

LTR-3SQD-RH

LITEISTRY 3" SQUARE REMODEL DOWNLIGHT

LITEISTRY™

FEATURES

- 3" architectural LED downlight delivering 600–2000 lm
- Five beam distributions from 0.4 to 1.2 Spacing Criteria
- Quiet reflector appearance with 50° optical cutoff
- 2700K–5000K, 80+ and 90+ CRI options
- For remodel (non-IC) install from below applications
- Standard with 0-10V to 1% dimming



RELATED PRODUCTS

- ∅ [LTR-3SQD New Construction](#)
- ∅ [LTR-3SQDPH SpectraSync](#)
- ∅ [LTR-3SQDPH PowerHUBB](#)
- ∅ [3" LITEISTRY Family](#)
- ∅ [4" LITEISTRY Family](#)
- ∅ [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

- Visually pleasing 50° cutoff to source and source image
- Optical grade silicone lens integral to light engine
- The light distribution is free of distracting bright spots or pixelation and the perimeter has a smooth transition
- High purity four-panel aluminum reflector, self-flanged
- Flush mount flange option with mud-in ring available
- Large selection of anodized finishes and colors
- Painted cones and flange options available

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
- Suitable for wet locations, covered ceiling.
- Approved for 4 (2 in/2 out) No. 12AWG conductors rated for 90°C through wiring
- ENERGY STAR® certified models available. (See list and additional information on [page 7](#))
- This product qualifies as a “designated country construction material” per FAR 52.225-11 Buy American-Construction. Materials under Trade Agreements effective 6/6/2020. See [Buy American Solutions](#).

WARRANTY

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

KEY DATA	
Lumen Range	600–2000
Wattage Range	8–25
Efficacy Range (LPW)	76–82*
Reported Life (Hours)	L90 / 55,000
Input Current (mA)	67-208 (120V)

* Based on Specular, 35K, 80 CRI



LTR-3SQD-RH

LITEISTRY 3" SQUARE REMODEL DOWNLIGHT

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

ORDERING GUIDE

Example: LTR-3SQD-RH-SL10L-DM1-LTR-3SQD-T-SL35K8MD-SS

CATALOG # _____

HOUSING

LTR-3SQD-RH		Lumen Package		Lumen Output		Driver Options		Voltage	
Aperture/Shape/Function									
LTR-3SQD-RH	3" Square Downlight Remodel Housing	SL	Standard Lumen	06L	600	DM1	0-10V Dimming to 1%	Standard	120-277V
				10L	1000				
				15L	1500				
		ML	Medium Lumen	20L	2000				

TRIM

LTR-3SQD-T		Lumen Package		CCT		CRI		Distribution		Reflector Finish			
Aperture/Shape/Function													
LTR-3SQD-T	3" Square Downlight Light Engine/Trim Assembly	SL	Standard Lumen	27K	2700K	8	80+CRI	VNR	Very Narrow (0.4 SC/24") ⁴	<i>Finish not applicable with painted reflectors (WC or BC)</i> S Specular SS Semi-Specular VS Softglow® VSS SoftSheen™			
				30K	3000K							9	90+CRI
				35K	3500K								
				40K	4000K								
				50K	5000K ¹								
ML	Medium Lumen	30K	3000K	NR	Narrow (0.6 SC/38")								
				MD	Medium (0.8 SC/48")								
				WD	Wide (1.0 SC/62")								
				XW	Extra Wide (1.2 SC/74")								

TRIM CONTINUED

Reflector Color		Flange Color Options		Reflector Options	
	Standard Clear		Standard matches reflector color	AM	Antimicrobial Coating ³
CG	Champagne Gold	WT	White Flange ²		
BL	Black	BT	Black Flange ²		
LW	Light Wheat				
PW	Pewter				
WC	Painted White Cone and Flange				
BC	Painted Black Cone and Flange				

Notes:

- 5000K available in 80+ CRI only
- WT not needed for WC; BT not needed for BC.
- AM available with WC or Specular Clear (S or SWT). Consult factory for other colors.
- VNR available up to 15L. Not available with IC or CP options.

