

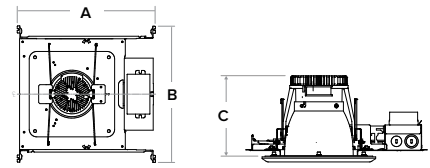
LTR-6RD (SR)

6" ROUND COMPLEX ENVIRONMENT DOWNLIGHT
SURGICAL SUITE

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

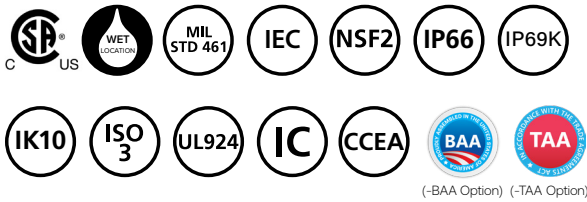
FEATURES

- 6" round architectural LED downlight delivering 600–4000 lumens
- Five beam distributions and wall wash allow for controlled illumination of medical suites
- 50° cutoff to source and source image provides a low glare, distraction free environment with enhanced visual acuity for intricate tasks
- Options for color temperature range from 2700K–5000K in 80+ or 90+ CRI providing quality illumination for a variety of surgical applications
- Aluminum anodized reflectors available in a wide array of colors and finishes
- Closed cell silicone gasket protects against dust and water ingress. Supports the fixture's ISO 3 cleanroom rating
- Suitable for wet location under covered ceiling and rated IP66 / IP69K (room side), making the product ideal for intense cleaning and sanitation
- Durable, marine grade, die cast aluminum bezel trim (low-copper alloy) and flush polycarbonate lens are available with optional antimicrobial paint finish and rated for NSF2 certification
- Standard (through 20L) for MIL 461G and IEC/EN 60601-1-2:2020, complies with safety and performance for EMI and medical electrical equipment and systems



Typical Dimensions and Weights				
Lumen Package	"A" Length Inches (mm)	"B" Width Inches (mm)	"C" Height Inches (mm)	Weight lbs (kg)
06L - 15L	14.56 (370)	14.36 (365)	5.9 (150)	7.8 (3.5)
20L - 30L	14.56 (370)	14.36 (365)	6.68 (170)	8.2 (3.7)
35L - 40L	14.56 (370)	14.36 (365)	7.86 (200)	8.8 (4)

See DIMENSIONS section for complete details



SPECIFICATIONS

CONSTRUCTION

- Corrosion resistant, marine grade (low copper alloy), die cast aluminum bezel trim
- Flush, impact resistant .250" thick, clear polycarbonate lens for ease of wipe down.
- Closed cell silicone gasket prevents dust and water ingress for IP66, IP69K, ISO3 certification
- Non-IC standard, Chicago Plenum and IC options
- Pre-wired junction box with snap-on covers for easy access
- Steel platform with black finish and pre-installed bar hangers simplify installation
- Snap-in quick connectors simplify electrical connections to the driver compartment
- 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 is integral to the light engine to ensure precise beam control
- High purity aluminum reflector enables reliable and consistent finish and color
- Large selection of anodized inner reflector finishes and colors as well as painted cone options
- White painted bezel trim finish, antimicrobial white paint as option

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
- Flicker free 0–10V dimming 1%
- Battery pack with remote test switch and indicator available

INSTALLATION

- Accommodates ceiling thickness up to 2" (See DIMENSIONS section for details)
- Universal adjustable mounting brackets also accept 0.5" EMT conduit or 1.5" or 0.75" lathing channel (by others) or Prescolite accessory bar hangers (B24 or B6)
- Light Engine/Driver fully serviceable from above or below the ceiling

CERTIFICATIONS

- CSA certified, UL1598
- Suitable for wet location (under covered ceiling), IP66 and IP69K rated.
- ISO3 certified per ISO 14644-1:2015 ISO class 3 standards
- NSF2 Non-Food Zone certified
- 06L–20L: Complies with MIL-STD-461G for electromagnetic compatibility

