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DATE: LOCATION:

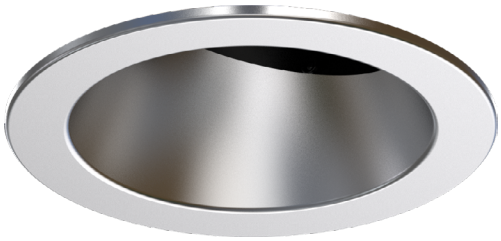
TYPE: PROJECT:

CATALOG #:

LFR-4RA

LITEFRAME 4" ROUND ADJUSTABLE

LITEFRAME 2.0



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, 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

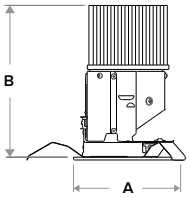
SERVICE PROGRAMS

STOCK

C US TriGain® technology

CONTROLS TECHNOLOGY

NX WIRELESS NX WIRED



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, TriGain technology 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
- Current's patented TriGain® phosphor delivers 90 CRI color quality at 80 CRI efficacy

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
- Suitable for -20°C to 25°C standard. Up to 40°C available on certain configurations, contact factory for details

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	1000–6000
Wattage Range	8–54
Efficacy Range (LPW)	87–116
Reported Life (Hours)	L90 / >50,000
Input Current (mA)	65–445 (120V)

*Based on Specular, 35K, 90 CRI

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

LFR-4RA

LITEFRAME 4" ROUND ADJUSTABLE

Gray Shading = Service Program STOCK

ORDERING GUIDE

Example: LFR-4RA-M-10L35K9-WD-DM1 / LFR-4RA-T-S / LFR-4RD-H

CATALOG #

FIXTURE MODULE

LFR-4RA-M – [ ] [ ] 9 – [ ] – [ ] [ ] – [ ]

Ap/Shp/Funct	Lumen Output	CCT	CRI	Distribution	Driver Options	Control Options	Voltage	Module Options
LFR-4RA-M 4" Round Adjustable Fixture Module for Direct Install *(Non-IC frame, IC or CP housings available under Housing Options below)*	**10L** 1000 **15L** 1500 **20L** 2000 **25L** 2500 **30L** 3000 **35L** 3500 **40L** 4000 **50L** 5000 [1] **60L** 6000 [1]	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K **50K** 5000K	**9** 90+	**VNR** Very Narrow (14°) **NR** Narrow (25°) **MD** Medium (34°) **WD** Wide (48°)	**DM1** 0–10V Dimming to 1% **DM01** 0–10V Dimming to < 1% [2] **PDM** Phase (Forward/Reverse) Dimming to 1% [2] **DMX** DMX with RDM dimming to < 0.1% [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, without Sensor [3] Networked Wired **NXE** NX Wired Dual RJ45 SmartPORTS, without Sensor [3]	*Standard 120–277V* **34** 347V [4]	**EMR** 10W Emergency Battery Pack (CEC Title 20 Compliant) with remote test switch and indicator light [5] **DTS** Device Transfer Switch with Dimming Bypass [5,6]

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* **PH** Pinhole [7] **SLT** Slot [7]	**S** Specular **SS** Semi-Specular **WC** Painted White Cone and Flange	*Standard matches reflector color* **WT** White Flange [8] **BT** Black Flange

HOUSING OPTIONS (Ships separately)

Aperture/Shape/Function	
☐ **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:

1 50L and 60L require marked spacing. See line art for more details.
2 DM01, PDM, DMX, DALI available up to 50L. EDM available 15L–40L.
3 NX requires DM1 driver option.
4 347V requires DM1 driver option; available 10L–40L; not available with Controls, DTS, EMR.
5 Module options not available in combination.
6 DTS available with DM1, DM01 or DALI.
7 PH and SLT available in painted reflector/flange only. Must specify WT or BT.
8 WT not needed for WC.
9 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 insulation types.)
10 IC housing not available for use in combination with Controls or with Module options EMR, DTS.
11 CP available up to 35L; not available with DMX, Controls, or EMR options.

