

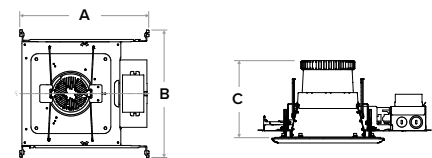
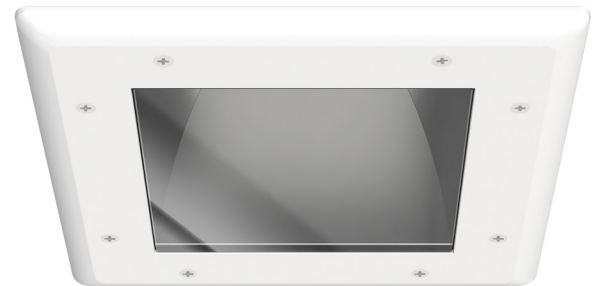
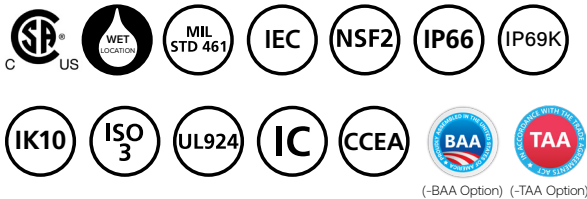
LTR-6SQD (SR)

6" SQUARE COMPLEX ENVIRONMENT DOWNLIGHT
SURGICAL SUITE

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

FEATURES

- 6" square architectural LED downlight delivering 600–4000 lumens
- Five beam distributions 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)	6 (152)	8 (3.6)
20L - 30L	14.56 (370)	14.36 (365)	6.78 (172)	8.4 (3.8)
35L - 40L	14.56 (370)	14.36 (365)	7.96 (202)	9 (4.1)

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
- Steel platform with black finish and pre-installed bar hangers simplify installation
- Pre-wired junction box with snap-on covers for easy access
- 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)	62–87*
Life (Hours)	L90 / 55,000
Input Current (mA)	66–434 (120V)

* Based on Specular, 35K, 80 CRI

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

CATALOG #	
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HOUSING

LTR-6SQD-H	-	SUR	-			-	DM1			-
Aperture/Shape/Function		Housing Type		Lumen Package	Lumen Output		Driver Options	Voltage	Housing Options	
LTR-6SQD-H		SUR	Surgical Suite	SL Standard Lumen	06L 600 10L 1000 15L 1500		DM1 0-10V Dimming to 1%	Standard 120-277V	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	
				ML Medium Lumen	20L 2000 25L 2500 ⁵ 30L 3000 ⁵					
				HL High Lumen ⁵	35L 3500 ⁵ 40L 4000 ⁵					

TRIM

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

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 TAA Trade Agreements Act (FAR 52.225-11) Compliant
S Specular	CG Champagne Gold	
SS Semi-Specular	BL Black	
VS Softglow®	LW Light Wheat	
	PW Pewter	
	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.
- Not available for MIL 461G or IEC.

BEZEL

Bezel Type	Bezel Trim Color	Options
LTR-6SQD-CE	6" Square Bezel Trim Assembly with Clear Polycarbonate Lens, Stainless Steel Philips Head Screws (included)	WT White WTAM White Antimicrobial
LTR-6SQD-CEVR	6" Square 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

