

# LTR-3SQD-RH (SH)

LITEISTRY 3" SQUARE REMODEL NON-CONDUCTIVE SHOWER DOWNLIGHT

LITEISTRY™

## FEATURES

- 3" architectural LED 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 panelized 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
- 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 thicknesses up to 1.25"
- 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)	40-42*
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-3SQD-RH-SL10L-DM1-LTR-3SQD-T-SHSL35K8-WTAML

CATALOG # \_\_\_\_\_

### HOUSING

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

### TRIM

LTR-3SQD-T		Trim Style		Lumen Package		CCT		CRI	
Aperture/Shape/Function									
LTR-3SQD-T	3" Square 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	Anitmicrobial <sup>3</sup>
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 (WT) only. Consult factory for other colors.

# LTR-3SQD-RH (SH)

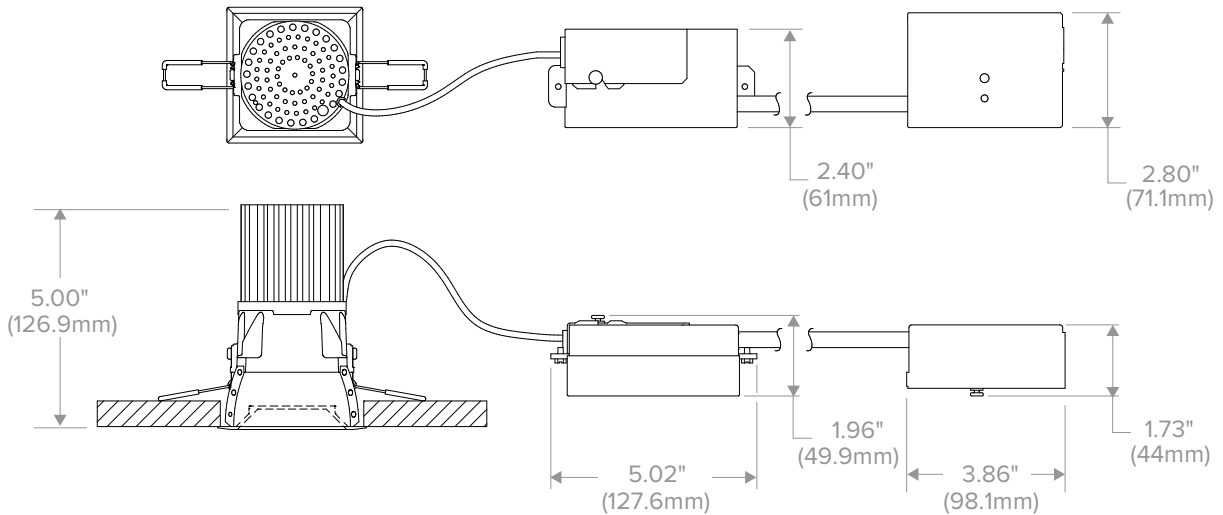
LITEISTRY 3" SQUARE REMODEL NON-CONDUCTIVE SHOWER DOWNLIGHT

## 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	312	7.8	40
		Polycarbonate Micro-prism	301	7.8	39
		Tempered Glass Micro-prism	312	7.8	40
		Acrylic Clear	315	7.8	40
10L	1000	Acrylic Micro-prism	502	12.0	42
		Polycarbonate Micro-prism	485	12.0	40
		Tempered Glass Micro-prism	502	12.0	42
		Acrylic Clear	507	12.0	42
15L	1500	Acrylic Micro-prism	726	17.6	41
		Polycarbonate Micro-prism	702	17.5	40
		Tempered Glass Micro-prism	727	17.5	41
		Acrylic Clear	734	17.5	42

## DIMENSIONS



LTR-3SQD-H-SH

Dimensional Data	
Aperture	2.88" SQ. (73.2mm)
Flange	Standard 3.77" SQ. (95.7mm)
Ceiling Cutout	Standard 3.31" SQ. (84.1mm)
Ceiling Thickness	0.50" to 1.25" (12.7mm to 31.8mm)

