

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	



# FEATURES

- 6" LED downlight delivering 1000–8000 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

#### ELECTRICAL

- 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-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
- 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						
Lumen Range	1000–8000					
Wattage Range	8–71					
Efficacy Range (LPW)	118–143					
Reported Life (Hours)	L90 / >50,000					
Input Current (mA)	66–592 (120V)					

\*Based on Specular, 35K, 80 CRI

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SERVICE PROGRAMS





LITEFRAME 6" ROUND DOWNLIGHT

# **ORDERING GUIDE**

# CATALOG #

# **FIXTURE MODULE**

	Г					1				٦						Г					
LFR-6RD-M	-						_	-		-						-					
Ap/Shp/Funct		Lume	n Output	CCT		CRI		Dist	ribution		Drive	Options	Contr	ol Options	Voltage		Modul	e Options			
LFR-6RD-M		10L	1000	27K	2700K	<b>8</b> 80	+	VNR	Very Narrow		DM1	0–10V Dimming	NXE	NX Wired	Standard		СР	Chicago Plenum <sup>5,</sup>			
6" Round Downlight		15L	1500	30K	3000K	<b>9</b> 90	)+		(15°/0.3 SC)		DMO	to 1%		Wireless Radio Module NXRM2	120–277V	E	EM	Emergency Battery			
Fixture Module for Direct Install		20L	2000	35K	3500K			NR	Narrow (25°/0.4 SC)		DIVIOI	0–10V Dimming to < 1% <sup>2</sup>	NXW		<b>34</b> 347V <sup>4</sup>			Pack with integral test switch and			
(Non-IC frame or IC housing available under	30 35 40 50	25L	2500	40K	4000K			MD	Medium		PDM	Phase (Forward/ Reverse)						indicator light <sup>6</sup>			
		30L	3000	50K	5000K				(38°/0.7 SC)			Dimming to 1% <sup>2</sup>					EMR	Emergency Battery			
Housing Options below)		35L	3500					WD	Wide (46°/0.7 SC)		DMX	DMX with RDM dimming to <	<	and Bluetooth Programming,				Pack with remote test switch and indicator light <sup>6</sup>			
		40L	4000				xw	/ Extra Wide			0.1% <sup>2</sup>		without Sensor <sup>3</sup>			DTS	0				
		5	ļ		50L	5000						(59°/0.9 SC) 1	2	DALI	DALI Dimming to 1% <sup>2</sup>					DIS	Device Transfer Switch with
		60L	6000¹								EDM	Lutron Hi-Lume						Dimming Bypass <sup>6,</sup>			
		70L	70001									EcoSystem Dimming to 1% <sup>2</sup>									
		80L	80001									Dimining to 1%									

## TRIM (Ships separately)

LFR-6RD-T		_		]_									
Aperture/Shape/Function			Distribution		Refl	ector Finish/Color	Flan	ge Color Options	Len	s Options	Low	er Trim Options	
LFR-6RD-T	6" Round Downlight Trim Assembly		Standard NR, MD, WD, XW		s ss	Specular <sup>12</sup> Semi-Specular	Standard matches reflector color		CI	Standard no lens CL Clear Lens (Wet listed) <sup>9</sup>		Pre-punched reflector for EM integral test switch	
			VNR Very Narrow		wc		wт	White Flange <sup>8</sup>	CL	Clear Lens (wet listed)	FM	and indicator <sup>9</sup>	
						Cone and Flange	вт	Black Flange				Flush Mount Mud-In Ring <sup>13</sup>	

#### 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 <sup>10.11</sup>						

Accessories	
SFL6	Soft Focus Lens and Clip, 6" Round
WAL6	Wide Angle 80° Lens and Clip, 6" Round
LiteGear	LiteGear® Inverter, 125VA–250VA
LPS Series	LightPower Micro-Inverter, 20VA–55VA
LF-FMR6-R	Flush Mount Mud-in Ring, 6" 13
LF-MOR6-R-WH	Metal Oversized Ring, 6" Round, White (10.12" outside diameter)
LFR-SCA6	Sloped Ceiling Adapter, 6" White <sup>14</sup>

#### Notes:

- 60L-80L require marked spacing. See line art for more details. 1
- 2 DM01, PDM, DMX, DALI available up to 50L. EDM available 15L-40L.
- 3 NX requires DM1 driver option.
- 347V requires DM1 driver option; available 10L-40L; not available with Controls, DTS, EM, EMR. 4
- 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.
- 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 types.) 10
- 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).
- Specify slope angle 5°-35° in 5° increments. Not available with EM or FM options. 14

