

LTR-3RD-RH

LITEISTRY 3" ROUND REMODEL DOWNLIGHT

LITEISTRY™

FEATURES

- 3" architectural LED remodel downlight delivering 600–2000 lm
- Five beam distributions from 0.3 to 1.1 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

Ø [LTR-3RD New Construction](#)

Ø [LTR-3RD SpectraSync](#)

Ø [LTR-3RDPH PowerHUBB](#)

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

- 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 spun 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 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
- 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)	77-84*
Reported Life (Hours)	L90 / >55,000
Input Current (mA)	67-208 (120V)

*Based on Specular, 35K, 80 CRI



LTR-3RD-RH

LITEISTRY 3" ROUND REMODEL DOWNLIGHT

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

ORDERING GUIDE

Example: LTR-3RD-RH-SL10L-DM1-LTR-3RD-T-SL35K8MD-S

CATALOG #

HOUSING

LTR-3RD-RH		Lumen Package		Lumen Output		Driver Options		Voltage	
Aperture/Shape/Function									
LTR-3RD-RH	3" Round 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-3RD-T		Lumen Package		CCT		CRI		Distribution	
Aperture/Shape/Function									
LTR-3RD-T	3" Round Downlight Light Engine/Trim Assembly	SL	Standard Lumen	27K	2700K	8	80+CRI	VNR	Very Narrow (0.3 SC/20°) ⁴
		ML	Medium Lumen	30K	3000K	9	90+CRI	NR	Narrow (0.4 SC/29°)
				35K	3500K			MD	Medium (0.7 SC/53°)
				40K	4000K			WD	Wide (0.9 SC/59°)
				50K	5000K ¹			XW	Extra Wide (1.1 SC/66°)

TRIM CONTINUED

Reflector Finish		Reflector Color		Flange Color Options		Reflector Options	
<i>Finish not applicable with painted reflectors (WC or BC)</i>		<i>Standard Clear</i>		<i>Standard matches reflector color</i>		AM Antimicrobial Coating ³	
S	Specular	CG	Champagne Gold	WT	White Flange ²		
SS	Semi-Specular	BL	Black	BT	Black Flange ²		
MFC	American Matte™	LW	Light Wheat				
VS	Softglow®	PW	Pewter				
VSS	SoftSheen™	WC	Painted White Cone and Flange				
		BC	Painted Black Cone and Flange				

Accessories

- FMR3-R** Flush Mount Mud-In Ring, 3" Round
- LiteGear** LiteGear® Inverter, 125VA–250VA
- LPS Series** LightPower Micro-Inverter, 20VA–55VA
- MOR3-R-WH** Metal Oversized Ring, 3" Round, White (6.75" outside diameter)
- MOR3-R-BL** Metal Oversized Ring, 3" Round, Black (6.75" outside diameter)

Notes:

- 1 5000K available in 80+ CRI only.
- 2 WT not needed for WC, BT not needed for BC.
- 3 AM available with WC or Specular Clear (S or SWT). Consult factory for other colors.
- 4 VNR available up to 15L.

