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	~ '	-	••	-	-

- 4" LED downlight delivering 1000-6000 lumens
- Direct Install from below ceiling for New Construction or Remodel applications
- Optional housing accessories available
- Five beam distributions
- 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



CONTROL TECHNOLOGY



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

- High purity spun aluminum reflector, self-flanged
- 57° visual cutoff to source image and 31° cutoff to source
- Specular or Semi-Specular anodized or White painted cone reflector finish/colors
- Painted flange options in White or Black
- Optional clear lens trim for wet location applications
- Wide Angle and Soft Focus lens filter/clip accessories available

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EL	ECI	יוא	JAL

- 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
- Integral and remote emergency battery options available

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.)

DATE:	LOCATION:
TYPE:	PROJECT:





SERVICE PROGRAMS



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 wet locations, covered ceiling when used with CL lens trim; all other configurations, suitable for damp locations
- CL Lens Option: IP65 rated (room side) when
 properly installed per installation instructions
- EM/EMR: Certified under UL 924 standard for emergency lighting and power equipment
- Approved for 8 (4 in/4 out) No. 12AWG conductors rated for 90°C through wiring
- ENERGY STAR® certified models available (For list and additional information, visit www.energystar.gov)

WARRANTY

• 5 year warranty

KEY DATA	A
Lumen Range	1000–6000
Wattage Range	8–54
Efficacy Range (LPW)	105–135
Reported Life (Hours)	L90 / >50,000
Input Current (mA)	66–450 (120V)

*Based on Specular, 35K, 80 CRI

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LITEFRAME 4" ROUND DOWNLIGHT

ORDERING GUIDE

CATALOG

FIXTURE MODULE

LFR-4RD-M	_[_]_						_		
Ap/Shp/Funct		Lume	n Output	ССТ		CRI	D	istribution		Drive	Options	Contr	ol Options	Voltage	Mo	odule Options	
LFR-4RD-M		10L	1000	27K	2700K	8 80+	V	NR Very Narrow		DM1	0–10V Dimming	NXE	NX Wired	Standard	CF	 Chicago Ple 	enum
4" Round Downlight		15L	1500	30K	3000K	9 90+		(17°/0.3 SC)		DMOA	to 1%		Dual RJ45 SmartPORTS,	120–277V	EN	Emergency	Batt
Fixture Module for Direct Install		20L	2000	35K	3500K		N	R Narrow (26°/0.4 SC)		DIVIOT	0—10V Dimming to < 1% ²		without Sensor ³	34 347V ⁴		Pack with inf test switch a	0
(Non-IC frame		25L	2500	40K	4000K		N	ID Medium		PDM	Phase (Forward/ Reverse)	NXW	NX Networked Wireless Radio			indicator ligh	ht ⁶
or IC housing available under	:	30L	DL 3000 50K 500	5000K			(34°/0.6 SC)		Dimming to 1% ²		Module NXRM2		EMR			
Housing Options below)		35L	3500					/D Wide (49°/0.7 SC)		DMX	DMX with RDM dimming	P	and Bluetooth Programming, without Sensor ³			test switch a	Pack with remote test switch and indicator light ⁶
		40L 4000			xw	W Extra Wide		to < 0.1% ²		Without Sensor		D	5				
		50L	50001					(65°/1.0	DA	DALI DALI Dimming to 1% ²				DIS	Switch with I		
		60L	60001					SC) 12		EDM	Lutron Hi-Lume EcoSystem Dimming to 1% ²					Bypass ^{6,7}	

TRIM (Ships separately)

LFR-4RD-T]_[-								
Aperture/Sh	ape/Function		Distribution		Refl	ector Finish/Color	Flan	ge Color Options	Lei	ns Options	Low	er Trim Options
LFR-4RD-T	4" Round Downlight Trim Assembly		Standard NR, MD, WD, XW		S Specular ¹² SS Semi-Specular		Standard matches reflector color		Standard no lens CL Clear Lens (Wet listed) ⁹		EM Pre-punched reflector EM integral test switch and indicator ⁹	
			VNR Very Narrow		wc	Painted White	WT BT	White Flange [®] Black Flange			FM	Flush Mount Mud-In Ring'

