

LTR-3RD

LITEISTRY 3" ROUND DOWNLIGHT

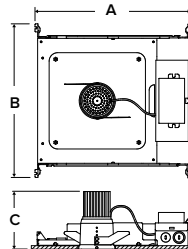
DATE: _____ LOCATION: _____
 TYPE: _____ PROJECT: _____
 CATALOG #: _____

FEATURES

- 3" architectural LED 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
- Available for New Construction (non-IC), IC and Chicago Plenum applications
- Variety of dimming protocol options including 0–10V, DALI, DMX, and Lutron EcoSystem
- NX Lighting Controls wired and wireless controls capability available



CONTROLS TECHNOLOGY



LITEISTRY



Typical Dimensions and Weights				
Lumen Package	"A" Length Inches (mm)	"B" Width Inches (mm)	"C" Height Inches (mm)	Weight lbs (kg)
06L - 20L	14.56 (370)	14.36 (365)	5.38 (137)	7.3 (3.3)

See DIMENSIONS section for complete details

SPECIFICATIONS

CONSTRUCTION

- Standard Non-IC, Chicago Plenum and IC options
- Painted black durable steel platform with pre-installed bar hangers
- Pre-wired junction box with snap-on covers for easy access
- Snap-in connection from driver compartment allows easy installation
- 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 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)

ELECTRICAL (CONTINUED)

- Universal voltage 120V–277V driver, 347V optional
- UL Class 2, inherent short circuit and overload protection
- Flicker free 0–10V dimming with 1% or < 1% performance
- DALI, DMX, and Lutron EcoSystem options
- NX Lighting Controls provides options for standalone and networked functionality with wired or wireless connectivity for NX system deployments
- Lutron Athena control options also available
- Refer to additional spec sheets for information on SpectraSync™ Tunable White or Dim-to-Warm solutions

INSTALLATION

- Accommodates ceiling thickness up to 2"
- Universal adjustable mounting brackets also accept 1/2" EMT conduit or 1/2" or 3/4" lathing channel (by others) or Prescolite accessory bar hangers (B24 or B6)
- Light Engine serviceable above or below ceiling. Top access required for driver, Controls, EMR, GTD, or DTS component replacement

CERTIFICATIONS

- cCSAus certified to UL 1598
- Suitable for wet locations, covered ceiling, EMR: Suitable for damp locations

CERTIFICATIONS (CONTINUED)

- EMR: Certified under UL 924 standard for emergency lighting and power equipment
- EMR: Emergency battery packs are California Energy Commission (CEC) Title 20 Compliant
- Approved for 8 (4 in/4 out) No. 12AWG conductors rated for 90°C through wiring
- 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)	77-84*
Reported Life (Hours)	L90 / >55,000
Input Current (mA)	67-208 (120V)

*Based on Specular, 35K, 80 CRI

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DATE: _____ LOCATION: _____

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ORDERING GUIDE

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

CATALOG #

HOUSING

LTR-3RD-H		Lumen Package		Lumen Output		Driver Options		Control Options		Voltage		Housing Options	
Aperture/Shape/Function		SL Standard Lumen		ML Medium Lumen		DM1 0-10V Dimming to 1%		NX Lighting Controls		Standard 120-277V		CP Chicago Plenum 7,9	
LTR-3RD-H	3" Round Downlight New Construction Housing	06L	600	20L	2000	DM01	0-10V Dimming to < 1%	Networked Wireless	NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor 3	34	347V 6	IC	IC rated 8,9
		10L	1000			DMX	DMX with RDM dimming to < 0.1%	Networked Wired					
		15L	1500			DALI	DALI Dimming to 1%	NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor 3			GTD	Generator Transfer Device 9,14
						EDM	Lutron Hi-Lume EcoSystem Dimming to 1% 2	AWNR	Lutron Athena Enabled 13			DTS	Device Transfer Switch with Dimming Bypass 9,10
						DM00	Lutron Athena compatible driver 13					F	Fuse 9
								Other Lighting Controls				BAA	Buy American Act (FAR 52.225-9) Compliant
								Networked Wireless				TAA	Trade Agreements Act (FAR 52.225-11) Compliant

