

# LTR-6RD (SH)

LITEISTRY 6" ROUND  
NON-CONDUCTIVE SHOWER DOWNLIGHT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

## FEATURES

- 6" architectural LED downlight delivering 600 – 4000 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" (SL, ML, HL); up to 1.25" (VL, XL)
- 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

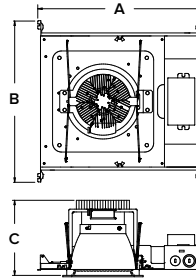
- cCSAus certified to UL 1598
- IP65 rated (room side) when properly installed per installation instructions
- NSF2 Splash/Non-Food Zone certified

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)	5.9 (150)	8 (3.6)
20L - 30L	14.56 (370)	14.36 (365)	6.68 (170)	8.4 (3.8)
35L - 40L	14.56 (370)	14.36 (365)	7.86 (200)	9 (4.1)

See DIMENSIONS section for complete details

### CERTIFICATIONS (CONTINUED)

- Suitable for wet locations, covered ceiling. EMR: Suitable for damp locations.
- 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	600-4000
Wattage Range	8-52
Efficacy Range (LPW)	67-70*
Reported Life (Hours)	L90 / >55,000
Input Current (mA)	65-433 (120V)

\*Based on 35K, 80 CRI

LTR-6RD (SH)

LITEISTRY 6" ROUND  
NON-CONDUCTIVE SHOWER DOWNLIGHT

ORDERING GUIDE

DATE:

LOCATION:

TYPE:

PROJECT:

CATALOG #:

Gray Shading = Service Program

tradeSELECT®

QS10  
Limit of 150 Luminaries

Example: LTR-6RD-H-SL10L-DM1-LTR-6RD-T-SHSL35K8-WTAML

CATALOG #

HOUSING

LTR-6RD-H							
Aperture/Shape/Function		Lumen Package		Lumen Output		Driver Options	
LTR-6RD-H	6" 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% <sup>2</sup>
		ML	Medium Lumen	20L	2000	DALI	DALI Dimming to 1%
				25L	2500	EDM	Lutron Hi-Lume EcoSystem Dimming to 1% <sup>2</sup>
				30L	3000	<div><div>NX Lighting Controls</div><div>Networked Wireless</div><div>NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor<sup>3</sup></div><div>Networked Wired</div><div>NXE NX Wired Dual RJ45 SmartPORTS, without Sensor<sup>3</sup></div></div>	
		HL	High Lumen	35L	3500		
				40L	4000		
				Voltage		Housing Options	
				Standard 120-277V		CP	Chicago Plenum <sup>6,8</sup>
				34 347V <sup>5</sup>		IC	IC Rated <sup>6,9</sup>
						EMR	7W Emergency Battery Pack (CEC Title 20 Compliant) with remote test switch and indicator light <sup>6</sup>
						DTS	Device Transfer Switch with Dimming Bypass <sup>6,7</sup>
						GTD	Generator Transfer Device <sup>6,10</sup>
						F	Fuse <sup>6</sup>
						BAA	Buy American Act (FAR 52.225-9) Compliant
						TAA	Trade Agreements Act (FAR 52.225-11) Compliant

TRIM

LTR-6RD-T									
Aperture/Shape/Function		Trim Style		Lumen Package		CCT		CRI	
LTR-6RD-T	6" Round Downlight Light Engine/Trim Assembly	SH	Non-Conductive Shower Trim	SL	Standard Lumen	27K	2700K	8	80+CRI
				ML	Medium Lumen	30K	3000K	9	90+CRI
				HL	High Lumen	35K	3500K		
						40K	4000K		
						50K	5000K <sup>1</sup>		