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= Service Program

STOCK

Example: LFR-6RD-M-10L35K8-WD-DM1 / LFR-6RD-T-S / LFR-6RD-H



LITEFRAME 6" ROUND DOWNLIGHT

DATE:	LOCATION:
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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>™</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			

1 NXBTC needs to be plugged into an available NX SmartPort<sup>™</sup> 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	1014	7.3	139
		Narrow	1042	7.3	143
10L	1000	Medium	1022	7.3	140
		Wide	967	7.3	132
		Extra Wide	1010	7.3	138
		Very Narrow	1559	11.4	137
		Narrow	1602	11.4	141
15L	1500	Medium	1572	11.4	138
		Wide	1487	11.4	131
		Extra Wide	1553	11.4	136
		Very Narrow	2048	14.6	138
		Narrow	2063	14.6	141
20L	2000	Medium	2024	14.6	139
202	2000	Wide	1915	14.6	131
		Extra Wide	2000	14.6	138
		Very Narrow	2600	19.5	136
		Narrow	2717	19.5	139
25L	2500	Medium	2666	19.5	137
25L	2500	Wide	25522	19.5	129
				19.5	
		Extra Wide	2634		135
		Very Narrow	3238	24.3	133
	3000	Narrow	3327	24.3	137
30L		Medium	3264	24.3	134
		Wide	3088	24.3	127
		Extra Wide	3225	24.3	133
		Very Narrow	3802	29.1	131
	3500	Narrow	3906	29.1	134
35L		Medium	3833	29.1	132
		Wide	3626	29.1	124
		Extra Wide	3787	29.1	130
	4000	Very Narrow	4210	32.6	129
		Narrow	4325	32.6	133
40L		Medium	4244	32.6	130
		Wide	4015	32.6	123
		Extra Wide	4193	32.6	129
		Very Narrow	5242	42.3	124
		Narrow	5387	42.3	127
50L	5000	Medium	5285	42.3	125
		Wide	5000	42.3	118
		Extra Wide	5222	42.3	123
		Very Narrow	6503	50.1	130
		Narrow	6682	50.1	133
60L	6000	Medium	6556	50.1	131
002		Wide	6202	50.1	124
		Extra Wide	6478	50.1	124
		Very Narrow	7568	59.5	129
		Narrow	7776	59.5	127
70L	7000				128
70L	/000	Medium	7630	59.5	
		Wide	7218	59.5	121
		Extra Wide	7539	59.5	127
		Very Narrow	8688	70.1	124
		Narrow	8927	70.1	127
80L	8000	Medium	8759	70.1	125
		Wide	8286	70.1	118
		Extra Wide	8654	70.1	123

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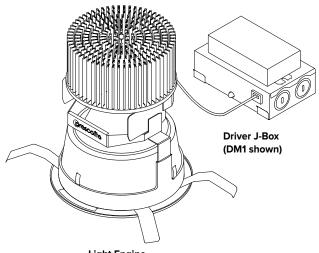


LITEFRAME 6" ROUND DOWNLIGHT

# 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.



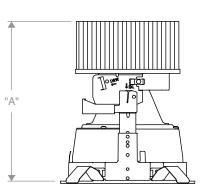
DIMENSIONAL DATA								
APERTURE		Ø5.75" (101.6mm)						
OVERALL		Ø 7.13" (181.0mm)						
FLANGE WIDTH	Standard	0.69" (17.5mm)						
FLANGE WIDTH	Flush Mount	0.20" (5.1mm)						
ELANGE TO ELANGE	Standard	Ø7.13" (136.6mm)						
FLANGE TO FLANGE	Flush Mount	Ø6.15" (156.2mm)						
CFILING CUTOUT	Standard	Ø6.50" (165.1mm)						
	Flush Mount	Ø6.63" (168.4mm)						
CEILING THICKNESS		0.50" – 2.50" (12.7 – 63.5mm)						

