

4" ROUND COMPLEX ENVIRONMENT DOWNLIGHT

VANDAL RESISTANT / BEHAVIORAL

FEATURES

- 4" round architectural LED downlight delivering 600-4000 lumens
- · Five beam distributions and wall wash allow for controlled illumination that provides security with a non-institutional appearance
- 50° cutoff to source and source image reduces glare to facilitate a calming environment.
- 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 in a wide array of colors and finishes creates a more architectural look in behavioral spaces
- $\bullet \ \ \text{Wet location and IP66/IP69K ingress protection ratings allow for use in wet environments,}$ including exterior covered ceilings and canopies.
- Durable, marine grade, die cast aluminum bezel trim (low-copper alloy) withstands impact, weathering. Optional tamper resistant fasteners avoids unauthorized entry
- Flush, shatter resistant, .250" thick polycarbonate lens meets IK10 (per IEC 60068-2-75 impact testing) making it ideal for behavioral and vandal resistant applications























DATE

TYPE:

CATALOG #:

LOCATION

PROJECT:





MIL461G, IEC AVAILABLE ON LTR 4RD (SR)

CONTROLS TECHNOLOGY





SPECIFICATIONS

CONSTRUCTION

- Corrosion resistant, marine grade (low copper alloy), die cast aluminum bezel trim, Tamper Resistant hardware as option
- · Flush, impact resistant .250" thick, clear polycarbonate lens supports IK10 certification, deters unauthorized entry
- · 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 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
- · 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

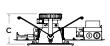


SERVICE PROGRAMS









Typical Dimensions and Weights									
Lumen Package	"A" Length Inches (mm)	"B" Width Inches (mm)	"C" Height Inches (mm)	Weight Ibs (kg)					
06L - 15L	14.56 (370)	14.36 (365)	4.97 (126)	7.4 (3.3)					
20L - 30L	14.56 (370)	14.36 (365)	6.15 (156)	7.8 (3.6)					
35L - 40L	14.56 (370)	14.36 (365)	7.33 (186)	8.3 (3.8)					

See DIMENSIONS section for complete details

CERTIFICATIONS (CONTINUED)

- · NSF2 Non-Food Zone certified
- · EMR Option: 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) Solution

WARRANTY

· 5 year warranty

KEY DATA								
Lumen Range	600-4000							
Wattage Range	8-52							
Efficacy Range (LPW)	52-83*							
Reported Life (Hours)	L90/>55,000							
Input Current (mA)	66-434 (120V)							

*Based on 35K, 80 CRI





4" ROUND COMPLEX ENVIRONMENT DOWNLIGHT

VANDAL RESISTANT / BEHAVIORAL

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

Voltage

Standard

120-277V

34 347V





Chicago Plenum 5,7

7W Emergency

test switch and

indicator light 7

Device Transfer

Switch with

Battery Pack with

IC rated 6,7

remote

ORDERING GUIDE

Example: LTR-4RD-H-SL10L-DM1 / LTR-4RD-T-SL35K8MD-SS / LTR-4RD-CEVR-WTAM

CATALOG #

HOUSING

TRIM

LTR-4RD-H	
Aperture/Sh	ape/Function
LTR-4RD-H	4" Round Downlight New Construction Housing

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

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Driver Options								
DM1	0-10V Dimming to 1%							
DM01	0–10V Dimming to < 1% ²							
DALI	DALI Dimming to 1% ²							
EDM	Lutron Hi-Lume EcoSystem Dimming to 1% ²							

NX Lighting Controls Networked Wireless NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming,

Control Options

without Sensor 3

Networked Wired NXE NX Wired Dual

RJ45 SmartPORTS, without Sensor ³

Dimming Bypass 7,8 GTD Generator Transfer Device 7 Fuse 7

Housing Options

CP

IC

EMR

DTS

BAA Buy American Act (FAR 52.225-9) Compliant

TAA Trade Agreements Act (FAR 52.225-11) Compliant

Aperture/Sh	ape/Function
LTR-4RD-T	4" Round Downlight Light Engine/Trim Assembly
LTR-4RW-T	4" Round Wall Wash Light Engine/Trim Assembly ⁹

Lum	en Package	ССТ		CRI		Distril	bution
SL	Standard	27K	2700K	8	80+CRI	VNR	Very Narrow (0.3 SC/20°)10
	Lumen	30K	3000K	9	90+CRI	NR	Narrow (0.5 SC/30°)
ML	Medium Lumen	35K	3500K			MD	Medium (0.7 SC/43°)
HL	High	40K	4000K			WD	Wide(0.9 SC/58°)
	Lumen	50K	5000K 1			XW	Extra Wide (1.1 SC/70°)
		AMB	Amber			ww	Single Wall Wash 9

