

LITEFRAME 6" SQUARE ADJUSTABLE

DATE:	LOCATION:
TYPE:	PROJECT:

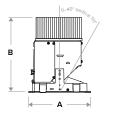
CATALOG #:

LITEFRAME



SERVICE PROGRAMS

STC/CK



Typical Dimensions and Weights							
Lumen Package	"A" Width Inches (mm)	"B" Height Inches (mm)	Weight Ibs (kg)				
10L - 35L	7.38 (187)	7.05 (179)	5.5 (2.5)				
40L - 50L	7.38 (187)	7.65 (194)	5.8 (2.6)				
60L - 80L	7.38 (187)	8.83 (224)	6.4 (2.9)				

See DIMENSIONS section for complete details

FEATURES

- 4" LED adjustable accent delivering 1000-8000 lumens
- Direct Install from below ceiling for New Construction or Remodel applications, optional IC and CP housing accessories available
- · Available in four beam distributions
- Precise hot aiming/locking 0-40° tilt
- 2700K-5000K, 80+ and 90+ CRI (2 SDCM)
- Dimming protocols include 0-10V, Phase (Forward/Reverse), DALI, DMX, and Lutron EcoSystem
- · NX Lighting Controls wired and wireless controls capability available



CONTROLS TECHNOLOGY





SPECIFICATIONS

CONSTRUCTION

- · Standard Fixture Module designed for Non-IC, Direct Install construction
- · Optional Non-IC frame, IC or CP housing available with pre-installed bar hangers
- Die cast aluminum fixture module support ring with spring steel clips for secure mounting to ceiling
- · Driver J-Box can be installed and accessed from below the ceiling as direct install or easily snap on to optional housing frame/enclosures
- · Light Engine connections use plenum rated (CMP) cable

- · Manual friction adjustment with angle indicator and thumbscrew lock for precise hot aiming
- Vertical Tilt: 40° (≤ 0.75" ceiling thickness); 30° (up to 1.25" ceiling thickness)
- · Multiple beam distributions allow dramatic effects with minimal occlusion · High purity, four panel aluminum reflector,
- · Standard Angle Cut cone in Specular or Semi-Specular anodized or White with painted flange options

ELECTRICAL

- · Chip-on-board LED with 2 SDCM
- · Multiple CCTs, 80+ or 90+ CRI
- Long LED life: L90 at >50,000 hours (TM-21)
- Universal voltage 120-277V driver, 347V optional
- UL Class 2, inherent short circuit and overload protection
- Flicker-free dimming in a wide range of protocols from 1% to <0.1% performance
- 0-10V, Phase (Forward/Reverse), DALI, DMX, and Lutron EcoSystem options
- · NX Lighting Controls provides options for standalone and networked functionality with wired or wireless connectivity for NX system deployments
- Emergency battery pack option available with remote test switch and indicator light

INSTALLATION

- Accommodates ceiling thickness from 0.50" to 1.25"
- · Fixture Module including driver fully accessible from above or below the ceiling
- 10L-15L Fixture Modules are inherently protected IC without the use of IC housing enclosure. (IC housing is still recommended when using loose-fill or spray foam insulation types.)
- · Chicago Plenum requires CP housing option

CERTIFICATIONS

- cCSAus certified to UL 1598
- For ≥50L: Marked spacing required 36" fixture center to center; 18" fixture center to building member; 0.5" above fixture
- · Suitable for damp locations
- EMR: Certified under UL 924 standard for emergency lighting and power equipment
- · EMR: Emergency battery packs are California Energy Commission (CEC) Title 20 Compliant
- · Approved for 8 (4 in/4 out) No. 12AWG conductors rated for 90°C through wiring

WARRANTY

· 5 year warranty

KEY DATA					
Lumen Range	1000–8000				
Wattage Range	8–70				
Efficacy Range (LPW)	102–130				
Reported Life (Hours)	L90 / >50,000				
Input Current (mA)	66-583 (120V)				

