

LTR-3RD-RH (SH)

LITEISTRY 3" ROUND REMODEL NON-CONDUCTIVE SHOWER DOWNLIGHT

LITEISTRY™

FEATURES

- 3" architectural LED remodel downlight delivering 600–1500 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 Remodel (non-IC) install from below applications
- Standard with 0-10V to 1% dimming



RELATED PRODUCTS

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

SPECIFICATIONS

CONSTRUCTION

- Die cast and spun aluminum construction with separate driver compartment and compact junction box
- Installs from below the ceiling after drywall with pre-installed retention springs; No plaster frame required
- 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
- UL Class 2, inherent short circuit and overload protection, RoHS compliant
- Flicker free 0-10V dimming with 1% performance

INSTALLATION

- Accommodates ceiling thickness up to 2"
- Remodel 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.
- Approved for 4 (2 in/2 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	600-1500
Wattage Range	8-19
Efficacy Range (LPW)	33-35*
Reported Life (Hours)	L90 / >55,000
Input Current (mA)	67-158 (120V)

*Based on 35K, 80 CRI



DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

LTR-3RD-RH (SH)

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ORDERING GUIDE

Example: LTR-3RD-RH-SL10L-DM1-LTR-3RD-T-SHSL35K8-WTAML

CATALOG #

HOUSING

LTR-3RD-RH		Lumen Package		Lumen Output		Driver Options		Voltage	
Aperture/Shape/Function									
LTR-3RD-RH	3" Round Downlight Remodel Housing ¹	SL	Standard Lumen	06L	600	DM1	0-10V Dimming to 1%	Standard 120-277V	
				10L	1000				
				15L	1500				

TRIM

LTR-3RD-T		Trim Style		Lumen Package		CCT		CRI	
Aperture/Shape/Function									
LTR-3RD-T	3" Round Downlight Light Engine/Trim Assembly ¹	SH	Non-Conductive Shower Trim	SL	Standard Lumen	27K	2700K	8	80+CRI
						30K	3000K	9	90+CRI
						35K	3500K		
						40K	4000K		
						50K	5000K ²		

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		
		GML	Tempered glass, Micro-prism		
		ACL	Acrylic, Clear		

Accessories

- LiteGear** LiteGear® Inverter, 125VA–250VA
- LPS Series** LightPower Micro-Inverter, 20VA–55VA

Notes:

- 1 Remodel housing and trim ship together. Trim must be ordered with Housing.
- 2 5000K available in 80+ CRI only.
- 3 AM available with White only. Consult factory for other colors.

LTR-3RD-RH (SH)

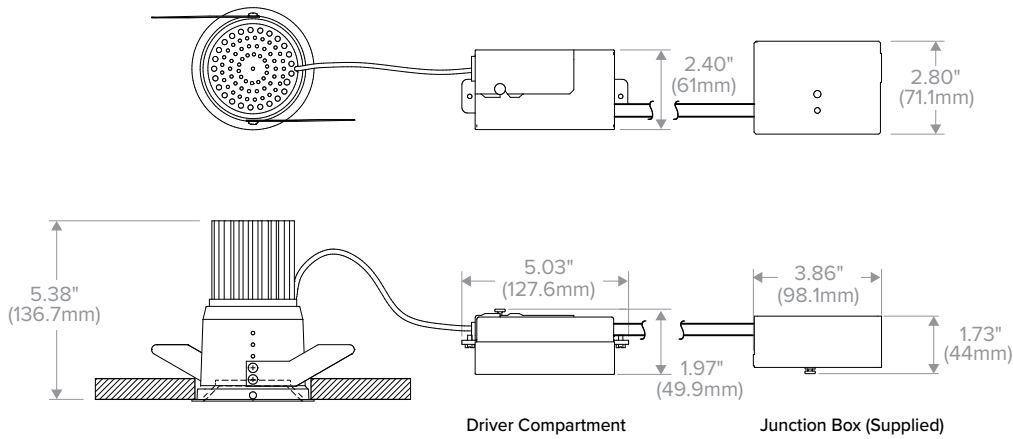
LITEISTRY 3" ROUND REMODEL NON-CONDUCTIVE SHOWER DOWNLIGHT

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	259	7.8	33
		Polycarbonate Micro-prism	248	7.8	32
		Tempered Glass Micro-prism	258	7.8	33
		Acrylic Clear	258	7.8	33
10L	1000	Acrylic Micro-prism	416	12.0	35
		Polycarbonate Micro-prism	399	12.0	33
		Tempered Glass Micro-prism	415	12.0	35
		Acrylic Clear	415	12.0	35
15L	1500	Acrylic Micro-prism	602	17.4	35
		Polycarbonate Micro-prism	578	17.4	33
		Tempered Glass Micro-prism	601	17.4	35
		Acrylic Clear	600	17.4	34

DIMENSIONS



Dimensional Data	
Aperture	2.88" (73.2mm)
Flange	Standard 3.90" (99.1mm)
Ceiling Cutout	Standard 3.38" (85.9mm)
Ceiling Thickness	0.50" to 2.00" (12.7mm to 50.8mm)

LTR-3RD-RH (SH) Remodel

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PHOTOMETRY

LTR-3RD-RH-SL15L-DM1 / LTR-3RD-T-SHSL35K8-WTAML

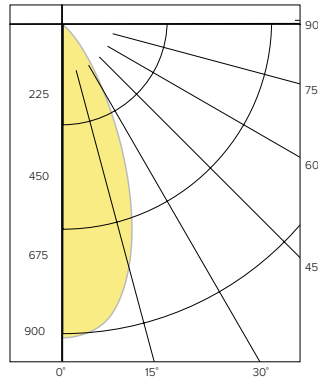
LUMINAIRE DATA

Test No.	R20.01601-C01
Description	1500 lm, Acrylic micro-prism lens, 3500K, 80 CRI
Delivered Lumens	602
Watts	17.4W
Efficacy	34.5
Mounting	Recessed
Spacing Criterion	0.7