Accessories

- FMR3-SQ** Flush Mount Flange Mud-In Ring, 3" Square
- LiteGear** LiteGear® Inverter, 125VA-250VA
- LPS Series** LightPower Micro-Inverter, 20VA-55VA
- MOR3-SQ-WH** Metal Oversized Ring, 3" Square, White (6.75" outer dimension)
- MOR3-SQ-BL** Metal Oversized Ring, 3" Square, Black (6.75" outer dimension)

LTR-3SQD-RH

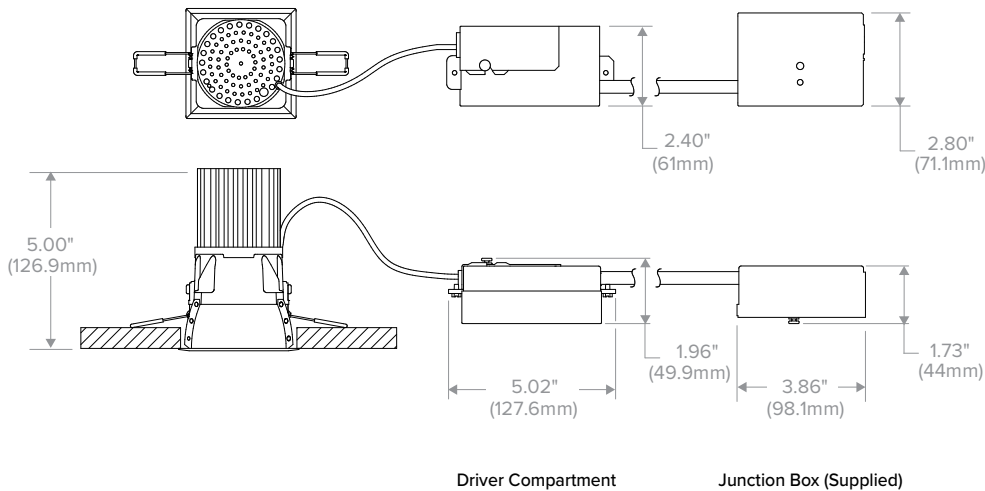
LITEISTRY 3" SQUARE REMODEL DOWNLIGHT

PERFORMANCE DATA TABLE

Performance data provided below is for 3500K, 80 CRI with Specular Clear reflector finish/color

Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
06L	600	Very Narrow	635	7.9	81
		Narrow	714	7.8	92
		Medium	685	7.8	88
		Wide	656	7.8	84
		Extra Wide	614	7.8	79
10L	1000	Very Narrow	998	12.4	81
		Narrow	1149	11.9	97
		Medium	1103	11.9	93
		Wide	1056	11.9	89
		Extra Wide	988	11.9	83
15L	1500	Very Narrow	1348	18.2	74
		Narrow	1662	18.6	89
		Medium	1596	18.6	86
		Wide	1528	18.6	82
		Extra Wide	1429	18.6	77
20L	2000	Narrow	2060	25.0	82
		Medium	2018	25.0	81
		Wide	1975	25.0	79
		Extra Wide	1910	25.0	76

DIMENSIONS



Dimensional Data		
Aperture	2.88" SQ. (73.2mm)	
Flange	Standard	3.62" SQ. (91.9mm)
	Flush Mount	3.62" SQ. (91.9mm)
Ceiling Cutout	Standard	3.31" SQ. (84.1mm)
	Flush Mount	3.94" SQ (100.1mm)
Ceiling Thickness	0.50" to 1.25" (12.7mm to 31.8mm)	

