prescolite

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

LFR-6RD (SH)

LITEFRAME 6" ROUND
NON-CONDUCTIVE SHOWER DOWNLIGHT

LITEFRAME 2.0

FEATURES

- 6" LED downlight delivering 1000–8000 lumens
- Direct Install from below ceiling for New Construction or Remodel applications
- Non-conductive dead-front trim with four regressed lens options
- Suitable for wet locations, covered ceiling
- IP65 rated (room side)
- 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



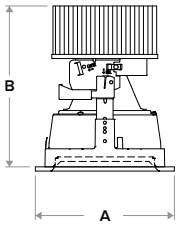
SERVICE PROGRAMS

STOCK QS10

C US WET LOCATION IP65 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	7.28 (185)	6.71 (170)	4.8 (2.2)
40L–50L	7.28 (185)	7.28 (185)	5 (2.3)
60L–80L	7.28 (185)	8.47 (215)	5.6 (2.5)

See DIMENSIONS section for complete details

SPECIFICATIONS

CONSTRUCTION

- Standard Fixture Module designed for Non-IC, Direct Install construction
- Optional Non-IC frame or IC 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/enclosure
- Light Engine connections use plenum rated (CMP) cable

OPTICS

- Durable, non-conductive trim with ½" regressed lens
- Lens options include acrylic, polycarbonate, or tempered glass micro-prism, and clear acrylic
- Smooth room side lens surface for easy wipe down
- Available in white or black trim and flange color

ELECTRICAL

- Chip-on-board LED with 2 SDCM
- Multiple CCTs, TriGain Technology 90+ CRI
- Long LED life: L90 at >50,000 hours (TM-21)

ELECTRICAL (CONTINUED)

- 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
- Remote emergency battery option available
- Current's patented TriGain® phosphor delivers 90 CRI color quality at 80 CRI efficacy

INSTALLATION

- Accommodates ceiling thickness from 0.50" to 2.50"
- 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.)

CERTIFICATIONS

- cCSAus certified to UL 1598
- For ≥60L: Marked spacing required 36" fixture center to center; 18" fixture center to building member; 0.5" above fixture
- IP65 rated (room side) when properly installed per installation instructions
- Suitable for wet locations, covered ceiling. EMR: 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)	78–91
Reported Life (Hours)	L90 / >50,000
Input Current (mA)	63–576 (120V)

*Based on, 35K, 90 CRI

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LFR-6RD (SH)

LITEFRAME 6" ROUND
NON-CONDUCTIVE SHOWER DOWNLIGHT

Gray Shading = Service Program STOCK QS10 Limit of 150 Luminaries

ORDERING GUIDE

Example: LFR-6RD-M-10L35K9-WD-DM1 / LFR-6RD-T-SH-WTAML / LFR-6RD-H

CATALOG #

FIXTURE MODULE

LFR-6RD-M – [ ] [ ] 9 – WD – [ ] [ ] [ ] – [ ]

Ap/Shp/Funct	Lumen Output	CCT	CRI	Distribution	Driver Options	Control Options	Voltage	Module Options
LFR-6RD-M 6" Round Downlight Fixture Module for Direct Install *(Non-IC frame or IC housing available under Housing Options below)*	**10L** 1000 **15L** 1500 **20L** 2000 **25L** 2500 **30L** 3000 **35L** 3500 **40L** 4000 **50L** 5000 **60L** 6000[1] **70L** 7000[1] **80L** 8000[1]	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K **50K** 5000K	**9** 90+	**WD** Wide (46°/0.7 SC)	**DM1** 0–10V Dimming to 1% **DM01** 0–10V Dimming to < 1%[1] **PDM** Phase (Forward/Reverse) Dimming to 1%[1] **DMX** DMX with RDM Dimming to < 0.1%[1] **DALI** DALI Dimming to 1%[1] **EDM** Lutron Hi-Lume EcoSystem Dimming to 1%[1]	**NX Lighting Controls** Networked Wireless **NXW** NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [2] Networked Wired **NXE** NX Wired Dual RJ45 SmartPORTS, without Sensor [2]	*Standard 120–277V* **34** 347V[3]	**CP** Chicago Plenum[4,5] **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-6RD-T – [ ] – [ ] [ ]