CERTIFICATIONS (CONTINUED)

- 06L–20L: Complies with IEC/EN 60601-1-2:2020 for basic safety and performance for electromagnetic compatibility with medical electrical equipment and systems
- EMR: Certified under UL 924 standard for emergency lighting and power equipment
- EMR: Emergency battery packs are California Energy Commission (CEC) Title 20 Compliant
- Meets IK10 per IEC 60068-2-75 impact testing
- 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	600–4000
Wattage Range	8–52
Efficacy Range (LPW)	62–89*
Reported Life (Hours)	L90 / >55,000
Input Current (mA)	66–434 (120V)

*Based on 35K, 80 CRI

LTR-6RD (SR)

6" ROUND COMPLEX ENVIRONMENT DOWNLIGHT
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ORDERING GUIDE

Example: LTR-6RD-H-SUR-SL10L-DM1 / LTR-6RD-T-SUR-SL35K8MD-SS / LTR-6RD-CE-WTAM

CATALOG #	
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HOUSING

LTR-6RD-H		SUR				DM1			
Aperture/Shape/Function		Housing Type		Lumen Package		Lumen Output		Driver Options	
LTR-6RD-H	6" Round Downlight New Construction Housing	SUR	Surgical Suite	SL	Standard Lumen	06L	600	DM1	0-10V Dimming to 1%
						10L	1000		
						15L	1500		
				ML	Medium Lumen	20L	2000		Standard 120-277V
						25L	2500 ⁶		
						30L	3000 ⁶		
				HL	High Lumen ⁶	35L	3500 ⁶		
						40L	4000 ⁶		
								Housing Options	
								CP	Chicago Plenum ^{2,4}
								IC	IC rated ^{3,4}
								EMR	7W Emergency Battery Pack (CEC Title 20 Compliant) with remote test switch and indicator light ⁴
								F	Fuse ⁴
								BAA	Buy American Act (FAR 52.225-9) Compliant
								TAA	Trade Agreements Act (FAR 52.225-11) Compliant

TRIM

LTR-6RD-T	-	SUR	-		-		-		-
Aperture/Shape/Function		Trim Type		Lumen Package	CCT	CRI		Distribution	
LTR-6RD-T		6" Round Downlight Light Engine/ Trim Assembly		SUR Surgical Suite					
LTR-6RW-T		6" Round Wall Light Engine/ Trim Assembly ⁵		SL Standard Lumen	27K 2700K 30K 3000K 35K 3500K	8 80+CRI 9 90+CRI		VNR Very Narrow (0.3 SC/20°)	
				ML Medium Lumen	40K 4000K 50K 5000K ¹			NR Narrow (0.5 SC/30°)	
				HL High Lumen ⁶				MD Medium (0.7 SC/40°)	
								WD Wide (0.9 SC/59°)	
								XW Extra Wide (1.1 SC/74°)	
								WW Single Wall Wash ⁵	

TRIM CONTINUED

Reflector Finish	Reflector Color	Reflector Options
Finish not applicable with painted reflectors (WC or BC)	Standard Clear	BAA Buy American Act (FAR 52.225-9) Compliant
S Specular	CG Champagne Gold	TAA Trade Agreements Act (FAR 52.225-11) Compliant
SS Semi-Specular	BL Black	
MFC American Matte™	LW Light Wheat	
VS Softglow®	PW Pewter	
VSS SoftSheen™	WC Painted White Cone and Flange	
	BC Painted Black Cone and Flange	

Notes:

- 5000K available in 80+ CRI only.
- CP not available with EMR options.
- IC available up to 20L.
- Housing options (except Fuse, BAA/TAA_) not available in combination.
- Wall wash trim requires WW distribution option.
- Not available for MIL 461G or IEC.