HOUSING OPTIONS (Ships separately)

Ape	rture/Shape/Func	tion
	LFR-4RD-H	4" Housing Frame, New Construction, Non-IC
	LFR-4RD-H-IC	4" Housing Enclosure, New Construction, IC Rated ^{10, 11}

Accessories	
SFL4	Soft Focus Lens and Clip, 4" Round
WAL4	Wide Angle 80° Lens and Clip, 4" Round
LiteGear	LiteGear® Inverter, 125VA–250VA
LPS Series	LightPower Micro-Inverter, 20VA–55VA
LF-FMR4-R	Flush Mount Mud-in Ring, 4" 13
LF-MOR4-R-WH	Metal Oversized Ring, 4" Round, White (8.3" outside diameter)
LFR-SCA4	Sloped Ceiling Adapter, 4" White ¹⁴

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, EM, EMR.
- 5 CP not available with PDM, DMX, or Controls.
- 6 Module options not available in combination.
- 7 DTS available with DM1. DM01. or DALI.
- 8 WT not needed for WC.
- 9 CL lens and EM trim options not available in combination.
- 10 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 types.)
- 11 IC Housing not for use in combination with Controls or with Module Options CP, EM, EMR, DTS.
- 12 XW distribution is not available for Specular (S) reflector finish.
- 13 Flush Mount Flange (FM) requires FMR accessory (sold separately).
- 14 Specify slope angle 5° -35° in 5° increments. Not available with EM or FM options.

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TYPE:	PROJECT:
CATALOG #:	

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

= Service Program

STOCK



LITEFRAME 4" ROUND DOWNLIGHT

DATE:	LOCATION:
TYPE:	PROJECT:

CATALOG #:

CONTROLS

NX Lighting Controls:

Supports applications in a variety of deployment options. Integrates with and enables a wide array of luminaires including those with SpectraSync[™] Color Tuning Technology.



	NX INTEGRATED CONTROLS REFERENCE											
NX Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	0–10V Dimming	On/off Control	Bluetooth® App Programming				
NX Networked	<u>I – Wired</u>											
NXE	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC ¹				
NX Networked	NX Networked – Wireless											
NXW ²	N/A	Yes	Yes	No	No	Yes	Yes	Yes				

1 NXBTC needs to be plugged into an available NX SmartPort[™] on the fixture network

2 Programming via App requires factory assistance

PERFORMANCE DATA TABLE

Performance data shown is 3500K 80+CRI with Specular reflector except Extra Wide distribution which is Semi-Specular.

Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
		Very Narrow	979	7.6	129
		Narrow	1023	7.6	135
10L	1000	Medium	997	7.6	131
		Wide	995	7.6	131
		Extra Wide	947	7.6	125
		Very Narrow	1471	11.8	125
		Narrow	1536	11.8	130
15L	1500	Medium	1498	11.8	127
		Wide	1494	11.8	127
		Extra Wide	1422	11.8	121
		Very Narrow	1937	15.2	127
		Narrow	1982	15.3	130
20L	2000	Medium	1933	15.3	127
		Wide	1928	15.3	126
		Extra Wide	1835	15.2	121
		Very Narrow	2465	20.9	118
		Narrow	2574	20.9	123
25L	2500	Medium	2510	20.9	120
		Wide	2504	20.9	120
		Extra Wide	2384	20.9	114
		Very Narrow	2938	26.0	113
		Narrow	3068	26.0	118
30L	3000	Medium	2992	26.0	115
		Wide	2985	26.0	115
		Extra Wide	2842	26.0	109
		Very Narrow	3571	29.4	121
		Narrow	3729	29.4	127
35L	3500	Medium	3637	29.4	124
332	3300	Wide	3628	29.4	123
		Extra Wide	3454	29.4	117
		Very Narrow	3982	32.9	121
		Narrow	4157	32.9	126
40L	4000	Medium	4055	32.9	123
102	-1000	Wide	4045	32.9	123
		Extra Wide	3851	32.9	117
		Very Narrow	4844	42.0	115
		Narrow	5058	42.0	120
50L	5000	Medium	4933	42.0	117
50L	5000	Wide	4933	42.0	117
		Extra Wide	4684	42.0	117
		Very Narrow	5778	53.4	108
		Narrow	6033	53.4	113
60L	6000	Medium	5884	53.4	110
OOL	0000	Wide	5870	53.4	110
			5588	53.4	105
		Extra Wide	8866	53.4	105

