

6" SQUARE COMPLEX ENVIRONMENT DOWNLIGHT

VANDAL RESISTANT / BEHAVIORAL

FEATURES

- 6" aperture architectural LED downlight delivering 600-4000 lm (nominal)
- · Five beam distributions 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
- 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:



















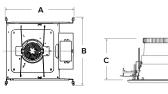






SERVICE PROGRAMS





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

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
- 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

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)	62-87*				
Life (Hours)	L90 / 55,000				
Input Current (mA)	66-434 (120V)				

* Based on Specular, 35K, 80 CRI





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DATE:	LOCATION:
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Voltage

Standard

120-277V

34 347V 4



Housing Options

CP

IC

EMR

DTS

Chicago Plenum 5,7

IC rated 6,7

7W Emergency

with remote

test switch and

indicator light 7

Device Transfer

Dimming Bypass 7,8

Switch with

Battery Pack (ČEC

Title 20 Compliant)



ORDERING GUIDE

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

CATALOG#

HOUSING

LTR-6SQD-H	-			
Aperture/Sha		Lum	en F	
LTR-6SQD-H	6" Square Downlight New Construction		SL	Sta Lu
	Housing		ML	Me Lu
			ш	Li∠

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

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Driver (Options
DM1	0-10V Dimmin to 1%
DM01	0-10V Dimmin to < 1% ²
DALI	DALI Dimming to 1% ²
EDM	Lutron Hi-Lum EcoSystem Dimming to 1%

3	Contro	ol Options
Dimming		hting Controls ked Wireless
Dimming 6 ² Dimming 2	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming,

e 6 2 NXE

without Sensor 3 Networked Wired NX Wired Dual

RJ45 SmartPORTS, without Sensor 3

ons

GTD Generator Transfer Device 7 F Fuse 7

> Buy American Act BAA (FAR 52.225-9) Compliant

TAA Trade Agreements Act (FAR 52.225-11) Compliant

TRIM

LTR-6SQD-T			
Aperture/Shape/Function			
LTR- 6SQD-T	6" Square Downlight Light Engine/ Trim Assembly		

Lum	en Package	ССТ		CR		Distrib	ution
SL	Standard	27K	2700K	8	80+CRI	VNR	Very Narrow (0.3 SC/20°) 9
	Lumen	30K	3000K	9	90+CRI	NR	Narrow (0.5 SC/30°)
ML	Medium Lumen	35K	3500K			MD	Medium (0.7 SC/40°)
HL	High	40K	4000K			WD	Wide (0.9 SC/59°)
	Lumen	50K	5000K1			XW	Extra Wide (1.1 SC/74°)
		AMB	Amber				

TRIM CONTINUED

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

Notes:

- 5000K available in 80+ CRI only.
- EDM available in 10L-35L.
- 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 combination.
- DTS available with DM1, DM01, or DALI.
- AMB not available with VNR.

BEZEL

Bezel Type	
LTR-6SQD-CE	6" Square Bezel Trim Assembly with Clear Polycarbonate Lens, Stainless Steel Philips Head Screws (included)
LTR-6SQD-CEVR	6" Square Bezel Trim Assembly with Clear Polycarbonate Lens, Stainless steel tamper resistant Torx® center pip reject (included)

Bezel Trim Color				
White				
White Antimicrobial				

Optio	ns
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 Ordering Logic & Description		Control Option Functionality									
			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		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



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DATE:	LOCATION:
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CATALOG #:	

LOCATION:

PERFORMANCE DATA TABLE

Performance data provided below is for 3500K, 80 CRI

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

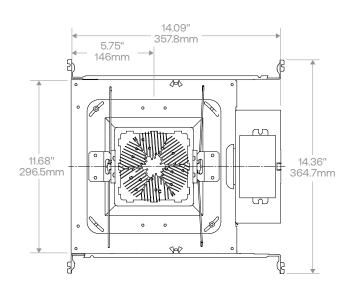




6" SQUARE COMPLEX ENVIRONMENT DOWNLIGHT

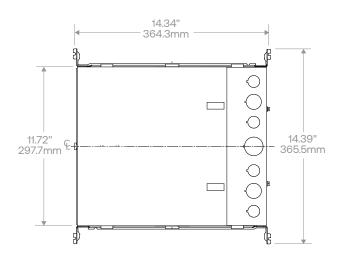
VANDAL RESISTANT / BEHAVIORAL

DIMENSIONS



Top View

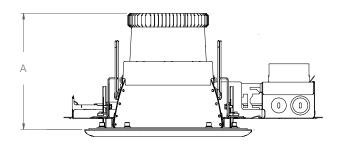
LTR-6SQD-H New Construction



Top View

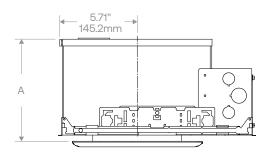
LTR-6SQD-H IC / CP





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



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)



6" SQUARE COMPLEX ENVIRONMENT DOWNLIGHT **VANDAL RESISTANT / BEHAVIORAL**

CATALOG #:

DATE: LOCATION TYPE: PROJECT:

PHOTOMETRY

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

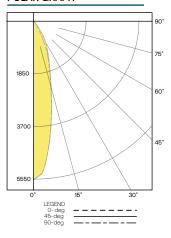
LUMINAIRE DATA

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-ML20L-DM1 / LTR-6SQD-T-ML35K8NR-SS / LTR-6SQD-CEVR-WT

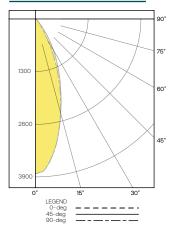
LUMINAIRE DATA

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-ML20L-DM1 / LTR-6SQD-T-ML35K8MD-SS / LTR-6SQD-CEVR-WT

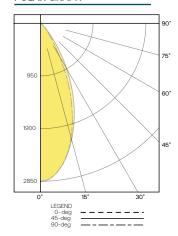
LUMINAIRE DATA

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





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VANDAL RESISTANT / BEHAVIORAL

DATE: LOCATION TYPE: PROJECT: CATALOG #:

PHOTOMETRY CONTINUED

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

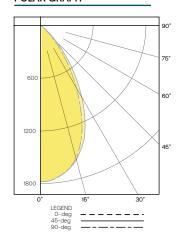
LUMINAIRE DATA

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-ML20L-DM1 / LTR-6SQD-T-ML35K8XW-SS / LTR-6SQD-CEVR-WT

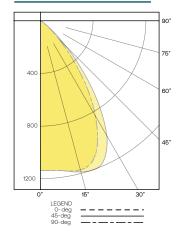
LUMINAIRE DATA

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	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.



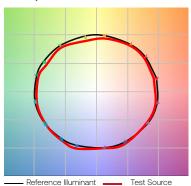


6" SQUARE COMPLEX ENVIRONMENT DOWNLIGHT

VANDAL RESISTANT / BEHAVIORAL

TM-30 DATA

COLOR VECTOR GRAPHIC 3500K, 90 CRI

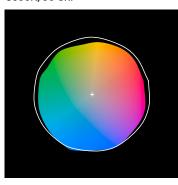


COLOR DISTORTION GRAPHIC 3500K, 90 CRI

DATE:

TYPE:

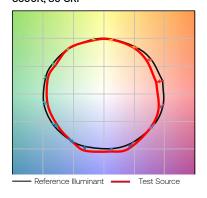
CATALOG #:



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				
У	0.3974	0.4052				
CIE R _a	84	93				
CIE R ₉	11	62				

LOCATION: PROJECT:

COLOR VECTOR GRAPHIC 3500K, 80 CRI



COLOR DISTORTION GRAPHIC 3500K, 80 CRI





6" SQUARE COMPLEX ENVIRONMENT DOWNLIGHT

VANDAL RESISTANT / BEHAVIORAL

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.

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.

DATE:

TYPE:

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LOCATION

PROJECT:

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, $7W \times 120 \text{ LPW} = 840 \text{ lumens}$ in emergency mode.