*Based on Specular, 35K, 80 CRI



self-flanged



LITEFRAME 6" SQUARE ADJUSTABLE

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

Gray Shading



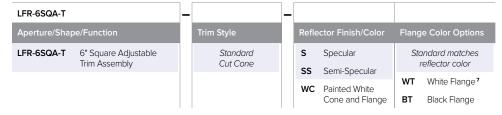
ORDERING GUIDE

Example: LFR-6SQA-M-10L35K8-WD-DM1 / LFR-6SQA-T-S / LFR-6SQD-H CATALOG #

FIXTURE MODULE

LFR	-6SQA-M	_[_			_							_[
Ap/S	Shp/Funct		Lumer	o Output	ССТ		CRI		Distr	ibution		Drive	Options	Contr	ol Options	Volta	age		Modu	le Options
	-6SQA-M		10L	1000	27K	2700K	8 80+		VNR	Very		DM1	0–10V Dimming to 1%	NX Li	ghting Controls		andard		EMR	6W Emergency
	6" Square Adjustable Fixture Module for Direct Install		15L	1500	30K	3000K	9 90+			Narrow (15°)	F@\	DMO1	0–10V Dimming	Netwo	Networked Wireless	120–277V			Battery Pack (CEC Title 20 Compliant)	
			20L	2000	35K	3500K			NR	Narrow		5	to < 1%2	NXW	NX Networked Wireless Radio	34	34 347V ⁴			with remote test switch and indicator
	I-IC frame, IC		25L	2500	40K	4000K				(24°)		PDM	Phase (Forward/ Reverse)		Module NXRM2 and Bluetooth Programming,					light ⁵
or Cl	or CP housings available under Housing Options below)		30L	3000	50K	5000K			MD	Medium (38°)			Dimming to 1% ²						DTS	Device Transfer
			35L 3500 WD Narrow	DMX	DMX with RDM dimming to	without Sensor ³				Switch with Dimming Bypass ^{5,6}										
			40L	4000					"	(52°)			< 0.1% ²		orked Wired					
			50L	5000								DALI	DALI Dimming to 1% ²	NXE	NX Wired Dual RJ45					
			60L	60001								2DM	Lutron Hi-Lume		SmartPORTS, without Sensor ³					
			70L	7000 1									2-wire Dimming to 1% (120V Forward		Without Sensor					
			80L	80001									Phase only) ²							
												EDM	Lutron Hi-Lume EcoSystem Dimming to 1% ²							

TRIM (Ships separately)



HOUSING OPTIONS (Ships separately)

Aperture/Shape/Function						
	LFR-6SQD-H	6" Housing Frame, New Construction, Non-IC				
	LFR-6SQD-H-IC	6" Housing Enclosure, New Construction, IC Rated ^{8,9}				
	LFR-6SQD-H-CP	6" Housing Enclosure, New Construction, Chicago Plenum 10				

Accessories LiteGear LiteGear® Inverter, 125VA-250VA LPS Series LightPower Micro-Inverter, 20VA-55VA LF-MOR6-SQ-WH Metal Oversized Ring, 6" Square, White (10.3" outside dimension)

- 60L-80L require marked spacing. See line art for more details.
- DM01, PDM, DMX, DALI available up to 50L. EDM available 15L-40L.
- NX requires DM1 driver option. 3
- 347V requires DM1 driver option; available 10L-40L; not available with Controls, DTS, EMR.
- Module options not available in combination.
- DTS available with DM1, DM01, or DALI.
- IC available up to 35L; 10L-15L Fixture Modules are inherently protected IC without the use of IC housing enclosure. (IC housing is still recommended when using loose-fill or spray foam insulation types.) 8
- IC housing not available for use in combination with Controls or with Module options EMR, DTS.
- CP available up to 35L; not available with DMX, Controls, or EMR options.







DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #	

NX LIGHTING CONTROLS

					Contro	l Optio						
	Control Option Ordering Logic & Description			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	_	/	√	√ 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





LITEFRAME 6" SQUARE ADJUSTABLE

DATE:	LOCATION:
TYPE:	PROJECT:
ITPE.	PROJECT.
CATALOG #:	

PERFORMANCE SUMMARY

Performance data provided below is for 3500K, 80 CRI with Specular Clear reflector

Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
		Very Narrow	850	7.5	114
401	4000	Narrow	959	7.5	129
10L	1000	Medium	932	7.5	125
		Wide	874	7.5	117
		Very Narrow	1301	11.4	114
451	4500	Narrow	1468	11.4	129
15L	1500	Medium	1426	11.4	125
		Wide	1338	11.4	117
		Very Narrow	1660	14.3	116
20L	2000	Narrow	1873	14.3	131
20L	2000	Medium	1820	14.3	127
		Wide	1707	14.3	119
		Very Narrow	2172	19.4	112
25L	2500	Narrow	2450	19.4	126
25L	2500	Medium	2380	19.4	123
		Wide	2233	19.4	115
		Very Narrow	2653	24.2	110
201	2000	Narrow	2994	24.2	124
30L	3000	Medium	2908	24.2	120
		Wide	2728	24.2	113
		Very Narrow	3105	28.9	107
251	2500	Narrow	3503	28.9	121
35L	3500	Medium	3404	28.9	118
		Wide	3193	28.9	110
		Very Narrow	3496	32.3	108
40L	4000	Narrow	3944	32.3	122
40L	4000	Medium	3832	32.3	119
		Wide	3595	32.3	111
		Very Narrow	4345	41.9	104
50L	5000	Narrow	4902	41.9	117
50L	5000	Medium	4763	41.9	114
		Wide	4468	41.9	107
		Very Narrow	5338	49.5	108
601	5000	Narrow	6023	49.5	122
60L	6000	Medium	5851	49.5	118
		Wide	5489	49.5	111
		Very Narrow	6233	59.0	106
70L	7000	Narrow	7033	59.0	119
/UL	7000	Medium	6832	59.0	116
		Wide	6410	59.0	109
		Very Narrow	7127	69.2	103
001	2000	Narrow	8041	69.2	116
80L	8000	Medium	7812	69.2	113
		Wide	7329	69.2	106





LITEFRAME 6" SQUARE ADJUSTABLE

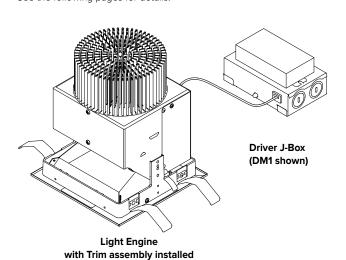
DATE:	LOCATION:
TYPE:	PROJECT:

CATALOG #:

DIMENSIONS

LFR-6SQA-M

Fixture Module consists of Light Engine and Driver J-Box assemblies. Overall dimensions for each are dependent upon configuration selected. See the following pages for details.

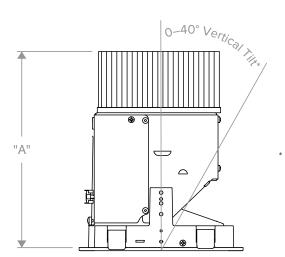


LFR-6SQA	LIGHT	ENGINE

OVERALL LIGHT ENGINE HEIGHT "A" *			
LUMEN	BEAM DISTRIBUTION		
PACKAGE	VNR	NR / MD/ WD	
10L-35L	8.16" (207.3mm)	6.94" (176.3mm)	
40L-50L 8.73" (221.7mm) 7.51" (190		7.51" (190.7mm)	
60L-80L	9.92" (252.0mm)	8.70" (221.0mm)	

- * Note: Add ½* minimum plenum clearance above overall Light Engine Height.
 ** For ≥60L: Marked spacing required 36* fixture center to center;
 18* fixture center to building member; 0.5* above fixture.
 *** Non-IC rating requires 3* from insulation and combustible materials.

DIMENSIONAL DATA		
APERTURE	□ 6.00" (152.4mm)	
FLANGE TO FLANGE	□ 7.38" (187.4mm	
FLANGE WIDTH	0.71" (18.0mm)	
CEILING CUTOUT	□ 6.75" (171.5mm)	
CEILING THICKNESS	0.50"-1.25" (12.7-31.8mm)	



* Vertical Tilt: 0-40° up to 0.75" ceiling thickness 0-35° for 0.75" to 1" ceiling thickness $0-30^{\circ}$ for 1" to 1.25" ceiling thickness



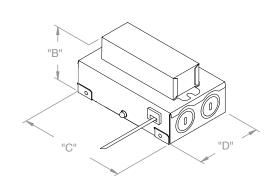
LITEFRAME 6" SQUARE ADJUSTABLE

DATE:	LOCATION:
TYPE:	PROJECT:

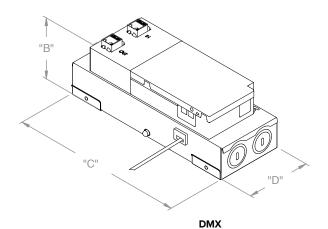
CATALOG #:

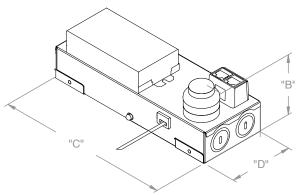
DIMENSIONS CONTINUED

DRIVER J-BOX

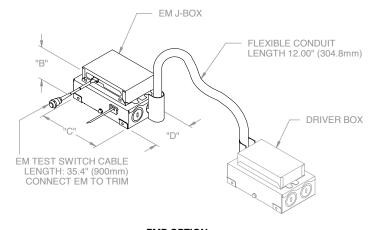


DM1 / DM01 / PDM / DALI





NX CONTROLS OPTION



EMR OPTIONEMR/Driver J-Box Conduit (provided) connects to Driver J-Box

(see Driver J-Box for additional details)

OVER	OVERALL DRIVER J-BOX DIMENSIONS (ALL LUMEN OUTPUTS)			
DRIVER/ CONTROLS /OPTIONS	"B" "C" (LENGTH)		"D" (WIDTH)	MINIMUM J-BOX PLENUM CLEARANCE
DM1 / DM01 / PDM / DALI	2.67" (67.8mm) 5.34" (135.6mm)		3.23" (82.0mm)	3.00" (76.2mm)
DMX	3.07" (78.0mm) 8.68" (220.5mm)		3.23" (82.0mm)	3.50" (88.9mm)
NX	3.02" (76.7mm)	8.68" (220.5mm)	3.23" (82.0mm)	3.75" (95.3mm)
EMR	2.73" (69.3mm)	5.34" (135.6mm)	3.23" (82.0mm)	3.00" (76.2mm)

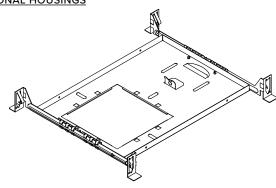


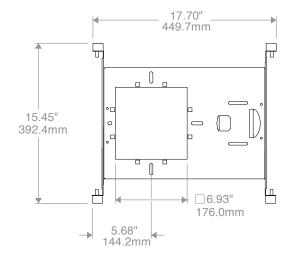


LITEFRAME 6" SQUARE ADJUSTABLE

DIMENSIONS CONTINUED

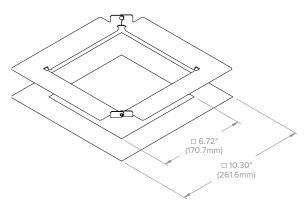
OPTIONAL HOUSINGS







LFR-6SQD-H NON-IC HOUSING FRAME

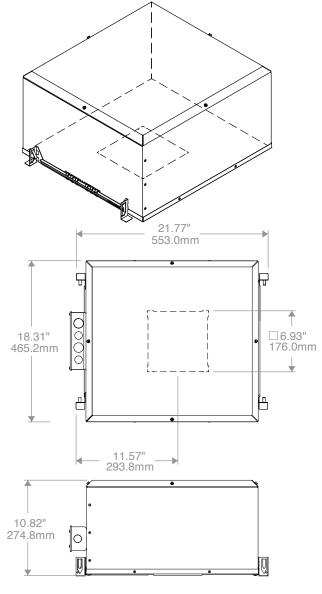


LF-MOR6-SQ METAL OVERSIZED RING

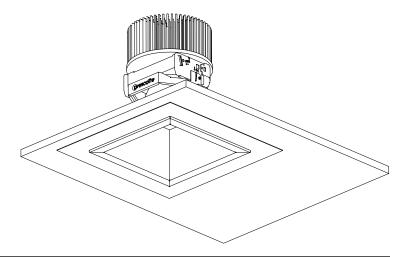
(See LF-MOR Installation Instruction for more details)



CATALOG #:



LFR-6SQD-H-IC LFR-6SQD-H-CP IC or CP HOUSING





LITEFRAME 6" SQUARE ADJUSTABLE

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

PHOTOMETRY

LFR-6SQA-M-20L35K8VNR-DM1 / LFR-6SQA-T-S

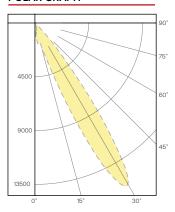
LUMINAIRE DATA

Test No.	22.00793
Description	2000 lm, Very Narrow, 3500K, 80 CRI
Delivered Lumens	1660
Watts	14.3W
Efficacy	116
Mounting	Recessed/Ceiling
Beam Angle (FWHM)	15

