

LTC-6RDW

LITEISTRY 6" ROUND CYLINDER

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

FEATURES

- 6" architectural LED downlight and wall wash cylinder delivering 600 - 7000 lm
- 4 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 in Surface, Wall, Pendant, or Cord Mount configurations
- Variety of dimming protocol options including 0-10V, DALI, DMX, Forward Phase and EcoSystem



(Select Models)

CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- Seamless heavy gauge aluminum cylinder body with a clean appearance
- Select from 4 durable powder coat paint architectural finishes or Brushed Aluminum
- Available in Surface, Wall, Pendant, or Cable/Cord mounting options
- Wall Mount: One piece die cast aluminum mounting arm
- Pendant Mount: Swivel canopy allows sloped ceiling mounting up to 45 degrees
- Integral driver versions allow direct mounting to a standard 4" octagonal or square junction box
- Some configurations require remote mount driver assembly (see line art)

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
- 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 (TM-21)
- Universal voltage 120V-277V driver, 347V optional
- UL Class 2, inherent short circuit and overload protection, RoHS compliant
- Flicker free 0-10V dimming with 1% or <1% performance
- DALI, DMX, and Lutron Forward Phase and EcoSystem options

INSTALLATION

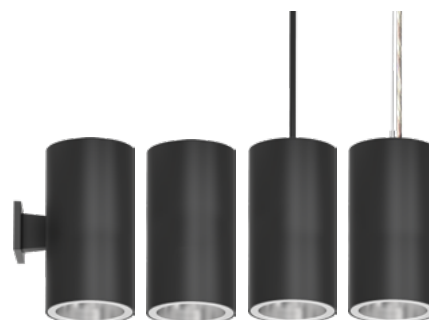
- Light Engine/Trim assembly is mechanically secured with torsion springs for ease of installation
- A quick connect is provided for easy maintenance or upgrade
- Remote mount driver/jbox assembly requires 6" plenum clearance
- Remote driver is accessible from above or below the ceiling
- NX or Lutron Vibe control options available
- Refer to additional spec sheets for information on SpectraSync™ Tunable White or Dim-to-Warm or [PowerHUBB™ PoE enabled](#) solutions

CERTIFICATIONS

- cCSAus certified to UL 1598
- Wall Mount up to 55L: Suitable for wet locations
- Pendant Mount up to 55L: Suitable for wet locations under covered ceiling
- 60L-70L Pendant & Wall, all Surface, Cord Mount and all Wall Wash: Suitable for damp locations
- 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



RELATED PRODUCTS

Ø 3" LITEISTRY Family

Ø 4" LITEISTRY Family

Ø 6" LITEISTRY Family

KEY DATA	
Lumen Range	600-7000
Wattage Range	8-72
Efficacy Range (LPW)	94-104*
Reported Life (Hours)	L90 / >55,000
Input Current (mA)	67-600 (120V)

*Based on Specular, 35K, 80 CRI



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ORDERING GUIDE

Example: LTC-6RD-P-15L35K9WD-DM1-SS-WH

CATALOG #

LTC-6RD						
Aperture/Shape/Function	Cylinder Mounting	Lumen Output	CCT	CRI	Distribution	
LTC-6RD 6" Round Downlight Cylinder	S Surface	06L 600 Lumens	27K 2700K	8 80+ CRI	NR Narrow (0.3 SC)	
LTC-6RW 6" Round Wall Wash Cylinder	W Wall	10L 1000 Lumens	30K 3000K	9 90+ CRI	MD Medium (0.6 SC)	
	P Pendant (18" Stem Standard)	15L 1500 Lumens	35K 3500K		WD Wide (0.9 SC)	
	CM Cable/Cord (6 ft. Cord Standard) ⁵	20L 2000 Lumens	40K 4000K		XW Extra Wide (1.1 SC)	
		25L 2500 Lumens	50K 5000K ¹		WW Wall Wash	
		30L 3000 Lumens				
		35L 3500 Lumens				
		40L 4000 Lumens				
		45L 4500 Lumens				
		50L 5000 Lumens				
		55L 5500 Lumens				
		60L 6000 Lumens ⁸				
		70L 7000 Lumens ⁸				

