

LITEFRAME 4" ROUND ADJUSTABLE

FEATURES

- 4" LED adjustable accent delivering 1000-6000 lumens
- Direct Install from below ceiling for New Construction or Remodel applications, optional IC and CP housing accessories available
- · Select from Angle Cut Cone, Pinhole or Slot trim styles
- Available in four beam distributions
- Precise hot aiming/locking 0-40° tilt, full 361° rotation
- 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





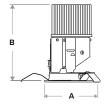
DATE: LOCATION: TYPE: PROJECT: CATALOG #:





SERVICE PROGRAMS

STCCK



Typical Dimensions and Weights								
Lumen Package	"A" Diameter Inches (mm)	"B" Height Inches (mm)	Weight lbs (kg)					
10L - 30L	5.37 (136)	5.89 (150)	4.5 (2)					
35L - 60L	5.37 (136)	7.47 (190)	4.8 (2.2)					

See DIMENSIONS section for complete details

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

OPTICS

- 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)
- Smooth 361° horizontal rotation with locking screw
- Multiple beam distributions allow dramatic effects with minimal occlusion
- High purity spun aluminum reflector, self-flanged
- Standard Angle Cut cone in Specular or Semi-Specular anodized or White with painted flange options
- Optional Pinhole or Slot trim styles available in White or Black

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 options 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 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	4
Lumen Range	1000–6000
Wattage Range	8–54
Efficacy Range (LPW)	69–109
Reported Life (Hours)	L90 / >50,000
Input Current (mA)	66-450 (120V)

*Based on Specular, 35K, 80 CRI





LITEFRAME 4" ROUND ADJUSTABLE

DATE:	LOCATION:
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Gray Shading	
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ORDERING GUIDE

CATALOG #

Example: LFR-4RA-M-10L35K8-WD-DM1 / LFR-4RA-T-S / LFR-4RD-H

FIXTURE MODULE

4" Round Adjustable Fixture Module for Direct Install Non-IC frame, IC or CP housings available under Housing	LFR-4RA-M	_						_			-							-[
4" Round Adjustable Fixture Module for Direct Install (Non-IC frame, IC or CP housings available under Housing) 4" Round Adjustable 15L 1500 30K 3000K 9 90+ (14°) NR Narrow (25°) NR Narrow (25°)	Ap/Shp/Funct		Lume	n Output	ССТ		CRI		Distrib	oution		Driver	Options	Contr	ol Options	Volta	ge		Modu	le Options
MX DMX with RDM dimming to < 0.1%2 NX Wired NXE NX Wired Dual RJ45 SmartPORTS, without Sensor 3 EDM Lutron Hi-Lume EcoSystem Dimming to 1%2 EDM Lutron Hi-Lume EcoSystem EcoSystem Dimming to 1%2 EDM Lutron Hi-Lume EcoSystem EcoSystem	LFR-4RA-M 4" Round Adjustable Fixture Module for Direct Install (Non-IC frame, IC or CP housings available under		10L 15L 20L 25L 30L 35L 40L 50L	1000 1500 2000 2500 3000 3500 4000 5000 ¹	27K 30K 35K 40K	3000K 3500K 4000K	8 80+		VNR NR MD	Very Narrow (14°) Narrow (25°) Medium (34°) Wide		DM1 DM01 PDM DMX	0-10V Dimming to 1% 0-10V Dimming to < 1%² Phase (Forward/Reverse) Dimming to 1%² DMX with RDM dimming to < 0.1%² DALI Dimming to 1%² Lutron Hi-Lume EcoSystem	NX Li Netwo	righting Controls orked Wireless NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor ³ orked Wired NX Wired Dual RJ45 SmartPORTS,	Star 120-	ndard -277V		EMR	6W Emergency Battery Pack (CEC Title 20 Compliant) with remote test switch and indicator light ⁵ Device Transfer

TRIM (Ships separately)

LFR-4RA-T	_			-					
Aperture/Shape/Function		Trim Style			Reflector Finish/Color		Flange Color Options		
LFR-4RA-T 4" Round Adjustable Trim Assembly			Standard Cut Cone		s ss	Specular Semi-Specular	Standard matches reflector color		
		PH	Pinhole 7		WC	Painted White	WT	White Flange 8	
		SLT	Slot*		***	Cone and Flange	вт	Black Flange	