TRIM CONTINUED

Trim Color		Lens Options		Options	
WT	White Trim and Flange	AML	Acrylic, Micro-prism	AM	Antimicrobial <sup>4</sup>
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	
<input type="checkbox"/> B24	Set of two (2) 24" bar hangers for T-bar ceilings
<input type="checkbox"/> B6	Set of two bar hangers for ceiling joist up to 24" centers
<input type="checkbox"/> LiteGear	LiteGear® Inverter, 125VA-250VA
<input type="checkbox"/> LPS Series	LightPower Micro-Inverter, 20VA-55VA

- Notes:
- 1

5000K available in 80+ CRI only.
- 2

EDM available in 10L-35L. DMX not available on >35L.
- 3

NX requires DM1 driver option
- 4

AM available with White (WT) only. Consult factory for other colors.
- 5

347V available for 06L-30L; 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.

LTR-6RD (SH)



LITEISTRY 6" ROUND  
NON-CONDUCTIVE SHOWER DOWNLIGHT

NX LIGHTING CONTROLS

DATE:LOCATION:

TYPE:PROJECT:

CATALOG #:

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	✓	✓	✓	-	-	✓	✓	✓ <sup>1</sup>		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

LTR-6RD (SH)

LITEISTRY 6" ROUND  
NON-CONDUCTIVE SHOWER DOWNLIGHT

PERFORMANCE DATA TABLE

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

Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
06L	600	Acrylic Micro-prism	418	7.8	54
		Polycarbonate Micro-prism	400	7.8	51
		Tempered Glass Micro-prism	427	7.8	55
		Acrylic Clear	426	7.8	55
10L	1000	Acrylic Micro-prism	668	12.0	56
		Polycarbonate Micro-prism	640	12.0	53
		Tempered Glass Micro-prism	683	12.0	57
		Acrylic Clear	681	12.0	57
15L	1500	Acrylic Micro-prism	960	18.6	52
		Polycarbonate Micro-prism	919	18.6	49
		Tempered Glass Micro-prism	981	18.6	53
		Acrylic Clear	978	w/18.6	53
20L	2000	Acrylic Micro-prism	1320	22.0	60
		Polycarbonate Micro-prism	1263	21.9	58
		Tempered Glass Micro-prism	1348	22.0	61
		Acrylic Clear	1344	22.0	61
25L	2500	Acrylic Micro-prism	1480	27.8	53
		Polycarbonate Micro-prism	1417	27.8	51
		Tempered Glass Micro-prism	1512	27.8	54
		Acrylic Clear	1507	27.8	54
30L	3000	Acrylic Micro-prism	1912	34.6	55
		Polycarbonate Micro-prism	1830	34.6	53
		Tempered Glass Micro-prism	1953	34.6	56
		Acrylic Clear	1947	34.6	56
35L	3500	Acrylic Micro-prism	2323	42.9	54
		Polycarbonate Micro-prism	2222	42.9	52
		Tempered Glass Micro-prism	2372	42.9	55
		Acrylic Clear	2365	42.9	55
40L	4000	Acrylic Micro-prism	2655	51.5	52
		Polycarbonate Micro-prism	2540	51.5	49
		Tempered Glass Micro-prism	2711	51.5	53
		Acrylic Clear	2703	51.5	52

LTR-6RD (SH)