Driver Options ³	Control Options ^{3,7}	Voltage	Reflector Finish	Reflector Color	Flange Color Options
DM1 0-10V Dimming to 1% ⁹	NXE NX Enabled, Dual SmartPorts ²	Standard 120-277V	Finish not applicable with painted reflectors (WC or BC)	Standard Clear	Standard matches reflector color
DM01 0-10V Dimming to <1%	NXWE NX Wireless Enabled ²	34 347V ^{3,6}	S Specular	CG Champagne Gold	WT White Flange ⁴
DMX DMX with RDM dimming to <0.1% ⁷	NXWD NX Wireless Enabled, Dual SmartPorts ²		SS Semi-Specular	BL Black	BT Black Flange ⁴
DALI DALI Dimming to 1%	LV Lutron Vive Enabled, 0-10V (requires DM1 driver)		MFC American Matte™	LW Light Wheat	
2DM Lutron Hi-Lume 2-wire Dimming to 1% (120V Forward Phase only)	LVE Lutron Vive Enabled, EcoSystem, (requires EDM)		VS Softglow®	PW Pewter	
EDM Lutron Hi-Lume EcoSystem Dimming to 1%			VSS SoftSheen™	WC Painted White Cone and Flange	
				BC Painted Black Cone and Flange	

Exterior Cylinder Color	
BA	Brushed Aluminum
BZ	Bronze
BL	Matte Black
WH	Matte White
SVR	Silver

Notes:

- 5000K available in 80+ CRI only.
- NX requires DM1 driver.
- For lumen outputs/configurations available, see chart on page 3.
- WT not needed for WC, BT not needed for BC.
- CM standard cord color is Clear.
- 347V requires DM1 driver option; Not available with Controls.
- Controls not available with wall mount (W); S, P, CM with DMX or controls options require remote driver, see line art for details.
- 60L and 70L require vented cylinder.
- DM1 on >60L is 0-10V to 5% dimming.



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DRIVER/CONTROL OPTION AVAILABILITY

Driver and Control options listed below are available in the configurations and lumen packages as shown.

Driver/Control Option		Cylinder Mounting ¹	Integral Remote Driver ¹	06L	10L	15L	20L	25L	30L	35L	40L	45L	50L	55L	60L	70L ⁴
DM1	0-10V 1% ⁴	W	Integral	●	●	●	●	●	●	●	●	●	●	●	▼	▼
		S/P/CM	Integral	●	●	●	●	●	●	●	●	●	●	●	▼	▼
DM01	0-10V <1%	W	Integral	●	●	●	●	●								
		S/P/CM	Integral	●	●	●	●	●								
DALI	DALI 1%	W	Integral	●	●	●	●	●								
		S/P/CM	Integral	●	●	●	●	●								
DMX	DMX w/ RDM <0.1%	W	Integral		●	●	●	●	●	●						
		S/P/CM	Remote (IC Rated)		●	●										
2DM	Lutron Hi-Lume 2-wire 1%	W	Integral		●	●	●	●								
		S/P/CM	Integral		●	●	●	●								
EDM	Lutron Hi-Lume EcoSysttem 1%	W	Integral		●	●	●	●	●							
		S/P/CM	Integral		●	●	●	●	●							
347V ³	347 Volts (DM1 required)	W	Integral		●	●	●	●	●	●	●	●	●	●	▼	
		S/P/CM	Integral		●	●	●	●	●	●	●	●	●	●	▼	

NX (All)	NX (DM1 required)	W	N/A													
		S/P/CM	Remote (Non-IC)	●	●	●	●									
LV	Lutron Vive® (DM1 required)	W	N/A													
		S/P/CM	Remote (IC Rated)	●	●	●	●									
LVE	Lutron Vive® (EDM required)	W	N/A													
		S/P/CM	Remote (Non-IC)		●	●	●									

▼ Vented cylinder required, see line art for more details.

1 See Cylinder Mounting chart for details.

2 See line art for more details.

3 Not available with Controls.

4 70L DM1 option is 0-10V to 5%.