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LFR-4RA

LITEFRAME 4" ROUND ADJUSTABLE

NX LIGHTING CONTROLS

	Control Option Ordering Logic & Description		Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming		
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	✓	✓	–	–	✓	✓	✓		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 #:

LFR-4RA

LITEFRAME 4" ROUND ADJUSTABLE

PERFORMANCE SUMMARY

Performance data provided below is for 3500K, 90+ CRI with Specular Clear reflector

Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
10L	1000	Very Narrow	887	7.7	116
		Narrow	874	7.7	114
		Medium	809	7.7	105
		Wide	802	7.7	104
15L	1500	Very Narrow	1217	11.8	103
		Narrow	1199	11.8	102
		Medium	1106	11.8	94
		Wide	1100	11.8	93
20L	2000	Very Narrow	1684	14.8	114
		Narrow	1659	14.8	112
		Medium	1530	14.8	103
		Wide	1522	14.8	103
25L	2500	Very Narrow	2193	20.4	107
		Narrow	2160	20.4	106
		Medium	1992	20.4	98
		Wide	1982	20.4	97
30L	3000	Very Narrow	2646	25.9	102
		Narrow	2607	25.9	101
		Medium	2404	25.9	93
		Wide	2392	25.9	92
35L	3500	Very Narrow	3176	29.9	106
		Narrow	3129	29.9	105
		Medium	2886	29.9	96
		Wide	2871	29.9	96
40L	4000	Very Narrow	3569	32.7	109
		Narrow	3516	32.7	107
		Medium	3243	32.7	99
		Wide	3226	32.7	99
50L	5000	Very Narrow	4295	42.6	101
		Narrow	4232	42.6	99
		Medium	3903	42.6	92
		Wide	3882	42.6	91
60L	6000	Very Narrow	5132	53.08	97
		Narrow	5056	53.08	95
		Medium	4663	53.08	88
		Wide	4638	53.08	87

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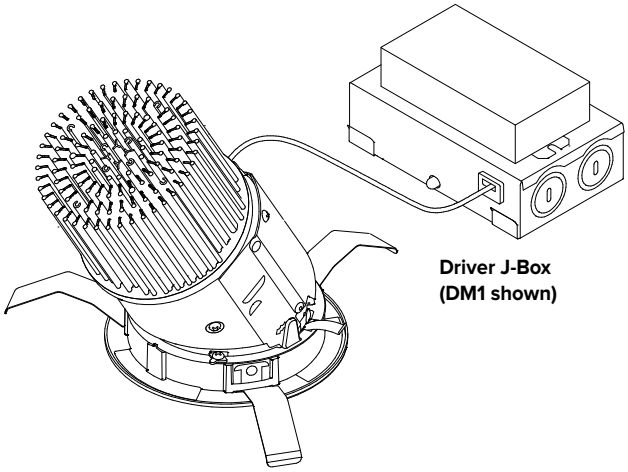
LFR-4RA

LITEFRAME 4" ROUND ADJUSTABLE

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.



Driver J-Box (DM1 shown)

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)

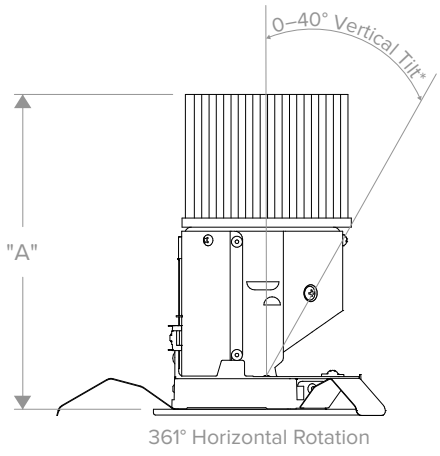
LFR-4RA LIGHT ENGINE

OVERALL LIGHT ENGINE HEIGHT "A" *		
LUMEN PACKAGE	BEAM DISTRIBUTION	
	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.

** For ≥50L: 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.



Side View Standard

* 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

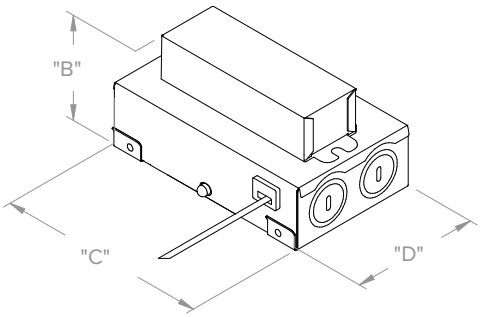
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LFR-4RA