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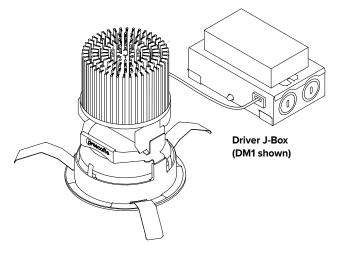


LITEFRAME	4" ROUND	DOWNLIGHT

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.



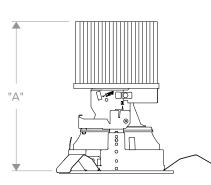
	DIMENSIONAL DATA	
APERTURE		Ø4.00" (101.6mm)
OVERALL		Ø5.37" (136.5mm)
FLANGE WIDTH	Standard	0.69" (17.5mm)
FLANGE WIDTH	Flush Mount	0.19" (4.8mm)
FLANGE TO FLANGE	Standard	Ø5.37" (136.6mm)
FLANGE TO FLANGE	Flush Mount	Ø4.38" (111.2mm)
	Standard	Ø4.75" (120.7mm)
CEILING CUTOUT	Flush Mount	Ø4.88" (123.9mm)
CEILING THICKNESS		0.50" - 2.50" (12.7 - 63.5mm)

Light Engine with Trim assembly installed

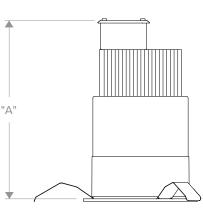
LFR-4RD LIGHT ENGINE

OVERALL LIGHT ENGINE HEIGHT "A" *				
LUMEN	FIXTURE	E	BEAM DISTRIBUTION	1
PACKAGE	MODULE	VNR	NR / MD/ WD	XW
101 - 301	STANDARD	6.24" (158.5mm)	5.45" (138.5mm)	5.1" (129.5mm)
10L-30L	CP	9.22" (324.1mm)	8.43" (214.0mm)	8.08" (205.1mm)
35L-60L	STANDARD	7.82" (198.6mm)	7.03" (178.6mm)	6.68" (169.7mm)
35L-60L	CP	9.22" (234.1mm)	8.43" (214.0mm)	8.08" (205.1mm)

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 memor; 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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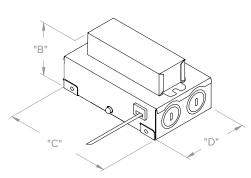
DATE:	LOCATION:	
TYPE:	PROJECT:	
CATALOG #:		



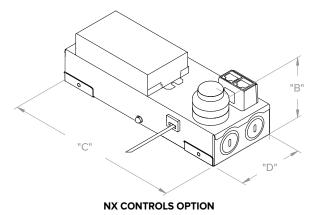
LITEFRAME 4" ROUND DOWNLIGHT

DIMENSIONS CONTINUED

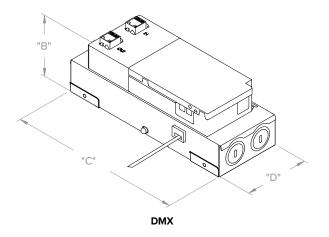
DRIVER J-BOX

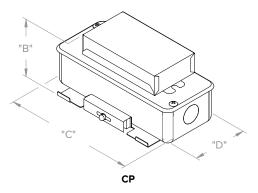


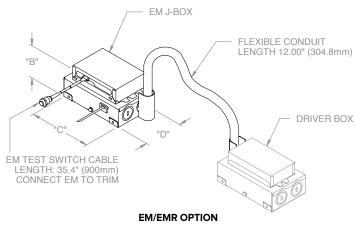
DM1 / DM01 / PDM / DALI



DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	







EM/EMR Driver J-Box Conduit (provided) connects to Driver J-Box (see Driver J-Box for additional details)