Performance data provided below is for 3500K, 80 CRI

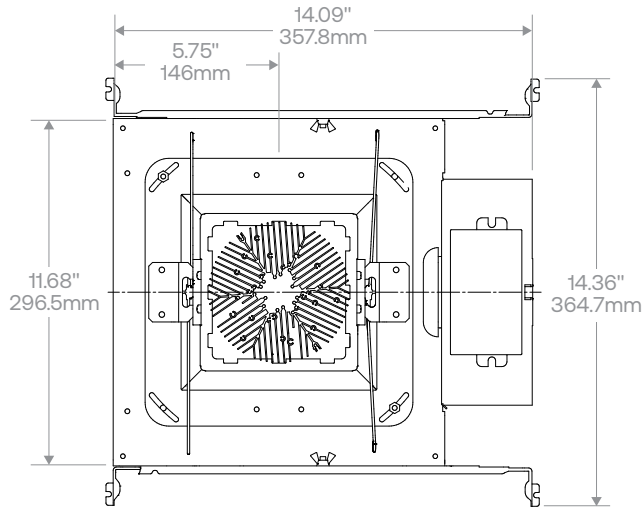
Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
06L	600	Very Narrow	599	7.8	77
		Narrow	611	7.8	78
		Medium	587	7.8	75
		Wide	549	7.8	70
		Extra Wide	508	7.8	65
10L	1000	Very Narrow	958	12.0	80
		Narrow	976	12.0	81
		Medium	938	12.0	78
		Wide	877	12.0	73
		Extra Wide	812	12.0	68
15L	1500	Very Narrow	1376	18.7	74
		Narrow	1402	18.7	75
		Medium	1348	18.7	72
		Wide	1259	18.7	67
		Extra Wide	1166	18.7	62
20L	2000	Very Narrow	1891	22.2	85
		Narrow	1927	22.2	87
		Medium	1853	22.2	84
		Wide	1731	22.2	78
		Extra Wide	1603	22.1	73
25L	2500	Very Narrow	2299	27.7	83
		Narrow	2342	27.7	85
		Medium	2253	27.7	81
		Wide	2104	27.7	76
		Extra Wide	1949	27.7	70
30L	3000	Very Narrow	2739	34.3	80
		Narrow	2791	34.3	81
		Medium	2684	34.3	78
		Wide	2508	34.3	73
		Extra Wide	2322	34.3	68
35L	3500	Very Narrow	3327	43.0	77
		Narrow	3391	43.0	79
		Medium	3261	43.0	76
		Wide	3046	43.0	71
		Extra Wide	2821	43.0	66
40L	4000	Very Narrow	3804	51.6	74
		Narrow	3876	51.6	75
		Medium	3727	51.6	72
		Wide	3482	51.6	67
		Extra Wide	3224	51.6	62

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6" SQUARE COMPLEX ENVIRONMENT DOWNLIGHT
SURGICAL SUITE

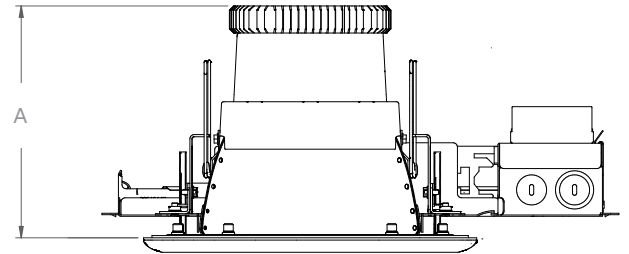
DIMENSIONS

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	



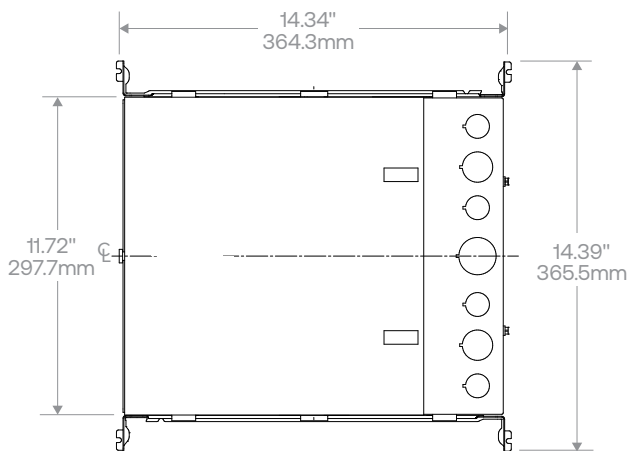
Top View

LTR-6SQD-H-SUR New Construction



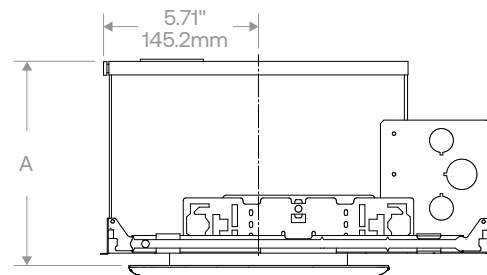
Dimensional Data	
Aperture Opening	□ 6.00" (152.4 mm)
Overall Flange	□ 9.69" (246.1 mm)
Bezel (below ceiling)	0.42" (10.7 mm)
Ceiling Cutout	□ 8.50" (215.9 mm)
Ceiling Thickness	0.50" to 2.00" (12.7 mm to 50.8 mm)