BEZEL

Bezel Type	Bezel Trim Color	Options
LTR-6RD-CE	6" Round Bezel Trim Assembly with Clear Polycarbonate Lens, Stainless Steel Philips Head Screws (included)	WT White WTAM White Antimicrobial
LTR-6RD-CEVR	6" Round Bezel Trim Assembly with Clear Polycarbonate Lens, Stainless steel tamper resistant Torx® center pin reject (included)	BAA Buy American Act (FAR 52.225-9) Compliant TAA Trade Agreements Act (FAR 52.225-11) Compliant

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
- ☐ LiteGear LiteGear® Inverter, 25VA-250VA
- ☐ LPS Series LightPower Micro-Inverter, 20VA-55VA

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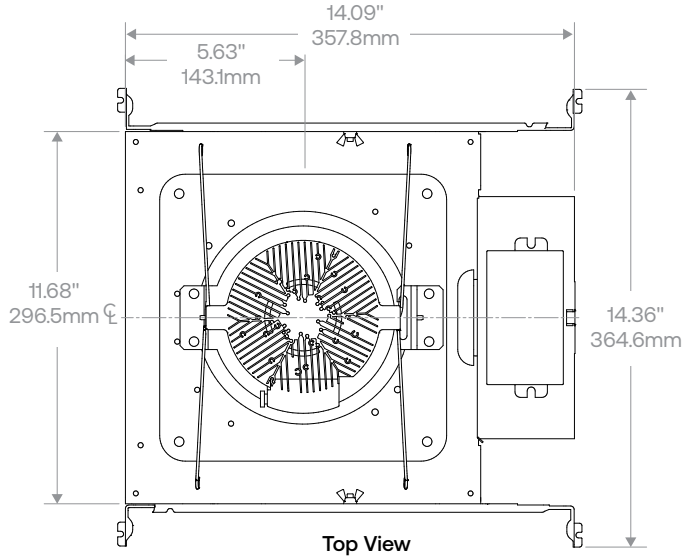
PERFORMANCE DATA TABLE (3500K, 80CRI)

Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
06L	600	Very Narrow	625	7.8	80
		Narrow	605	7.8	78
		Medium	624	7.8	80
		Wide	545	7.8	70
		Extra Wide	590	7.8	76
		Wall Wash	508	7.8	65
10L	1000	Very Narrow	999	12.0	83
		Narrow	967	12.0	81
		Medium	997	12.0	83
		Wide	871	12.0	73
		Extra Wide	942	12.0	79
		Wall Wash	812	12.0	68
15L	1500	Very Narrow	1435	18.7	77
		Narrow	1390	18.7	74
		Medium	1432	18.7	77
		Wide	1251	18.7	67
		Extra Wide	1354	18.7	72
		Wall Wash	1166	18.7	62
20L	2000	Very Narrow	1973	22.2	89
		Narrow	1910	22.2	86
		Medium	1969	22.2	89
		Wide	1720	22.2	77
		Extra Wide	1861	22.2	84
		Wall Wash	1603	22.2	72
25L	2500	Very Narrow	2398	27.7	87
		Narrow	2322	27.7	84
		Medium	2394	27.7	86
		Wide	2091	27.7	75
		Extra Wide	2262	27.7	82
		Wall Wash	1949	27.7	70
30L	3000	Very Narrow	2858	34.3	83
		Narrow	2767	34.3	81
		Medium	2852	34.3	83
		Wide	2492	34.3	73
		Extra Wide	2696	34.3	79
		Wall Wash	2322	34.3	68
35L	3500	Very Narrow	3472	43.0	81
		Narrow	3361	43.0	78
		Medium	3465	43.0	81
		Wide	3027	43.0	70
		Extra Wide	3275	43.0	76
		Wall Wash	2821	43.0	66
40L	4000	Very Narrow	3969	51.6	77
		Narrow	3842	51.6	74
		Medium	3961	51.6	77
		Wide	3460	51.6	67
		Extra Wide	3743	51.6	73
		Wall Wash	3224	51.6	62