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## PHOTOMETRY

### LTR-3SQD-RH-SL15L-DM1 / LTR-3SQD-T-SHSL35K8-WTAML

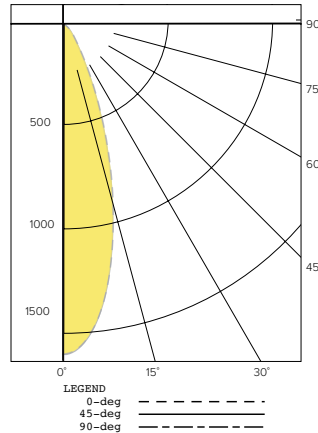
#### LUMINAIRE DATA

Test No.	R20.01593-C01
Description	1500 lm, Acrylic Micro-prism lens, 3500K, 80 CRI
Delivered Lumens	727
Watts	17.6W
Efficacy	41.4
Mounting	Recessed
Spacing Criterion	0.5

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	643	88.6
0-60	708	97.5
0-90	727	100.0
0-180	727	100.0

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	1697	1697	1697
5	1585	1587	1586
15	916	953	933
25	320	387	343
35	102	127	117
45	47	56	57
55	20	28	23
65	8	12	9
75	4	5	4
85	2	2	2
90	0	0	0

### LTR-3SQD-RH-SL15L-DM1 / LTR-3SQD-T-SHSL35K8-WTPML

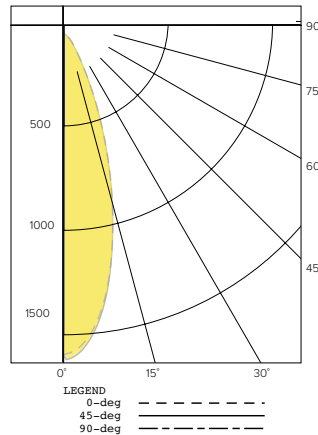
#### LUMINAIRE DATA

Test No.	R20.01596-C01
Description	1500 lm, Polycarbonate Micro-prism lens, 3500K, 80 CRI
Delivered Lumens	702
Watts	17.5W
Efficacy	40
Mounting	Recessed
Spacing Criterion	0.5

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	622	88.6
0-60	685	97.6
0-90	702	100.0
0-180	702	100.0

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	1614	1614	1614
5	1526	1508	1510
15	876	919	909
25	307	379	341
35	98	125	114
45	45	54	55
55	19	27	22
65	7	11	8
75	4	5	4
85	1	2	2
90	1	2	1

### LTR-3SQD-RH-SL15L-DM1 / LTR-3SQD-T-SHSL35K8-WTGML

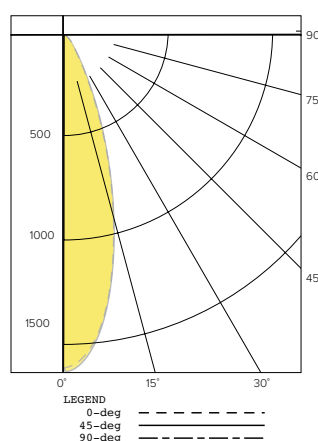
#### LUMINAIRE DATA

Test No.	R20.01597-C01
Description	1500 lm, Tempered Glass Micro-prism lens, 3500K, 80 CRI
Delivered Lumens	727
Watts	17.5W
Efficacy	41.5
Mounting	Recessed
Spacing Criterion	0.5

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	644	88.6
0-60	709	97.5
0-90	727	100.0
0-180	727	100.0

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	1687	1687	1687
5	1593	1576	1577
15	930	955	925
25	338	390	329
35	107	127	108
45	48	55	54
55	21	28	22
65	8	12	8
75	4	5	4
85	2	2	2
90	1	2	1