LTR-3SQD-RH Remodel

LTR-3SQD-RH

LITEISTRY 3" SQUARE REMODEL DOWNLIGHT

PHOTOMETRY

LTR-3SQD-RH-SL15L-DM1 / LTR-3SQD-T-SL35K8VNR-S

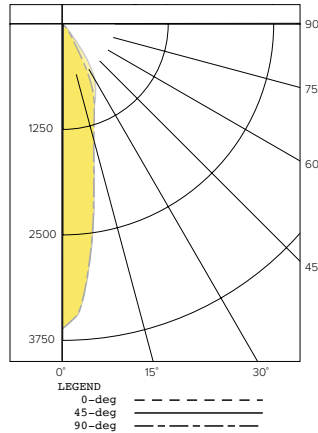
LUMINAIRE DATA

Test No.	R20.01196-02
Description	1500 lm, Very Narrow, 3500K, 80 CRI
Delivered Lumens	1348
Watts	18.2W
Efficacy	74
Mounting	Recessed
Spacing Criterion	0.4
Beam Angle (FWHM)	24

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1243	92.2
0-60	1339	99.3
0-90	1348	100.0
0-180	1348	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	3611	3611	3611
5	3120	3115	3105
15	1431	1399	1415
25	809	915	818
35	191	492	188
45	78	97	78
55	26	28	27
65	5	6	6
75	2	2	2
85	1	1	1
90	0	0	0

LTR-3SQD-RH-ML20L-DM1 / LTR-3SQD-T-ML35K8NR-S

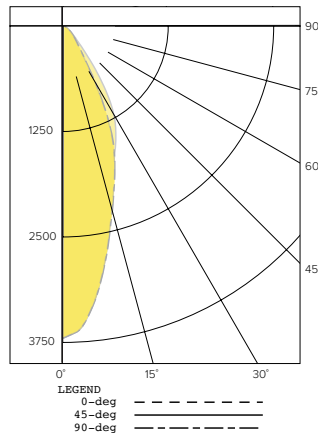
LUMINAIRE DATA

Test No.	R19.00953-C02
Description	2000 lm, Narrow, 3500K, 80 CRI
Delivered Lumens	2060
Watts	25.0W
Efficacy	82.4
Mounting	Recessed
Spacing Criterion	0.6
Beam Angle (FWHM)	38

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1861	90.4
0-60	2045	99.3
0-90	2060	100.0
0-180	2060	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	3722	3722	3722
5	3454	3456	3462
15	2243	2200	2258
25	1270	1475	1294
35	338	738	350
45	151	180	157
55	53	57	60
65	7	9	7
75	3	4	3
85	1	1	1
90	0	0	0

LTR-3SQD-RH-ML20L-DM1 / LTR-3SQD-T-ML35K8MD-S

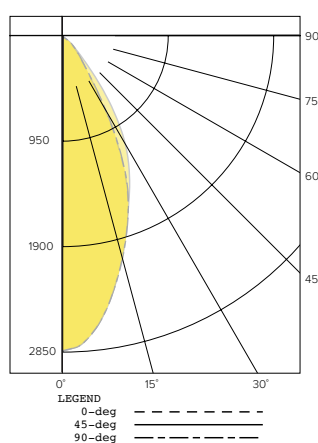
LUMINAIRE DATA

Test No.	R19.00954-C02
Description	2000 lm, Medium, 3500K, 80 CRI
Delivered Lumens	2018
Watts	25.0W
Efficacy	80.7
Mounting	Recessed
Spacing Criterion	0.7
Beam Angle (FWHM)	48

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1799	89.2
0-60	2003	99.3
0-90	2018	100.0
0-180	2018	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	2842	2842	2842
5	2728	2727	2728
15	2080	2062	2083
25	1310	1432	1324
35	410	772	422
45	165	202	171
55	58	63	65
65	7	10	8
75	3	4	4
85	1	1	1
90	0	0	0