TRIM CONTINUED

Reflec	ctor Finish	Refle	ctor Color	Reflector Options		
Finish not applicable with painted		Standard Clear		BAA	Buy American Act	
reflectors (WC or BC)		CG Champagne			(FAR 52.225-9) Compliant	
S	Specular	BL	Gold Black	TAA	Trade Agreements	
SS	Semi- Specular	LW	Light Wheat		Act (FAR 52.225-11) Compliant	
MFC	American	PW	Pewter			
1411 0	Matte™	WC	Painted White Cone and Flange			
VS	Softglow®	вс	Painted Black			
VSS	SoftSheen™		Cone and Flange			

Notes:

- 5000K available in 80+ CRI only.
- 2 EDM available in 10L-35L
- NX requires DM1 driver option.
- $347\mathrm{V}$ requires DM1 driver option; available 06L–30L; not available with Controls, F, GTD, DTS, EMR.
- CP not available with Controls, or EMR options.
- 6 IC available up to 201: not available with Controls options.
- Housing options (except Fuse, BAA/TAA) not available in combination.
- DTS available with DM1, DM01, or DALI.
- Wall wash trim requires WW distribution option.
- VNR available up to 30L, not available with AMB CCT.

BEZEL

		-		-	-			Accessories	
Bezel Type		ı	Bezel Tri	im Color		Optio	ns	☐ B24	Set of two (2) 24" bar hangers for T-bar ceilings
LTR-4RD-CE	4" Round Bezel Trim Assembly with Clear Polycarbonate Lens,		WT	White		BAA	Buy American Act (FAR 52.225-9)	□ в6	Set of two bar hangers for
	Stainless Steel Philips Head Screws		WTAM	White			Compliant	□ 80	ceiling joist up to 24" centers
	(included)			Antimicrobial		TAA	Trade Agreements	LiteGear	LiteGear® Inverter, 25VA-250VA
LTR-4RD-CEVR	4" Round Bezel Trim Assembly with Clear Polycarbonate Lens, Stainless steel tamper resistant Torx® center pin reject (included)						Act (FAR 52.225-11) Compliant	LPS Series	LightPower Micro-Inverter, 20VA–55VA



4" ROUND COMPLEX ENVIRONMENT DOWNLIGHT

VANDAL RESISTANT / BEHAVIORAL

DATE:	LOCATION:	
TYPE:	PROJECT:	
CATALOG #:		

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	√	✓	√	-	-	√	√	✓	8	NXRM2-H
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor	✓	✓	✓	-	-	√	✓	√ ₁	22	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



VANDAL RESISTANT / BEHAVIORAL

Lighting for Complex Spaces	TYPE:	PROJECT:
TR-4RD (VR)	CATALOG #:	
DOLIND COMPLEY ENVIDONMENT DOM/NI IGHT		

DATE:

LOCATION:

PERFORMANCE DATA TABLE (3500K, 80CRI)

Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
		Very Narrow	571	7.6	75
		Narrow	563	7.8	72
0.01		Medium	541	7.8	69
06L	600	Wide	483	7.8	62
		Extra Wide	501	7.8	64
		Wall Wash	427	7.8	55
		Very Narrow	935	11.3	83
		Narrow	900	12.0	75
401	1000	Medium	866	12.0	72
10L	1000	Wide	773	12.0	64
		Extra Wide	802	12.0	67
		Wall Wash	682	12.0	57
		Very Narrow	1340	17.3	77
		Narrow	1287	18.6	69
15L	1500	Medium	1239	18.6	67
IDL	1500	Wide	1106	18.6	59
		Extra Wide	1146	18.6	62
		Wall Wash	976	18.6	52
	2000	Very Narrow	1678	22.8	74
		Narrow	1745	22.0	79
20L		Medium	1679	22.3	75
20L		Wide	1499	22.2	68
		Extra Wide	1554	22.2	70
		Wall Wash	1323	22.0	60
		Very Narrow	2021	28.6	71
		Narrow	2141	27.8	77
25L	2500	Medium	2060	27.8	74
200	2300	Wide	1839	27.8	66
		Extra Wide	1906	27.8	69
		Wall Wash	1623	27.8	58
		Very Narrow	2358	36.0	66
		Narrow	2570	34.6	74
30L	3000	Medium	2472	34.6	71
002	3000	Wide	2207	34.6	64
		Extra Wide	2288	34.6	66
		Wall Wash	1948	34.6	56
		Narrow	3070	42.9	72
		Medium	2954	42.9	69
35L	3500	Wide	2637	42.9	61
		Extra Wide	2734	42.9	64
		Wall Wash	2327	42.9	54
		Narrow	3369	51.5	65
		Medium	3504	51.5	68
40L	4000	Wide	3371	51.5	65
		Extra Wide	3010	51.5	58
		Wall Wash	2656	51.5	52