Cylinder Mounting	
W	Wall Mount
S	Surface Mount
CM	Cable/Cord Mount
P	Pendant Mount

CONTROLS

NX Distributed Intelligence™ Lighting Controls:

Supports applications in a variety of deployment options- wired, wireless, hybrid. Integrates with and enables a wide array of luminaires including those with SpectraSync™ Color Tuning Technology.



NX INTEGRATED CONTROLS REFERENCE								
NX Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	0-10V Dimming	On/off Control	Bluetooth® App Programming
NX Networked – Wired								
NXE	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC/R ¹
NX Networked – Wireless								
NXWE ²	N/A	Yes	Yes	No	No	Yes	Yes	No ³
NX Networked – Wired/Wireless								
NXWD	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC/R ^{1,3}

1 NXBTC/R needs to be plugged into an available NX SmartPort™ on the fixture network

2 Programming via App requires factory assistance

3 To program NXWE option, need to consult factory. If connected to an area controller, programming can be done from that

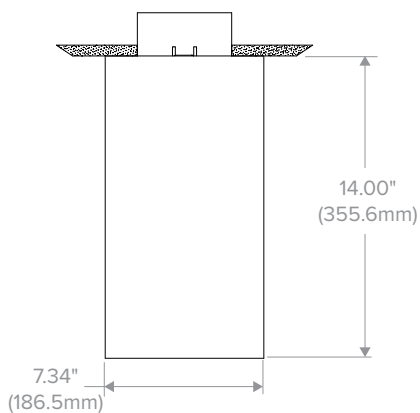


LTC-6RDW

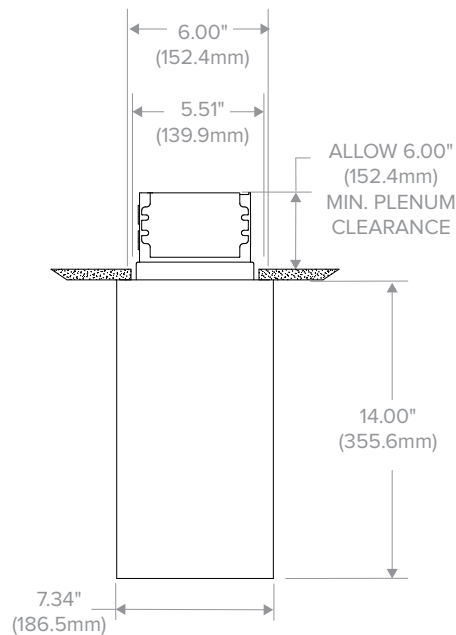
LITEISTRY 6" ROUND CYLINDER

DIMENSIONS

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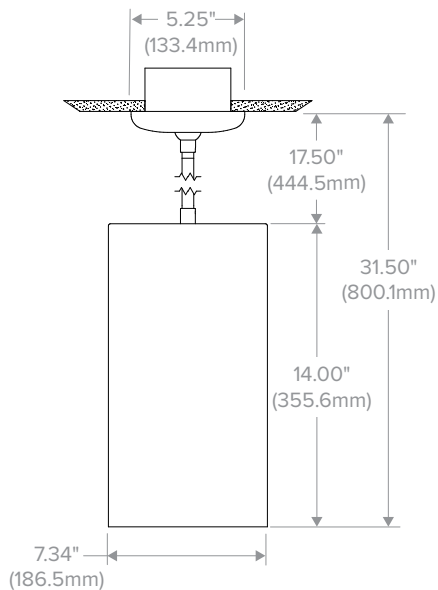