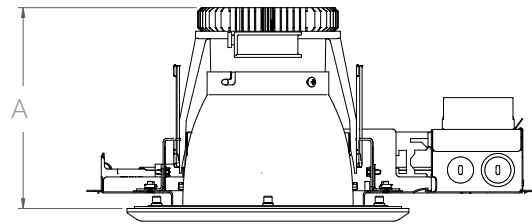
LTR-6RD (SR)

6" ROUND COMPLEX ENVIRONMENT DOWNLIGHT
SURGICAL SUITE

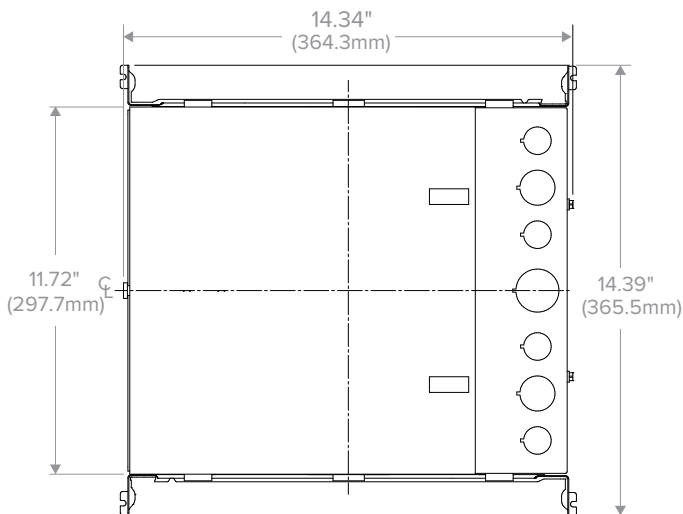
DIMENSIONS



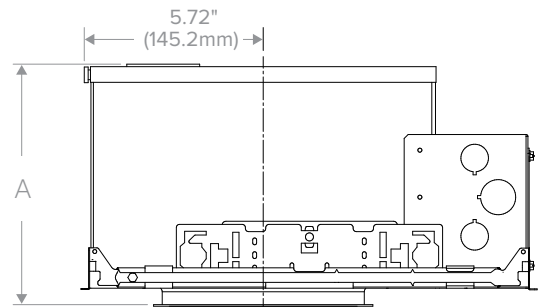
LTR-6RD-H-SUR New Construction



Dimensional Data		Lumen Package	"A"
Aperture Opening	Ø 5.75" (146.1 mm)	06L-15L	5.90" (149.9mm)
Overall Flange	Ø 9.42" (293.3 mm)	20L-30L	6.68" (169.7mm)
Bezel (below ceiling)	0.42" (10.7 mm)	35L-40L	7.86" (199.6mm)
Ceiling Cutout	Ø 8.25" (209.6 mm)		
Ceiling Thickness	0.50" to 2.00" (12.7 mm to 50.8 mm)		



LTR-6RD-H-SUR-IC / LTR-6RD-H-SUR-CP



Dimensional Data		Lumen Package	"A"
Aperture Opening	Ø 5.75" (146.1 mm)	Standard	7.68" (195.0mm)
Overall Flange	Ø 9.42" (293.3 mm)	CP option ≥35L	10.06" (255.5mm)
Bezel (below ceiling)	0.42" (10.7 mm)		
Ceiling Cutout	Ø 8.25" (209.6 mm)		
Ceiling Thickness	0.50" to 2.00" (12.7 mm to 50.8 mm)		

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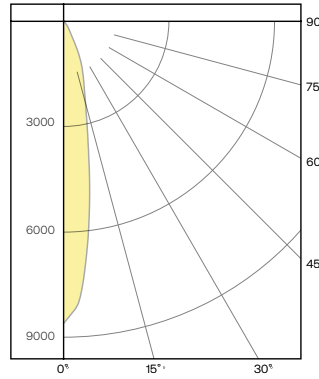
PHOTOMETRY