Aperture/Shape/Function	Trim Style	Flange Color Options	Lens Options
LFR-6RD-T 6" Round Downlight Trim Assembly	**SH** Non-Conductive Shower Trim	**WT** White Trim and Flange **BT** Black Trim and Flange	**AML** Acrylic, Micro-prism **PML** Polycarbonate, Micro-prism **GML** Tempered glass, Micro-prism **ACL** Acrylic, Clear

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 [7,8]

	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 DM01, PDM, DMX, DALI available up to 50L. EDM available 15L–40L.
2 NX requires DM1 driver option.
3 347V requires DM1 driver option; available 10L–40L; not available with Controls, DTS, EMR.
4 CP not available with PDM, DMX, or Controls.
5 Module options not available in combination.
6 DTS available with DM1, DM01 or DALI.
7 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 for use in combination with Controls or with Module Options CP, EMR, DTS.

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LFR-6RD (SH)

LITEFRAME 6" ROUND
NON-CONDUCTIVE SHOWER DOWNLIGHT

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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LFR-6RD (SH)

LITEFRAME 6" ROUND
NON-CONDUCTIVE SHOWER DOWNLIGHT

PERFORMANCE DATA TABLE

Performance data provided below is for 3500K, 90+ CRI

Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
10L	1000	Acrylic Micro-prism (AML)	717	7.4	97
		Polycarbonate Micro-prism (PML)	690	7.4	93
		Tempered Glass Micro-prism (GML)	718	7.4	97
		Acrylic Clear (ACL)	724	7.4	98
15L	1500	Acrylic Micro-prism (AML)	1095	11.3	97
		Polycarbonate Micro-prism (PML)	1054	11.3	93
		Tempered Glass Micro-prism (GML)	1097	11.3	97
		Acrylic Clear (ACL)	1105	11.3	98
20L	2000	Acrylic Micro-prism (AML)	1302	14.4	90
		Polycarbonate Micro-prism (PML)	1254	14.4	87
		Tempered Glass Micro-prism (GML)	1305	14.4	91
		Acrylic Clear (ACL)	1314	14.4	91
25L	2500	Acrylic Micro-prism (AML)	1848	19.3	96
		Polycarbonate Micro-prism (PML)	1779	19.3	92
		Tempered Glass Micro-prism (GML)	1852	19.3	96
		Acrylic Clear (ACL)	1865	19.3	97
30L	3000	Acrylic Micro-prism (AML)	2266	24.1	94
		Polycarbonate Micro-prism (PML)	2181	24.1	90
		Tempered Glass Micro-prism (GML)	2270	24.1	94
		Acrylic Clear (ACL)	2286	24.1	95
35L	3500	Acrylic Micro-prism (AML)	2661	28.9	92
		Polycarbonate Micro-prism (PML)	2561	28.9	89
		Tempered Glass Micro-prism (GML)	2666	28.9	92
		Acrylic Clear (ACL)	2685	28.9	93
40L	4000	Acrylic Micro-prism (AML)	2950	32.3	91
		Polycarbonate Micro-prism (PML)	2840	32.3	88
		Tempered Glass Micro-prism (GML)	2956	32.3	92
		Acrylic Clear (ACL)	2976	32.3	92
50L	5000	Acrylic Micro-prism (AML)	3669	42	87
		Polycarbonate Micro-prism (PML)	3532	42	84
		Tempered Glass Micro-prism (GML)	3676	42	88
		Acrylic Clear (ACL)	3702	42	88
60L	6000	Acrylic Micro-prism (AML)	4500	49.4	91
		Polycarbonate Micro-prism (PML)	4332	49.4	88
		Tempered Glass Micro-prism (GML)	4509	49.4	91
		Acrylic Clear (ACL)	4541	49.4	92
70L	7000	Acrylic Micro-prism (AML)	5239	58.9	89
		Polycarbonate Micro-prism (PML)	5043	58.9	86
		Tempered Glass Micro-prism (GML)	5249	58.9	89
		Acrylic Clear (ACL)	5286	58.9	90
80L	8000	Acrylic Micro-prism (AML)	5969	69	87
		Polycarbonate Micro-prism (PML)	5747	69	83
		Tempered Glass Micro-prism (GML)	5981	69	87
		Acrylic Clear (ACL)	6024	69	87