LTR-3RD-RH

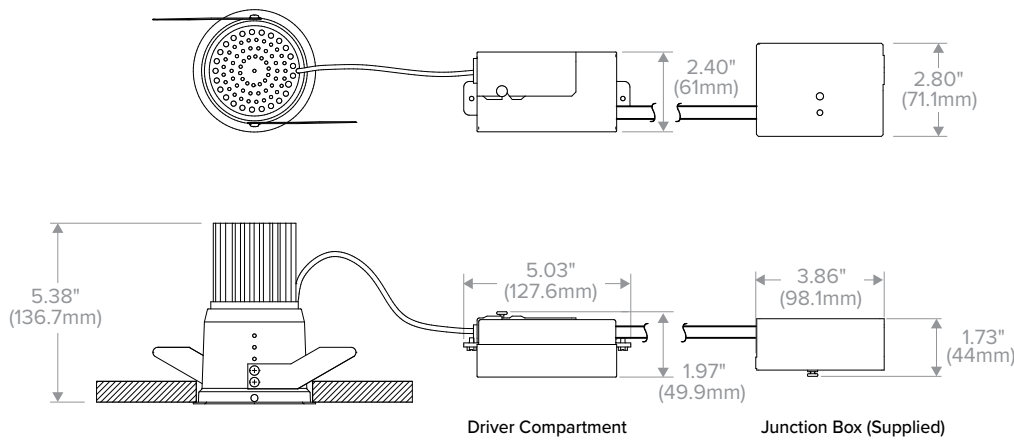
LITEISTRY 3" ROUND REMODEL DOWNLIGHT

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	689	8.0	87
		Narrow	744	7.8	95
		Medium	641	7.8	82
		Wide	663	7.8	85
		Extra Wide	636	7.8	82
10L	1000	Very Narrow	1099	12.6	87
		Narrow	1198	11.9	101
		Medium	1032	11.9	87
		Wide	1067	11.9	90
		Extra Wide	1024	11.9	86
15L	1500	Very Narrow	1502	18.6	81
		Narrow	1733	18.6	93
		Medium	1493	18.6	80
		Wide	1544	18.6	83
		Extra Wide	1482	18.6	80
20L	2000	Narrow	2103	25.1	84
		Medium	1952	25.1	78
		Wide	1985	25.1	79
		Extra Wide	1945	25.1	77

DIMENSIONS



Dimensional Data		
Aperture	2.88" (73.2mm)	
Flange: Standard & Flush Mount	3.68" (93.5mm)	
Ceiling Cutout:	Standard	3.38" (85.9mm)
	Flush Mount	4.00" (101.6mm)
Ceiling Thickness:	0.50" to 2" (12.7mm to 50.8mm)	

LTR-3RD-RH Remodel

LTR-3RD-RH

LITEISTRY 3" ROUND REMODEL DOWNLIGHT

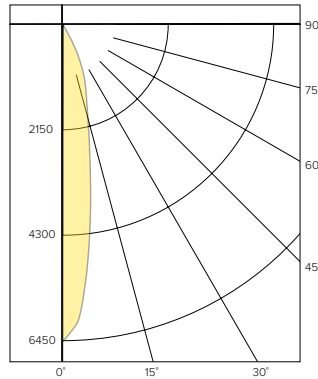
PHOTOMETRY

LTR-3RD-RH-ML20L-DM1 / LTR-3RD-T-ML35K8VNR-S

LUMINAIRE DATA

Test No.	R20.01326-02
Description	1500 lm, Very Narrow, 3500K, 80 CRI
Delivered Lumens	1502
Watts	18.6W
Efficacy	81
Mounting	Recessed
Spacing Criterion	0.3
Beam Angle	20

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	6446
5	5271
15	1980
25	879
35	119
45	18
55	2
65	1
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	6078
55°	833
65°	565
75°	0
85°	0

*Candela/Square Meter

ZONAL LUMEN SUMMARY

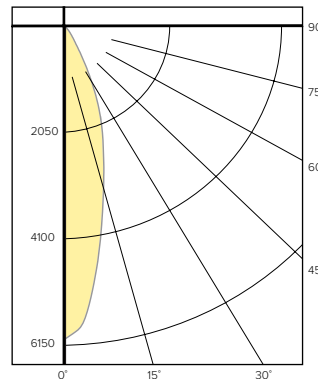
Zone	Lumens	% Luminaire
0-40	1482	98.7
0-60	1501	99.9
0-90	1502	100.0
0-180	1502	100.0

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

LUMINAIRE DATA

Test No.	R19.00700-C02
Description	2000 lm, Narrow, 3500K, 80 CRI
Delivered Lumens	2103
Watts	25.1W
Efficacy	83.8
Mounting	Recessed
Spacing Criterion	0.4
Beam Angle	29

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	6064
5	5416
15	2923
25	1315
35	263
45	36
55	3
65	1
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	11947
55°	1227
65°	555
75°	0
85°	0

*Candela/Square Meter

ZONAL LUMEN SUMMARY

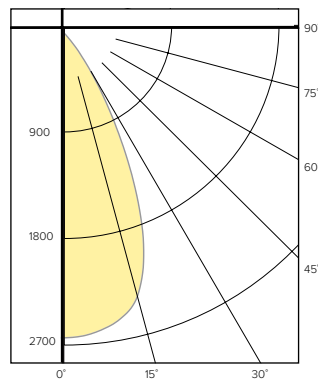
Zone	Lumens	% Luminaire
0-40	2063	98.1
0-60	2102	99.9
0-90	2103	100.0
0-180	2103	100.0