LTR-3SQD-RH

LITEISTRY 3" SQUARE REMODEL DOWNLIGHT

PHOTOMETRY CONTINUED

LTR-3SQD-RH-ML20L-DM1 / LTR-3SQD-T-ML35K8WD-S

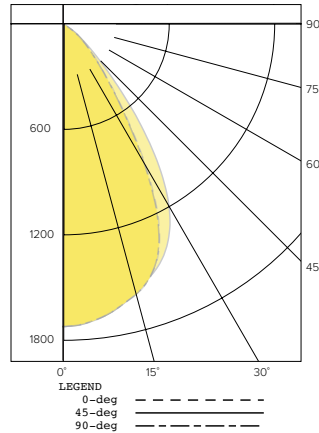
LUMINAIRE DATA

Test No.	R19.01044-C02
Description	2000 lm, Wide, 3500K, 80 CRI
Delivered Lumens	1975
Watts	25.0W
Efficacy	78.9
Mounting	Recessed
Spacing Criterion	1.0
Beam Angle (FWHM)	62

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1671	96.3
0-60	1956	99.8
0-90	1975	100.0
0-180	1975	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	1730	1730	1730
5	1713	1711	1711
15	1605	1594	1602
25	1305	1403	1292
35	600	914	580
45	236	304	224
55	87	84	75
65	10	12	9
75	4	5	4
85	1	1	1
90	0	0	0

LTR-3SQD-RH-ML20L-DM1 / LTR-3SQD-T-ML35K8XW-S

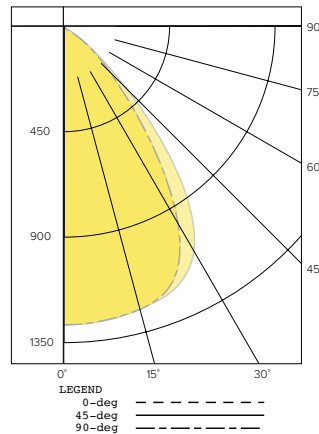
LUMINAIRE DATA

Test No.	R19.00956-C02
Description	2000 lm, Extra Wide, 3500K, 80 CRI
Delivered Lumens	1910
Watts	25.0W
Efficacy	76.3
Mounting	Recessed
Spacing Criterion	1.2
Beam Angle (FWHM)	74

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1519	79.5
0-60	1889	98.9
0-90	1910	100.0
0-180	1910	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	1275	1275	1275
5	1273	1273	1273
15	1252	1253	1253
25	1149	1199	1150
35	740	944	735
45	307	412	301
55	102	108	92
65	11	14	10
75	5	5	5
85	1	1	1
90	0	0	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.

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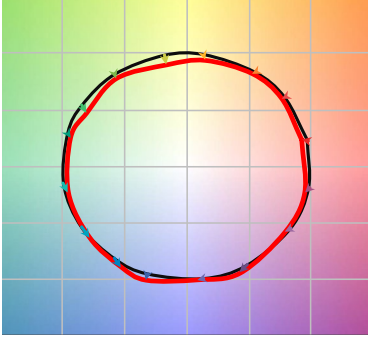
DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

TM-30 DATA

COLOR VECTOR GRAPHIC
3500K, 90 CRI



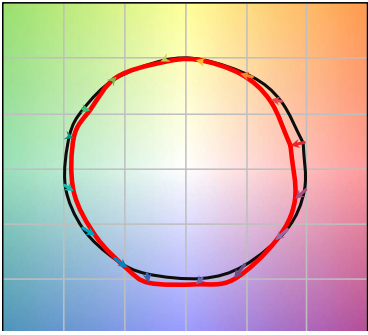
— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
3500K, 90 CRI



TEST RESULTS - 3500K		
Value	80+ CRI	90+ CRI
R_t	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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DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

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
20L	2000	25

* 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

ENERGY STAR® Certified Models

For a list of certified models, click on the ENERGY STAR® MODELS link or visit www.energystar.gov.