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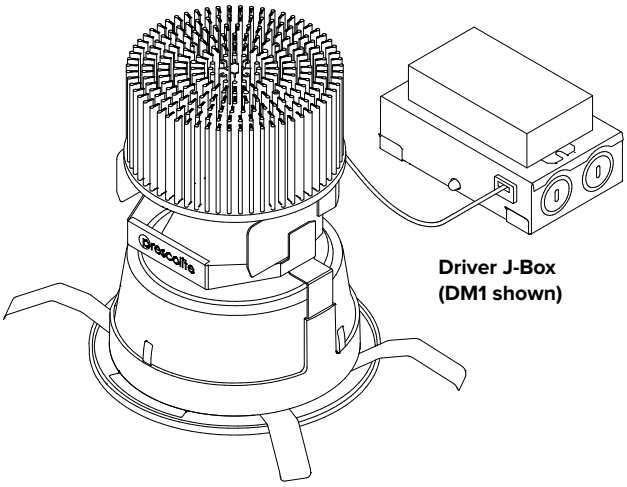
LFR-6RD (SH)

LITEFRAME 6" ROUND
NON-CONDUCTIVE SHOWER DOWNLIGHT

DIMENSIONS

LFR-6RD-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)

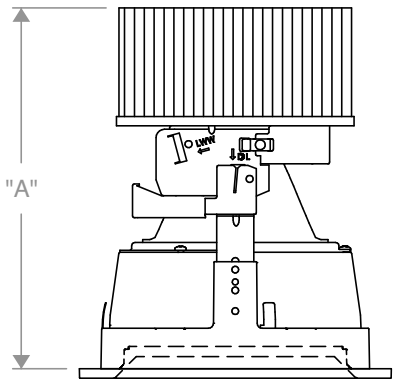
Light Engine with Trim assembly installed

DIMENSIONAL DATA		
APERTURE		ø5.75" (101.6mm)
OVERALL		Ø 7.13" (181.0mm)
FLANGE WIDTH	Standard	0.69" (17.5mm)
	Flush Mount	0.20" (5.1mm)
FLANGE TO FLANGE	Standard	Ø7.13" (136.6mm)
	Flush Mount	Ø6.15" (156.2mm)
CEILING CUTOUT	Standard	Ø6.50" (165.1mm)
	Flush Mount	Ø6.63" (168.4mm)
CEILING THICKNESS		0.50" – 2.50" (12.7 – 63.5mm)

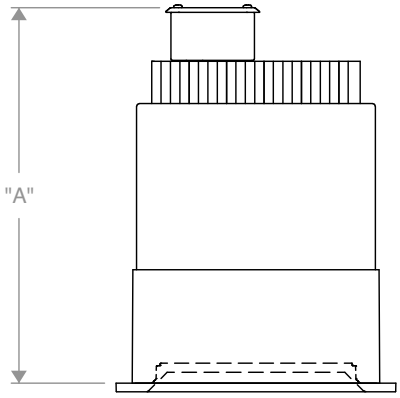
LFR-6RD LIGHT ENGINE

OVERALL LIGHT ENGINE HEIGHT "A" *		
LUMEN PACKAGE	FIXTURE MODULE	
10L–35L	STANDARD	6.71" (170.5mm)
	CP	8.11" (205.9mm)
40L–50L	STANDARD	7.28" (185.0mm)
	CP	8.68" (220.4mm)
60L–80L	STANDARD	8.47" (215.2mm)
	CP	9.89" (250.6mm)

* 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.



