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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

LFR-4RD (SH)

LITEFRAME 4" ROUND
NON-CONDUCTIVE SHOWER DOWNLIGHT

LITEFRAME 2.0

FEATURES

- 4" LED downlight delivering 1000–6000 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



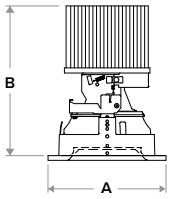
SERVICE PROGRAMS

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 – 30L	5.54 (141)	5.45 (138)	4.3 (1.9)
35L – 60L	5.54 (141)	7.03 (179)	4.5 (2.1)

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)
- 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 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 ≥50L: 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	1000–6000
Wattage Range	8–53
Efficacy Range (LPW)	75–95
Reported Life (Hours)	L90 / >50,000
Input Current (mA)	65–446 (120V)

*Based on 35K, 90 CRI

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LITEFRAME 4" ROUND
NON-CONDUCTIVE SHOWER DOWNLIGHT

Gray Shading = Service Program STOCK QS10 Limit of 150 Luminaries

ORDERING GUIDE

Example: LFR-4RD-M-10L35K9-WD-DM1 / LFR-4RD-T-SH-WTAML/ LFR-4RD-H

CATALOG #

FIXTURE MODULE

LFR-4RD-M – | | | 9 – WD – | | | | –

Ap/Shp/Funct	Lumen Output	CCT	CRI	Distribution	Driver Options	Control Options	Voltage	Module Options
LFR-4RD-M 4" Round Downlight Fixture Module for Direct Install	**10L** 1000	**27K** 2700K	**9** 90+	**WD** Wide (49°/0.7 SC)	**DM1** 0–10V Dimming to 1%	NX Lighting Controls	*Standard 120–277V*	**CP** Chicago Plenum [4,5]
(Non-IC frame or IC housing available under Housing Options below)	**15L** 1500	**30K** 3000K			**DM01** 0–10V Dimming to < 1% [1]	Networked Wireless	**34** 347V [3]	**EMR** 10W Emergency Battery Pack (CEC Title 20 Compliant) with remote test switch and indicator light [5]
	20L 2000	**35K** 3500K			**PDM** Phase (Forward/ Reverse) Dimming to 1% [1]	**NXW** NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [2]		**DTS** Device Transfer Switch with Dimming Bypass [5,6]
	25L 2500	**40K** 4000K			**DMX** DMX with RDM dimming to < 0.1% [1]	Networked Wired		
	30L 3000	**50K** 5000K			**DALI** DALI Dimming to 1% [1]	**NXE** NX Wired Dual RJ45 SmartPORTS, without Sensor [2]		
	35L 3500				**EDM** Lutron Hi-Lume EcoSystem Dimming to 1% [1]			
	40L 4000							
	50L 5000 [1]							
	60L 6000 [1]							

TRIM (Ships separately)

LFR-4RD-T – | | –

Aperture/Shape/Function	Trim Style	Flange Color Options	Lens Options
LFR-4RD-T 4" Round Downlight Trim Assembly	**SH** Non-Conductive Shower Trim	**WT** White Trim and Flange	**AML** Acrylic, Micro-prism
		BT Black Trim and Flange	**PML** Polycarbonate, Micro-prism
			GML Tempered glass, Micro-prism
			ACL Acrylic, Clear

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 [7,8]

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 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 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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LITEFRAME 4" 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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LFR-4RD (SH)