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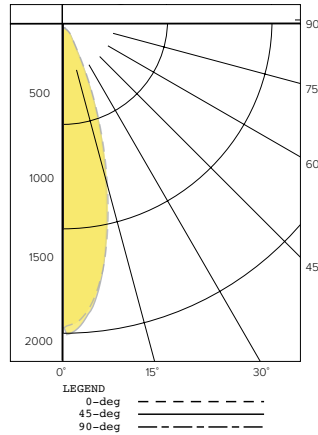
## PHOTOMETRY CONTINUED

### LTR-3SQD-RH-SL15L-DM1 / LTR-3SQD-T-SHSL35K8-WTACL

#### LUMINAIRE DATA

Test No.	R20.01598-C01
Description	1500 lm, Acrylic Clear lens, 3500K, 80 CRI
Delivered Lumens	734
Watts	17.5W
Efficacy	41.9
Mounting	Recessed
Spacing Criterion	0.5

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	1966	1966	1966
5	1863	1830	1832
15	963	1049	1003
25	263	402	294
35	85	104	94
45	44	49	53
55	15	23	18
65	5	9	6
75	3	4	4
85	1	2	2
90	1	2	1

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	663	90.3
0-60	720	98.1
0-90	734	100.0
0-180	734	100.0

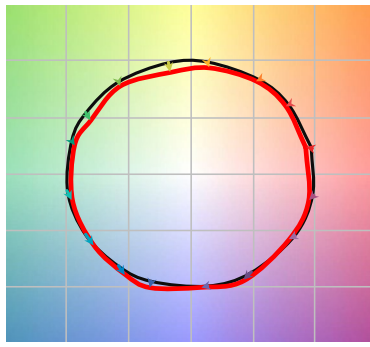
#### LUMEN MULTIPLIER

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.

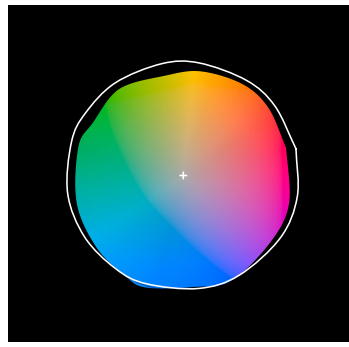
## TM-30 DATA

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



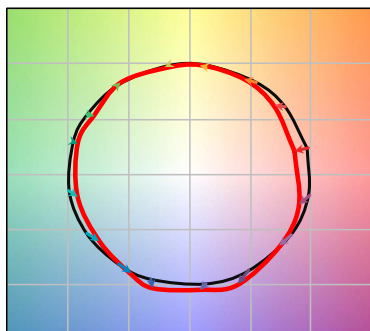
— Reference Illuminant — Test Source

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



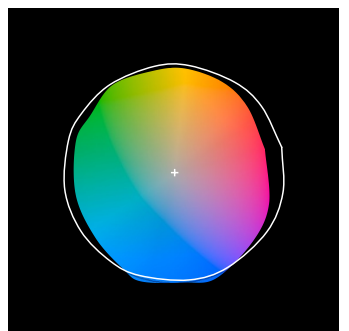
TEST RESULTS - 3500K		
Value	80+ CRI	90+ CRI
$R_f$	84	88
$R_g$	95	95
CCT (K)	3411	3419
$D_{uv}$	0.0015	0.0042
x	0.4120	0.4147
y	0.3974	0.4052
CIE $R_a$	84	93
CIE $R_g$	11	62

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



— Reference Illuminant — Test Source

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





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

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

CATALOG #: \_\_\_\_\_

# LTR-3SQD-RH (SH)

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## ELECTRICAL DATA

DRIVER DATA	
Input Voltage	120-277 V
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	<a href="http://bit.ly/11jSvZg">http://bit.ly/11jSvZg</a>
DM1	Leviton AWRMG-7xx, AWSMG-7xx, AWSMT-7xx	<a href="http://bit.ly/1BJn2R9">http://bit.ly/1BJn2R9</a>

### Central Inverters

For full fixture output in back-up mode, we recommend you visit [www.dual-lite.com](http://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](http://www.dual-lite.com/products/litegear_lg_series)

LPS Series: [www.dual-lite.com/products/lps](http://www.dual-lite.com/products/lps)