Side View Standard



Side View CP – Chicago Plenum

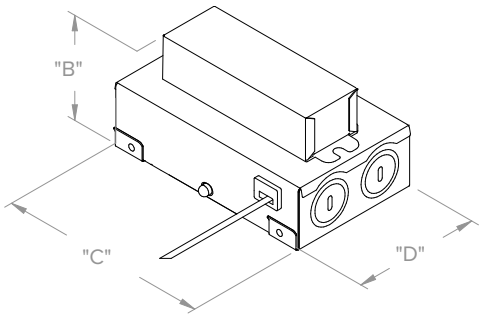
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LFR-6RD (SH)

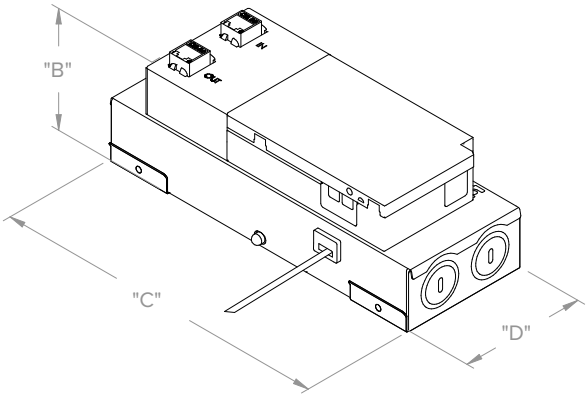
LITEFRAME 6" ROUND
NON-CONDUCTIVE SHOWER DOWNLIGHT

DIMENSIONS (CONTINUED)