TRIM

LTR-3RD-T		Lumen Package		CCT		CRI		Distribution	
Aperture/Shape/Function		SL Standard Lumen		27K 2700K		8 80+CRI		VNR Very Narrow (0.3 SC/20°) 12	
LTR-3RD-T	3" Round Downlight Light Engine/Trim Assembly	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 5	
S	Specular	CG	Champagne Gold	WT	White Flange 4	BAA	Buy American Act (FAR 52.225-9) Compliant
SS	Semi-Specular	BL	Black	BT	Black Flange 4	TAA	Trade Agreements Act (FAR 52.225-11) Compliant
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

- B24 Set of two (2) 24" bar hangers for T-bar ceilings
- B6 Set of two bar hangers for ceiling joist up to 24" centers
- 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)
- LTR-SCA3-___ Sloped Ceiling Adapter, 3", White 11



Notes:

- 1 5000K available in 80+ CRI only.
- 2 EDM available in 10L–20L.
- 3 NX requires DM1 driver option.
- 4 WT not needed for WC, BT not needed for BC.
- 5 AM available with WC or Specular Clear (S or SWT). Consult factory for other colors.
- 6 347V requires DM1 driver; not available with Controls, EMR, DTS, GTD or F.
- 7 Not available with DMX, Controls, or EMR options.
- 8 IC available up to 15L; not available with Controls options.
- 9 Housing options (except Fuse, BAA/TAA) not available in combination.
- 10 DTS available with DM1, DM01, DALI, or DM00. Not available with NXE.
- 11 Specify slope angle 5°–35° in 5° increments. Not available with FMR accessory.
- 12 VNR available up to 15L.
- 13 DM00 must be selected with AWNR Lutron Athena controls option.
- 14 Not available with NXE.

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NX LIGHTING CONTROLS

Control Option Ordering Logic & Description			Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming		
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	✓	✓	-	-	✓	✓	✓		NXRM2-H
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor	✓	✓	✓	-	-	✓	✓	✓ ¹		NXDSP

¹ Requires NXBTC, order separately.

NX LIGHTING CONTROLS APP



The NX Lighting Controls App is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enabled luminaires and program your NX system settings.




Android



Apple iOS

OTHER LIGHTING CONTROLS

Control Option Ordering Logic & Description			Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming		
Other	AWNDR	The Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system. ¹	✓	✓	-	-	-	✓	✓	-		A-WN-D01-RF-WH

¹ Lutron Athena Hub required to enable Networking, Grouping and Scheduling.

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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	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

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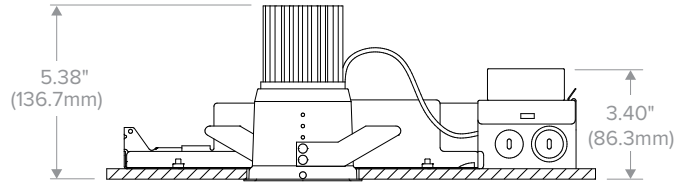
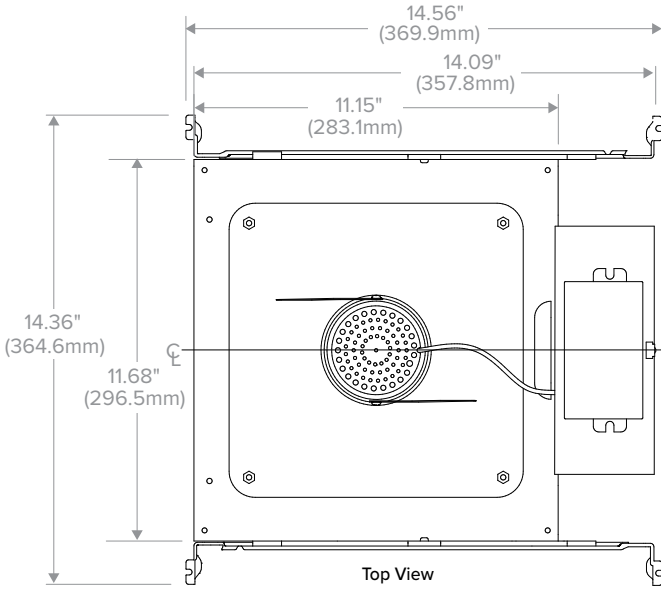
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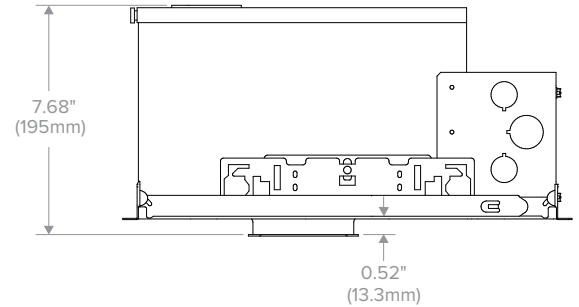
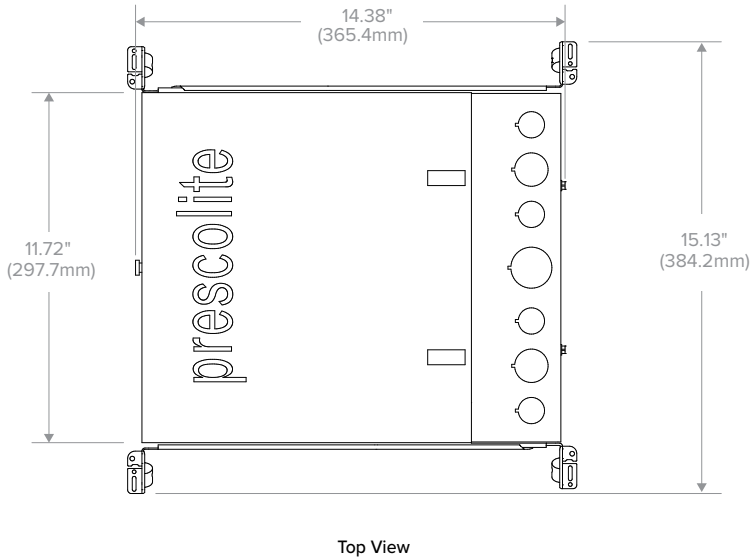
DIMENSIONS