Lumen Package	"A"
06L-15L	6.00" (152.4 mm)
20L-30L	6.78" (172.2 mm)
35L-40L	7.96" (202.2 mm)



Top View

LTR-6SQD-H-SUR IC / CP



Dimensional Data	
Aperture Opening	□ 6.00" (152.4 mm)
Overall Flange	□ 9.69" (246.1 mm)
Bezel (below ceiling)	0.42" (10.7 mm)
Ceiling Cutout	□ 8.50" (215.9 mm)
Ceiling Thickness	0.50" to 2.00" (12.7 mm to 50.8 mm)

Lumen Package	"A"
Standard	7.68" (195.0 mm)
CP option ≥35L	10.06" (255.5 mm)

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6" SQUARE COMPLEX ENVIRONMENT DOWNLIGHT
SURGICAL SUITE

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PHOTOMETRY

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

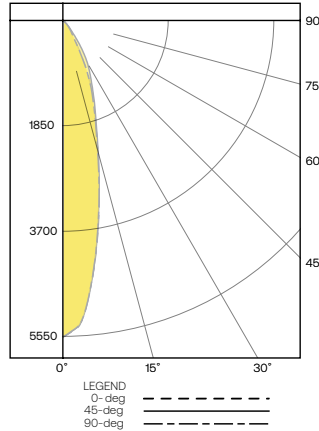
LUMINAIRE DATA

Test No.	22.01423
Description	2000 lm, Very Narrow, 3500K, 80 CRI
Delivered Lumens	1891
Watts	22.2W
Efficacy	85
Mounting	Recessed
Spacing Criterion	0.4
Beam Angle (FWHM)	26

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1775	93.9
0-60	1877	99.3
0-90	1891	100.0
0-180	1892	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	5538
5	4905
15	2304
25	983
35	248
45	89
55	19
65	8
75	4
85	2
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	5419
55°	1426
65°	815
75°	665
85°	988

*Candela/Square Meter

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

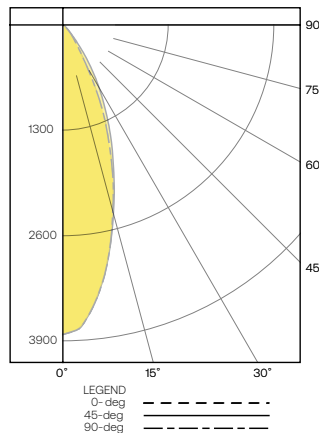
LUMINAIRE DATA

Test No.	22.01424
Description	2000 lm, Narrow, 3500K, 80 CRI
Delivered Lumens	1927
Watts	22.2W
Efficacy	87
Mounting	Recessed
Spacing Criterion	0.6
Beam Angle (FWHM)	37

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1801	93.4
0-60	1914	99.3
0-90	1927	100.0
0-180	1927	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	3815
5	3599
15	2378
25	1146
35	301
45	102
55	20
65	8
75	3
85	2
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	6211
55°	1501
65°	815
75°	499
85°	988

*Candela/Square Meter

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

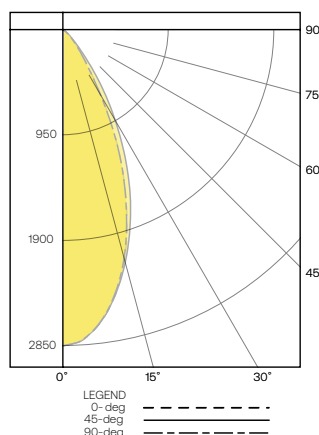
LUMINAIRE DATA

Test No.	22.01651
Description	2000 lm, Medium, 3500K, 80 CRI
Delivered Lumens	1853
Watts	22.2W
Efficacy	84
Mounting	Recessed
Spacing Criterion	0.7
Beam Angle (FWHM)	45

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1713	92.4
0-60	1839	99.3
0-90	1853	100.0
0-180	1853	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	2849
5	2756
15	2144
25	1176
35	361
45	108
55	22
65	9
75	4
85	1
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	6576
55°	1651
65°	917
75°	665
85°	494

