

LITEFRAME 4" ROUND DOWNLIGHT

DATE:	LOCATION:
TYPE:	PROJECT:



#### **FEATURES**

- 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











SERVICE PROGRAMS



#### **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

#### **ELECTRICAL**

- · Chip-on-board LED with 2 SDCM
- · Multiple CCTs, 80+ or 90+ CRI
- Long LED life: L90 at >50,000 hours (TM-21)

CATALOG #:

- 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"
- · 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
- · 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	4
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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Gray Shading	= Sei
Gray Sriauring	= 56



#### **ORDERING GUIDE**

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

#### **FIXTURE MODULE**

LFR-4RD-M	_						_			_							_		
Ap/Shp/Funct		Lume	n Output	ССТ		CRI		Dist	ribution		Driver	Options	Contro	ol Options	Volta	ge		Modu	le Options
LFR-4RD-M 4" Round		10L	1000	27K	2700K	8 80-	+	VNR	Very Narrow (17°/0.3 SC)		DM1	0–10V Dimming to 1%	NXE	NX Wired Dual RJ45		ndard -277V		СР	Chicago Plenum <sup>5, 6</sup>
Downlight		15L	1500	30K	3000K	9 90-	-		` ′		DM01	0–10V Dimming		SmartPORTS,				EM	Emergency Battery
Fixture Module for Direct Install		20L	2000	35K	3500K			NR	Narrow (26°/0.4 SC)		Divior	to < 1%2		without Sensor <sup>3</sup>	34 3	347V <b>4</b>			Pack with integral test switch and
(Non-IC frame		25L	2500	40K	4000K			MD	Medium		PDM	Phase (Forward/ Reverse)	NXW	NX Networked Wireless Radio					indicator light <sup>6</sup>
or IC housing available under		30L	3000	50K	5000K				(34°/0.6 SC)		1	Dimming to 1% <sup>2</sup>		Module NXRM2				EMR	Emergency Battery Pack with remote
Housing Options below)		35L	3500					WD	Wide (49°/0.7 SC)		DMX	DMX with RDM dimming		and Bluetooth Programming, without Sensor <sup>3</sup>					test switch and indicator light <sup>6</sup>
		40L	4000					xw	Extra Wide			to < 0.1% <sup>2</sup>						DTS	Device Transfer
		50L	5000¹						(65°/1.0 SC) <sup>12</sup>		DALI	DALI Dimming to 1% <sup>2</sup>	AWNR	Lutron Athena Enabled <sup>15</sup>				D13	Switch with Dimming
		60L	6000¹								EDM	Lutron Hi-Lume EcoSystem Dimming to 1% <sup>2</sup>							Bypass <sup>6,7</sup>
											DM00	Lutron Athena compatible driver <sup>15</sup>							

#### TRIM (Ships separately)

LFR-4RD-T	_	]_[							
Aperture/Shape/Function	Distribution		Refle	ector Finish/Color	Flan	ge Color Options	Lens Options	Low	er Trim Options
LFR-4RD-T 4" Round Downlight Trim Assembly	Standard NR, MD, WD, XW		s ss	Specular <sup>12</sup> Semi-Specular		andard matches reflector color	Standard no lens  CL Clear Lens (Wet listed) 9	EM	Pre-punched reflector for EM integral test switch
	VNR Very Narrow			·	WT	White Flange 8	CL Cledi Leris (Wet listed)		and indicator <sup>9</sup>
			wc	Painted White Cone and Flange	вт	Black Flange		FM	Flush Mount Mud-In Ring <sup>13</sup>

#### **HOUSING OPTIONS (Ships separately)**

Aperture/Shape/Fund	ction
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® Inverter, 125VA-250VA LiteGear 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" White14

- 50L and 60L require marked spacing. See line art for more details.
- DM01, PDM, DMX, DALI available up to 50L. EDM available 15L-40L.
- NX requires DM1 driver option.
- 347V requires DM1 driver option; available 10L-40L; not available with Controls, DTS, EM, EMR
- CP not available with PDM, DMX, or Controls.
- Module options not available in combination.
- DTS available with DM1, DM01, DALI, or DM00
- CL lens and EM trim options not available in combination.
- 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.)
- IC Housing not for use in combination with Controls or with Module Options CP, EM, EMR, DTS.
- XW distribution is not available for Specular (S) reflector finish.
- Flush Mount Flange (FM) requires FMR accessory (sold separately).
- Specify slope angle  $5^{\circ}$ – $35^{\circ}$  in  $5^{\circ}$  increments. Not available with EM or FM options.
- DM00 must be selected with AWNR Lutron Athena controls option.