LITEFRAME 4" 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)	722	7.7	94
		Polycarbonate Micro-prism (PML)	695	7.7	91
		Tempered Glass Micro-prism (GML)	724	7.7	94
		Acrylic Clear (ACL)	729	7.7	95
15L	1500	Acrylic Micro-prism (AML)	991	11.8	84
		Polycarbonate Micro-prism (PML)	954	11.8	81
		Tempered Glass Micro-prism (GML)	993	11.8	84
		Acrylic Clear (ACL)	1000	11.8	85
20L	2000	Acrylic Micro-prism (AML)	1372	14.8	93
		Polycarbonate Micro-prism (PML)	1320	14.8	89
		Tempered Glass Micro-prism (GML)	1374	14.8	93
		Acrylic Clear (ACL)	1384	14.8	94
25L	2500	Acrylic Micro-prism (AML)	1786	20.4	88
		Polycarbonate Micro-prism (PML)	1719	20.4	84
		Tempered Glass Micro-prism (GML)	1789	20.4	88
		Acrylic Clear (ACL)	1802	20.4	88
30L	3000	Acrylic Micro-prism (AML)	2155	25.9	83
		Polycarbonate Micro-prism (PML)	2075	25.9	80
		Tempered Glass Micro-prism (GML)	2160	25.9	83
		Acrylic Clear (ACL)	2175	25.9	84
35L	3500	Acrylic Micro-prism (AML)	2587	29.9	86
		Polycarbonate Micro-prism (PML)	2490	29.9	83
		Tempered Glass Micro-prism (GML)	2592	29.9	87
		Acrylic Clear (ACL)	2611	29.9	87
40L	4000	Acrylic Micro-prism (AML)	2907	32.7	89
		Polycarbonate Micro-prism (PML)	2798	32.7	85
		Tempered Glass Micro-prism (GML)	2913	32.7	89
		Acrylic Clear (ACL)	2933	32.7	90
50L	5000	Acrylic Micro-prism (AML)	3498	42.6	82
		Polycarbonate Micro-prism (PML)	3368	42.6	79
		Tempered Glass Micro-prism (GML)	3505	42.6	82
		Acrylic Clear (ACL)	3530	42.6	83
60L	6000	Acrylic Micro-prism (AML)	4180	53.1	79
		Polycarbonate Micro-prism (PML)	4024	53.1	76
		Tempered Glass Micro-prism (GML)	4188	53.1	79
		Acrylic Clear (ACL)	4218	53.1	79

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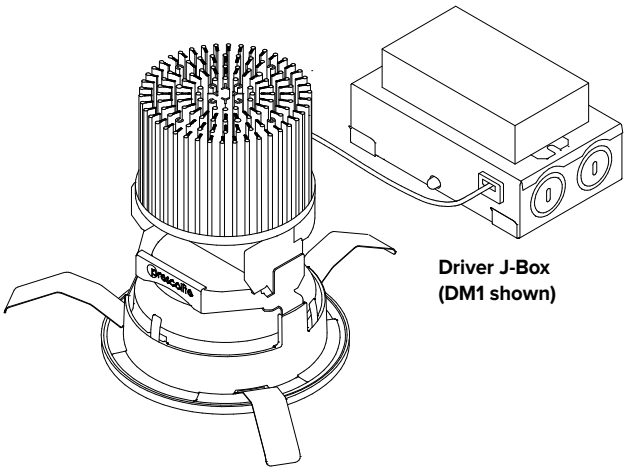
LFR-4RD (SH)

LITEFRAME 4" ROUND
NON-CONDUCTIVE SHOWER DOWNLIGHT

DIMENSIONS

LFR-4RD-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)

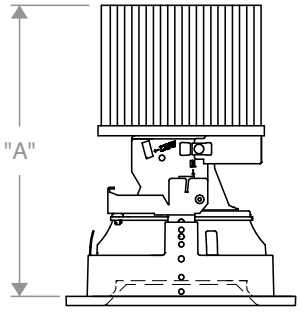
Light Engine with Trim assembly installed

DIMENSIONAL DATA	
APERTURE	ø4.00" (101.6mm)
FLANGE WIDTH	0.84" (21.3mm)
FLANGE TO FLANGE	Ø5.54" (140.8mm)
CEILING CUTOUT	Ø4.75" (120.7mm)
CEILING THICKNESS	0.50" – 2.50" (12.7 – 63.5mm)