LTR-6RD-H-SUR-ML20L-DM1 / LTR-6RD-T-SUR-ML35K8VNR-SS / LTR-6RD-CE-WT

LUMINAIRE DATA

Test No.	22.01620
Description	2000 lm, Very Narrow, 3500K, 80 CRI
Delivered Lumens	1973
Watts	22.2W
Efficacy	89
Mounting	Recessed
Spacing Criterion	0.3
Beam Angle (FWHM)	20

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	8590
5	7037
15	2416
25	994
35	257
45	73
55	13
65	6
75	3
85	1
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	6162
55°	1353
65°	847
75°	692
85°	685

*Candela/Square Meter

ZONAL LUMEN SUMMARY

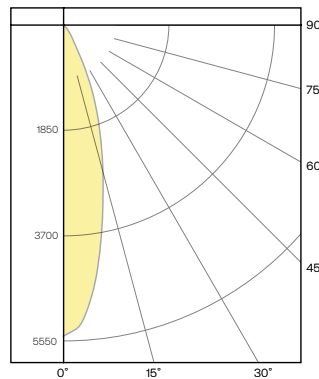
Zone	Lumens	% Luminaire
0-40	1889	95.7
0-60	1962	99.5
0-90	1973	100.0
0-180	1973	100.0

LTR-6RD-H-SUR-ML20L-DM1 / LTR-6RD-T-SUR-ML35K8NR-SS / LTR-6RD-CE-WT

LUMINAIRE DATA

Test No.	23.00002
Description	2000 lm, Narrow, 3500K, 80 CRI
Delivered Lumens	1910
Watts	22.2W
Efficacy	86
Mounting	Recessed
Spacing Criterion	0.5
Beam Angle (FWHM)	30

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	5460
5	4978
15	2690
25	1057
35	261
45	61
55	8
65	5
75	3
85	1
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	5149
55°	833
65°	706
75°	692
85°	685

*Candela/Square Meter

ZONAL LUMEN SUMMARY

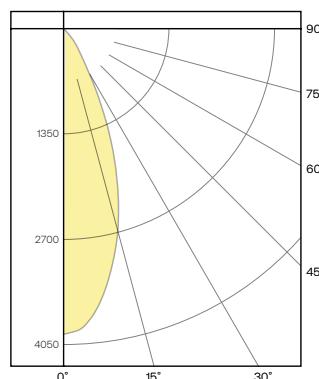
Zone	Lumens	% Luminaire
0-40	1839	96.3
0-60	1900	99.5
0-90	1910	100.0
0-180	1910	100.0

LTR-6RD-H-SUR-ML20L-DM1 / LTR-6RD-T-SUR-ML35K8MD-SS / LTR-6RD-CE-WT

LUMINAIRE DATA

Test No.	23.00009
Description	2000 lm, Medium, 3500K, 80 CRI
Delivered Lumens	1969
Watts	22.2W
Efficacy	89
Mounting	Recessed
Spacing Criterion	0.7
Beam Angle (FWHM)	40

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	3906
5	3743
15	2675
25	1252
35	354
45	81
55	10
65	6
75	3
85	1
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	6838
55°	1041
65°	847
75°	692
85°	685

*Candela/Square Meter

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1878	95.4
0-60	1958	99.4
0-90	1969	100.0
0-180	1969	100.0

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PHOTOMETRY CONTINUED

LTR-6RD-H-SUR-ML20L-DM1 / LTR-6RD-T-SUR-ML35K8WD-SS / LTR-6RD-CE-WT

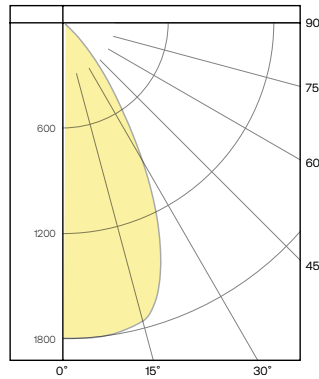
LUMINAIRE DATA

Test No.	23.00010
Description	2000 lm, Wide, 3500K, 80 CRI
Delivered Lumens	1720
Watts	22.2W
Efficacy	78
Mounting	Recessed
Spacing Criterion	0.9
Beam Angle (FWHM)	59