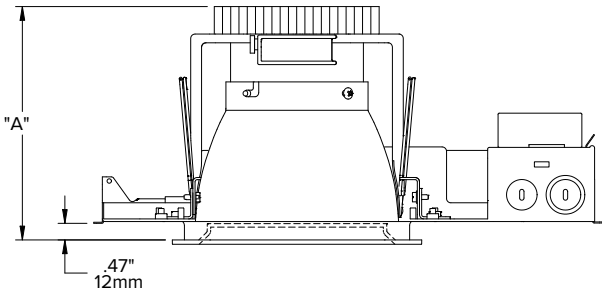
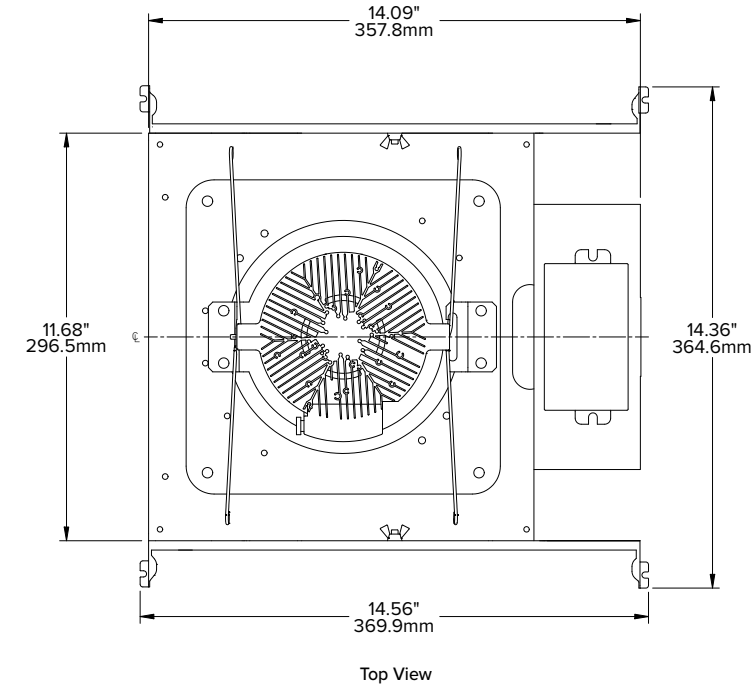
LITEISTRY 6" ROUND  
NON-CONDUCTIVE SHOWER DOWNLIGHT

DIMENSIONS

DATE:LOCATION:

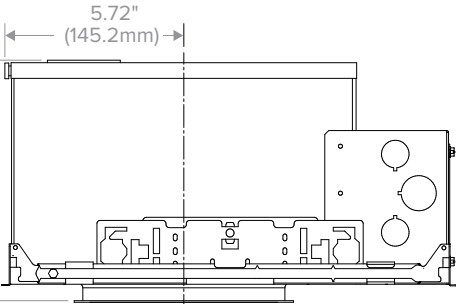
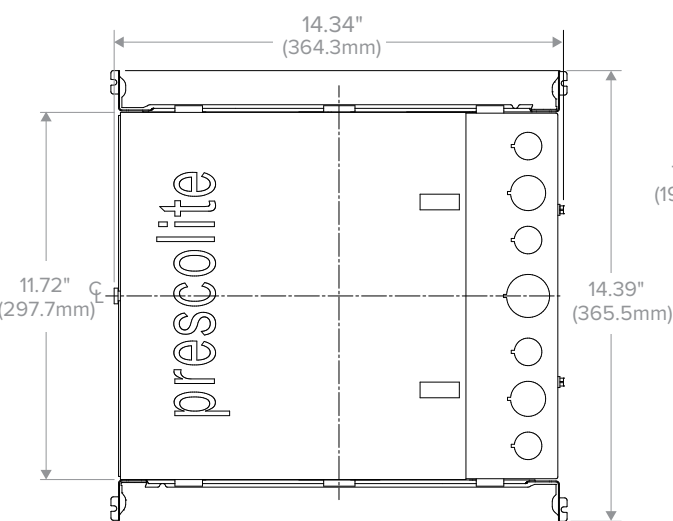
TYPE:PROJECT:

CATALOG #:



Dimensional Data			Lumen Package	"A"
Aperture		5.75" (146.1mm)	06L-15L	5.90" (149.9mm)
Flange	Standard	7.14" (181.5mm)	20L-30L	6.68" (169.7mm)
Ceiling Cutout	Standard	6.50" (165.1mm)	35L-40L	7.86" (199.6mm)
Ceiling Thickness		0.50" to 2.00" (12.7mm to 50.8mm)		

LTR-6RD-H-SH



Dimensional Data		
Aperture		5.75" (146.1mm)
Flange	Standard	7.14" (181.5mm)
Ceiling Cutout	Standard	6.50" (165.1mm)
Ceiling Thickness		0.50" to 2.00" (12.7mm to 50.8mm)