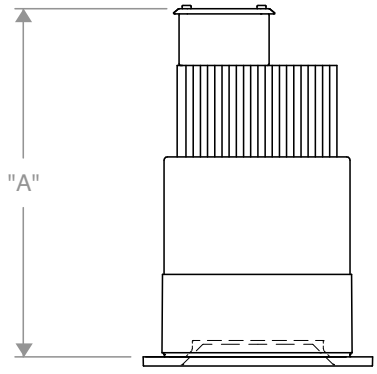
LFR-4RD LIGHT ENGINE

OVERALL LIGHT ENGINE HEIGHT "A" *		
LUMEN PACKAGE	FIXTURE MODULE	
10L–30L	STANDARD	5.45" (138.5mm)
	CP	6.85" (173.9mm)
35L–60L	STANDARD	7.03" (178.6mm)
	CP	8.43" (214.0mm)

* 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.
****Lumen offering Finalization: TBD Since Thermal Testing In-Progress.



Side View Standard



Side View CP – Chicago Plenum

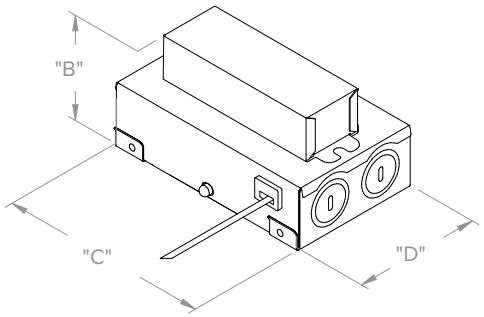
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LFR-4RD (SH)

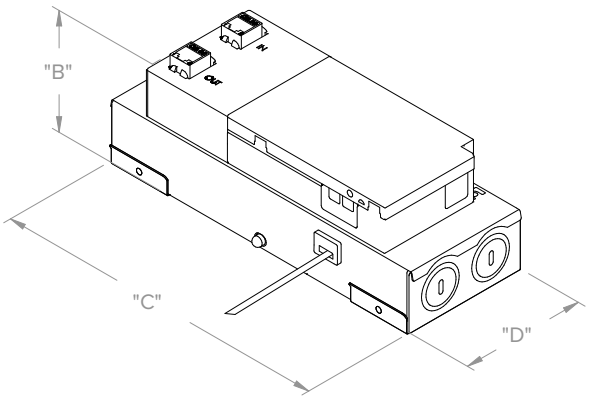
LITEFRAME 4" ROUND
NON-CONDUCTIVE SHOWER DOWNLIGHT

DIMENSIONS (CONTINUED)