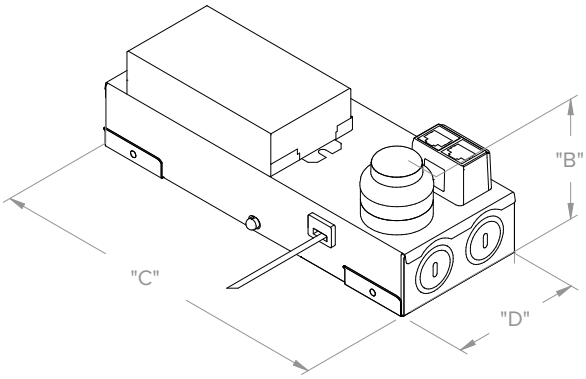
DRIVER J-BOX



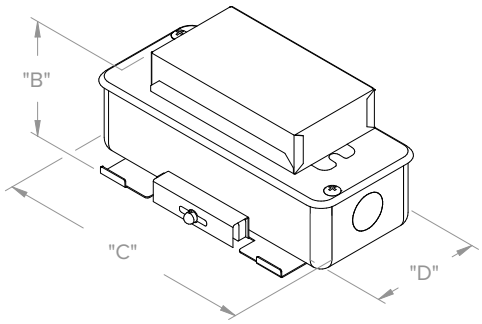
DM1 / DM01 / PDM / DALI



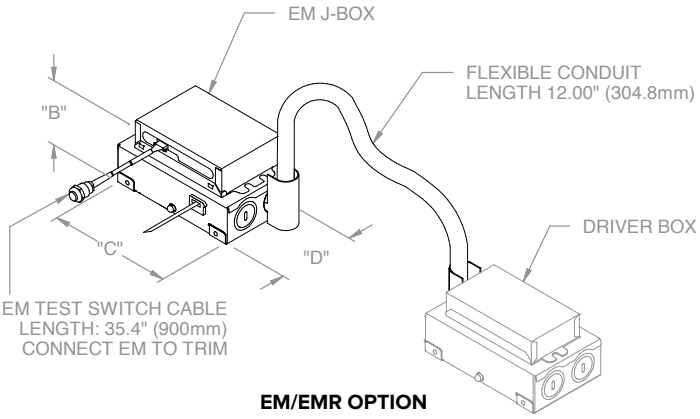
DMX



NX CONTROLS OPTION



CP



EM/EMR OPTION

EM/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)
EM/EMR	2.73" (69.3mm)	5.34" (135.6mm)	3.23" (82.0mm)	3.00" (76.2mm)
CP	1.89" (73.4mm)	6.50" (165.1mm)	2.72" (69.1mm)	3.00" (76.2mm)

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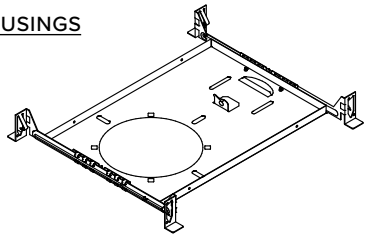
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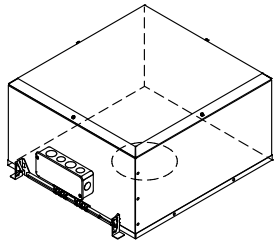
LFR-6RD (SH)

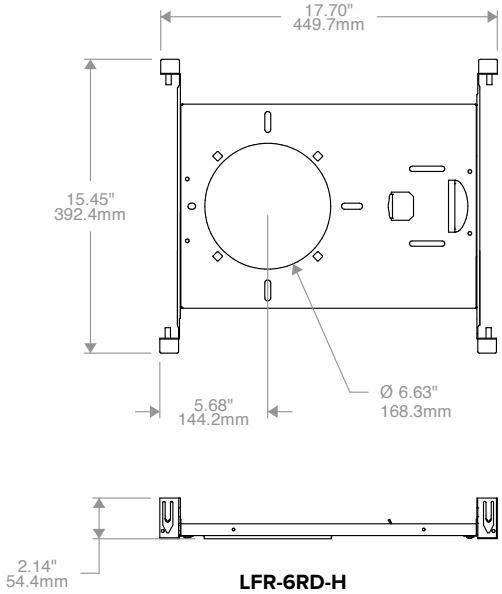
LITEFRAME 6" ROUND
NON-CONDUCTIVE SHOWER DOWNLIGHT

DIMENSIONS (CONTINUED)