LTR-6RD-H-SH (IC/CP)

# LTR-6RD (SH)

LITEISTRY 6" ROUND  
NON-CONDUCTIVE SHOWER DOWNLIGHT

## PHOTOMETRY

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

### LTR-6RD-H-ML20L-DM1 / LTR-6RD-T-SHML35K8-WTAML

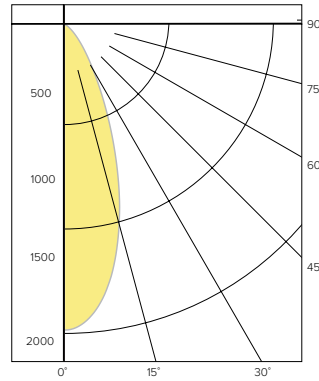
#### LUMINAIRE DATA

Test No.	20.01616
Description	2000 lm, Acrylic Micro-prism lens, 3500K, 80 CRI
Delivered Lumens	1320
Watts	22.0W
Efficacy	60.1
Mounting	Recessed
Spacing Criterion	0.6

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1192	90.3
0-60	1300	98.5
0-90	1320	100.0
0-180	1320	100.0

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

Degree	Candela
0	2482
5	2372
15	1635
25	748
35	284
45	100
55	30
65	12
75	5
85	1
90	0

#### LUMINANCE DATA\*

Vertical Angle	Average
45°	8461
55°	3137
65°	1676
75°	1240
85°	785

\*Candela/Square Meter

### LTR-6RD-H-ML20L-DM1 / LTR-6RD-T-SHML35K8-WTPML

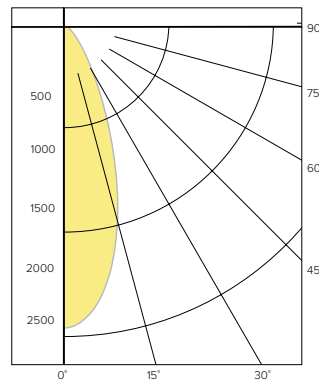
#### LUMINAIRE DATA

Test No.	20.01617
Description	2000 lm, Polycarbonate Micro-prism lens, 3500K, 80 CRI
Delivered Lumens	1263
Watts	22.0W
Efficacy	57.6
Mounting	Recessed
Spacing Criterion	0.6

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1145	90.6
0-60	1246	98.7
0-90	1263	100.0
0-180	1263	100.0

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

Degree	Candela
0	2406
5	2299
15	1579
25	714
35	271
45	95
55	27
65	10
75	5
85	1
90	0

#### LUMINANCE DATA\*

Vertical Angle	Average
45°	7983
55°	2849
65°	1463
75°	1059
85°	757

\*Candela/Square Meter

### LTR-6RD-H-ML20L-DM1 / LTR-6RD-T-SHML35K8-WTGML

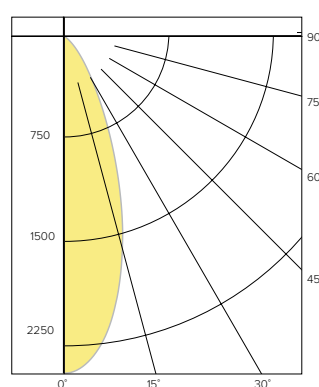
#### LUMINAIRE DATA

Test No.	20.01618
Description	2000 lm, Tempered Glass Micro-prism lens, 3500K, 80 CRI
Delivered Lumens	1349
Watts	22.0W
Efficacy	61.4
Mounting	Recessed
Spacing Criterion	0.6

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1227	91.0
0-60	1330	98.7
0-90	1349	100.0
0-180	1349	100.0

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

Degree	Candela
0	2647
5	2520
15	1695
25	762
35	282
45	96
55	28
65	11
75	5
85	1
90	0

