

LTR-4RD (SH)

LITEISTRY 4" ROUND
NON-CONDUCTIVE SHOWER DOWNLIGHT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

FEATURES

- 4" architectural LED downlight delivering 600 – 2500 lm
- Non-conductive dead-front trim with four regressed lens options
- Suitable for wet locations, covered ceiling
- IP65 rated (room side)
- NSF2 Splash/Non-Food Zone certified
- Anti-microbial finish, optional
- 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, and Lutron EcoSystem



CONTROLS TECHNOLOGY



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

- Durable, non-conductive trim with 1/2" regressed lens
- Lens options include acrylic, polycarbonate, or tempered glass micro-prism, and clear acrylic
- Smooth room side lens surface for easy wipe down
- Available in white, black, or anti-microbial white trim color

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

ELECTRICAL (CONTINUED)

- UL Class 2, inherent short circuit and overload protection
- Flicker free 0-10V dimming with 1% or <1% performance
- DALI, DMX, and Lutron EcoSystem options
- NX Lighting Controls provides options for standalone and networked functionality with wired or wireless connectivity for NX system deployments
- Emergency battery pack option available with remote test switch and indicator light

INSTALLATION

- Accommodates ceiling thickness up to 2"
- Universal adjustable mounting brackets also accept 1/2" EMT conduit or 1/2" or 3/4" lathing channel (by others) or Prescolite accessory bar hangers (B24 or B6)
- Light Engine/Driver fully serviceable from above or below the ceiling

CERTIFICATIONS

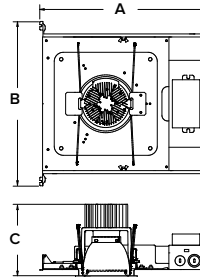
- cCSAus certified to UL 1598
- IP65 rated (room side) when properly installed per installation instructions
- NSF2 Splash/Non-Food Zone certified
- Suitable for wet locations, covered ceiling. EMR: Suitable for damp locations.

LITEISTRY™



SERVICE PROGRAMS

tradeSELECT® QS10



Typical Dimensions and Weights				
Lumen Package	"A" Length Inches (mm)	"B" Width Inches (mm)	"C" Height Inches (mm)	Weight lbs (kg)
06L - 15L	14.56 (370)	14.36 (365)	4.97 (126)	7.5 (3.4)
20L - 25L	14.56 (370)	14.36 (365)	6.15 (156)	8 (3.6)

See DIMENSIONS section for complete details

CERTIFICATIONS (CONTINUED)

- EMR: Certified under UL 924 standard for emergency lighting and power equipment
- EMR: Emergency battery packs are California Energy Commission (CEC) Title 20 Compliant
- Approved for 8 (4 in/4 out) No. 12AWG conductors rated for 90°C through wiring
- For -BAA Option: This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) [See Buy America\(n\) Solutions](#)
- For -TAA Option: Product configurations meet federal procurement law requirements under the Trade Agreements Act (FAR 52.225-11) [See Buy America\(n\) Solutions](#)

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	600-2500
Wattage Range	8-28
Efficacy Range (LPW)	49-52*
Reported Life (Hours)	L90 / >55,000
Input Current (mA)	65-233 (120V)

*Based on 35K, 80 CRI

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ORDERING GUIDE

DATE:

LOCATION:

TYPE:

PROJECT:

CATALOG #:

Gray Shading = Service Program

tradeSELECT[®]

QS10
Limit of 150 Luminaries

Example: LTR-4RD-H-SL10L-DM1-LTR-4RD-SHSL35K8-WTAML

CATALOG #

HOUSING

LTR-4RD-H							
Aperture/Shape/Function		Lumen Package		Lumen Output		Driver Options	
LTR-4RD-H	4" Round Downlight New Construction Housing	SL	Standard Lumen	06L	600	DM1	0-10V Dimming to 1%
				10L	1000	DM01	0-10V Dimming to < 1%
				15L	1500	DMX	DMX with RDM dimming to < 0.1%
		ML	Medium Lumen	20L	2000	DALI	DALI Dimming to 1%
				25L	2500	EDM	Lutron Hi-Lume EcoSystem Dimming to 1% ²
						Control Options	
						Voltage	
						Housing Options	
						Standard 120-277V	
						34 347V ⁵	
						NX Lighting Controls	
						Networked Wireless	
						NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor ³	
						Networked Wired	
						NXE NX Wired Dual RJ45 SmartPORTS, without Sensor ³	
						CP Chicago Plenum ^{6,8}	
						IC IC Rated ^{6,9}	
						EMR 7W Emergency Battery Pack (CEC Title 20 Compliant) with remote test switch and indicator light ⁶	
						DTS Device Transfer Switch with Dimming Bypass ^{6,7}	
						GTD Generator Transfer Device ^{6,10}	
						F Fuse	
						BAA Buy American Act (FAR 52.225-9) Compliant	
						TAA Trade Agreements Act (FAR 52.225-11) Compliant	