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#### **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<sup>TM</sup> 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	NX Networked – Wired									
NXE	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC 1		
NX Networked	NX Networked – Wireless									
NXW <sup>2</sup>	N/A	Yes	Yes	No	No	Yes	Yes	Yes		

<sup>1</sup> NXBTC needs to be plugged into an available NX SmartPort™ on the fixture network

#### PERFORMANCE DATA TABLE

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

1000 1500 2000	Very Narrow Narrow Medium Wide Extra Wide Very Narrow Narrow Medium Wide Extra Wide Very Narrow Medium Wide Extra Wide Very Narrow Narrow Medium Wide Extra Wide Very Narrow Narrow Medium Wide Extra Wide	979 1023 997 995 947 1471 1536 1498 1494 1422 1937 1982 1933	7.6 7.6 7.6 7.6 7.6 11.8 11.8 11.8 11.8 11.8 15.2	129 135 131 131 125 125 130 127 127 121 127 130
1500	Medium Wide Extra Wide Very Narrow Narrow Medium Wide Extra Wide Very Narrow Narrow Medium Wide Usery Narrow Narrow Medium Wide	997 995 947 1471 1536 1498 1494 1422 1937 1982 1933	7.6 7.6 7.6 11.8 11.8 11.8 11.8 11.8 11.8 15.2	131 131 125 125 130 127 127 121 121
1500	Wide Extra Wide Very Narrow Narrow Medium Wide Extra Wide Very Narrow Narrow Medium Wide Very Narrow Medium Medium	995 947 1471 1536 1498 1494 1422 1937 1982	7.6 7.6 11.8 11.8 11.8 11.8 11.8 11.8 15.2	131 125 125 130 127 127 121 121
	Extra Wide Very Narrow Narrow Medium Wide Extra Wide Very Narrow Narrow Medium Wide	947 1471 1536 1498 1494 1422 1937 1982 1933	7.6 11.8 11.8 11.8 11.8 11.8 15.2 15.2	125 125 130 127 127 121 121
	Very Narrow Narrow Medium Wide Extra Wide Very Narrow Narrow Medium Wide	1471 1536 1498 1494 1422 1937 1982 1933	11.8 11.8 11.8 11.8 11.8 15.2 15.2	125 130 127 127 121 121
	Narrow Medium Wide Extra Wide Very Narrow Narrow Medium Wide	1536 1498 1494 1422 1937 1982 1933	11.8 11.8 11.8 11.8 15.2 15.3	130 127 127 121 121
	Medium Wide Extra Wide Very Narrow Narrow Medium Wide	1498 1494 1422 1937 1982 1933	11.8 11.8 11.8 15.2 15.3	127 127 121 127
	Wide Extra Wide Very Narrow Narrow Medium Wide	1494 1422 1937 1982 1933	11.8 11.8 15.2 15.3	127 121 127
2000	Extra Wide Very Narrow Narrow Medium Wide	1422 1937 1982 1933	11.8 15.2 15.3	121 127
2000	Very Narrow Narrow Medium Wide	1937 1982 1933	15.2 15.3	127
2000	Narrow Medium Wide	1982 1933	15.3	
2000	Medium Wide	1933		120
2000	Wide		45.0	130
			15.3	127
	Extra Wide	1928	15.3	126
	LANG WILL	1835	15.2	121
	Very Narrow	2465	20.9	118
	Narrow	2574	20.9	123
2500	Medium	2510	20.9	120
	Wide	2504	20.9	120
	Extra Wide	2384		114
	Very Narrow	2938		113
				118
3000				115
		2985		115
				109
				121
				127
3500		3637		124
				123
				117
				121
				126
4000				123
				123
				117
				115
				120
5000		4933		117
				117
				112
				108
				113
6000				110
				110
				105
	3000 3500 4000	Medium   Wide	Medium	Medium   2510   20.9



