prescolite

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

LFR-6RA

LITEFRAME 6" ROUND ADJUSTABLE

LITEFRAME 2.0



FEATURES

- 6" 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
- 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

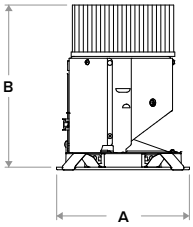
SERVICE PROGRAMS

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–35L	7.13 (181)	6.94 (176)	5.5 (2.5)
40L–50L	7.13 (181)	7.51 (191)	5.8 (2.6)
60L–80L	7.13 (181)	8.7 (221)	6.4 (2.9)

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–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
- 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	1000–8000
Wattage Range	7–69
Efficacy Range (LPW)	97–128
Reported Life (Hours)	L90 / >50,000
Input Current (mA)	63–576 (120V)

*Based on Specular, 35K, 90 CRI

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LFR-6RA

LITEFRAME 6" ROUND ADJUSTABLE

Gray Shading = Service Program STOCK

ORDERING GUIDE

Example: LFR-6RA-M-10L35K9-WD-DM1 / LFR-6RA-T-S / LFR-6RD-H

CATALOG #

FIXTURE MODULE

LFR-6RA-M – [ ] [ ] 9 – [ ] – [ ] [ ] – [ ] – [ ]

Ap/Shp/Funct	Lumen Output	CCT	CRI	Distribution	Driver Options	Control Options	Voltage	Module Options
LFR-6RA-M 6" Round Adjustable Fixture Module for Direct Install	**10L** 1000	**27K** 2700K	**9** 90+	**VNR** Very Narrow (14°)	**DM1** 0–10V Dimming to 1%	**NX Lighting Controls**	*Standard 120–277V*	**EMR** 10W Emergency Battery Pack (CEC Title 20 Compliant) with remote test switch and indicator light [5]
(Non-IC frame, IC or CP housings available under Housing Options below)	**15L** 1500	**30K** 3000K		**NR** Narrow (25°)	**DM01** 0–10V Dimming to < 1% [2]	Networked Wireless	**34** 347V [4]	**DTS** Device Transfer Switch with Dimming Bypass [5, 6]
	20L 2000	**35K** 3500K		**MD** Medium (35°)	**PDM** Phase (Forward/ Reverse) Dimming to 1% [2]	**NXW** NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [3]		
	25L 2500	**40K** 4000K		**WD** Wide (45°)	**DMX** DMX with RDM Dimming to < 0.1% [2]	Networked Wired		
	30L 3000	**50K** 5000K			**DALI** DALI Dimming to 1% [2]	**NXE** NX Wired Dual RJ45 SmartPORTS, without Sensor [3]		
	35L 3500				**EDM** Lutron Hi-Lume EcoSystem Dimming to 1% [2]			
	40L 4000							
	50L 5000							
	60L 6000 [1]							
	70L 7000 [1]							
	80L 8000 [1]							

TRIM (Ships separately)

LFR-6RA-T – [ ] – [ ] [ ]

Aperture/Shape/Function	Trim Style	Reflector Finish/Color	Flange Color Options
LFR-6RA-T 6" Round Adjustable Trim Assembly	*Standard Cut Cone*	**S** Specular	*Standard matches reflector color*
	PH Pinhole [7]	**SS** Semi-Specular	**WT** White Flange [8]
	SLT Slot [7]	**WC** Painted White Cone and Flange	**BT** Black Flange

HOUSING OPTIONS (Ships separately)

Aperture/Shape/Function	
☐ **LFR-6RD-H**	6" Housing Frame, New Construction, Non-IC
☐ **LFR-6RD-H-IC**	6" Housing Enclosure, New Construction, IC Rated [9, 10]
☐ **LFR-6RD-H-CP**	6" Housing Enclosure, New Construction, Chicago Plenum [11]

Accessories	
☐ **LiteGear**	LiteGear® Inverter, 125VA–250VA
☐ **LPS Series**	LightPower Micro-Inverter, 20VA–55VA
☐ **LF-MOR6-R-WH**	Metal Oversized Ring, 6" Round, White (10.12" outside diameter)

Notes:

1 60L–80L 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–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.)
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-6RA

LITEFRAME 6" 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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LFR-6RA