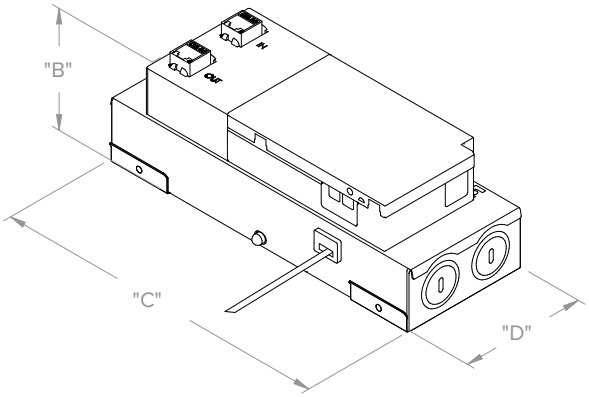
LITEFRAME 4" ROUND ADJUSTABLE

DIMENSIONS (CONTINUED)

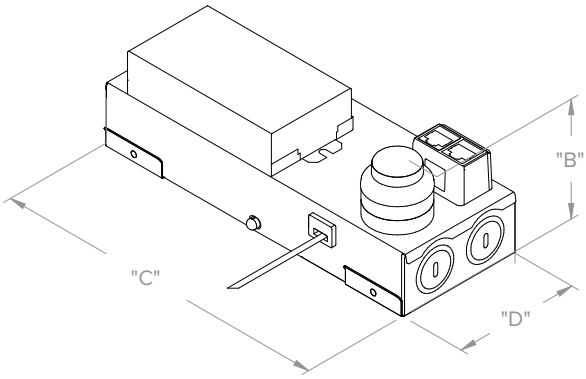
DRIVER J-BOX



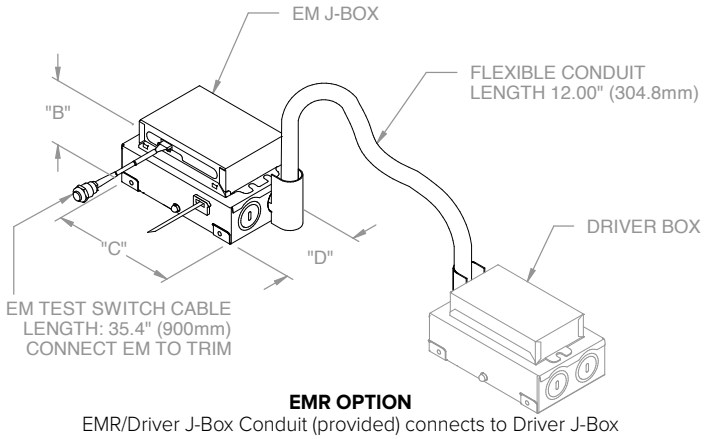
DM1 / DM01 / PDM / DALI



DMX



NX CONTROLS OPTION



EMR OPTION

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

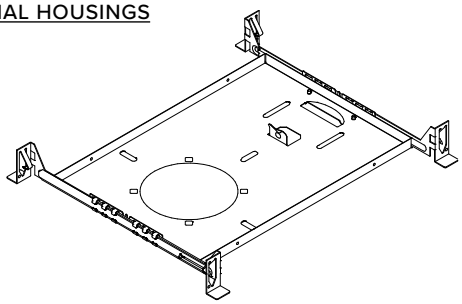
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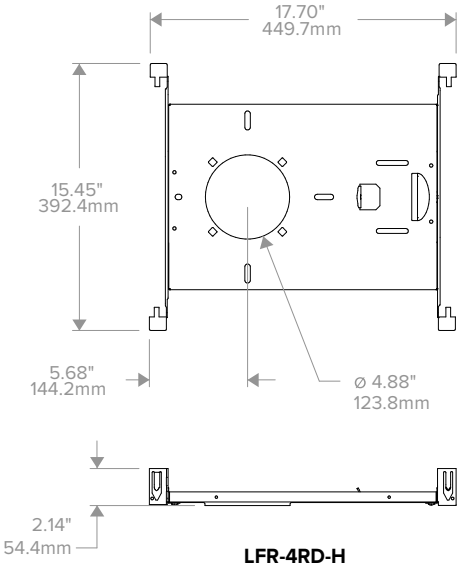
LFR-4RA

LITEFRAME 4" ROUND ADJUSTABLE

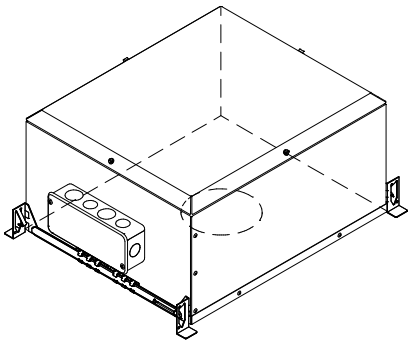
DIMENSIONS (CONTINUED)

