

LTR-3SQD-RH

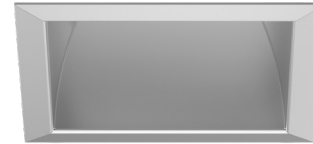
LITEISTRY 3" SQUARE REMODEL DOWNLIGHT

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

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

LITEISTRY™



SERVICE PROGRAMS

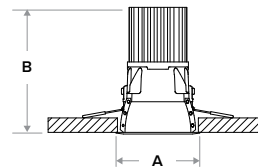
STOCK



(-BAA Option)



(-TAA Option)



Typical Dimensions and Weights			
Lumen Package	"A" Width (SQ) Inches (mm)	"B" Height Inches (mm)	Weight lbs (kg)
06L - 20L	3.6 (92)	5.0 (127)	3.3 (1.5)

See DIMENSIONS section for complete details

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
- The light distribution is free of distracting bright spots or pixelation and the perimeter has a smooth transition
- Optical grade silicone lens integral to light engine
- 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
- Flicker free 0–10V dimming with 1% performance

INSTALLATION

- Accommodates ceiling thickness 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. 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	600-2000
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

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Gray Shading = Service Program **STOCK**

ORDERING GUIDE

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

CATALOG #

HOUSING

LTR-3SQD-RH													
Aperture/Shape/Function		Lumen Package		Lumen Output		Driver Options		Voltage		Housing Options			
LTR-3SQD-RH	3" Square Downlight Remodel Housing	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%
				15L	1500								
		ML	Medium Lumen	20L	2000					TAA	Trade Agreements Act (FAR 52.225-11) Compliant		

TRIM

LTR-3SQD-T									
Aperture/Shape/Function		Lumen Package		CCT		CRI		Distribution	
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
		ML	Medium Lumen	30K	3000K	9	90+CRI	NR	Narrow (0.6 SC/38°)
				35K	3500K			MD	Medium (0.8 SC/48°)
				40K	4000K			WD	Wide (1.0 SC/62°)
				50K	5000K ¹			XW	Extra Wide (1.2 SC/74°)

TRIM CONTINUED

Reflector Finish	Reflector Color	Flange Color Options	Reflector Options
Finish not applicable with painted reflectors (WC or BC)	Standard Clear	Standard matches reflector color	AM Antimicrobial Coating ³
S Specular	CG Champagne Gold	WT White Flange ²	BAA Buy American Act (FAR 52.225-9) Compliant
SS Semi-Specular	BL Black	BT Black Flange ²	TAA Trade Agreements Act (FAR 52.225-11) Compliant
VS Softglow®	LW Light Wheat		
	PW Pewter		
	WC Painted White Cone and Flange		
	BC Painted Black Cone and Flange		

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)

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.

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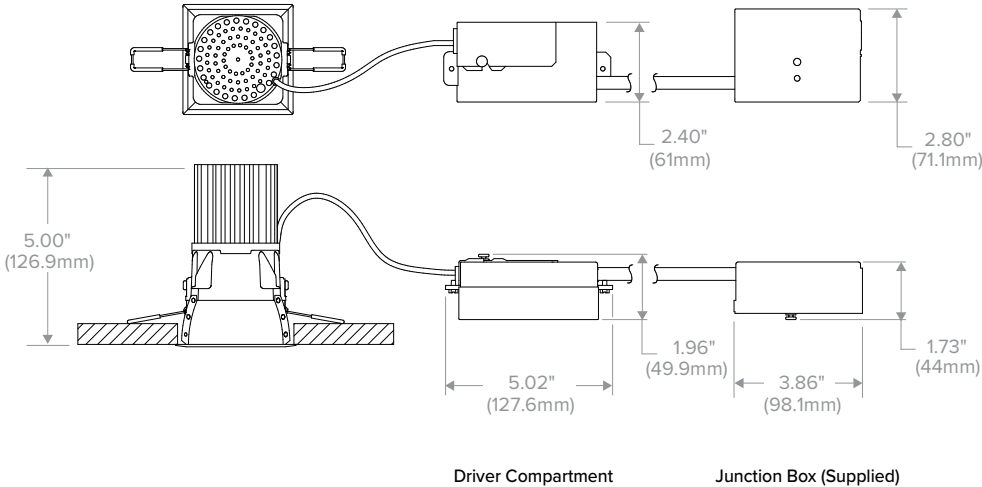
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PERFORMANCE DATA TABLE