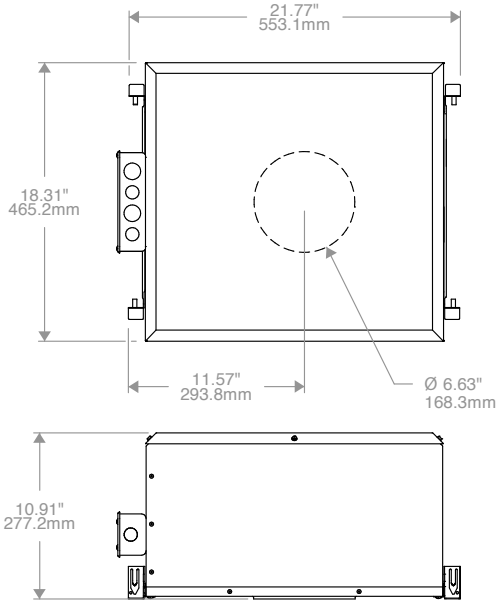
OPTIONAL HOUSINGS



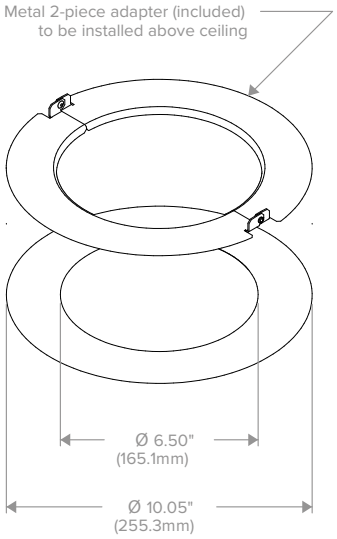




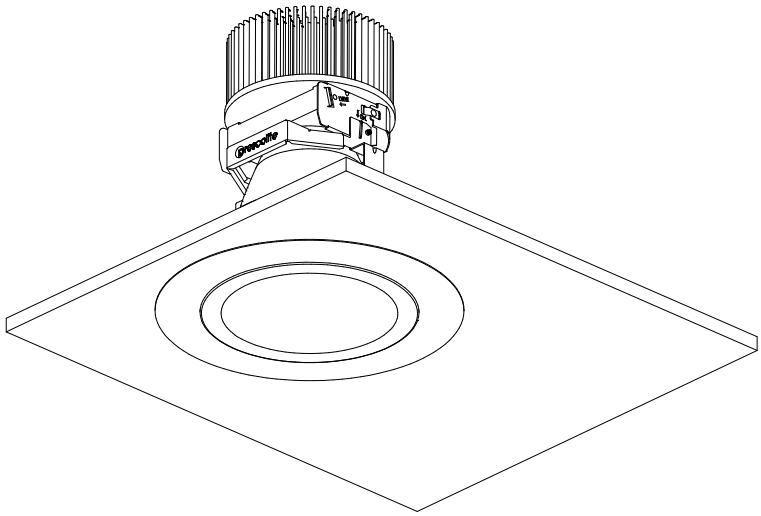
LFR-6RD-H
NON-IC HOUSING FRAME



LFR-6RD-H-IC
IC HOUSING
Not for use with CP Shroud



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



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LFR-6RD (SH)

LITEFRAME 6" ROUND
NON-CONDUCTIVE SHOWER DOWNLIGHT

PHOTOMETRY

LFR-6RD-M-20L35K9-DM1 / LFR-6RD-T-SH-WTGML

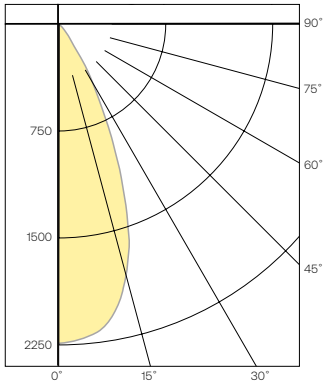
LUMINAIRE DATA

Test No.	**22.00603-R03**
Description	**2000 lm, Tempered Glass Micro-prism lens, 3500K, 90 CRI**
Delivered Lumens	**1305**
Watts	**14.4W**
Efficacy	**91**
Mounting	**Recessed**
Spacing Criterion	**0.7**
Beam Angle (FWHM)	**45**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1227	94.0
0–60	1289	98.7
0–90	1305	100.0
0–180	1305	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	2218
5	2188
15	1804
25	847
35	206
45	52
55	20
65	11
75	4
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	4583
55°	2173
65°	1622
75°	963
85°	0

*Candela/Square Meter

LFR-6RD-M-20L35K9-DM1 / LFR-6RD-T-SH-WTPML

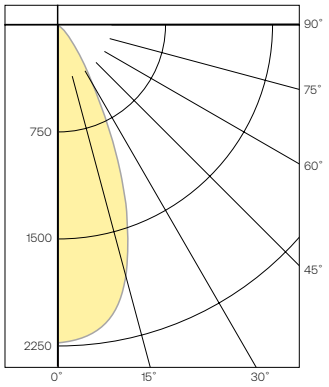
LUMINAIRE DATA

Test No.	**22.00604-R03**
Description	**2000 lm, Polycarbonate Micro-prism lens, 3500K, 90 CRI**
Delivered Lumens	**1254**
Watts	**14.4W**
Efficacy	**87**
Mounting	**Recessed**
Spacing Criterion	**0.7**
Beam Angle (FWHM)	**45**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1180	94.1
0–60	1239	98.8
0–90	1254	100.0
0–180	1254	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	2134
5	2105
15	1732
25	815
35	201
45	49
55	20
65	10
75	4
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	4318
55°	2173
65°	1474
75°	963
85°	0