Integral Driver

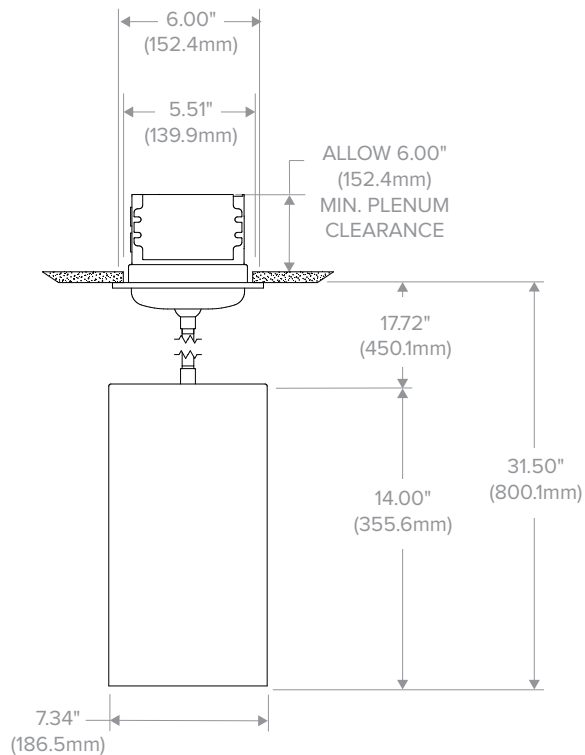


Remote Driver
For DMX, all NX or Lutron Vibe Controls

Surface (-S)



Integral Driver



Remote Driver
For DMX, all NX or Lutron Vibe Controls

Pendant (-P)