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	553	91.8
0-60	597	99.2
0-90	602	100.0
0-180	602	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	913
5	899
15	725
25	389
35	144
45	42
55	10
65	4
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	15840
55°	4750
65°	2409
75°	560
85°	0

*Candela/Square Meter

LTR-3RD-RH-SL15L-DM1 / LTR-3RD-T-SHSL35K8-WTPML

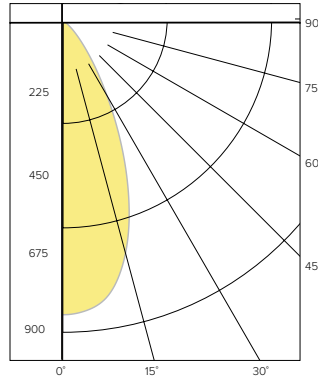
LUMINAIRE DATA

Test No.	R20.01603-C01
Description	1500 lm, Polycarbonate micro-prism lens, 3500K, 80 CRI
Delivered Lumens	578
Watts	17.4W
Efficacy	33.2
Mounting	Recessed
Spacing Criterion	0.7

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	525	90.8
0-60	571	98.7
0-90	578	100.0
0-180	578	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	856
5	844
15	683
25	371
35	139
45	43
55	12
65	5
75	2
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	16000
55°	5310
65°	3175
75°	1925
85°	663

*Candela/Square Meter

LTR-3RD-RH-SL15L-DM1 / LTR-3RD-T-SHSL35K8-WTGML

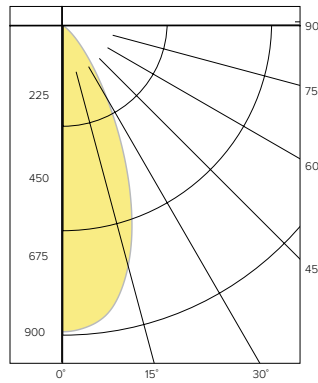
LUMINAIRE DATA

Test No.	R20.01604-C01
Description	1500 lm, Tempered Glass micro-prism lens, 3500K, 80 CRI
Delivered Lumens	602
Watts	17.4W
Efficacy	34.5
Mounting	Recessed
Spacing Criterion	0.7

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	546	90.7
0-60	594	98.7
0-90	602	100.0
0-180	602	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	887
5	872
15	707
25	387
35	147
45	46
55	12
65	5
75	2
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	16780
55°	5519
65°	3297
75°	1984
85°	684

*Candela/Square Meter

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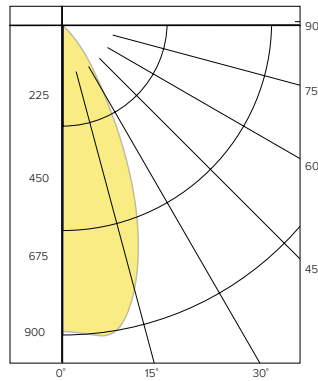
PHOTOMETRY CONTINUED

LTR-3RD-RH-SL15L-DM1 / LTR-3RD-T-SHSL35K8-WTACL

LUMINAIRE DATA

Test No.	R20.01606-C01
Description	1500 lm, Acrylic clear lens, 3500K, 80 CRI
Delivered Lumens	600
Watts	17.4W
Efficacy	34.4
Mounting	Recessed
Spacing Criterion	0.8

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	889
5	902
15	894
25	404
35	132
45	28
55	5
65	3
75	2
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	10200
55°	2278
65°	1758
75°	1511
85°	380

*Candela/Square Meter

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	568	94.6
0-60	596	99.3
0-90	600	100.0
0-180	600	100.0

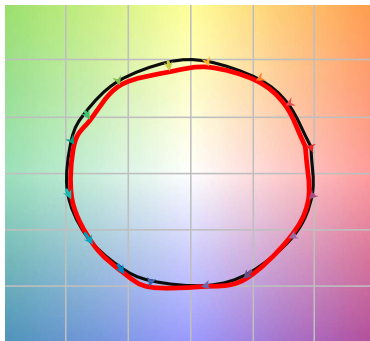
LUMEN MULTIPLIER

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



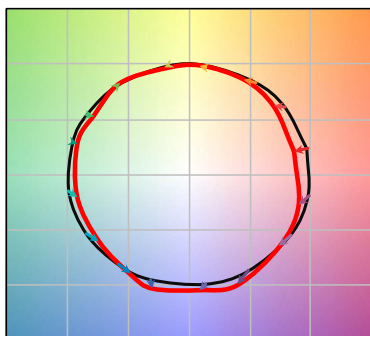
— Reference Illuminant — Test Source

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

WATTAGE DATA		
Lumen Output	Nominal Lumens	Wattage
06L	600	8
10L	1000	12
15L	1500	19

* Wattage may vary based on configuration and options selected

ADDITIONAL INFORMATION

DIMMING COMPATIBILITY CHART		
Dimming Driver	Manufacturer	Web Link
DM1	Lutron DDTV	http://bit.ly/11jSvZg
DM1	Leviton AWRMG-7xx, AWSMG-7xx, AWSMT-7xx	http://bit.ly/1BJn2R9

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