

6" ROUND COMPLEX ENVIRONMENT DOWNLIGHT

#### **CLEANROOM / FOOD PROCESSING**

#### **FEATURES**

- 6" round architectural LED downlight delivering 600-4000 lumens
- · Five beam distributions and wall wash allow for controlled illumination with a non-institutional appearance
- 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, as well as an option for Amber (590 nm) support a wide array of applications
- · Aluminum anodized reflectors accommodate a wide array of colors and finishes
- Closed cell silicone gasket protects against dust and water ingress. Supports an ISO 3 cleanroom rating.
- Wet location and IP66/IP69K ingress protection ratings allow use in wet environments, including hose down and high temperature, sanitation applications
- · Durable, marine grade, die cast aluminum bezel trim (low-copper alloy) with optional antimicrobial paint finish is NSF2 certified
- Flush, .250" thick polycarbonate lens allows for easy wipe down and impedes the accumulation of dirt and organic material























DATE

TYPE:

CATALOG #:

LOCATION:

PROJECT:







#### MIL461G, IEC AVAILABLE ON LTR 6RD (SR)

#### **CONTROLS TECHNOLOGY**





#### **SPECIFICATIONS**

#### CONSTRUCTION

- Corrosion resistant, marine grade (low copper alloy), die cast aluminum bezel trim, optional tamper
- · Flush, impact resistant .250" thick, clear polycarbonate lens for ease of wine down
- · Closed cell silicone gasket prevents dust and water ingress for IP66, IP69K, ISO3 certification
- · Standard Non-IC, options for IC and Chicago Plenum
- · Steel platform with black finish and pre-installed bar hangers simplify installation
- Pre-wired junction box with snap-on covers provide easy wiring 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, 347V optional
- · UL Class 2, inherent short circuit and overload protection
- Flicker free 0-10V dimming with 1% or <1% performance
- · DALI and Lutron EcoSystem options
- · NX Lighting Controls provides options for standalone and networked functionality with wired or wireless connectivity for NX system deployments
- · Battery pack with remote test switch and indicator available

#### INSTALLATION

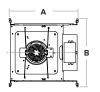
- Accommodates ceiling thickness up to 2" (See DIMENSIONS section for details)
- · Universal adjustable mounting brackets also accept 0.5" EMT conduit or 1.5" or 0.75" lathing channel (by others) or Prescolite accessory bar hangers (B24 or B6)
- · Light Engine/Driver fully serviceable from above or below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



## SERVICE PROGRAMS tradeSELECT QS1()





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

#### **CERTIFICATIONS (CONTINUED)** NSF2 Non-Food Zone certified

- · 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





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Gray Shading
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= Service Program tradeSELECT QS10



#### **ORDERING GUIDE**

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

Voltage

CATALOG #

#### HOUSING

e/Function
,
8" Round Downlight New Construction Housing

Lum	en Package	Lume	n Output
SL	Standard	06L	600
	Lumen	10L	1000
		15L	1500
ML	Medium	20L	2000
	Lumen	25L	2500
		30L	3000
HL	0	35L	3500
	Lumen	40L	4000

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DM1	0-10V Dimming to 1%
DM01	0-10V Dimming to < 1% <sup>2</sup>
DALI	DALI Dimming to 1% <sup>2</sup>
EDM	Lutron Hi-Lume EcoSystem Dimming to 1% <sup>2</sup>

iver Options

NX Lighting Controls Networked Wireless		Standard 120-277V	
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>3</sup>	34	347V <sup>4</sup>
Notwork	rad Wirad		

**Control Options** 

## Networked Wired NXE NX Wired Dual RJ45 SmartPORTS,

# without Sensor 3

#### indicator light 7 DTS Device Transfer Switch with Dimming Bypass 7,8

**Housing Options** 

IC

**EMR** 

BAA

TAA

Chicago Plenum 5,7

IC rated 6,7

7W Emergency Battery Pack (CEC Title 20 Compliant) with remote test switch and

GTD Generator Transfer Device 7,11 F Fuse 7

> Buy American Act (FAR 52.225-9) Compliant

Trade Agreements Act (FAR 52.225-11) Compliant

#### TRIM

Aperture/Shape/Function				
LTR-6RD-T	6" Round Downlight Light Engine/ Trim Assembly			
LTR-6RW-T	6" Round Wall Wash Light Engine/Trim Assembly 9			

Trim Assembly	
6" Round Wall Wash Light	
Engine/Trim Assembly 9	

Lum	en Package	ССТ		С
SL	Standard	27K	2700K	8
	Lumen	30K	3000K	9
ML	Medium Lumen	35K	3500K	
HL	High	40K	4000K	
	Lumen	50K	5000K1	
		AMB	Amber	