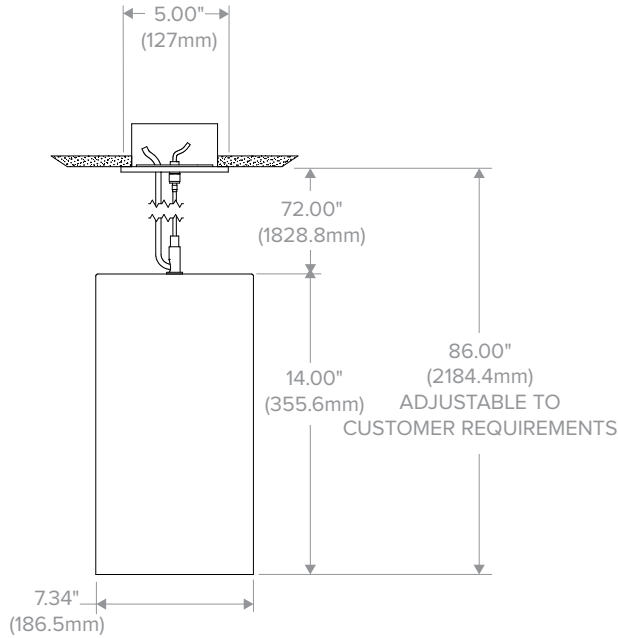


LTC-6RDW

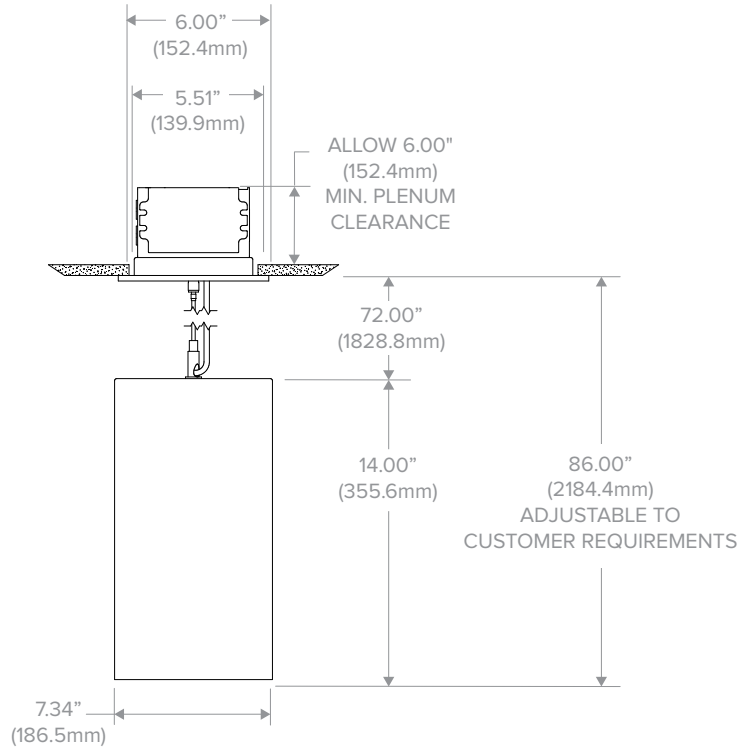
LITEISTRY 6" ROUND CYLINDER

DIMENSIONS CONTINUED

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

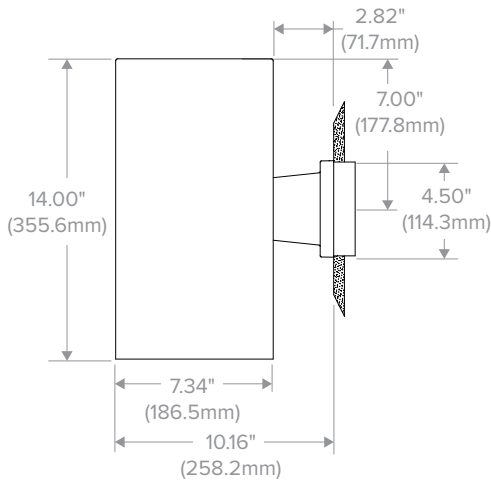


Integral Driver



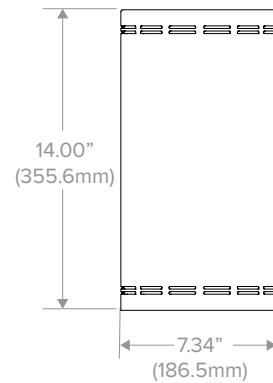
Remote Driver
For all NX or Lutron Vive Controls

Cord (-CM)



Integral Driver

Wall (-W)



Vented Detail View
(60L & 70L)
(All Mountings)



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PHOTOMETRY

LTC-6RD-P-20L35K8NR-DM1-S-BL

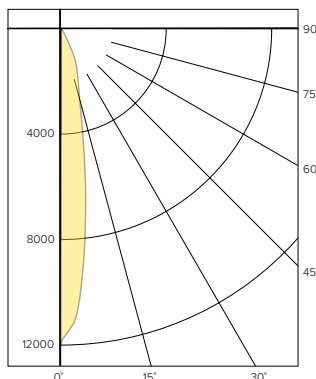
LUMINAIRE DATA

Test No.	R19.00588-01
Description	2000 lm, Narrow, 3500K, 80 CRI
Delivered Lumens	2355
Watts	22.6W
Efficacy	104.0
Mounting	Pendant
Spacing Criterion	0.3
Beam Angle (FWHM)	18

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2290	97.2
0-60	2355	100.0
0-90	2355	100.0
0-180	2355	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	11881
5	9399
15	2776
25	1236
35	255
45	74
55	0
65	0
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	6247
55°	0
65°	0
75°	0
85°	0

*Candela/Square Meter

LTC-6RD-P-20L35K8MD-DM1-S-BL

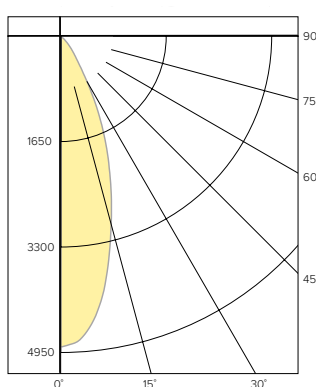
LUMINAIRE DATA

Test No.	R19.00587-01
Description	2000 lm, Medium, 3500K, 80 CRI
Delivered Lumens	2265
Watts	22.6W
Efficacy	100.0
Mounting	Pendant
Spacing Criterion	0.6
Beam Angle (FWHM)	37

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2171	95.9
0-60	2262	99.9
0-90	2265	100.0
0-180	2265	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	4851
5	4619
15	3007
25	1450
35	386
45	99
55	6
65	2
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	8357
55°	624
65°	282
75°	231
85°	0

*Candela/Square Meter

LTC-6RD-P-20L35K8WD-DM1-S-BL

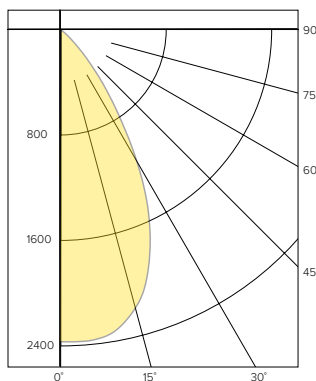
LUMINAIRE DATA

Test No.	R19.00585-01
Description	2000 lm, Wide, 3500K, 80 CRI
Delivered Lumens	2180
Watts	22.6W
Efficacy	96.1
Mounting	Pendant
Spacing Criterion	0.9
Beam Angle (FWHM)	59

