

# LTR-3RD-RH (SH)

LITEISTRY 3" ROUND REMODEL  
NON-CONDUCTIVE SHOWER DOWNLIGHT

DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_

TYPE: \_\_\_\_\_ PROJECT: \_\_\_\_\_

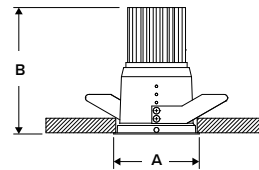
CATALOG #:

## LITEISTRY™



### FEATURES

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



Typical Dimensions and Weights			
Lumen Package	"A" Diameter Inches (mm)	"B" Height Inches (mm)	Weight lbs (kg)
06L - 15L	3.9 (99)	5.4 (137)	3.7 (1.7)

See DIMENSIONS section for complete details

### 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 (COB) LED with 2 SDCM
- Multiple CCTs, 80+ or 90+ CRI

#### ELECTRICAL (CONTINUED)

- Long LED life: L90 at >55,000 hours (TM-21)
- Universal voltage 120V–277V driver
- UL Class 2, inherent short circuit and overload protection
- 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
- NSF2 Splash/Non-Food Zone certified
- Suitable for wet locations, covered ceiling
- Approved for 4 (2 in/2 out) No. 12 AWG conductors rated for 90°C through wiring

#### CERTIFICATIONS (CONTINUED)

- 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	600-1500
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

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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		Housing Options		
Aperture/Shape/Function		Lumen Package		Lumen Output		Driver Options		Voltage		Housing Options		
LTR-3RD-RH	3" Round Downlight Remodel Housing <sup>1</sup>	SL	Standard Lumen	06L	600	DM1	0-10V Dimming to 1%	Standard 120-277V		BAA	Buy American Act (FAR 52.225-9) Compliant	
				10L	1000	DALI	DALI Dimming to 1%				TAA	Trade Agreements Act (FAR 52.225-11) Compliant
				15L	1500							

### TRIM

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

### TRIM CONTINUED

Trim Color		Lens Options		Options	
WT	White Trim and Flange	AML	Acrylic, Micro-prism	AM	Antimicrobial <sup>3</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

- 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.

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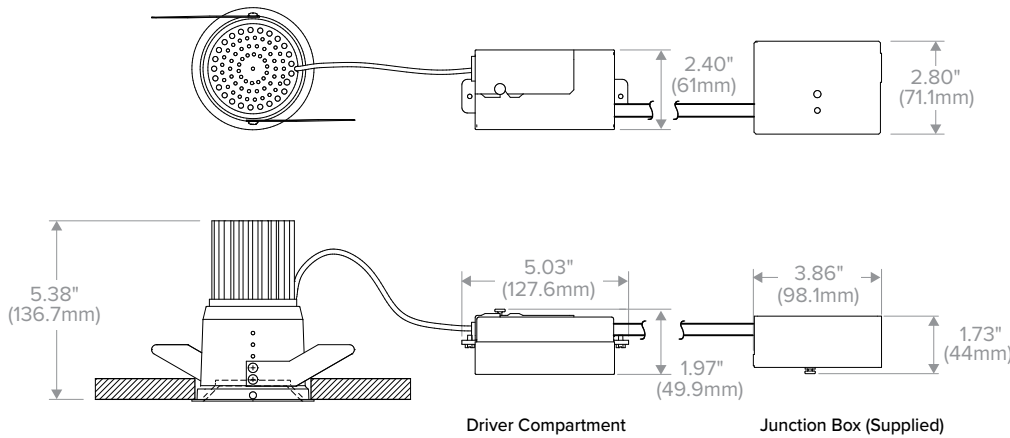
LITEISTRY 3" ROUND REMODEL  
NON-CONDUCTIVE SHOWER DOWNLIGHT

## 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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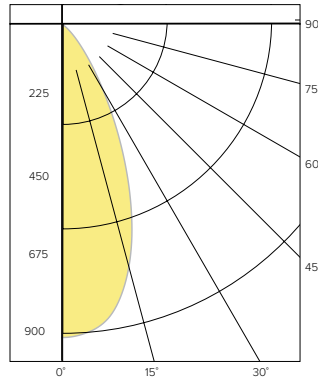
## PHOTOMETRY

### 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

#### 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

#### ZONAL LUMEN SUMMARY

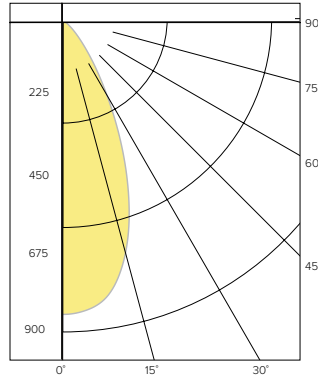
Zone	Lumens	% Luminaire
0-40	553	91.8
0-60	597	99.2
0-90	602	100.0
0-180	602	100.0

### 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

#### 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

#### ZONAL LUMEN SUMMARY

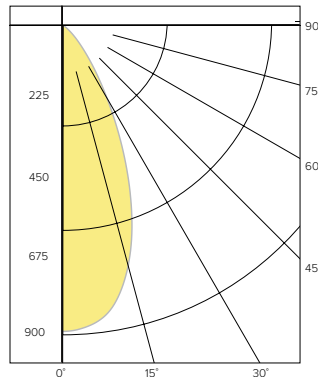
Zone	Lumens	% Luminaire
0-40	525	90.8
0-60	571	98.7
0-90	578	100.0
0-180	578	100.0

### 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

#### 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

#### 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

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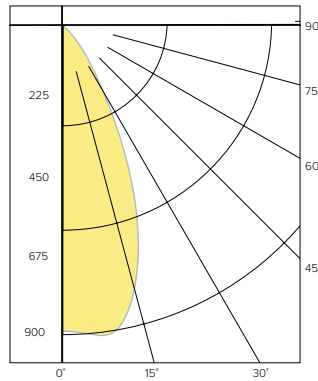
## PHOTOMETRY CONTINUED

### 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

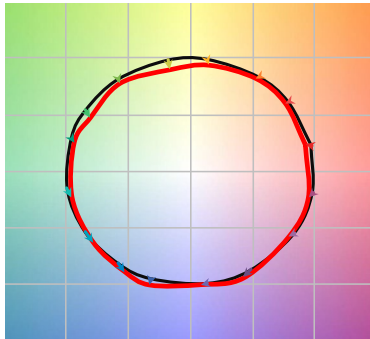
#### LUMEN MULTIPLIER

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



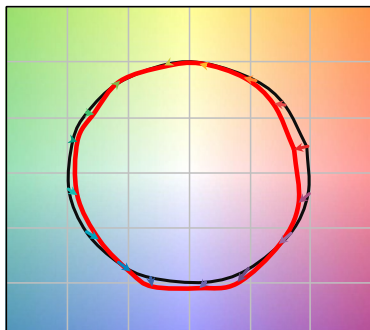
— Reference Illuminant — Test Source

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



TEST RESULTS - 3500K		
Value	80+ CRI	90+ CRI
R <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>9</sub>	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

## ADDITIONAL INFORMATION

### Dimming Compatibility

For more details and recommended dimmer list, see Dimming Compatibility Information on [currentlighting.com/prescolite](http://currentlighting.com/prescolite).

### 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.