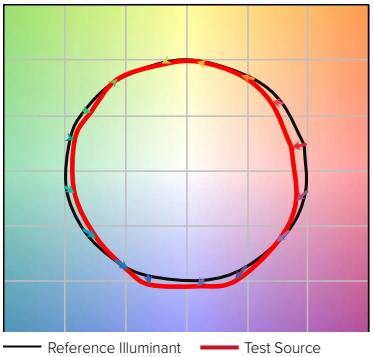


Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC 3500K, 90 CRI

TEST RESULTS - 3500K		
Value	80+ CRI	90+ CRI
R_f	84	88
R_g	95	95
CCT (K)	3411	3419
D_{UV}	0.0015	0.0042
x	0.4120	0.4147
y	0.3974	0.4052
CIE R_a	84	93
CIE R_9	11	62

COLOR VECTOR GRAPHIC 3500K, 80 CRI



Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC 3500K, 80 CRI

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ELECTRICAL DATA

DRIVER DATA		
Input Voltage	120-277 V	347 V
Input Frequency	50/60 Hz	50/60 Hz
Power Factor	≥0.90	≥0.90
THD	<20%	<20%
EMI Filtering (FCC 47 CFR Part 15)	Class A	Class A

* Values for DM1 option shown, values for other dimming options may vary.

WATTAGE DATA		
Lumen Output	Nominal Lumens	Wattage
06L	600	8
10L	1000	12
15L	1500	19
20L	2000	23
25L	2500	28
30L	3000	35
35L	3500	43
40L	4000	52

* Wattage may vary based on configuration and options selected

ADDITIONAL INFORMATION

DIMMING COMPATIBILITY CHART		
Dimming Driver	Manufacturer	Web Link
DM1 /DM01	Lutron DVTV	http://bit.ly/11jSvZg
DM1	Leviton AWRMG-7xx, AWSMG-7xx, AWSMT-7xx	http://bit.ly/1BJn2R9
EDM	Lutron	http://bit.ly/1vtjHAl
2DM	Lutron	http://bit.ly/1S4WjXK

DMX

See instruction sheet on www.prescolite.com for connection & installation information.

Central Inverters

For full fixture output in back-up mode, we recommend you visit www.dual-lite.com for your Central Lighting Inverter options. Please contact your local Hubbell representative for any assistance with proper sizing and loading of your inverter selection. Central lighting inverters must be ordered separately.
LiteGear: www.dual-lite.com/products/litegear_lg_series
LPS Series: www.dual-lite.com/products/lps

ENERGY STAR®

The following stock items are ENERGY STAR® certified models. (See www.energystar.gov for more details.)

ENERGY STAR® Certified Models
LTR-4RD-H-SL10L-DM1 + LTR-4RW-T-SL35K8WWSS
LTR-4RD-H-SL15L-DM1 + LTR-4RW-T-SL35K8WWSS
LTR-4RD-H-ML20L-DM1 + LTR-4RW-T-ML35K8WWSS
LTR-4RD-H-ML30L-DM1 + LTR-4RW-T-ML35K8WWSS

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