TRIM

LTR-4RD-T							
Aperture/Shape/Function		Trim Style		Lumen Package		CCT	
LTR-4RD-T	4" Round Downlight Light Engine/Trim Assembly	SH	Non-Conductive Shower Trim	SL	Standard Lumen	27K	2700K
				ML	Medium Lumen	30K	3000K
						35K	3500K
						40K	4000K
						50K	5000K ¹
						CRI	
						8 80+CRI	
						9 90+CRI	

TRIM CONTINUED

Trim Color		Lens Options		Options	
WT	White Trim and Flange	AML	Acrylic, Micro-prism	AM	Antimicrobial ⁴
BT	Black Trim and Flange	PML	Polycarbonate, Micro-prism	BAA	Buy American Act (FAR 52.225-9) Compliant
		GML	Tempered glass, Micro-prism	TAA	Trade Agreements Act (FAR 52.225-11) Compliant
		ACL	Acrylic, Clear		

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
- ☐ LiteGear
- LiteGear[®] Inverter, 125VA-250VA
- ☐ LPS Series
- LightPower Micro-Inverter, 20VA-55VA

- Notes:
- 1 5000K available in 80+ CRI only.
- 2 EDM available in 10L-25L.
- 3 NX requires DM1 driver option.
- 4 AM available with White (WT) only. Consult factory for other colors.
- 5 347V requires DM1 driver; not available with Controls, EMR, DTS, GTD or F.
- 6 Housing options (except Fuse, BAA/TAA) not available in combination.
- 7 DTS available with DM1, DM01, or DALI. Not available with NXE.
- 8 CP available up to 20L; not available with DMX, Controls, or EMR options.
- 9 IC available up to 20L; not available with Controls options.
- 10 Not available with NXE.

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NX LIGHTING CONTROLS

DATE:LOCATION:

TYPE:PROJECT:

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Control Option Ordering Logic & Description			Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming		
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	✓	✓	-	-	✓	✓	✓		NXRM2-H
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor	✓	✓	✓	-	-	✓	✓	✓ ¹		NXDSP

1 Requires NXBTC, order separately.

NX LIGHTING CONTROLS APP



The NX Lighting Controls App is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enabled luminaires and program your NX system settings.



Android



Apple iOS

PERFORMANCE DATA TABLE

Performance data provided below is for 3500K, 80 CRI.

Lumen Package	Nominal Lumens	Lens Description	Delivered Lumens	Watts	LPW
06L	600	Acrylic Micro-prism	358	7.8	46
		Polycarbonate Micro-prism	350	7.8	45
		Tempered Glass Micro-prism	366	7.8	47
		Acrylic Clear	366	7.8	47
10L	1000	Acrylic Micro-prism	572	12.0	48
		Polycarbonate Micro-prism	559	12.0	47
		Tempered Glass Micro-prism	586	12.0	49
		Acrylic Clear	586	12.0	49
15L	1500	Acrylic Micro-prism	818	18.6	44
		Polycarbonate Micro-prism	800	18.6	43
		Tempered Glass Micro-prism	838	18.6	45
		Acrylic Clear	838	18.6	45
20L	2000	Acrylic Micro-prism	1109	22.1	50
		Polycarbonate Micro-prism	1084	22.1	49
		Tempered Glass Micro-prism	1136	22.1	51
		Acrylic Clear	1136	22.1	51
25L	2500	Acrylic Micro-prism	1361	27.8	49
		Polycarbonate Micro-prism	1330	27.8	48
		Tempered Glass Micro-prism	1394	27.8	50
		Acrylic Clear	1394	27.8	50

LTR-4RD (SH)

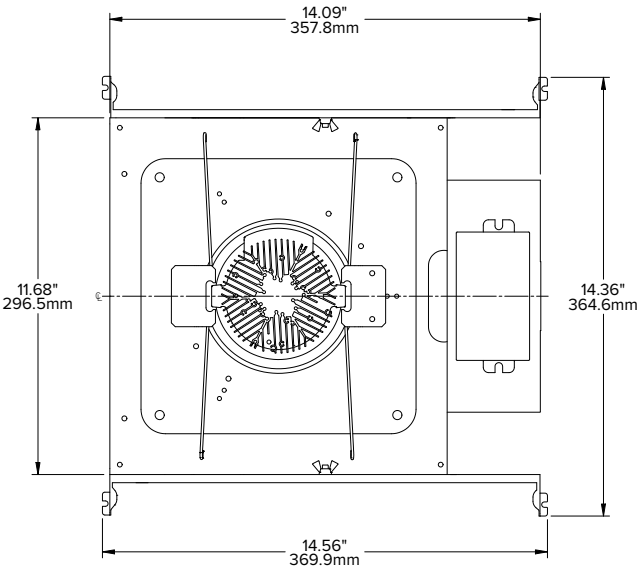
LITEISTRY 4" ROUND
NON-CONDUCTIVE SHOWER DOWNLIGHT