4" ROUND COMPLEX ENVIRONMENT DOWNLIGHT

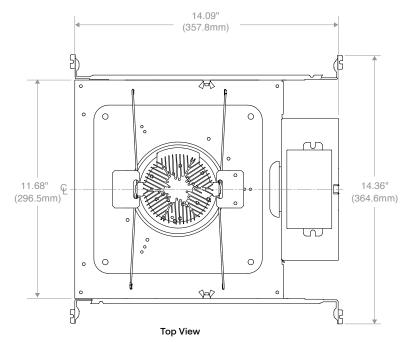
VANDAL RESISTANT / BEHAVIORAL

DIMENSIONS

DATE: LOCATION:

TYPE: PROJECT:

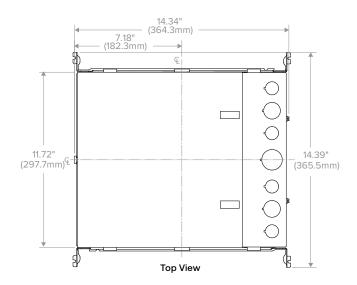
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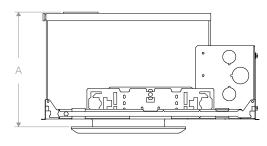


Dimensional Data				
Aperture Opening	4.00" (101.6mm)			
Overall Flange	Ø 7.67" (194.8 mm)			
Bezel (below ceiling)	0.42" (10.7 mm)			
Ceiling Cutout:	Ø 6.50" (165.1 mm)			
Ceiling Thickness:	0.50" to 2.00" (12.7 mm to 50.8 mm)			

Lumen Package	"A"
06L-15L	4.97" (126.2mm)
20L-30L	6.15" (156.2mm)
35L-40L	7.33" (186.2mm)







LTR-4RD-H IC/CP

Dimensional Data				
Aperture Opening	4.00" (101.6mm)			
Overall Flange	Ø 7.67" (194.8 mm)			
Bezel (below ceiling)	0.42" (10.7 mm)			
Ceiling Cutout:	Ø 6.50" (165.1 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)



4" ROUND COMPLEX ENVIRONMENT DOWNLIGHT

VANDAL RESISTANT / BEHAVIORAL

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

PHOTOMETRY

LTR-4RD-H-ML20L-DM1 / LTR-4RD-T-ML35K8VNR-SS / LTR-4RD-CEVR-WT

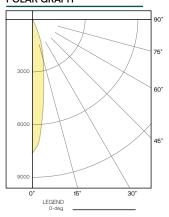
LUMINAIRE DATA

Test No.	23.00004
Description	2000 lm, Very Narrow, 3500K,
	80 CRI
Delivered Lumens	1678
Watts	22.8W
Efficacy	74
Mounting	Recessed
Spacing Criterion	0.3
Beam Angle (FWHM)	20

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1633	97.3
0-60	1666	99.3
0-90	1678	100.0
0-180	1678	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	7663
5	6093
15	2462
25	713
35	146
45	24
55	11
65	7
75	4
85	1
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	4186
55°	2366
65°	2043
75°	1906
85°	1415

*Candela/Square Meter

LTR-4RD-H-ML20L-DM1 / LTR-4RD-T-ML35K8NR-SS / LTR-4RD-CEVR-WT

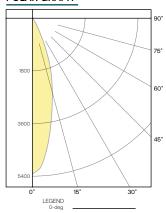
LUMINAIRE DATA

Test No.	23.00005
Description	2000 lm, Narrow, 3500K, 80 CRI
Delivered Lumens	1745
Watts	22.0W
Efficacy	79
Mounting	Recessed
Spacing Criterion	0.5
Beam Angle (FWHM)	30

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1700	97.4
0-60	1736	99.5
0-90	1745	100.0
0-180	1745	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	5312
5	4757
15	2623
25	907
35	196
45	27
55	9
65	5
75	3
85	1
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	4710
55°	1935
65°	1459
75°	1430
85°	1415

*Candela/Square Meter

LTR-4RD-H-ML20L-DM1 / LTR-4RD-T-ML35K8MD-SS / LTR-4RD-CEVR-WT

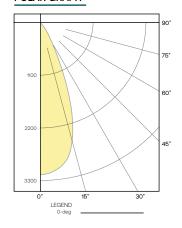
LUMINAIRE DATA

Test No.	23.00006
Description	2000 lm, Medium, 3500K, 80 CRI
Delivered Lumens	1679
Watts	22.3W
Efficacy	75
Mounting	Recessed
Spacing Criterion	0.7
Beam Angle (FWHM)	43