Light Engine with Trim assembly installed

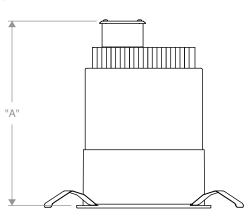
## LFR-6RD LIGHT ENGINE

	OVERALL LIGHT ENGINE HEIGHT "A" *									
LUMEN	FIXTURE	BEAM DISTRIBUTION								
PACKAGE	MODULE	VNR	NR / MD/ WD	XW						
101 – 351	STANDARD	7.95" (202.0mm)	6.71" (170.5mm)	6.23" (158.3mm)						
10L-35L	CP	11.11" (282.1mm)	9.89" (250.6mm)	9.39" (238.5mm)						
401-501	STANDARD	8.52" (216.5mm)	7.28" (185.0mm)	6.80" (172.8mm)						
40L-50L	CP	11.11" (282.1mm)	9.89" (250.6mm)	9.39" (238.5mm)						
601-801	STANDARD	9.71" (246.7mm)	8.47" (215.2mm)	7.99" (203.0mm)						
00L-80L	CP	11.11" (282.1mm)	9.89" (250.6mm)	9.39" (238.5mm)						

Note: Add ½" minimum plenum clearance above overall Light Engine Height.
 For 260L: 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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LITEFRAME 6" ROUND DOWNLIGHT

# DIMENSIONS CONTINUED

# DRIVER J-BOX



"D"

OVERALL DRIVER J-BOX DIMENSIONS (ALL LUMEN OUTPUTS)

"C"

(LENGTH)

5.34"

(135.6mm) 8.68"

(220.5mm)

8.68"

(220.5mm)

5.34"

(135.6mm)

6.50" (165.1mm)

"D"

(WIDTH)

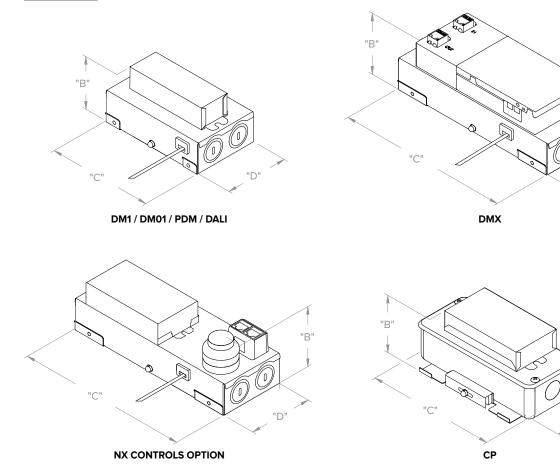
3.23" (82.0mm)

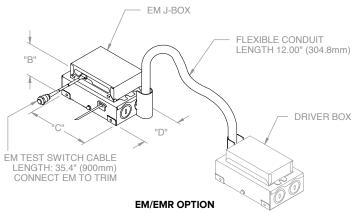
3.23" (82.0mm)

3.23" (82.0mm)

3.23" (82.0mm)

2.72" (69.1mm)





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

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DRIVER/

CONTROLS

OPTIONS

DM1/DM01/

PDM / DALI

DMX

NX

EM/EMR

CP

"B"

(HEIGHT)

2.67" (67.8mm)

3.07" (78.0mm)

3.02" (76.7mm)

2.73" (69.3mm)

1.89" (73.4mm)

MINIMUM J-BOX

PLENUM

CLEARANCE

3.00" (76.2mm)

3.50" (88.9mm)

3.75" (95.3mm)

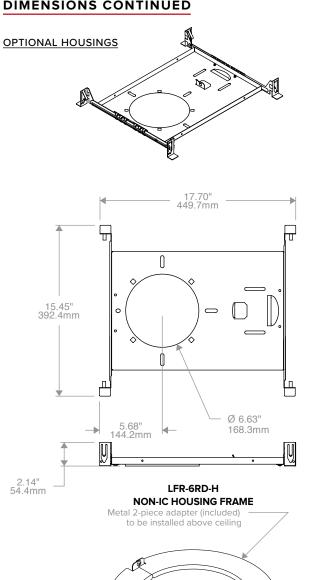
3.00" (76.2mm)

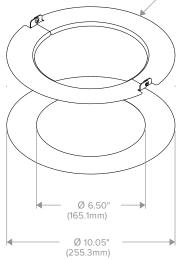
3.00" (76.2mm)



LITEFRAME 6" ROUND DOWNLIGHT

# **DIMENSIONS CONTINUED**

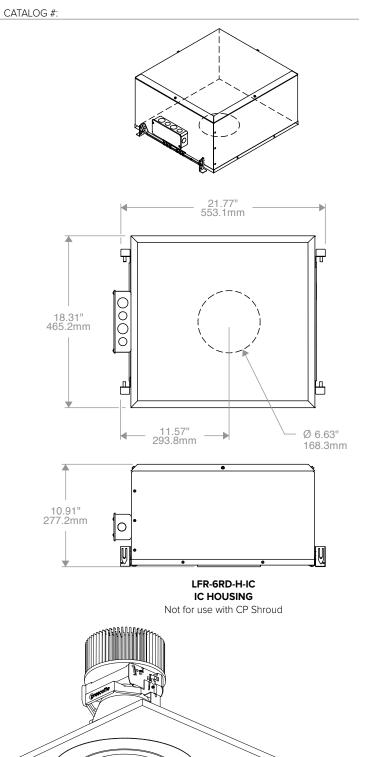




# **ROUND LF-MOR6-R** METAL OVERSIZED RING

(See LF-MOR Installation Instruction for more details)