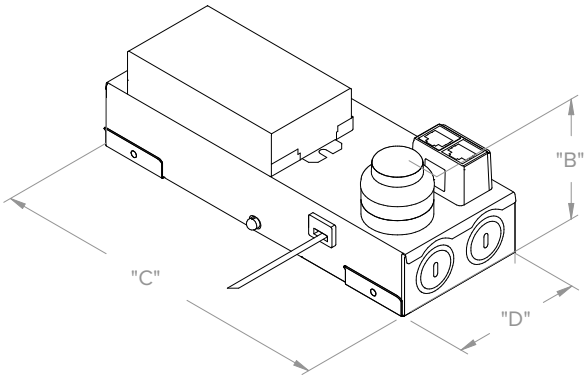
DRIVER J-BOX



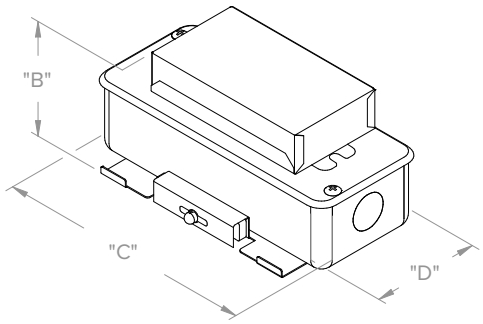
DM1 / DM01 / PDM / DALI



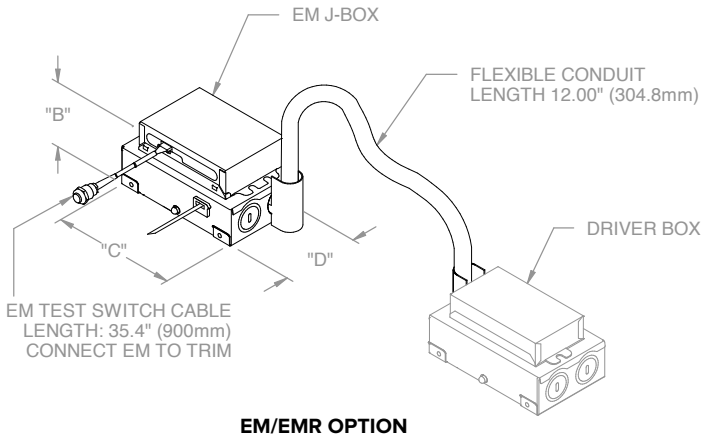
DMX



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)	3.50" (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)
EM/EMR	2.73" (69.3mm)	5.34" (135.6mm)	3.23" (82.0mm)	4.00" (101.6mm)
CP	1.89" (73.4mm)	6.50" (165.1mm)	2.72" (69.1mm)	5.00" (127mm)

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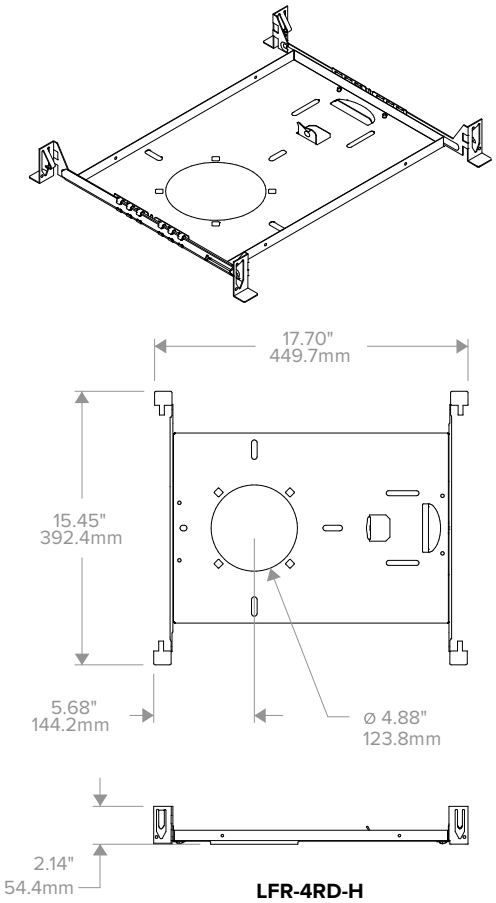
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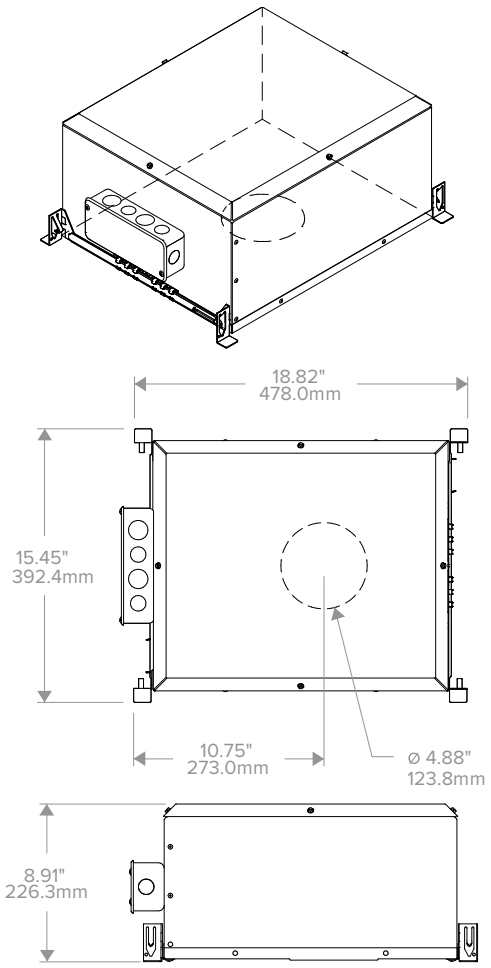
LITEFRAME 4" ROUND
NON-CONDUCTIVE SHOWER DOWNLIGHT