DIMENSIONS

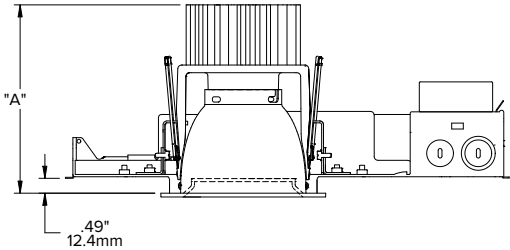
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CATALOG #:



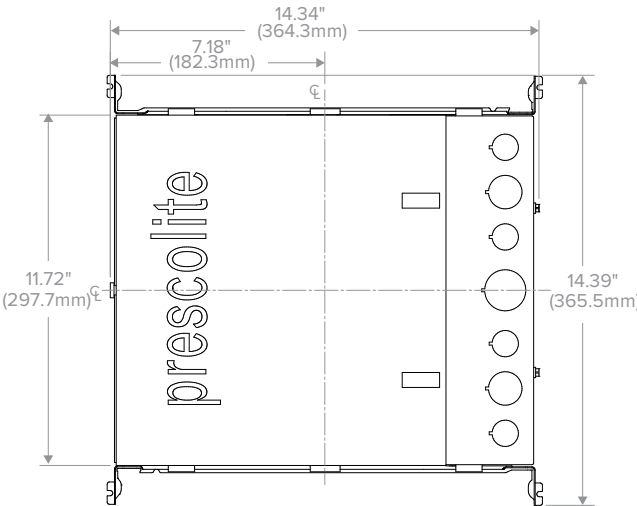
Top View



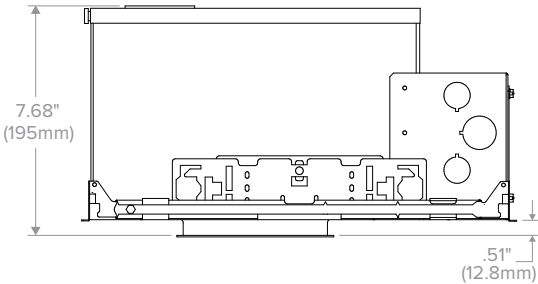
Dimensional Data		
Aperture		4.00" (101.6mm)
Flange	Standard	5.39" (136.9mm)
Ceiling Cutout	Standard	5.00" (127.0mm)
Ceiling Thickness		0.50" to 2.00" (12.7mm to 50.8mm)

Lumen Package	"A"
06L-15L	4.97" (126.2mm)
20L-25L	6.15" (156.2mm)

LTR-4RD-H-SH



Top View



Dimensional Data		
Aperture		4.00" (101.6mm)
Flange	Standard	5.39" (136.9mm)
Ceiling Cutout	Standard	5.00" (127.0mm)
Ceiling Thickness		0.50" to 2.00" (12.7mm to 50.8mm)

LTR-4RD-H-SH (IC/CP)

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PHOTOMETRY

LTR-4RD-H-ML20L-DM1 / LTR-4RD-T-SHML35K8WTAML

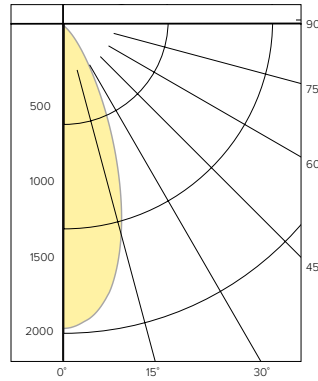
LUMINAIRE DATA

Test No.	20.01609
Description	Acrylic Micro-prism lens, 3500K, 80 CRI
Delivered Lumens	1109
Watts	22.1W
Efficacy	50
Mounting	Recessed
Spacing Criterion	0.7
Beam Angle (FWHM)	41

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1011	91.1
0-60	1093	98.5
0-90	1109	100.0
0-180	1109	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1977
5	1920
15	1412
25	654
35	226
45	75
55	24
65	11
75	4
85	1
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	14790
55°	5892
65°	3600
75°	2428
85°	1045