LITEFRAME 6" 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	1005	7.4	136
		Narrow	1010	7.4	137
		Medium	948	7.4	128
		Wide	864	7.4	117
15L	1500	Very Narrow	1534	11.3	136
		Narrow	1543	11.3	137
		Medium	1448	11.3	128
		Wide	1319	11.3	117
20L	2000	Very Narrow	1825	14.3	128
		Narrow	1835	14.3	128
		Medium	1722	14.3	120
		Wide	1569	14.3	110
25L	2500	Very Narrow	2590	19.3	134
		Narrow	2605	19.3	135
		Medium	2444	19.3	127
		Wide	2227	19.3	115
30L	3000	Very Narrow	3175	24.1	132
		Narrow	3193	24.1	132
		Medium	2996	24.1	124
		Wide	2730	24.1	113
35L	3500	Very Narrow	3729	28.9	129
		Narrow	3750	28.9	130
		Medium	3519	28.9	122
		Wide	3206	28.9	111
40L	4000	Very Narrow	4134	32.3	128
		Narrow	4157	32.3	129
		Medium	3901	32.3	121
		Wide	3554	32.3	110
50L	5000	Very Narrow	5142	42	122
		Narrow	5170	42	123
		Medium	4852	42	116
		Wide	4421	42	105
60L	6000	Very Narrow	6306	49.4	128
		Narrow	6341	49.4	128
		Medium	5950	49.4	120
		Wide	5422	49.4	110
70L	7000	Very Narrow	7342	58.9	125
		Narrow	7382	58.9	125
		Medium	6927	58.9	118
		Wide	6312	58.9	107
80L	8000	Very Narrow	8366	69	121
		Narrow	8416	69	122
		Medium	7894	69	114
		Wide	7193	69	104

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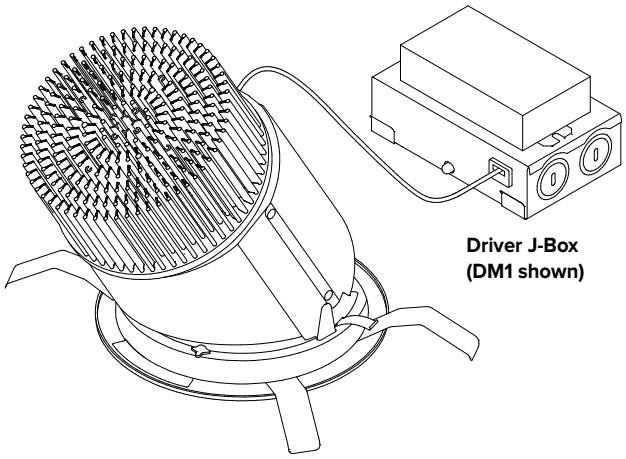
LFR-6RA

LITEFRAME 6" ROUND ADJUSTABLE

DIMENSIONS

LFR-6RA-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 5.75" (146.1mm)
OVERALL	Ø 7.13" (181.0mm)
FLANGE WIDTH	0.71" (18.0mm)
CEILING CUTOUT	Ø 6.50" (165.1mm)
CEILING THICKNESS	0.50"–1.25" (12.7–31.8mm)

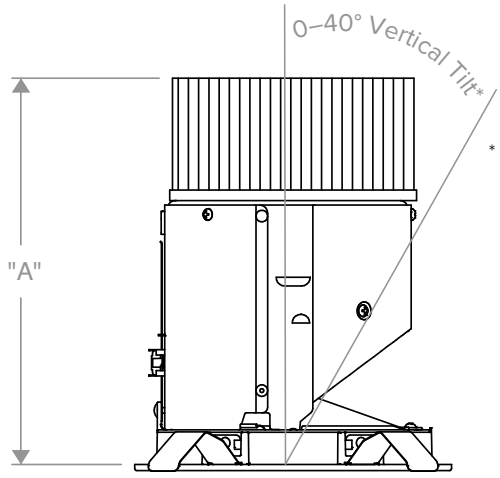
LFR-6RA LIGHT ENGINE

OVERALL LIGHT ENGINE HEIGHT "A" *		
LUMEN PACKAGE	BEAM DISTRIBUTION	
	VNR	NR / MD / WD
10L–35L	8.16" (207.3mm)	6.94" (176.3mm)
40L–50L	8.73" (221.7mm)	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.