HOUSING OPTIONS (Ships separately)

Ape	rture/Shape/Functio	n
	LFR-4RD-H	4" Housing Frame, New Construction, Non-IC
	LFR-4RD-H-IC	4" Housing Enclosure, New Construction, IC Rated 9, 10
	LFR-4RD-H-CP	4" Housing Enclosure, New Construction, Chicago Plenum ¹¹

Accessories LiteGear LiteGear® Inverter, 125VA-250VA LPS Series LightPower Micro-Inverter, 20VA-55VA LF-MOR4-R-WH Metal Oversized Ring, 4" Round, White (8.3" outside diameter)

Notes:

- 50L and 60L 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.
- 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.
- PH and SLT available in painted reflector/flange only. Must specify WT or BT.
- WT not needed for WC.
- IC available up to 35L; 10L 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
- 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:
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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	✓	✓	✓	ı	-	<	\	✓	6	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



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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	538	7.6	71
401	4000	Narrow	826	7.6	109
10L	1000	Medium	749	7.6	99
		Wide	766	7.6	101
		Very Narrow	807	11.8	68
451	4500	Narrow	1240	11.8	105
15L	1500	Medium	1125	11.8	95
		Wide	1150	11.8	97
		Very Narrow	1237	15.2	82
		Narrow	1600	15.2	105
20L	2000	Medium	1452	15.2	95
		Wide	1483	15.2	97
		Very Narrow	1353	20.9	65
251	2500	Narrow	2079	20.9	99
25L	2500	Medium	1885	20.9	90
		Wide	1927	20.9	92
		Very Narrow	1613	26.0	62
	3000	Narrow	2478	26.0	95
30L		Medium	2247	26.0	86
		Wide	2297	26.0	88
		Very Narrow	1961	29.4	67
251	3500	Narrow	3012	29.4	102
35L		Medium	2732	29.4	93
		Wide	2792	29.4	95
		Very Narrow	2186	32.9	66
401	4000	Narrow	3358	32.9	102
40L	4000	Medium	3046	32.9	93
		Wide	3112	32.9	95
		Very Narrow	2659	42.0	63
50.	5000	Narrow	4085	42.0	97
50L	5000	Medium	3705	42.0	88
		Wide	3786	42.0	90
		Very Narrow	3172	53.4	59
60L	6000	Narrow	4873	53.4	91
DUL	0000	Medium	4420	53.4	83
		Wide	4517	53.4	85





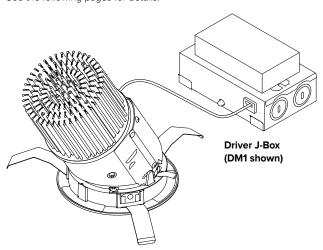
LITEFRAME 4" ROUND ADJUSTABLE

DATE:	LOCATION:
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CATALOG #:	

DIMENSIONS

LFR-4RA-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.



Light Engine with Trim assembly installed

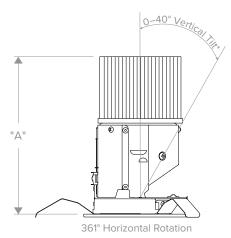
DIMENSIONAL DATA		
APERTURE	Ø 4.00" (101.6mm)	
OVERALL	Ø 5.37" (136.5mm)	
FLANGE WIDTH	0.71" (18.0mm)	
CEILING CUTOUT	Ø 4.75" (120.7mm)	
CEILING THICKNESS	0.50" - 1.25" (12.7 - 31.8mm)	

LFR-4RA LIGHT ENGINE

OVERALL LIGHT ENGINE HEIGHT "A" *			
LUMEN	BEAM DISTRIBUTION		
PACKAGE	VNR	NR / MD/ WD	
10L-30L	6.68" (169.7mm)	5.89" (149.7mm)	
35L-60L	8.26" (209.9mm)	7.47" (189.8mm)	

^{*} Note: Add ½" minimum plenum clearance above overall Light Engine Height.

^{***} Non-IC rating requires 3" from insulation and combustible materials.