DIMENSIONS (CONTINUED)

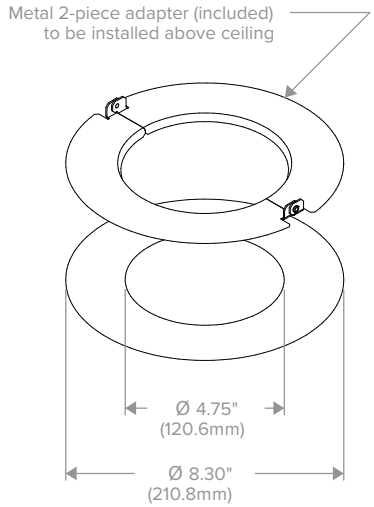
OPTIONAL HOUSINGS



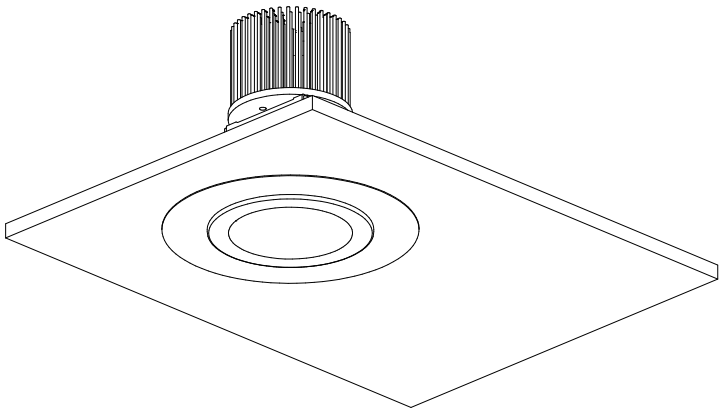
LFR-4RD-H
NON-IC HOUSING FRAME



LFR-4RD-H-IC
IC HOUSING
Not for use with CP Shroud



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



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LFR-4RD (SH)

LITEFRAME 4" ROUND
NON-CONDUCTIVE SHOWER DOWNLIGHT

PHOTOMETRY

LFR-4RD-M-20L35K9-DM1 / LFR-4RD-T-SH-WTGML

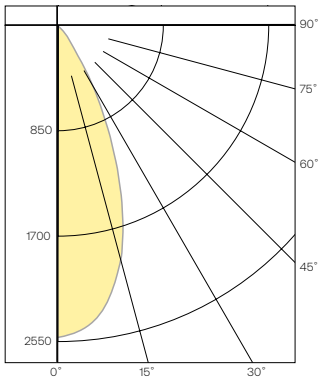
LUMINAIRE DATA

Test No.	**22.00587-R03**
Description	**2000 lm, Tempered Glass Micro-prism lens, 3500K, 90 CRI**
Delivered Lumens	**1374**
Watts	**14.8W**
Efficacy	**93**
Mounting	**Recessed**
Spacing Criterion	**0.7**
Beam Angle (FWHM)	**44**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1309	95.3
0–60	1361	99.0
0–90	1374	100.0
0–180	1374	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	2426
5	2367
15	1855
25	932
35	226
45	42
55	16
65	10
75	3
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	7319
55°	3438
65°	2916
75°	1428
85°	0