<sup>2</sup> Programming via App requires factory assistance



LITEFRAME 4" ROUND DOWNLIGHT

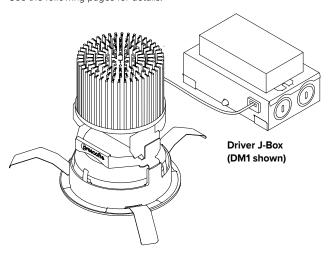
DATE:	LOCATION:
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CATALOG #:

#### **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.



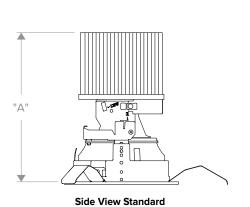
**Light Engine** with Trim assembly installed

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

#### LFR-4RD LIGHT ENGINE

OVERALL LIGHT ENGINE HEIGHT "A" *				
LUMEN	FIXTURE		BEAM DISTRIBUTION	١
PACKAGE	MODULE	VNR	NR / MD/ WD	XW
401 201	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)
	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 member; 0.5° above fixture.
   Non-IC rating requires 3" from insulation and combustible materials.



"A"

Side View CP - Chicago Plenum





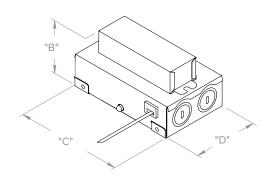
# LFR-4RD LITEFRAME 4" ROUND DOWNLIGHT

DATE:	LOCATION:
TVDE:	DDO IECT

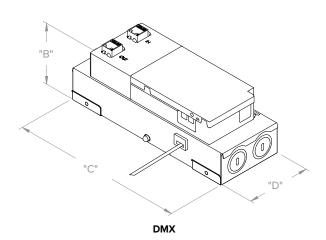
CATALOG #:

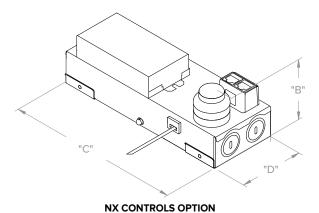
## **DIMENSIONS CONTINUED**

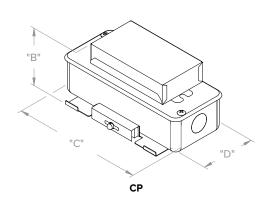
#### **DRIVER J-BOX**

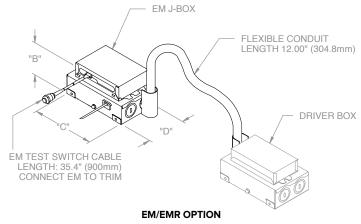


DM1 / DM01 / PDM / DALI









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

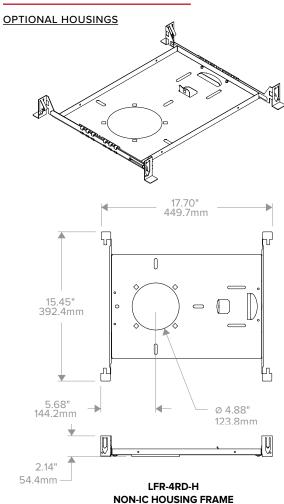
OVERALL DRIVER J-BOX DIMENSIONS (ALL LUMEN OUTPUTS)				
DRIVER/ CONTROLS OPTIONS	"B" (HEIGHT)	"C" (LENGTH)	"D" (WIDTH)	MINIMUM J-BOX PLENUM CLEARANCE
DM1 / DM01 / PDM / DALI	2.67" (67.8mm)	5.34" (135.6mm)	3.23" (82.0mm)	3.50" (88.9mm)
DMX	3.07" (78.0mm)	8.68" (220.5mm)	3.23" (82.0mm)	5.00" (127.0mm)
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)
СР	1.89" (73.4mm)	6.50" (165.1mm)	2.72" (69.1mm)	5.00" (127mm)