OVER	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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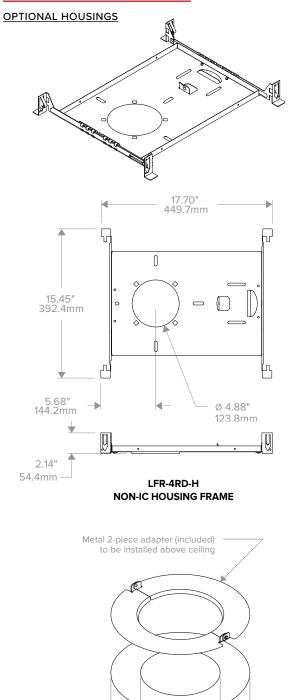
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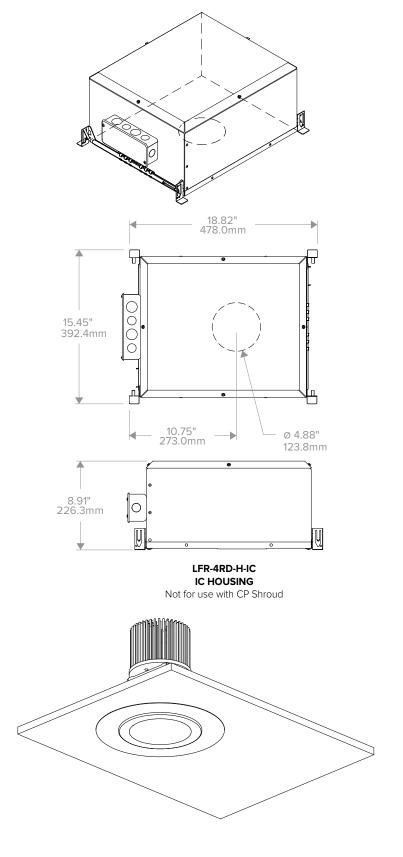


LITEFRAME 4" ROUND DOWNLIGHT

DIMENSIONS CONTINUED



DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	



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

Ø 4.75"

(120.6mm) Ø 8.30" (210.8mm) ->

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DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

PHOTOMETRY

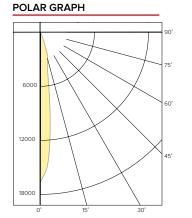
LFR-4RD-M-20L35K8VNR-DM1 / LFR-4RD-T-VNR-S

LUMINAIRE DATA

Test No.	21.001652
Description	2000 lm, Very Narrow, 3500K, 80 CRI
Delivered Lumens	1937
Watts	15.2W
Efficacy	127
Mounting	Recessed
Spacing Criterion	0.3
Beam Angle (FWHM)	15

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1932	99.8
0-60	1936	99.9
0-90	1937	100.0
0-180	1937	100.0



CANDELA DISTRIBUTION

Degree	Candela
0	16778
5	12300
15	3246
25	139
35	7
45	3
55	1
65	1
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	523
55°	215
65°	292
75°	0
85°	0

*Candela/Square Meter

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

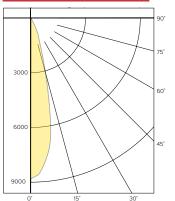
LUMINAIRE DATA

Test No.	21.00574
Description	2000 lm, Narrow, 3500K, 80 CRI
Delivered Lumens	1982
Watts	15.3W
Efficacy	130
Mounting	Recessed
Spacing Criterion	0.4
Beam Angle (FWHM)	26

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1978	99.3
0-60	1981	100.0
0-90	1982	100.0
0-180	1982	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	8819
5	8106
15	3103
25	858
35	7
45	2
55	1
65	1
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	349
55°	215
65°	292
75°	0
85°	0