*Candela/Square Meter

LTR-4RD-H-ML20L-DM1 / LTR-4RD-T-SHML35K8WTPML

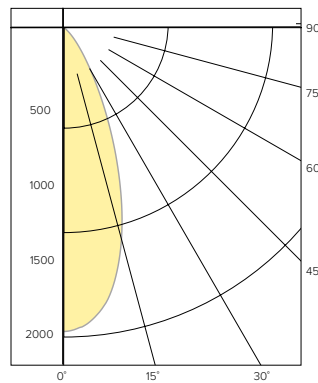
LUMINAIRE DATA

Test No.	20.01611
Description	Polycarbonate Micro-prism lens, 3500K, 80 CRI
Delivered Lumens	1084
Watts	22.1W
Efficacy	49.1
Mounting	Recessed
Spacing Criterion	0.7
Beam Angle (FWHM)	41

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	989	91.3
0-60	1069	98.6
0-90	1084	100.0
0-180	1084	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1938
5	1882
15	1381
25	641
35	222
45	73
55	23
65	10
75	4
85	2
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	14450
55°	5607
65°	3262
75°	2152
85°	978

*Candela/Square Meter

LTR-4RD-H-ML20L-DM1 / LTR-4RD-T-SHML35K8WTGML

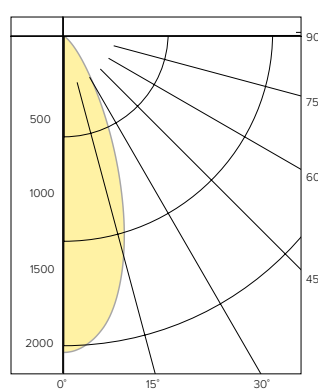
LUMINAIRE DATA

Test No.	20.01612
Description	Tempered Glass Micro-prism lens, 3500K, 80 CRI
Delivered Lumens	1136
Watts	22.1W
Efficacy	51.5
Mounting	Recessed
Spacing Criterion	0.7
Beam Angle (FWHM)	41

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1039	91.5
0-60	1119	98.5
0-90	1136	100.0
0-180	1136	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	2065
5	1997
15	1458
25	672
35	228
45	73
55	23
65	10
75	5
85	1
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	14460
55°	5608
65°	3480
75°	2454
85°	1445

*Candela/Square Meter

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PHOTOMETRY CONTINUED

LTR-4RD-H-ML20L-DM1 / LTR-4RD-T-SHML35K8WTACL

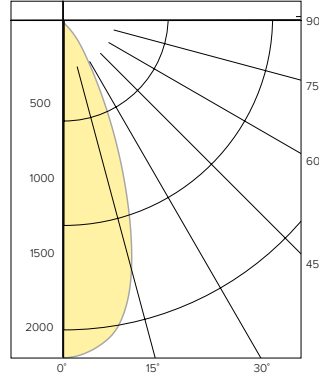
LUMINAIRE DATA

Test No.	20.01613
Description	Acrylic Clear lens, 3500K, 80 CRI
Delivered Lumens	1136
Watts	22.1W
Efficacy	51.5
Mounting	Recessed
Spacing Criterion	0.7
Beam Angle (FWHM)	41

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1078	94.9
0-60	1127	99.2
0-90	1136	100.0
0-180	1136	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	2184
5	2136
15	1638
25	658
35	202
45	47
55	10
65	5
75	3
85	1
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	9400
55°	2390
65°	1794
75°	1420
85°	1191

*Candela/Square Meter

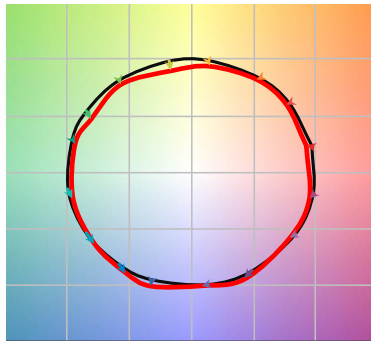
LUMEN MULTIPLIER

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



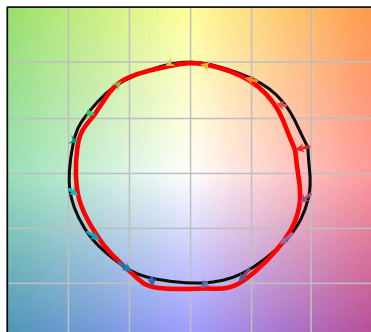
— Reference Illuminant — Test Source

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 _g	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.

ADDITIONAL INFORMATION

Dimming Compatibility

For more details and recommended dimmer list, see Dimming Compatibility Information on currentlighting.com/prescolite.

DMX

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

Central Inverters

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

Lumen Output in Emergency Mode

To determine the lumen output in emergency mode multiply the battery pack wattage by the fixture lumens per watt (LPW).
For example, 7W x 120 LPW = 840 lumens in emergency mode.

DATE:	LOCATION:
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