

LTR-6RD (SH)

LITEISTRY 6" ROUND NON-CONDUCTIVE SHOWER DOWNLIGHT

LITEISTRY™

FEATURES

- 6" architectural LED downlight delivering 600 – 4000 lm
- Non-conductive dead-front trim
- Available with four regressed lens options
- Suitable for wet locations, covered ceiling
- IP65 rated (room side)
- Anti-microbial finish, optional
- 2700K - 5000K, 80+ and 90+ CRI options
- For New Construction (non-IC) applications
- Variety of dimming protocol options including 0-10V, DALI, DMX, Lutron Forward Phase and EcoSystem



RELATED PRODUCTS

- [Ø 3" LITEISTRY Family](#)
 [Ø 4" LITEISTRY Family](#)
 [Ø 6" LITEISTRY Family](#)

CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- New Construction (non-IC) applications
- 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
- 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
- Remote controller and battery pack option available

INSTALLATION

- Accommodates ceiling thickness up to 2" (SL, ML, HL); up to 1.25" (VL, XL)
- 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
- IP65 rated (room side) when properly installed per installation instructions
- Suitable for wet locations, covered ceiling. EMR: 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

WARRANTY

- 5 year warranty
- See [HLI Standard Warranty](#) for additional information

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



DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

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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 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.

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	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)

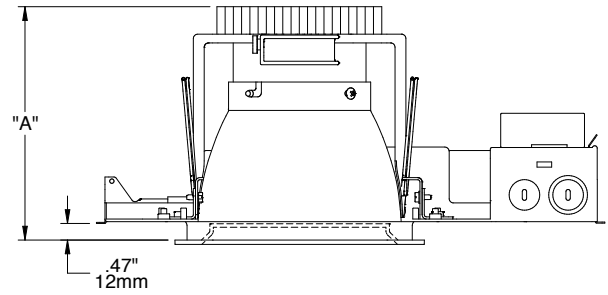
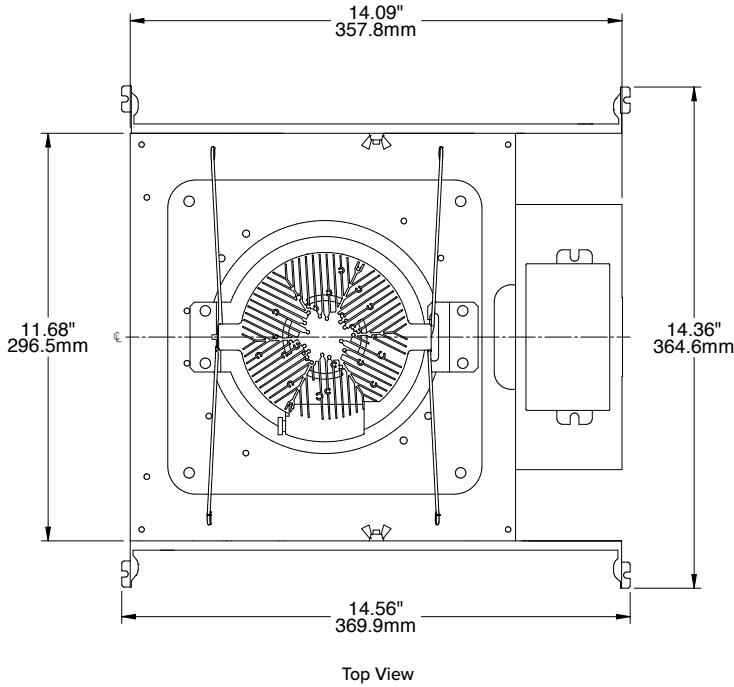
LITEISTRY 6" ROUND NON-CONDUCTIVE SHOWER DOWNLIGHT