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:	Standard	0.50" to 2.00" (12.7mm to 50.8mm)
	With SCA	0.50" to 1.25" (12.7mm to 31.8mm)

SCA Sloped Ceiling Adapter accessory available, see LTR-SCA specification sheet and installation instructions for dimensional data and other details.

LTR-3RD-H New Construction



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:	Standard	0.50" to 2.00" (12.7mm to 50.8mm)
	With SCA	0.50" to 1.25" (12.7mm to 31.8mm)

SCA Sloped Ceiling Adapter accessory available, see LTR-SCA specification sheet and installation instructions for dimensional data and other details.

LTR-3RD-H IC/CP

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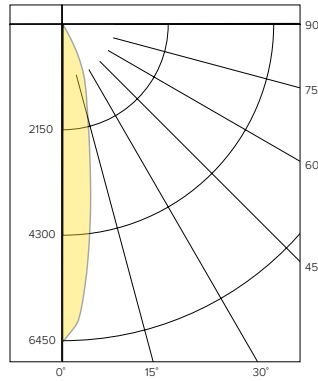
PHOTOMETRY

LTR-3RD-H-SL15L-DM1 / LTR-3RD-T-SL35K8VNR-S

LUMINAIRE DATA

Test No.	20.01326
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

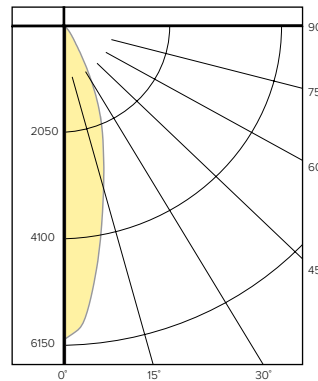
Zone	Lumens	% Luminaire
0-40	1482	98.7
0-60	1501	99.9
0-90	1502	100.0
0-180	1502	100.0

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

LUMINAIRE DATA

Test No.	19.00700
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

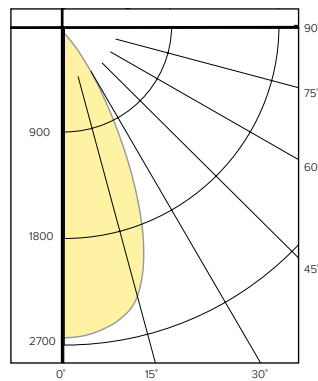
Zone	Lumens	% Luminaire
0-40	2063	98.1
0-60	2102	99.9
0-90	2103	100.0
0-180	2103	100.0

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

LUMINAIRE DATA

Test No.	19.00739
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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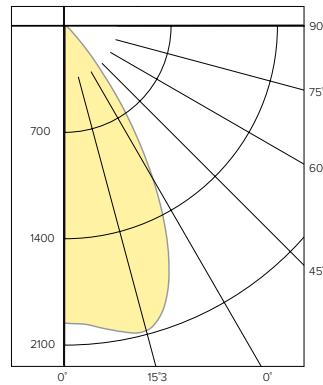
PHOTOMETRY CONTINUED