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

LITEISTRY 3" SQUARE REMODEL DOWNLIGHT

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PHOTOMETRY

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

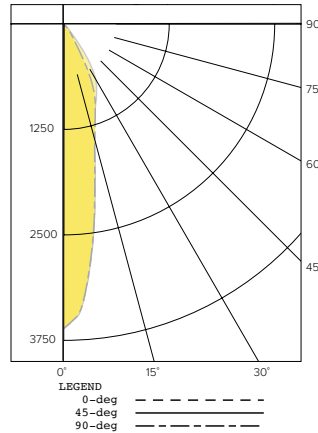
LUMINAIRE DATA

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

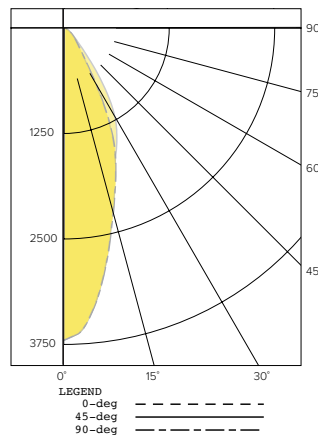
LUMINAIRE DATA

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

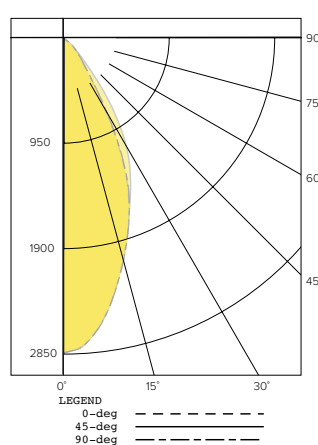
LUMINAIRE DATA

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

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PHOTOMETRY CONTINUED

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

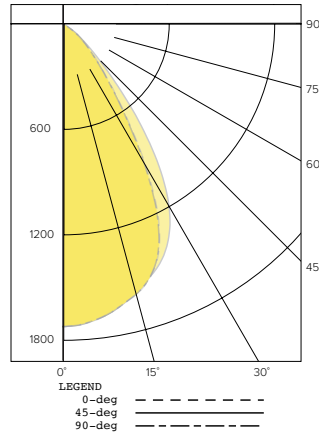
LUMINAIRE DATA

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

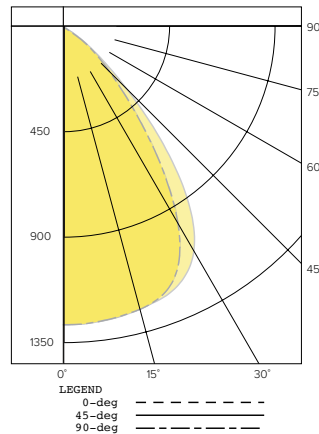
LUMINAIRE DATA

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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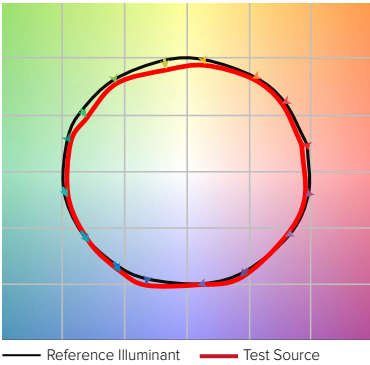
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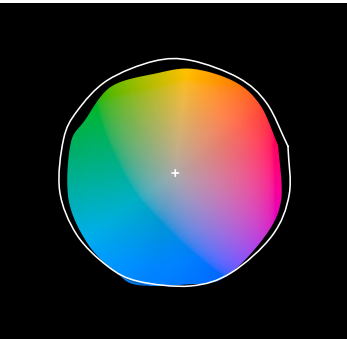
CATALOG #:

TM-30 DATA

COLOR VECTOR GRAPHIC
3500K, 90 CRI

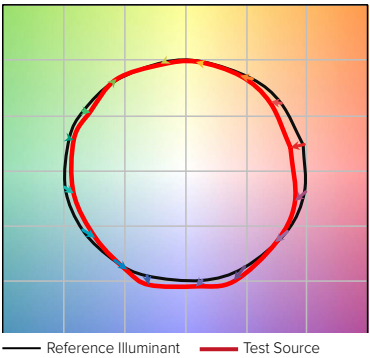


COLOR DISTORTION GRAPHIC
3500K, 90 CRI

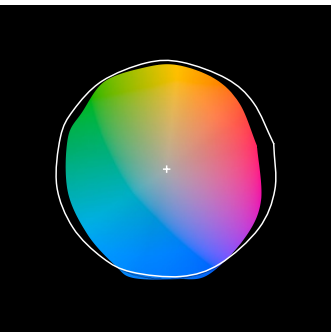


TEST RESULTS - 3500K		
Value	80+ CRI	90+ CRI
R _f	84	88
R _g	95	95
CCT (K)	3411	3419
D _{uv}	0.0015	0.0042
x	0.4120	0.4147
y	0.3974	0.4052
CIE R _a	84	93
CIE R _g	11	62

COLOR VECTOR GRAPHIC
3500K, 80 CRI



COLOR DISTORTION GRAPHIC
3500K, 80 CRI



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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

ADDITIONAL INFORMATION

Dimming Compatibility

For more details and recommended dimmer list, see Dimming Compatibility Information on currentlighting.com/prescolite.

Central Inverters

For full fixture output in back-up mode, we recommend you visit 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.