*Candela/Square Meter

LFR-4RD-M-20L35K9-DM1 / LFR-4RD-T-SH-WTPML

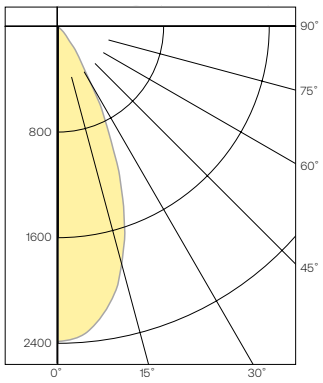
LUMINAIRE DATA

Test No.	**22.00588-R03**
Description	**2000 lm, Polycarbonate Micro-prism lens, 3500K, 90 CRI**
Delivered Lumens	**1320**
Watts	**14.8W**
Efficacy	**89**
Mounting	**Recessed**
Spacing Criterion	**0.7**
Beam Angle (FWHM)	**45**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1261	95.6
0–60	1308	99.1
0–90	1320	100.0
0–180	1320	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	2338
5	2286
15	1821
25	899
35	201
45	38
55	15
65	9
75	3
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	6622
55°	3223
65°	2624
75°	1428
85°	0

*Candela/Square Meter

LFR-4RD-M-20L35K9-DM1 / LFR-4RD-T-SH-WTAML

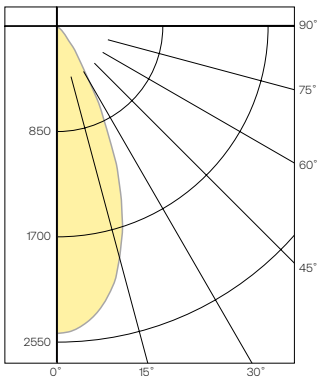
LUMINAIRE DATA

Test No.	**22.00594-R03**
Description	**2000 lm, Acrylic Micro-prism lens, 3500K, 90 CRI**
Delivered Lumens	**1373**
Watts	**14.8W**
Efficacy	**93**
Mounting	**Recessed**
Spacing Criterion	**0.7**
Beam Angle (FWHM)	**45**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1312	95.6
0–60	1360	99.1
0–90	1373	100.0
0–180	1373	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	2440
5	2378
15	1898
25	935
35	210
45	38
55	16
65	9
75	3
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	6622
55°	3438
65°	2624
75°	1428
85°	0

*Candela/Square Meter

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LFR-4RD (SH)

LITEFRAME 4" ROUND
NON-CONDUCTIVE SHOWER DOWNLIGHT

PHOTOMETRY (CONTINUED)

LFR-4RD-M-20L35K9-DM1 / LFR-4RD-T-SH-WTACL

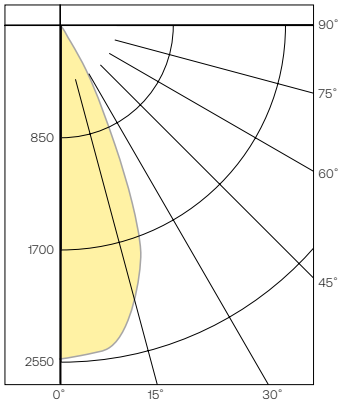
LUMINAIRE DATA

Test No.	**25.00750**
Description	**2000 lm, Acrylic Clear lens, 3500K, 90 CRI**
Delivered Lumens	**1394**
Watts	**14.8W**
Efficacy	**94**
Mounting	**Recessed**
Spacing Criterion	**0.7**
Beam Angle (FWHM)	**46**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1357	97.4
0–60	1385	99.4
0–90	1394	100.0
0–180	1394	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	2534
5	2505
15	2171
25	941
35	67
45	21
55	12
65	6
75	2
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	3663
55°	2581
65°	1751
75°	953
85°	0

*Candela/Square Meter

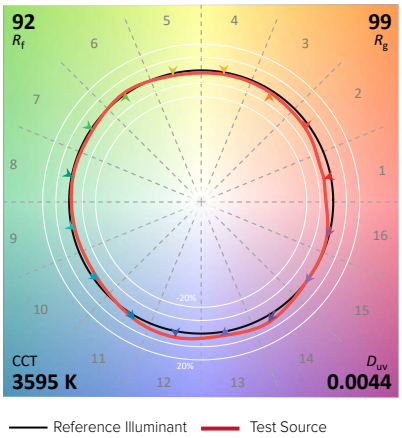
LUMEN MULTIPLIER

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-4RD (SH)

LITEFRAME 4" 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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