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1548	93.3
0-60	1659	99.9
0-90	1660	100.0
0-180	1660	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	784
5	1186
15	1961
25	12460
35	9790
45	432
55	26
65	7
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	26304
55°	1952
65°	713
75°	166
85°	0

*Candela/Square Meter

LFR-6SQA-M-20L35K8NR-DM1 / LFR-6SQA-T-S

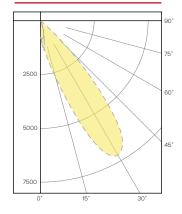
LUMINAIRE DATA

Test No.	22.00794
Description	2000 lm, Narrow, 3500K, 80 CRI
Delivered Lumens	1873
Watts	14.3W
Efficacy	131
Mounting	Recessed/Ceiling
Beam Angle (FWHM)	24

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1608	85.8
0-60	1871	99.9
0-90	1873	100.0
0-180	1873	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	808
5	1026
15	2710
25	6538
35	6606
45	1942
55	43
65	11
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	118248
55°	3228
65°	1121
75°	0
85°	0

*Candela/Square Meter

LFR-6SQA-M-20L35K8MD-DM1 / LFR-6SQA-T-S

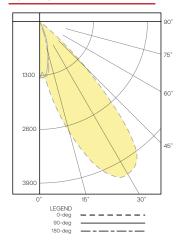
LUMINAIRE DATA

Test No.	22.00795
Description	2000 lm, Narrow, 3500K, 80 CRI
Delivered Lumens	1820
Watts	14.3W
Efficacy	127
Mounting	Recessed/Ceiling
Beam Angle (FWHM)	38

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1544	84.9
0-60	1818	99.9
0-90	1820	100
0-180	1820	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1354
5	1375
15	2751
25	4083
35	4080
45	1617
55	44
65	11
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	98459
55°	3303
65°	1121
75°	0
85°	0

*Candela/Square Meter



LITEFRAME 6" SQUARE ADJUSTABLE

DATE:	LOCATION:
TYPE:	PROJECT:

CATALOG #:

PHOTOMETRY CONTINUED

LFR-6SQA-M-20L35K8WD-DM1 / LFR-6SQA-T-S

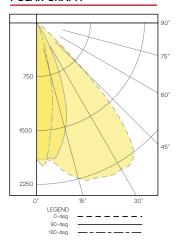
LUMINAIRE DATA

Test No.	22.00796
Description	2000 lm, Wide, 3500K, 80 CRI
Delivered Lumens	1707
Watts	14.3W
Efficacy	119
Mounting	Recessed/Ceiling
Beam Angle (FWHM)	52

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1485	87.0
0-60	1705	99.9
0-90	1707	100.0
0-180	1707	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela	
Degree	Carideia	
0	1904	
5	1918	
15	2238	
25	2355	
35	2327	
45	898	
55	97	
65	7	
75	0	
85	0	
90	0	

LUMINANCE DATA*

Vertical Angle	Average
45°	54679
55°	7281
65°	713
75°	0
85°	0

*Candela/Square Meter

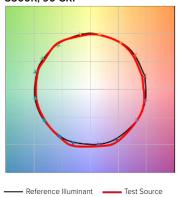
LUMEN MULTIPLIER

(Option	27K8	30K8	35K8	40K8	50K8	27K9	30K9	35K9	40K9	50K9
M	lultiplier	0.93	0.96	1.00	1.01	1.03	0.78	0.82	0.85	0.87	0.89

Photometrics are published above 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

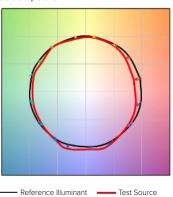


COLOR DISTORTION GRAPHIC 3500K, 90 CRI



TEST RESULTS - 3500K							
Value	80+ CRI	90+ CRI					
R _f	85	90					
R _g	95	99					
CCT (K)	3422	3416					
D _{uv}	-0.0008	-0.0019					
X	0.4089	0.408					
у	0.3906	0.3877					
CIE R _a	85	93					
CIE R ₉	16	66					

COLOR VECTOR GRAPHIC 3500K, 80 CRI



COLOR DISTORTION GRAPHIC 3500K, 80 CRI







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	

^{*} 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/prescolite.

DMX

See instruction sheet on currentlighting.com/prescolite for connection & installation information.

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.

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, $6W \times 120 \text{ LPW} = 720 \text{ lumens}$ in emergency mode.