* 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

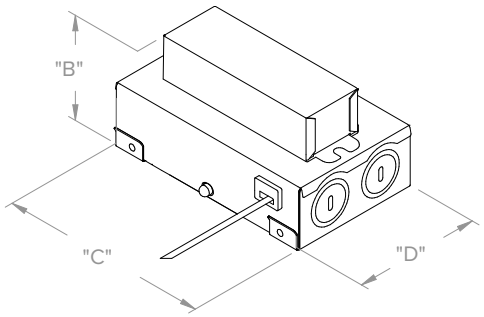
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LFR-6RA

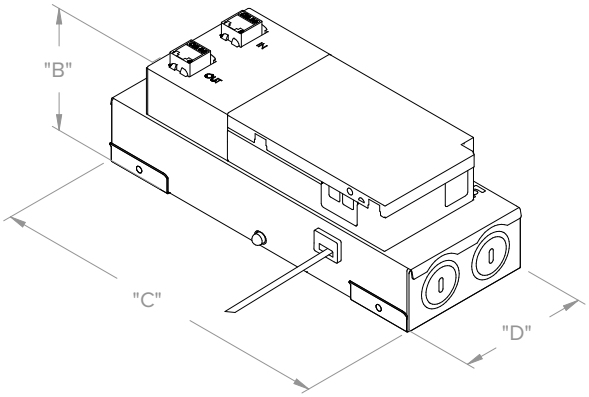
LITEFRAME 6" ROUND ADJUSTABLE

DIMENSIONS (CONTINUED)

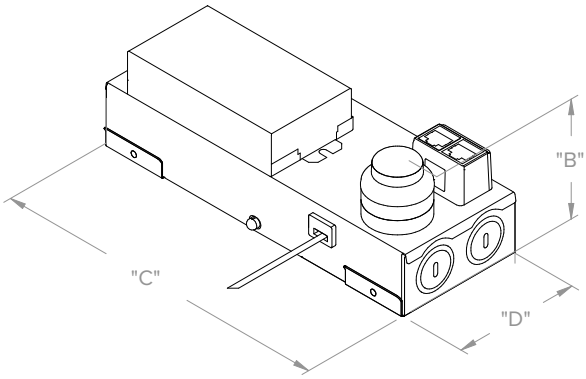
DRIVER J-BOX



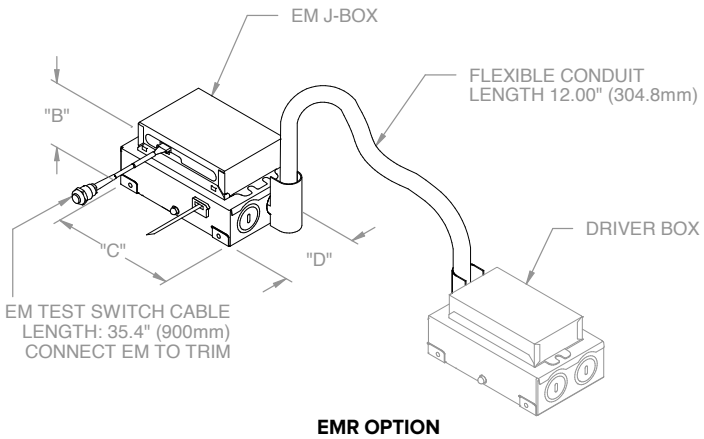
DM1 / DM01 / PDM / DALI



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)	3.00" (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)

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LFR-6RA

LITEFRAME 6" ROUND ADJUSTABLE

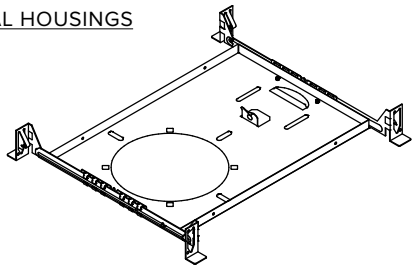
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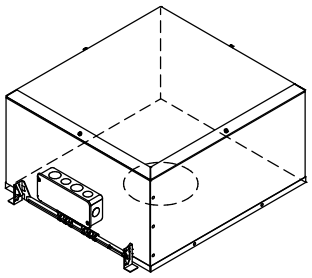
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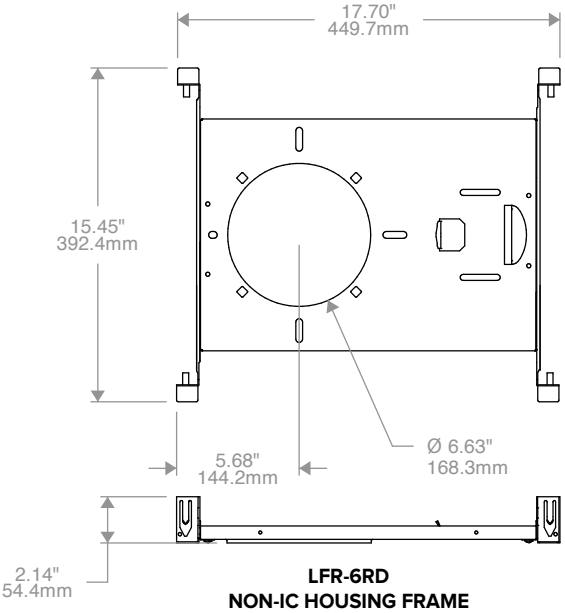
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DIMENSIONS (CONTINUED)