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

LUMINAIRE DATA

Test No.	R19.00739-C02
Description	2000 lm, Medium, 3500K, 80 CRI
Delivered Lumens	1952
Watts	25.1W
Efficacy	77.7
Mounting	Recessed
Spacing Criterion	0.8
Beam Angle	53

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	2638
5	2620
15	2419
25	1497
35	471
45	50
55	3
65	1
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	16593
55°	1227
65°	555
75°	907
85°	0

*Candela/Square Meter

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1895	97.1
0-60	1950	99.9
0-90	1952	100.0
0-180	1952	100.0

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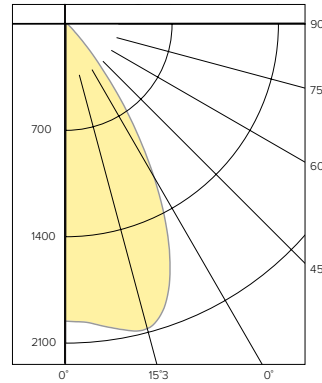
PHOTOMETRY CONTINUED

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

LUMINAIRE DATA

Test No.	R19.00698-C02
Description	2000 lm, Wide, 3500K, 80 CRI
Delivered Lumens	1985
Watts	25.1W
Efficacy	79.1
Mounting	Recessed
Spacing Criterion	0.9
Beam Angle	59

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1966
5	1988
15	2085
25	1604
35	667
45	65
55	4
65	2
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	21571
55°	1636
65°	1111
75°	907
85°	0

*Candela/Square Meter

ZONAL LUMEN SUMMARY

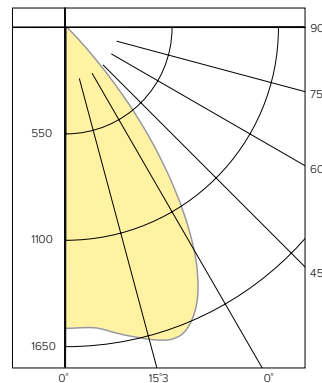
Zone	Lumens	% Luminaire
0-40	1909	96.2
0-60	1983	99.9
0-90	1985	100.0
0-180	1985	100.0

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

LUMINAIRE DATA

Test No.	R19.00697-C02
Description	2000 lm, Extra Wide, 3500K, 80 CRI
Delivered Lumens	1945
Watts	25.1W
Efficacy	77.4
Mounting	Recessed
Spacing Criterion	1.1
Beam Angle	66

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1519
5	1521
15	1630
25	1552
35	878
45	71
55	4
65	2
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	23562
55°	1636
65°	1111
75°	907
85°	0

*Candela/Square Meter

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1843	94.8
0-60	1942	99.9
0-90	1945	100.0
0-180	1945	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.

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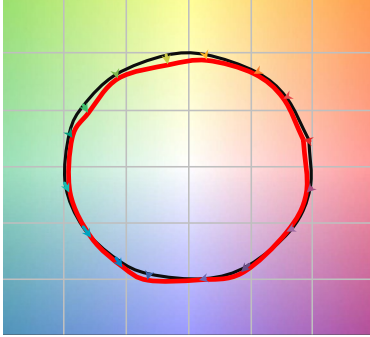
DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

TM-30 DATA

COLOR VECTOR GRAPHIC
3500K, 90 CRI



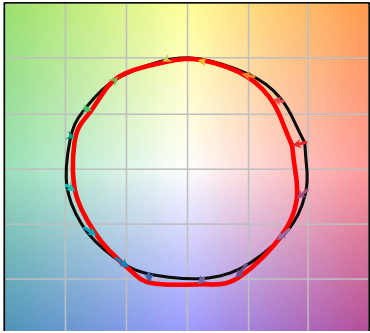
— Reference Illuminant — Test Source

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



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
20L	2000	25

* Wattage may vary based on configuration and options selected



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DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

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®

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