CRI		Distribution				
8	80+CRI	VNR	Very Narrow (0.3 SC/20°) 10			
9	90+CRI	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°)			
		ww	Single Wall Wash 9			

#### TRIM CONTINUED

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

#### Notes:

- 5000K available in 80+ CRI only.
- FDM available in 101 -351
- NX requires DM1 driver option.
- 347V requires DM1 driver option; available 06L-30L; not available with Controls, F, GTD, DTS, EMR.
- CP not available with Controls, or EMR options.
- IC available up to 20L; not available with Controls options.
- Housing options (except Fuse, BAA/TAA) not available in
- DTS available with DM1, DM01, or DALI. Not available with NXE.
- Wall wash trim requires WW distribution option.
- 10 VNR not available with AMB CCT.
- Not available with NXE

#### **BEZEL**

в	веzе	Пу	ре	
	LTR-6	BRD	-CE	=

6" Round Bezel Trim Assembly with Clear Polycarbonate Lens, Stainless Steel Philips Head Screws (included)

LTR-6RD-CEVR

6" Round Bezel Trim Assembly with Clear Polycarbonate Lens, Stainless steel tamper resistant Torx® center pin reject (included)

## WT White WTAM White Antimicrobial

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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#### **NX LIGHTING CONTROLS**



				Control Option Functionality								
	Control Option Ordering Logic & Description		Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Control	Option Components
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	<b>✓</b>	<b>✓</b>	<b>✓</b>	-	-	<b>✓</b>	<b>√</b>	<b>✓</b>	8	NXRM2-H
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor	<b>√</b>	<b>√</b>	<b>√</b>	-	-	<b>√</b>	<b>✓</b>	<b>√</b> 1	20	NXDSP

<sup>1</sup> 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



6" ROUND COMPLEX ENVIRONMENT DOWNLIGHT **CLEANROOM / FOOD PROCESSING** 

## PERFORMANCE DATA TABLE (3500K, 80CRI)

Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
		Very Narrow	625	7.8	80
		Narrow	605	7.8	78
		Medium	624	7.8	80
06L	600	Wide	545	7.8	70
		Extra Wide	590	7.8	76
		Wall Wash	508	7.8	65
		Very Narrow	999	12.0	83
		Narrow	967	12.0	81
101	1000	Medium	997	12.0	83
10L	1000	Wide	871	12.0	73
		Extra Wide	942	12.0	79
		Wall Wash	812	12.0	68
		Very Narrow	1435	18.7	77
		Narrow	1390	18.7	74
451	4500	Medium	1432	18.7	77
15L	1500	Wide	1251	18.7	67
		Extra Wide	1354	18.7	72
		Wall Wash	1166	18.7	62
		Very Narrow	1973	22.2	89
		Narrow	1910	22.2	86
001	2000	Medium	1969	22.2	89
20L		Wide	1720	22.2	77
		Extra Wide	1861	22.2	84
		Wall Wash	1603	22.2	72
		Very Narrow	2398	27.7	87
		Narrow	2322	27.7	84
25L	2500	Medium	2394	27.7	86
20L	2500	Wide	2091	27.7	75
		Extra Wide	2262	27.7	82
		Wall Wash	1949	27.7	70
		Very Narrow	2858	34.3	83
		Narrow	2767	34.3	81
30L	3000	Medium	2852	34.3	83
JUL	3000	Wide	2492	34.3	73
		Extra Wide	2696	34.3	79
		Wall Wash	2322	34.3	68
		Very Narrow	3472	43.0	81
		Narrow	3361	43.0	78
35L	3500	Medium	3465	43.0	81
JUL	3500	Wide	3027	43.0	70
		Extra Wide	3275	43.0	76
		Wall Wash	2821	43.0	66
		Very Narrow	3969	51.6	77
		Narrow	3842	51.6	74
		Medium	3961	51.6	77
40L	4000	Wide	3460	51.6	67
		Extra Wide	3743	51.6	73
		Wall Wash	3224	51.6	62

DATE:

TYPE:

CATALOG #:

LOCATION: PROJECT:

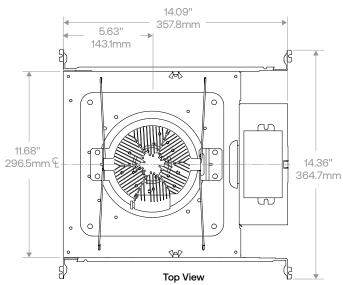




6" ROUND COMPLEX ENVIRONMENT DOWNLIGHT

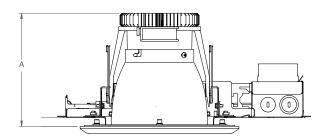
**CLEANROOM / FOOD PROCESSING** 

#### **DIMENSIONS**



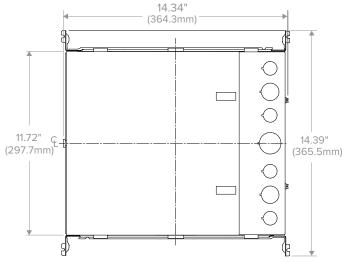
LTR-6RD-H New Construction

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

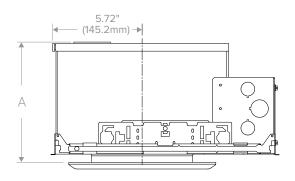


Dimensional Data						
Aperture Opening	Ø 5.75" (146.1 mm)					
Overall Flange	Ø 9.42" (293.3 mm)					
Bezel (below ceiling)	0.42" (10.7 mm)					
Ceiling Cutout	Ø 8.25" (209.6 mm)					
Ceiling Thickness	0.50" to 2.00" (12.7 mm to 50.8 mm)					

Lumen Package	"A"
06L-15L	5.90" (149.9mm)
20L-30L	6.68" (169.7mm)
35L-40L	7.86" (199.6mm)



LTR-6RD-IC / LTR-6RD-CP



Dimensional Data						
Aperture Opening	Ø 5.75" (146.1 mm)					
Overall Flange	Ø 9.42" (293.3 mm)					
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)					

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





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#### **PHOTOMETRY**

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

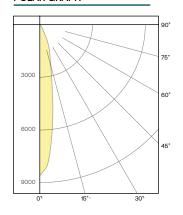
#### **LUMINAIRE DATA**

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

#### **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

#### 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

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

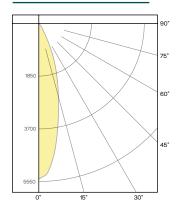
#### LUMINAIRE DATA

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

#### **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

#### 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

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

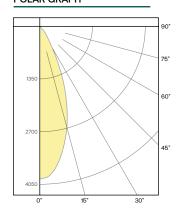
#### **LUMINAIRE DATA**

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

#### **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

#### 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



6" ROUND COMPLEX ENVIRONMENT DOWNLIGHT

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#### **PHOTOMETRY CONTINUED**

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

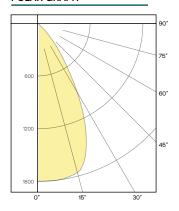
#### LUMINAIRE DATA

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

<sup>\*</sup>Candela/Square Meter

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

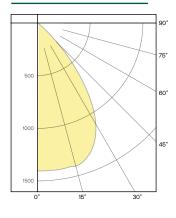
#### LUMINAIRE DATA

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

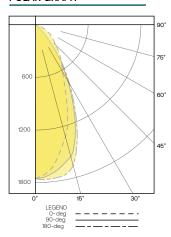
#### LUMINAIRE DATA

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	AMB
Multiplier	0.94	0.98	1.00	1.01	1.02	0.81	0.84	0.85	0.85	0.81

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

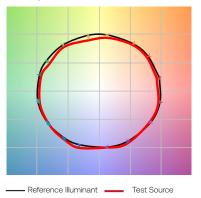
## REFLECTOR COLOR MULTIPLIER (Based on Semi-Specular (SS) Finish)

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

#### TM-30 DATA

COLOR VECTOR GRAPHIC 3500K, 90 CRI

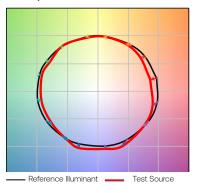


COLOR DISTORTION GRAPHIC 3500K, 90 CRI



TEST RESULTS - 3500K						
Value	80+ CRI	90+ CRI				
$R_f$	84	88				
R <sub>g</sub>	95	95				
CCT (K)	3411	3419				
D <sub>uv</sub>	0.0015	0.0042				
Х	0.4120	0.4147				
У	0.3974	0.4052				
CIE R <sub>a</sub>	84	93				
CIE R <sub>9</sub>	11	62				

COLOR VECTOR GRAPHIC 3500K, 80 CRI



COLOR DISTORTION GRAPHIC 3500K, 80 CRI





6" ROUND COMPLEX ENVIRONMENT DOWNLIGHT **CLEANROOM / FOOD PROCESSING** 

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

#### **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			

<sup>\*</sup> Values for DM1 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.

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.

#### <u>Lumen Output in Emergency Mode</u>

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.