DATE: _____ LOCATION: _____

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DIMENSIONS



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

LTR-6RD-H-SH

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LITEISTRY 6" ROUND NON-CONDUCTIVE SHOWER DOWNLIGHT

PHOTOMETRY

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

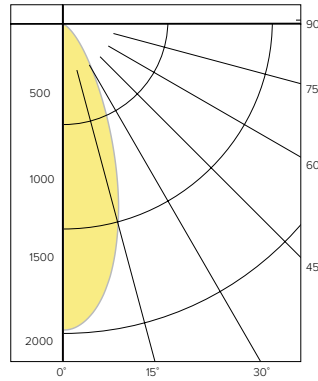
LUMINAIRE DATA

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

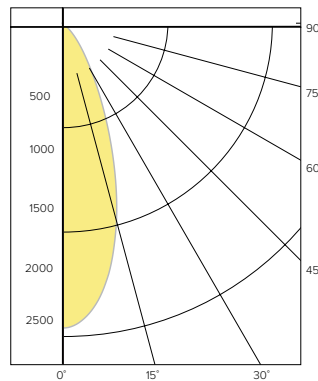
LUMINAIRE DATA

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

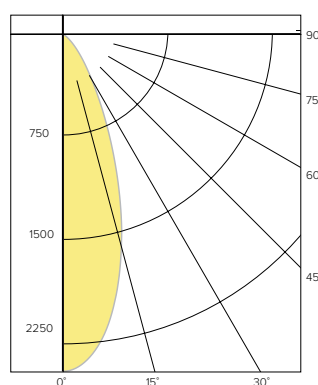
LUMINAIRE DATA

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

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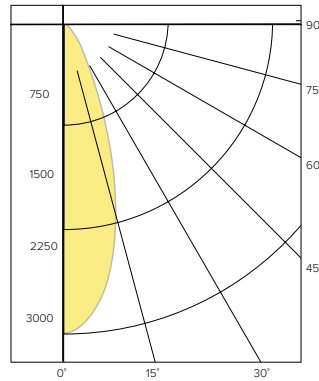
PHOTOMETRY CONTINUED

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

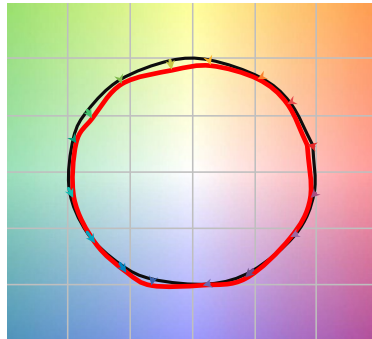
LUMEN MULTIPLIER

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



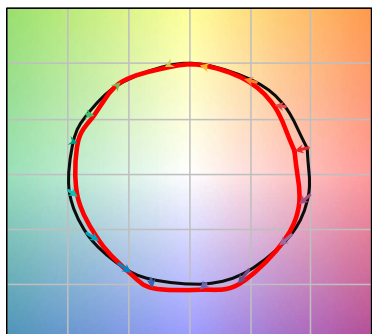
— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC 3500K, 90 CRI



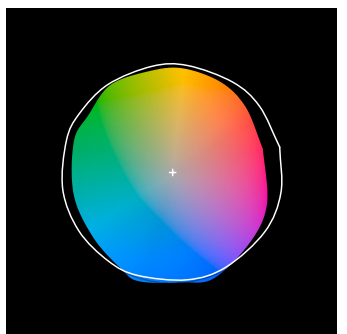
TEST RESULTS - 3500K		
Value	80+ CRI	90+ CRI
R _f	84	88
R _g	95	95
CCT (K)	3411	3419
D _{uv}	0.0015	0.0042
x	0.4120	0.4147
y	0.3974	0.4052
CIE R _a	84	93
CIE R _g	11	62

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.

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 DDTV	http://bit.ly/11jSvZg
DM1	Leviton AWRMG-7xx, AWSMG-7xx, AWSMT-7xx	http://bit.ly/1BJn2R9
EDM	Lutron	http://bit.ly/1vtjHAI
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

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