*Candela/Square Meter

LTR-6SQD (SR)

6" SQUARE COMPLEX ENVIRONMENT DOWNLIGHT
SURGICAL SUITE

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PHOTOMETRY CONTINUED

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

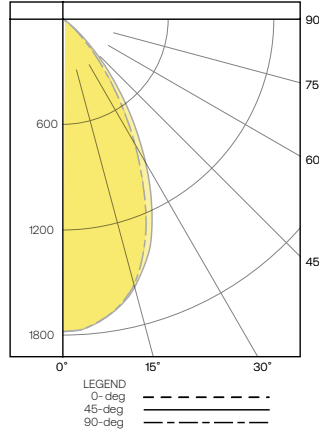
LUMINAIRE DATA

Test No.	22.01426
Description	2000 lm, Wide, 3500K, 80 CRI
Delivered Lumens	1731
Watts	22.2W
Efficacy	78.0
Mounting	Recessed
Spacing Criterion	0.9
Beam Angle (FWHM)	57

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1501	86.7
0-60	1714	99.0
0-90	1731	100.0
0-180	1731	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1773
5	1747
15	1552
25	1089
35	552
45	181
55	30
65	11
75	5
85	2
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	11021
55°	2252
65°	1121
75°	832
85°	988

*Candela/Square Meter

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

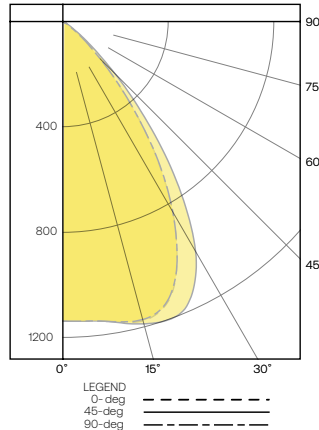
LUMINAIRE DATA

Test No.	22.01427
Description	2000 lm, Extra Wide, 3500K, 80 CRI
Delivered Lumens	1603
Watts	22.1W
Efficacy	73
Mounting	Recessed
Spacing Criterion	1.1
Beam Angle (FWHM)	69

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1354	84.0
0-60	1587	99.0
0-90	1603	100.0
0-180	1603	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1136
5	1140
15	1175
25	1021
35	605
45	198
55	30
65	10
75	4
85	1
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	12056
55°	2252
65°	1019
75°	665
85°	494

*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.

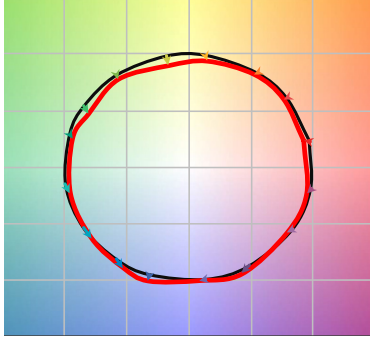
LTR-6SQD (SR)

6" SQUARE COMPLEX ENVIRONMENT DOWNLIGHT

SURGICAL SUITE

TM-30 DATA

COLOR VECTOR GRAPHIC
3500K, 90 CRI



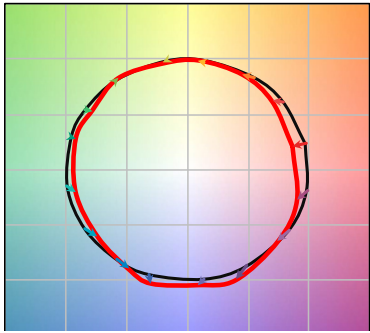
— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
3500K, 90 CRI



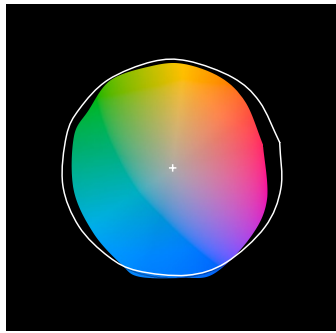
TEST RESULTS - 3500K		
Value	80+ CRI	90+ CRI
R_f	84	88
R_g	95	95
CCT (K)	3411	3419
D_{uv}	0.0015	0.0042
x	0.4120	0.4147
y	0.3974	0.4052
CIE R_a	84	93
CIE R_g	11	62

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

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

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.

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