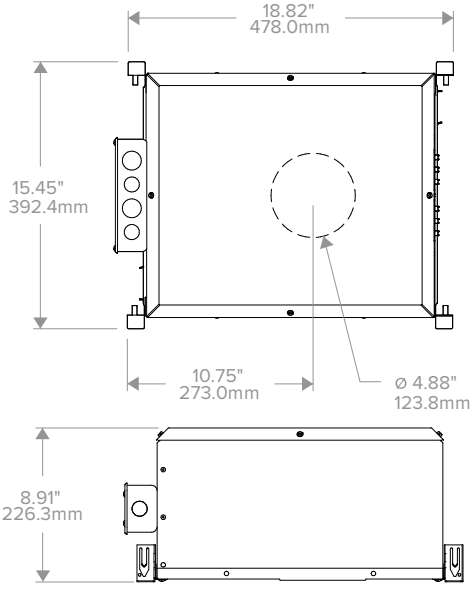
OPTIONAL HOUSINGS



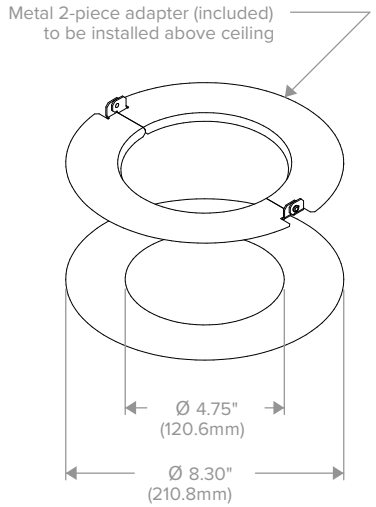


LFR-4RD-H
NON-IC HOUSING FRAME

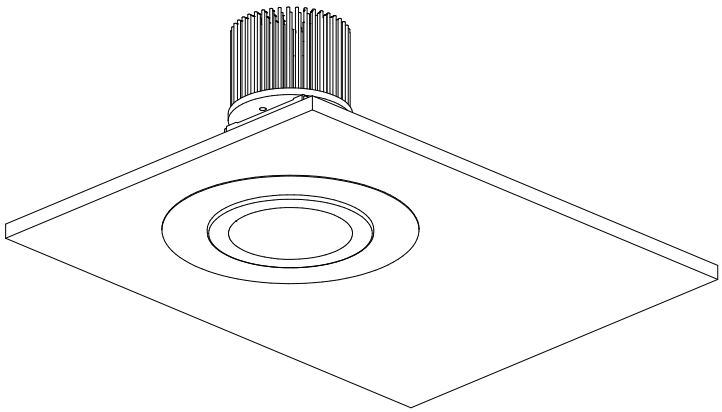




LFR-4RD-H-IC
LFR-4RD-H-CP
IC or CP HOUSING



ROUND LF-MOR4-R
METAL OVERSIZED RING
(See LF-MOR Installation Instruction for more details)



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DATE: LOCATION:

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LFR-4RA

LITEFRAME 4" ROUND ADJUSTABLE

PHOTOMETRY

LFR-4RA-M-20L35K9VNR-DM1 / LFR-4RA-T-VNR-S

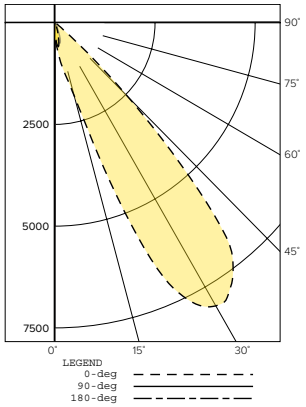
LUMINAIRE DATA

Test No.	**25.00740**
Description	**2000 lm, Very Narrow, 3500K, 90 CRI**
Delivered Lumens	**1684**
Watts	**14.8W**
Efficacy	**114**
Mounting	**Recessed**
Beam Angle (FWHM)	**14**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1478	87.8
0–60	1683	99.9
0–90	1684	100.0
0–180	1684	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	476
5	694
15	2025
25	7569
35	7744
45	2199
55	39
65	4
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	383586
55°	8387
65°	1167
75°	0
85°	0