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2014	92.4
0-60	2176	99.8
0-90	2180	100.0
0-180	2180	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	2368
5	2371
15	2189
25	1591
35	726
45	177
55	10
65	3
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	14942
55°	1041
65°	424
75°	231
85°	0

*Candela/Square Meter

PHOTOMETRY CONTINUED

LTC-6RD-P-20L35K8XW-DM1-S-BL

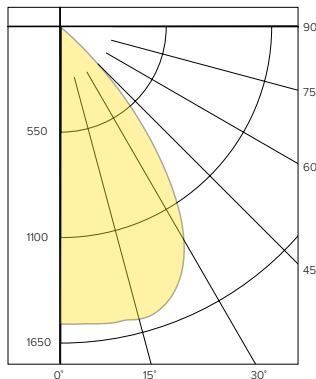
LUMINAIRE DATA

Test No.	R19.00586-01
Description	2000 lm, Extra Wide, 3500K, 80 CRI
Delivered Lumens	2139
Watts	22.7W
Efficacy	94.4
Mounting	Pendant
Spacing Criterion	1.1
Beam Angle (FWHM)	76

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1875	87.7
0-60	2134	99.8
0-90	2139	100.0
0-180	2139	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1547
5	1552
15	1576
25	1461
35	1007
45	301
55	9
65	3
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	25409
55°	937
65°	424
75°	231
85°	0

*Candela/Square Meter

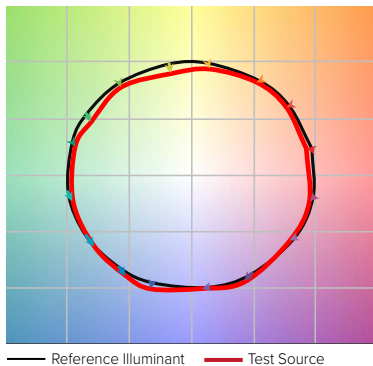
LUMEN MULTIPLIER

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

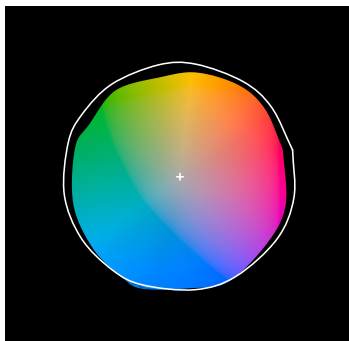
Photometrics are published below at a nominal 3500 Kelvin, 80+ CRI. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

TM-30 DATA

COLOR VECTOR GRAPHIC 3500K, 90 CRI

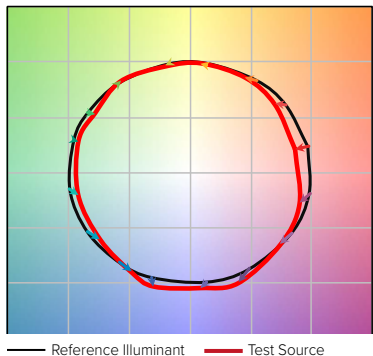


COLOR DISTORTION GRAPHIC 3500K, 90 CRI



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





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ELECTRICAL DATA

DRIVER DATA		
Input Voltage	120-277 V	347 V
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.

WATTAGE DATA		
Lumen Output	Nominal Lumens	WATTAGE
06L	600	8
10L	1000	12
15L	1500	19
20L	2000	23
25L	2500	28
30L	3000	35
35L	3500	43
40L	4000	52
45L	4500	55
50L	5000	49
55L	5500	54
60L	6000	61
70L	7000	72

* Wattage may vary based on configuration and options selected

ADDITIONAL INFORMATION

DIMMING COMPATIBILITY CHART		
Dimming Driver	Manufacturer	Web Link
DM1/DM01	Lutron DTVT	http://bit.ly/11jSvZg
DM1	Leviton AWRMG-7xx, AWSMG-7xx, AWSMT-7xx	http://bit.ly/1BJn2R9
EDM	Lutron	http://bit.ly/1vtjHAI
2DM	Lutron	http://bit.ly/1S4WjXK

DMX

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

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