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1572	91.4
0-60	1705	99.1
0-90	1720	100.0
0-180	1720	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1791
5	1795
15	1751
25	1269
35	535
45	135
55	20
65	9
75	4
85	1
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	11396
55°	2081
65°	1271
75°	923
85°	685

*Candela/Square Meter

LTR-6RD-H-SUR-ML20L-DM1 / LTR-6RD-T-SUR-ML35K8XW-SS / LTR-6RD-CE-WT

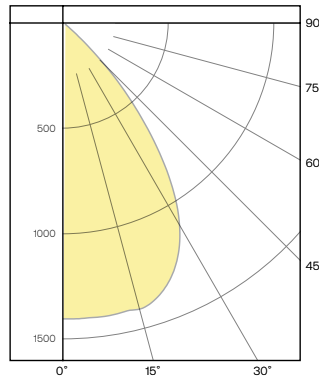
LUMINAIRE DATA

Test No.	23.00011
Description	2000 lm, Extra Wide, 3500K, 80 CRI
Delivered Lumens	1861
Watts	22.3W
Efficacy	94.4
Mounting	Recessed
Spacing Criterion	1.1
Beam Angle (FWHM)	74

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1625	87.3
0-60	1850	99.4
0-90	1861	100.0
0-180	1861	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1402
5	1402
15	1403
25	1261
35	853
45	254
55	15
65	7
75	3
85	1
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	21442
55°	1561
65°	989
75°	692
85°	685

*Candela/Square Meter

LTR-6RD-H-SUR-ML20L-DM1 / LTR-6RW-T-SUR-ML35K8WW-SS / LTR-6RD-CE-WT

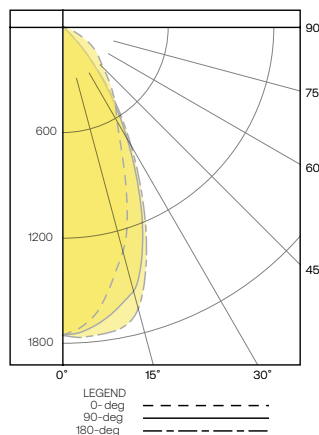
LUMINAIRE DATA

Test No.	22.01618
Description	2000 lm, Single Wall Wash, 3500K, 80 CRI
Delivered Lumens	1603
Watts	22.8W
Efficacy	72
Mounting	Recessed

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1343	83.8
0-60	1547	96.5
0-90	1603	100.0
0-180	1603	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1753
5	1682
15	1324
25	802
35	517
45	326
55	222
65	100
75	33
85	3
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	27519
55°	23103
65°	14124
75°	7611
85°	2055

*Candela/Square Meter

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PHOTOMETRY CONTINUED

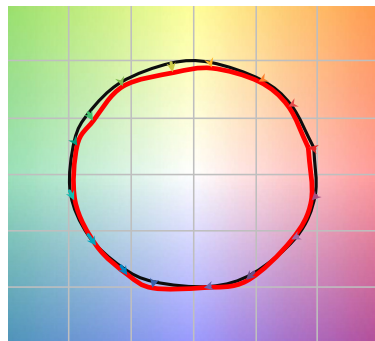
LUMEN MULTIPLIER

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



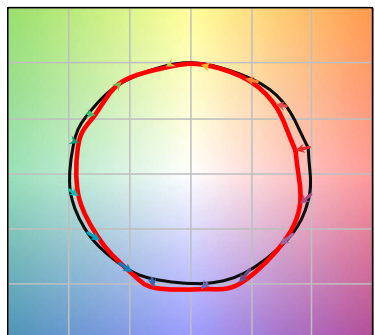
— Reference Illuminant — Test Source

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



— Reference Illuminant — Test Source

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/lifeshield.

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.

Bezel Trim

See installation instructions on currentlighting.com/lifeshield for complete details.

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.