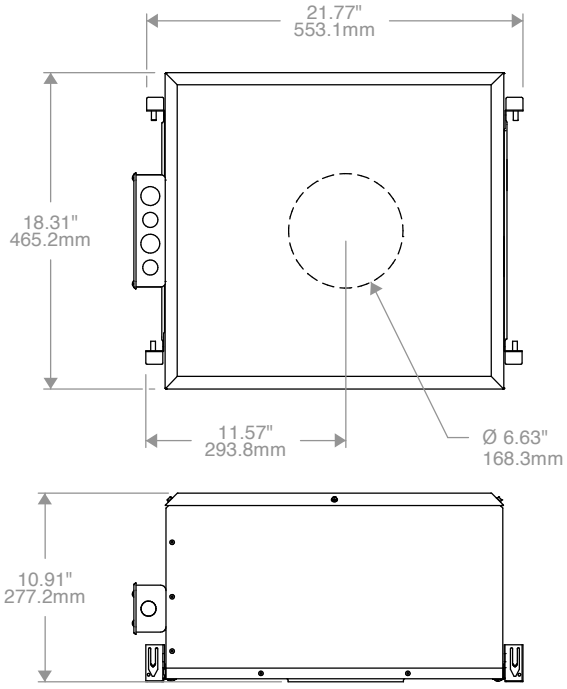
OPTIONAL HOUSINGS



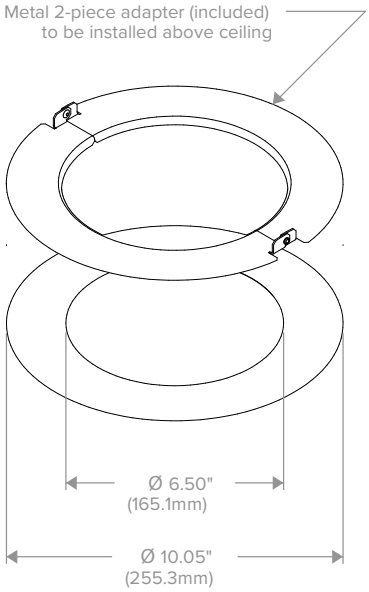




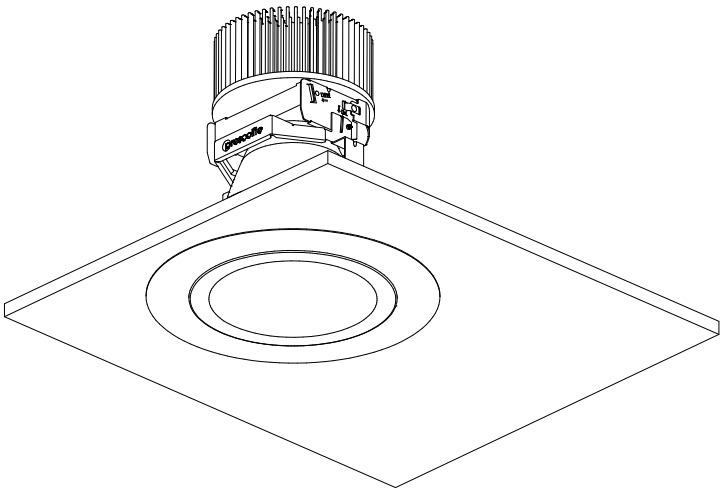
LFR-6RD
NON-IC HOUSING FRAME



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



ROUND LF-MOR6-R
METAL OVERSIZED RING
(See LF-MOR Installation Instruction for more details)



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LFR-6RA

LITEFRAME 6" ROUND ADJUSTABLE

PHOTOMETRY

LFR-6RA-M-20L35K9VNR-DM1 / LFR-6RA-T-S

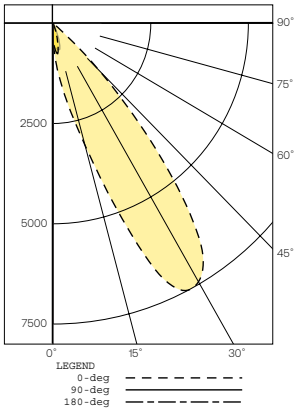
LUMINAIRE DATA

Test No.	**25.00745**
Description	**2000 lm, Very Narrow, 3500K, 90 CRI**
Delivered Lumens	**1825**
Watts	**14.3W**
Efficacy	**127**
Mounting	**Recessed**
Beam Angle (FWHM)	**14**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1632	89.4
0–60	1822	99.8
0–90	1825	100.0
0–180	1825	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	547
5	1061
15	3117
25	7226
35	6514
45	1734
55	51
65	14
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	134433
55°	4874
65°	1816
75°	0
85°	0