* Vertical Tilt: 0-40° up to 0.75" ceiling thickness 0-35° for 0.75" to 1" ceiling thickness 0-30° for 1" to 1.25" ceiling thickness

Side View Standard

^{**} For \geq 50L: Marked spacing required 36" fixture center to center, 18" fixture center to building member; 0.5" above fixture



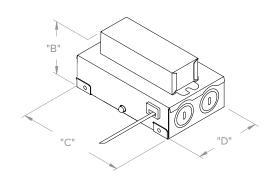
LITEFRAME 4" ROUND ADJUSTABLE

DATE:	LOCATION:
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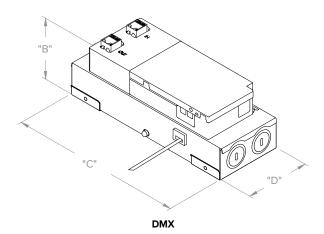
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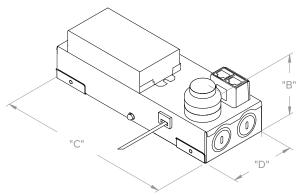
DIMENSIONS CONTINUED

DRIVER J-BOX

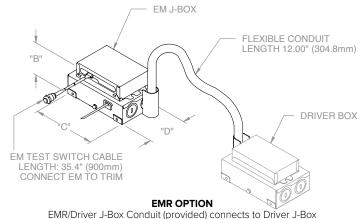


DM1 / DM01 / PDM / DALI





NX CONTROLS OPTION



EMR OPTION	9
EMR/Driver J-Box Conduit (provided) connects to D	river J-Box
(see Driver J-Box for additional details)	

OVERALL DRIVER J-BOX DIMENSIONS (ALL LUMEN OUTPUTS)				
DRIVER/ CONTROLS /OPTIONS	"B" (HEIGHT)	"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)	3.50" (88.9mm)
DMX	3.07" (78.0mm)	8.68" (220.5mm)	3.23" (82.0mm)	5.00" (127.0mm)
NX	3.02" (76.7mm)	8.68" (220.5mm)	3.23" (82.0mm)	6.00" (152.4mm)
EMR	2.73" (69.3mm)	5.34" (135.6mm)	3.23" (82.0mm)	4.00" (101.6mm)

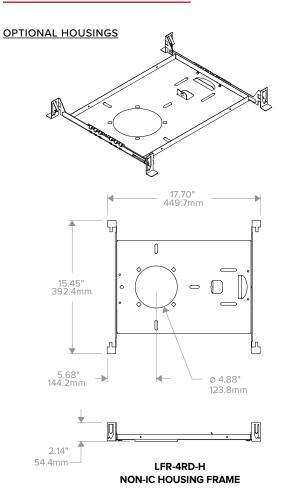


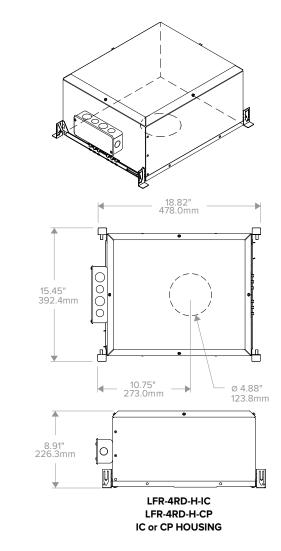
LITEFRAME 4" ROUND ADJUSTABLE

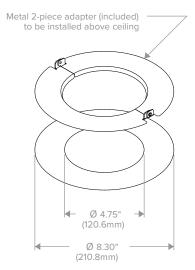
DATE: LOCATION: TYPE: PROJECT:

CATALOG #:

DIMENSIONS CONTINUED

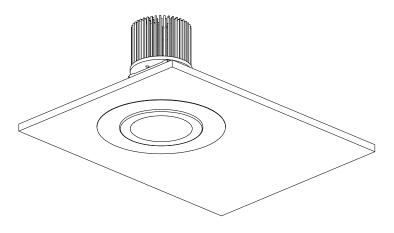








(See LF-MOR Installation Instruction for more details)





LITEFRAME 4" ROUND ADJUSTABLE

DATE: LOCATION:

CATALOG #:

TYPE:

PHOTOMETRY

LFR-4RA-M-20L35K8VNR-DM1 / LFR-4RA-T-VNR-S

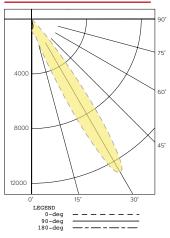
LUMINAIRE DATA

Test No.	21.0011694
Description	2000 lm, Very Narrow, 3500K, 80 CRI
Delivered Lumens	1237
Watts	15.2W
Efficacy	82
Mounting	Recessed
Beam Angle (FWHM)	14

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1175	94.9
0-60	1233	99.7
0-90	1237	100.0
0-180	1237	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

PROJECT:

Degree	Candela
0	751
5	1023
15	1670
25	8770
35	8660
45	208
55	40
65	28
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	36283
55°	8602
65°	8172
75°	0
85°	0

*Candela/Square Meter

LFR-4RA-M-20L35K8NR-DM1 / LFR-4RA-T-S

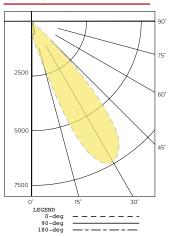
LUMINAIRE DATA

Test No.	21.00601
Description	2000 lm, Narrow, 3500K, 80 CRI
Delivered Lumens	1600
Watts	15.2W
Efficacy	105
Mounting	Recessed
Beam Angle (FWHM)	25

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1416	88.5
0-60	1599	99.9
0-90	1600	100.0
0-180	1600	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	588
5	852
15	2217
25	6914
35	6922
45	1930
55	46
65	8
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	336663
55°	9892
65°	2335
75°	0
85°	0

*Candela/Square Meter

LFR-4RA-M-20L35K8MD-DM1 / LFR-4RA-T-S

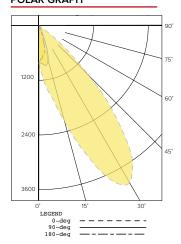
LUMINAIRE DATA

Test No.	P21.00602
Description	2000 lm, Medium, 3500K, 80 CRI
Delivered Lumens	1452
Watts	15.2W
Efficacy	95
Mounting	Recessed
Beam Angle (FWHM)	34

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1240	85.4
0-60	1449	99.8
0-90	1452	100.0
0-180	1452	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela	
0	818	
5	1214	
15	2197	
25	3733	
35	3564	
45	1552	
55	49	
65	13	
75	0	
85	0	
90	0	

LUMINANCE DATA*

Vertical Angle	Average
45°	270726
55°	10537
65°	3794
75°	0
85°	0

*Candela/Square Meter





LITEFRAME 4" ROUND ADJUSTABLE

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

PHOTOMETRY CONTINUED

LFR-4RA-M-20L35K8WD-DM1 / LFR-4RA-T-S

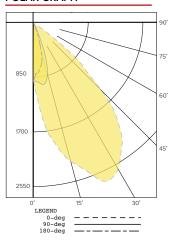
LUMINAIRE DATA

Test No.	P21.00603
Description	2000 lm, Wide, 3500K, 80 CRI
Delivered Lumens	1483
Watts	15.2W
Efficacy	97
Mounting	Recessed
Beam Angle (FWHM)	48

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1219	82.2
0-60	1481	99.9
0-90	1483	100.0
0-180	1483	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela	
0	892	
5	1423	
15	2220	
25	2705	
35	2382	
45	1525	
55	282	
65	7	
75	0	
85	0	
90	0	

LUMINANCE DATA*

Vertical Angle	Average
45°	266016
55°	60643
65°	2043
75°	0
85°	0

*Candela/Square Meter

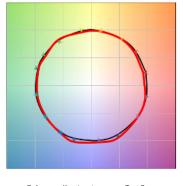
LUMEN MULTIPLIER

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

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

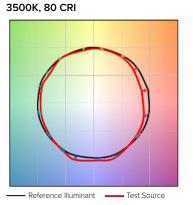


COLOR VECTOR GRAPHIC

COLOR DISTORTION GRAPHIC 3500K, 90 CRI



COLOR	DISTORTION GRAPHIC
3EUUK	80 CDI





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			
×	0.4089	0.408			
У	0.3906	0.3877			
CIE R _a	85	93			
CIE R ₉	16	66			







DATE:	LOCATION:
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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 x 120 LPW = 720 lumens in emergency mode.