*Candela/Square Meter

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

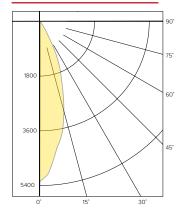
LUMINAIRE DATA

Test No.	21.00585
Description	2000 lm, Medium, 3500K, 80 CRI
Delivered Lumens	1933
Watts	15.3W
Efficacy	127
Mounting	Recessed
Spacing Criterion	0.6
Beam Angle (FWHM)	34

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1928	99.8
0-60	1931	99.9
0-90	1933	100.0
0-180	1933	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	5267
5	4677
15	3033
25	1352
35	55
45	3
55	1
65	1
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	523
55°	215
65°	292
75°	0
85°	0

*Candela/Square Meter

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PHOTOMETRY CONTINUED

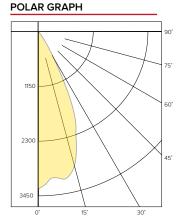
LFR-4RD-M-20L35K8WD-DM1 / LFR-4RD-T-S

LUMINAIRE DATA

Test No.	21.00577
Description	2000 lm, Wide, 3500K, 80 CRI
Delivered Lumens	1928
Watts	15.3W
Efficacy	126
Mounting	Recessed
Spacing Criterion	0.7
Beam Angle (FWHM)	49

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1922	99.7
0-60	1927	99.9
0-90	1928	100.0
0-180	1928	100.0



CANDELA DISTRIBUTION

Degree	Candela
0	3329
5	3118
15	2946
25	1625
35	117
45	4
55	1
65	1
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	698
55°	215
65°	292
75°	0
85°	0

*Candela/Square Meter

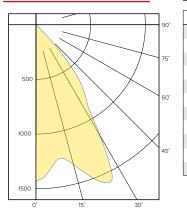
LFR-4RD-M-20L35K8XW-DM1 / LFR-4RD-T-SS LUMINAIRE DATA POL

Test No.	21.01456
Description	2000 lm, Extra Wide, 3500K, 80 CRI
Delivered Lumens	1835
Watts	15.2W
Efficacy	121
Mounting	Recessed
Spacing Criterion	1.0
Beam Angle (FWHM)	65

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1686	91.9
0-60	1826	99.5
0-90	1835	100.00
0-180	1835	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela	
0	1431	
5	1345	
15	1323	
25	1589	
35	781	
45	80	
55	16	
65	6	
75	2	
85	0	
90	0	

LUMINANCE DATA*

Vertical Angle	Average	
45°	13955	
55°	3441	
65°	1751	
75°	953	
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
				1.01						

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.

LENS OPTION / LENS FILTER ACCESSORY MULTIPLIER (Based on Clear Specular)

Option	CL (Clear Lens)	SFL4 (Soft Focus Accessory)	WAL4 (Wide Angle Accessory)
Multiplier	0.95	0.96	0.83

Multiply lumen/lens multipliers to calculate applicable combinations. Example: 30K8 with Clear Lens option (CL) = 0.96 x 0.95 = 0.91

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DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	



LFR-4RD LITEFRAME 4" ROUND DOWNLIGHT

LOCATION: DATE: PROJECT: TYPE: CATALOG #:

TEST RESULTS - 3500K

80+ CRI

85

95

3422

-0.0008

0.4089

0.3906

85

16

90+ CRI

90

99

3416

-0.0019

0.408

0.3877

93

66

Value

R,

R

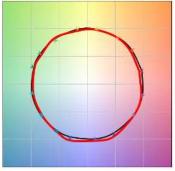
CCT (K)

Duv х

У

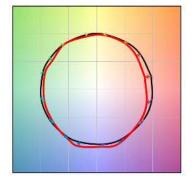
TM-30 DATA

COLOR VECTOR GRAPHIC 3500K, 90 CRI



Reference Illuminant ----- Test Source

COLOR VECTOR GRAPHIC 3500K, 80 CRI



COLOR DISTORTION GRAPHIC 3500K, 90 CRI





COLOR DISTORTION GRAPHIC 3500K, 80 CRI



- Reference Illuminant - Test Source

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.com 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.



currentlighting.com/prescolite

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