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1633	97.3
0-60	1669	99.4
0-90	1679	100.0
0-180	1679	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	3167
5	3106
15	2546
25	1036
35	255
45	25
55	10
65	6
75	3
85	1
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	4361
55°	2150
65°	1751
75°	1430
85°	1415

*Candela/Square Meter



4" ROUND COMPLEX ENVIRONMENT DOWNLIGHT

VANDAL RESISTANT / BEHAVIORAL

DATE: LOCATION: TYPE: PROJECT: CATALOG #:

PHOTOMETRY CONTINUED

LTR-4RD-H-ML20L-DM1 / LTR-4RD-T-ML35K8WD-SS / LTR-4RD-CEVR-WT

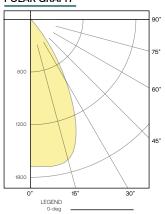
LUMINAIRE DATA

Test No.	22.00434
Description	2000 lm, Wide, 3500K, 80 CRI
Delivered Lumens	1499
Watts	22.2W
Efficacy	68
Mounting	Recessed
Spacing Criterion	0.9
Beam Angle (FWHM)	58

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1427	95.2
0-60	1486	99.1
0-90	1499	100.0
0-180	1499	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1677
5	1683
15	1651
25	1181
35	445
45	41
55	16
65	8
75	4
85	1
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	7152
55°	3441
65°	2335
75°	1906
85°	1415

^{*}Candela/Square Meter

LTR-4RD-H-ML20L-DM1 / LTR-4RD-T-ML35K8XW-SS / LTR-4RD-CEVR-WT

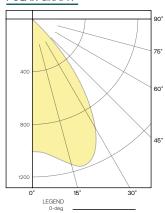
LUMINAIRE DATA

Test No.	23.00007
Description	2000 lm, Extra Wide, 3500K, 80 CRI
Delivered Lumens	1554
Watts	22.2W
Efficacy	70
Mounting	Recessed
Spacing Criterion	1.1
Beam Angle (FWHM)	70

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1370	88.2
0-60	1542	99.3
0-90	1554	100.0
0-180	1554	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1002
5	1015
15	1136
25	1117
35	725
45	175
55	19
65	7
75	3
85	1
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	30526
55°	4086
65°	2043
75°	1430
85°	1415

*Candela/Square Meter

LTR-4RD-H-ML20L-DM1 / LTR-4RW-T-ML35K8WW-SS / LTR-4RD-CEVR-WT

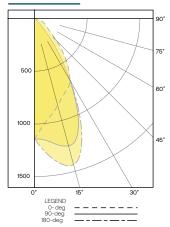
LUMINAIRE DATA

Test No.	22.01314
Description	2000 lm, Single Wall Wash, 3500K, 80 CRI
Delivered Lumens	1323
Watts	22.W
Efficacy	60
Mounting	Recessed

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1133	85.7
0-60	1275	96.4
0-90	1323	100.0
0-180	1323	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela		
0	1143		
5	1014		
15	853		
25	740		
35	553		
45	283		
55	143		
65	95		
75	30		
85	1		
90	0		

LUMINANCE DATA*

Vertical Angle	Average
45°	49366
55°	30752
65°	27727
75°	14297
85°	1415

*Candela/Square Meter



4" ROUND COMPLEX ENVIRONMENT DOWNLIGHT

VANDAL RESISTANT / BEHAVIORAL

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

PHOTOMETRY CONTINUED

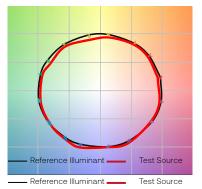
LUMEN MULTIPLIER

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.

TM-30 DATA

COLOR VECTOR GRAPHIC 3500K, 90 CRI

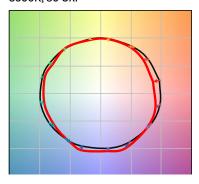


COLOR DISTORTION GRAPHIC 3500K, 90 CRI



TEST RESULTS - 3500K Value 80+ CRI 90+ CRI 88 R, 84 R 95 95 CCT (K) 3411 3419 0.0042 0.0015 $\mathsf{D}_{\mathsf{u}\mathsf{v}}$ Х 0.4120 0.4147 0.3974 0.4052 У 84 CIE R 93 CIE R_o 11 62

COLOR VECTOR GRAPHIC 3500K, 80 CRI



COLOR DISTORTION GRAPHIC 3500K, 80 CRI





LIGHT

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.

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.

DATE:

TYPE:

CATALOG #:

LOCATION:

PROJECT:

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.