*Candela/Square Meter

LFR-6RA-M-20L35K9NR-DM1 / LFR-6RA-T-S

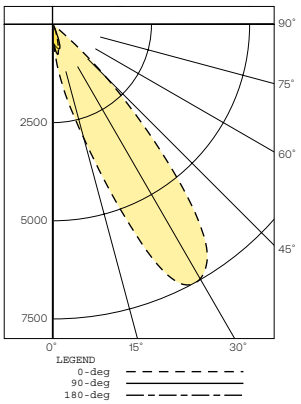
LUMINAIRE DATA

Test No.	**25.00746**
Description	**2000 lm, Narrow, 3500K, 90 CRI**
Delivered Lumens	**1835**
Watts	**14.3W**
Efficacy	**128**
Mounting	**Recessed**
Beam Angle (FWHM)	**25**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1621	88.3
0–60	1832	99.9
0–90	1835	100.0
0–180	1835	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	472
5	949
15	2974
25	7119
35	6760
45	1989
55	51
65	14
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	154202
55°	4874
65°	1816
75°	0
85°	0

*Candela/Square Meter

LFR-6RA-M-20L35K9MD-DM1 / LFR-6RA-T-S

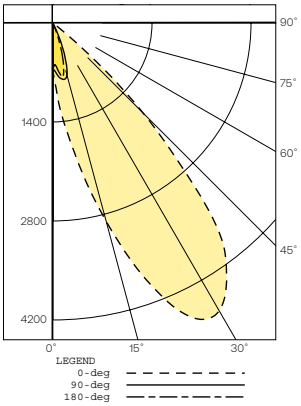
LUMINAIRE DATA

Test No.	**25.00747**
Description	**2000 lm, Medium, 3500K, 90 CRI**
Delivered Lumens	**1722**
Watts	**14.3W**
Efficacy	**120**
Mounting	**Recessed**
Beam Angle (FWHM)	**35**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1492	86.7
0–60	1719	99.9
0–90	1722	100.0
0–180	1722	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	645
5	1225
15	2881
25	4576
35	4286
45	1845
55	53
65	11
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	143038
55°	5066
65°	1427
75°	0
85°	0

*Candela/Square Meter

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LFR-6RA

LITEFRAME 6" ROUND ADJUSTABLE

PHOTOMETRY (CONTINUED)

LFR-6RA-M-20L35K9WD-DM1 / LFR-6RA-T-S

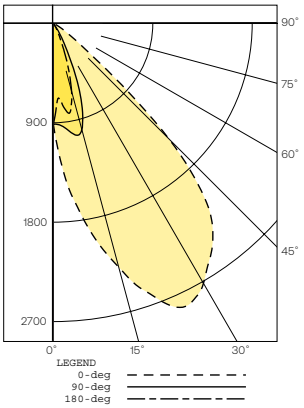
LUMINAIRE DATA

Test No.	**25.00748**
Description	**2000 lm, Wide, 3500K, 90 CRI**
Delivered Lumens	**1569**
Watts	**14.3W**
Efficacy	**110**
Mounting	**Recessed**
Beam Angle (FWHM)	**45**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1334	85.1
0–60	1565	99.8
0–90	1569	100.0
0–180	1569	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	914
5	1467
15	2284
25	2828
35	2501
45	1482
55	160
65	15
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	114896
55°	19461
65°	2966
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

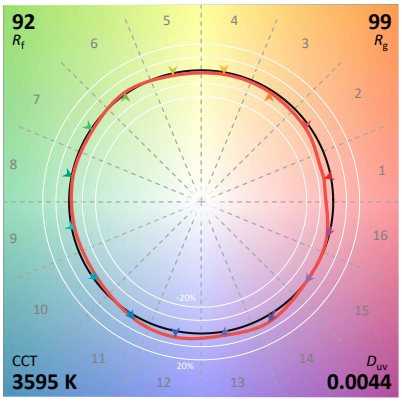
Photometrics are published at a nominal 3500 Kelvin, 90+ CRI. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

REFLECTOR FINISH MULTIPLIER (Based on Clear (Standard) Color)

Option	Specular (S)	Semi-Specular (SS)	White Cone (WC)
Multiplier	1	0.909	0.984

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

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LFR-6RA

LITEFRAME 6" ROUND ADJUSTABLE

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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