#### LUMINANCE DATA\*

Vertical Angle	Average
45°	8090
55°	2880
65°	1605
75°	1248
85°	722

\*Candela/Square Meter

# LTR-6RD (SH)

LITEISTRY 6" ROUND  
NON-CONDUCTIVE SHOWER DOWNLIGHT

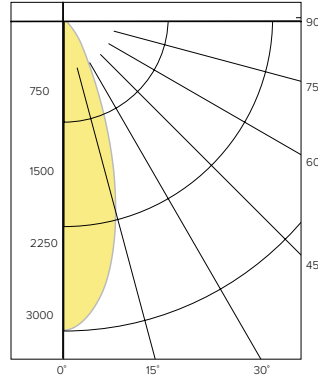
## PHOTOMETRY CONTINUED

### LTR-6RD-H-ML20L-DM1 / LTR-6RD-T-SHML35K8-WTACL

#### LUMINAIRE DATA

Test No.	20.01619
Description	2000 lm, Acrylic Clear lens, 3500K, 80 CRI
Delivered Lumens	1344
Watts	22.0W
Efficacy	61.2
Mounting	Recessed
Spacing Criterion	0.6

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

Degree	Candela
0	2967
5	2816
15	1856
25	726
35	275
45	63
55	8
65	5
75	3
85	1
90	0

#### LUMINANCE DATA\*

Vertical Angle	Average
45°	5305
55°	858
65°	671
75°	588
85°	498

\*Candela/Square Meter

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1275	94.9
0-60	1336	99.4
0-90	1344	100.0
0-180	1344	100.0

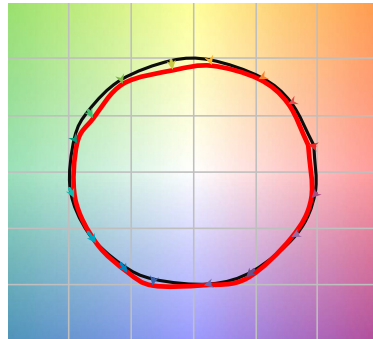
#### LUMEN MULTIPLIER

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



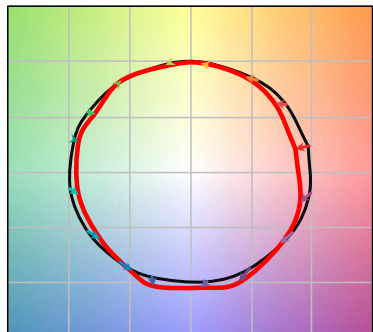
— Reference Illuminant — Test Source

#### COLOR DISTORTION GRAPHIC 3500K, 90 CRI



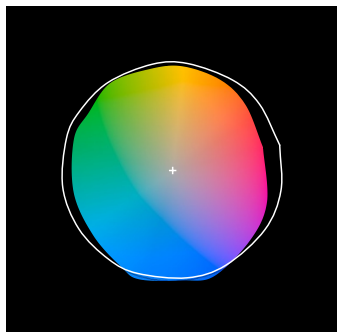
TEST RESULTS - 3500K		
Value	80+ CRI	90+ CRI
R <sub>f</sub>	84	88
R <sub>g</sub>	95	95
CCT (K)	3411	3419
D <sub>uv</sub>	0.0015	0.0042
x	0.4120	0.4147
y	0.3974	0.4052
CIE R <sub>a</sub>	84	93
CIE R <sub>g</sub>	11	62

#### COLOR VECTOR GRAPHIC 3500K, 80 CRI



— Reference Illuminant — Test Source

#### COLOR DISTORTION GRAPHIC 3500K, 80 CRI



LTR-6RD (SH)

LITEISTRY 6" ROUND  
NON-CONDUCTIVE SHOWER DOWNLIGHT

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](http://currentlighting.com/prescolite).

DMX

See instruction sheet on [currentlighting.com/prescolite](http://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](http://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:
TYPE:	PROJECT:
CATALOG #:	