*Candela/Square Meter

LFR-6RD-M-20L35K9-DM1 / LFR-6RD-T-SH-WTAML

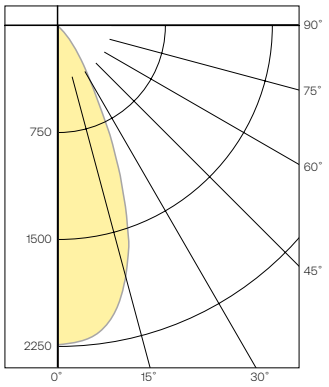
LUMINAIRE DATA

Test No.	**22.00605-R03**
Description	**2000 lm, Acrylic Micro-prism lens, 3500K, 90 CRI**
Delivered Lumens	**1302**
Watts	**14.4W**
Efficacy	**90**
Mounting	**Recessed**
Spacing Criterion	**0.7**
Beam Angle (FWHM)	**45**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1219	93.6
0–60	1284	98.6
0–90	1302	100.0
0–180	1302	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	2194
5	2166
15	1785
25	842
35	210
45	54
55	23
65	12
75	5
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	4759
55°	2499
65°	1769
75°	1204
85°	0

*Candela/Square Meter

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LFR-6RD (SH)

LITEFRAME 6" ROUND
NON-CONDUCTIVE SHOWER DOWNLIGHT

PHOTOMETRY (CONTINUED)

LFR-6RD-M-20L35K9-DM1 / LFR-6RD-T-SH-WTACL

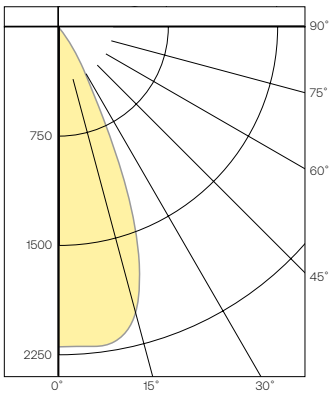
LUMINAIRE DATA

Test No.	**25.00749**
Description	**2000 lm, Acrylic Clear lens, 3500K, 90 CRI**
Delivered Lumens	**1314**
Watts	**14.4W**
Efficacy	**91**
Mounting	**Recessed**
Spacing Criterion	**0.6**
Beam Angle (FWHM)	**46**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1241	94.5
0–60	1296	98.7
0–90	1314	100
0–180	1314	100

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	2201
5	2207
15	2033
25	795
35	154
45	41
55	24
65	12
75	4
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	3179
55°	2294
65°	1557
75°	847
85°	0

*Candela/Square Meter

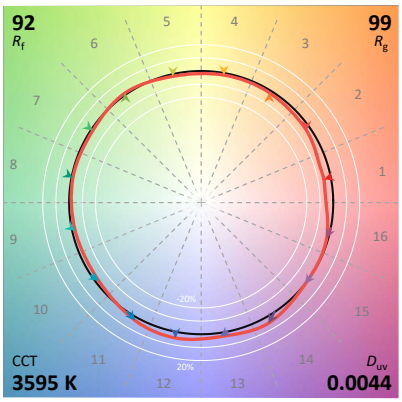
LUMEN MULTIPLIER

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.

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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prescolite

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

LFR-6RD (SH)

LITEFRAME 6" ROUND
NON-CONDUCTIVE SHOWER DOWNLIGHT

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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