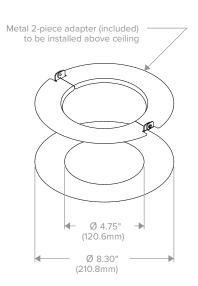




LITEFRAME 4" ROUND DOWNLIGHT

#### **DIMENSIONS CONTINUED**



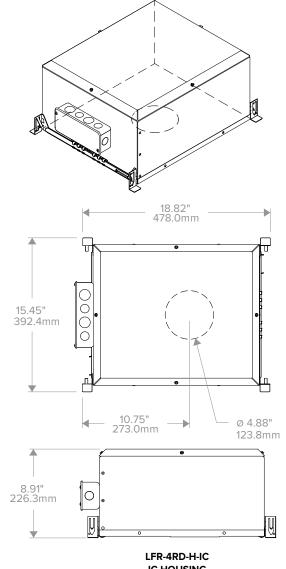


ROUND LF-MOR4-R METAL OVERSIZED RING

(See LF-MOR Installation Instruction for more details)

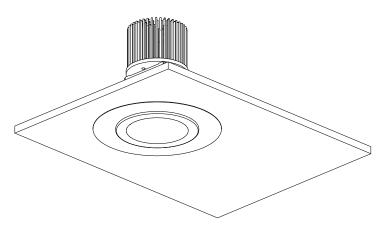


CATALOG #:



IC HOUSING

Not for use with CP Shroud





LITEFRAME 4" ROUND DOWNLIGHT

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#### **PHOTOMETRY**

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

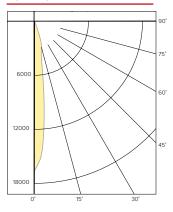
#### **LUMINAIRE DATA**

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

#### POLAR GRAPH



#### **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

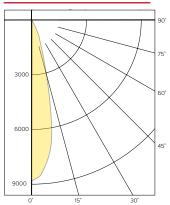
#### **LUMINAIRE DATA**

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
	0-40 0-60 0-90	0-40 1978 0-60 1981 0-90 1982

#### **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

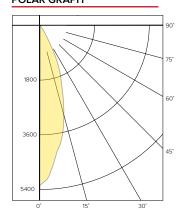
#### **LUMINAIRE DATA**

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

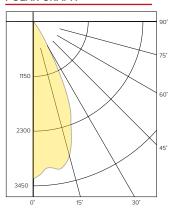
#### **LUMINAIRE DATA**

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

#### **POLAR GRAPH**



#### **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

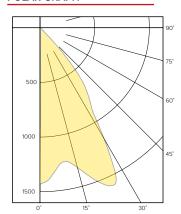
#### **LUMINAIRE DATA**

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

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** 





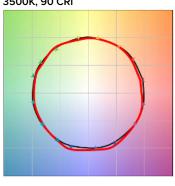


LITEFRAME 4" ROUND DOWNLIGHT

DATE:	LOCATION:
TYPE:	PROJECT:

#### TM-30 DATA

# COLOR VECTOR GRAPHIC 3500K, 90 CRI



Reference Illuminant Test Source

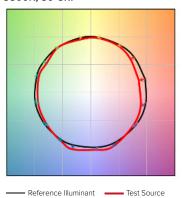
COLOR DISTOR	RTION GRAPHIC
3500K, 90 CRI	



TEST RESULTS - 3500K					
Value	80+ CRI	90+ CRI			
R <sub>f</sub>	85	90			
R <sub>g</sub>	95	99			
CCT (K)	3422	3416			
D <sub>uv</sub>	-0.0008	-0.0019			
×	0.4089	0.408			
У	0.3906	0.3877			
CIE R <sub>a</sub>	85	93			
CIE R <sub>9</sub>	16	66			

CATALOG #:

COLOR VECTOR GRAPHIC 3500K, 80 CRI



COLOR DISTORTION GRAPHIC 3500K, 80 CRI



#### **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			

<sup>\*</sup> 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.

#### <u>DMX</u>

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.