*Candela/Square Meter

LFR-4RA-M-20L35K9NR-DM1 / LFR-4RA-T-S

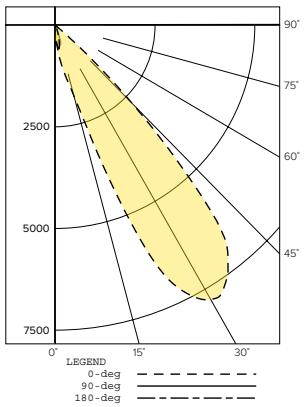
LUMINAIRE DATA

Test No.	**25.00741**
Description	**2000 lm, Narrow, 3500K, 90 CRI**
Delivered Lumens	**1659**
Watts	**14.8W**
Efficacy	**112**
Mounting	**Recessed**
Beam Angle (FWHM)	**25**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1435	86.5
0–60	1658	99.9
0–90	1659	100.0
0–180	1659	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	401
5	609
15	1945
25	7250
35	7535
45	2454
55	44
65	5
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	428068
55°	9462
65°	1459
75°	0
85°	0

*Candela/Square Meter

LFR-4RA-M-20L35K9MD-DM1 / LFR-4RA-T-S

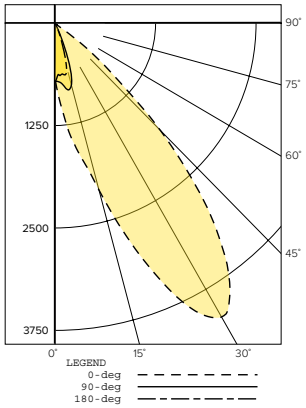
LUMINAIRE DATA

Test No.	**25.00742**
Description	**2000 lm, Medium, 3500K, 90 CRI**
Delivered Lumens	**1517**
Watts	**14.8W**
Efficacy	**103**
Mounting	**Recessed**
Beam Angle (FWHM)	**34**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1276	84.1
0–60	1515	99.9
0–90	1517	100.0
0–180	1517	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	714
5	1127
15	2192
25	3863
35	3748
45	1761
55	73
65	10
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	307183
55°	15698
65°	2919
75°	0
85°	0

*Candela/Square Meter

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LFR-4RA

LITEFRAME 4" ROUND ADJUSTABLE

PHOTOMETRY (CONTINUED)

LFR-4RA-M-20L35K9WD-DM1 / LFR-4RA-T-S

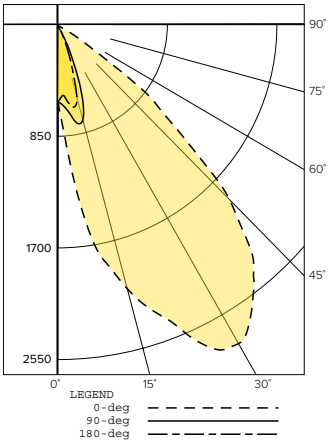
LUMINAIRE DATA

Test No.	**25.00743**
Description	**2000 lm, Wide, 3500K, 90 CRI**
Delivered Lumens	**1522**
Watts	**14.8W**
Efficacy	**103**
Mounting	**Recessed**
Beam Angle (FWHM)	**48**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1200	78.8
0–60	1519	99.8
0–90	1522	100.0
0–180	1522	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	591
5	1077
15	2133
25	2750
35	2633
45	1855
55	427
65	9
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	323580
55°	91825
65°	2627
75°	0
85°	0

*Candela/Square Meter

LUMEN MULTIPLIER

Option	27K9	30K9	35K9	40K9	50K9
Multiplier	0.94	0.98	1.00	1.01	1.02

Photometrics are published at a nominal 3500 Kelvin, 90+ 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)	White Cone (WC)
Multiplier	1	0.909	0.984

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prescolite

DATE: LOCATION:

TYPE: PROJECT:

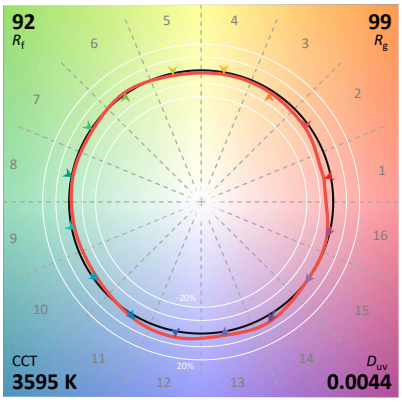
CATALOG #:

LFR-4RA

LITEFRAME 4" ROUND ADJUSTABLE

TM-30 DATA

COLOR VECTOR GRAPHIC
3500K, 90 CRI



TEST RESULTS - 3500K	
Value	90+ CRI
R_f	92
R_g	99
CCT (K)	3595
D_{UV}	0.0044
x	0.4045
y	0.4004
CIE R_a	93
CIE R_9	61

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, 10W x 120 LPW = 1200 lumens in emergency mode.

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