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

LUMINAIRE DATA

Test No.	19.00698
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

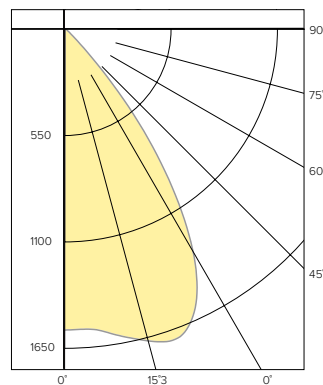
Zone	Lumens	% Luminaire
0-40	1909	96.2
0-60	1983	99.9
0-90	1985	100.0
0-180	1985	100.0

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

LUMINAIRE DATA

Test No.	19.00697
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.

REFLECTOR FINISH MULTIPLIER (Based on Clear (Standard) Color)

Option	Specular (S)	Semi-Specular (SS)	American Matte (MFC)	Softglow (VS)	Softsheen (VSS)
Multiplier	1	1	0.984	0.888	0.938

REFLECTOR COLOR MULTIPLIER (Based on Semi-Specular (SS) Finish)

Option	Clear (Standard)	Champagne Gold (CG)	Black (BL)	Light Wheat (LW)	Pewter (PW)	White Cone (WC)	Black Cone (BC)
Multiplier	1	0.974	0.444	0.861	0.915	0.984	0.442

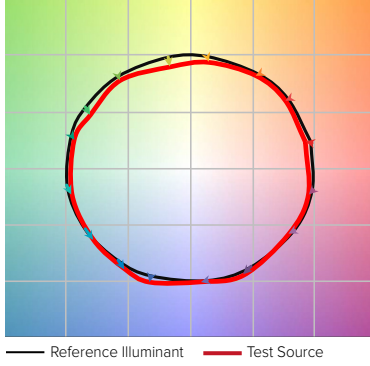
Multiply FINISH x COLOR to calculate other reflector finish and color combinations. Example: SoftGlow Pewter (VSPW) = 0.888 (VS) x 0.915 (PW) = 0.813

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TM-30 DATA

COLOR VECTOR GRAPHIC
3500K, 90 CRI

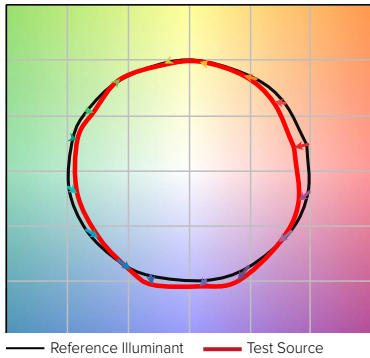


COLOR DISTORTION GRAPHIC
3500K, 90 CRI

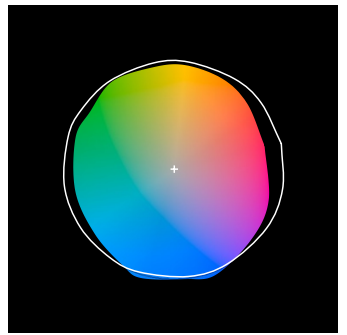


TEST RESULTS - 3500K		
Value	80+ CRI	90+ CRI
R_t	84	88
R_g	95	95
CCT (K)	3411	3419
D_{uv}	0.0015	0.0042
x	0.4120	0.4147
y	0.3974	0.4052
CIE R_a	84	93
CIE R_g	11	62

COLOR VECTOR GRAPHIC
3500K, 80 CRI



COLOR DISTORTION GRAPHIC
3500K, 80 CRI



ELECTRICAL DATA

DRIVER DATA		
Input Voltage	120-277V	347V
Input Frequency	50/60 Hz	50/60 Hz
Power Factor	≥0.90	≥0.90
THD	<20%	<20%
EMI Filtering (FCC 47 CFR Part 15)	Class A	Class A

* Values for DM1 option shown, values for other dimming options may vary.

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ADDITIONAL INFORMATION

Dimming Compatibility

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

DMX

See instruction sheet on currentlighting.com/prescolite for connection & installation information.

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.

Lumen Output in Emergency Mode

To determine the lumen output in emergency mode multiply the battery pack wattage by the fixture lumens per watt (LPW). For example, 7W x 120 LPW = 840 lumens in emergency mode.