	DATE:	LOCATION:
TTPE. PROJECT.	TYPE:	PROJECT:



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# PHOTOMETRY

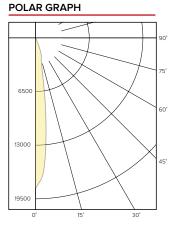
# LFR-6RD-M-20L35K8VNR-DM1 / LFR-6RD-T-VNR-S

#### LUMINAIRE DATA

Test No.	21.001645
Description	2000 lm, Very Narrow, 3500K, 80 CRI
Delivered Lumens	2008
Watts	15.0W
Efficacy	141
Mounting	Recessed
Spacing Criterion	0.3
Beam Angle (FWHM)	16

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2043	99.8
0-60	2047	99.9
0-90	2048	100.0
0–180	2048	100.0



### CANDELA DISTRIBUTION

Degree	Candela
Degree	Califuela
0	18228
5	13870
15	2639
25	121
35	8
45	3
55	1
65	1
75	0
85	0
90	0

# LUMINANCE DATA\*

Vertical Angle	Average
45°	253
55°	104
65°	141
75°	0
85°	0

\*Candela/Square Meter

# LFR-6RD-M-20L35K8NR-DM1 / LFR-6RD-T-S

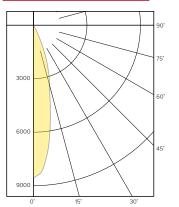
# LUMINAIRE DATA

Test No.	21.00607
Description	2000 lm, Narrow, 3500K, 80 CRI
Delivered Lumens	2063
Watts	14.6W
Efficacy	141
Mounting	Recessed
Spacing Criterion	0.42
Beam Angle (FWHM)	25

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2060	99.9
0-60	2063	100.0
0-90	2063	100.0
0–180	2063	100.0

# POLAR GRAPH



# CANDELA DISTRIBUTION

Degree	Candela
0	8568
5	7672
15	3482
25	885
35	6
45	2
55	1
65	0
75	0
85	0
90	0

## LUMINANCE DATA\*

Vertical Angle	Average
45°	169
55°	104
65°	0
75°	0
85°	0

\*Candela/Square Meter

# LFR-6RD-M-20L35K8MD-DM1 / LFR-6RD-T-S

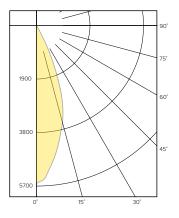
#### LUMINAIRE DATA

Test No.	21.00620
Description	2000 lm, Medium, 3500K, 80 CRI
Delivered Lumens	2024
Watts	14.6W
Efficacy	139
Mounting	Recessed
Spacing Criterion	0.6
Beam Angle (FWHM)	38

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2019	99.7
0-60	2023	99.9
0-90	2024	100.0
0–180	2024	100.0

# POLAR GRAPH



#### CANDELA DISTRIBUTION

Degree	Candela
0	5602
5	5134
15	3567
25	1232
35	8
45	3
55	1
65	1
75	0
85	0
90	0

#### LUMINANCE DATA\*

Average
253
104
141
0
0

\*Candela/Square Meter

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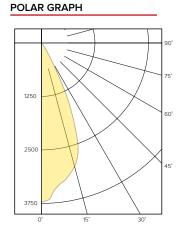
# LFR-6RD-M-20L35K8WD-DM1 / LFR-6RD-T-S

### LUMINAIRE DATA

Test No.	21.00610
Description	2000 lm, Wide, 3500K, 80 CRI
Delivered Lumens	1915
Watts	14.6W
Efficacy	131
Mounting	Recessed
Spacing Criterion	0.7
Beam Angle (FWHM)	46

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1902	99.3
0–60	1913	99.9
0-90	1915	100.00
0–180	1915	100.00



## CANDELA DISTRIBUTION

Degree	Candela
0	3721
5	3455
15	2991
25	1456
35	148
45	8
55	2
65	1
75	1
85	0
90	0

#### LUMINANCE DATA\*

Vertical Angle	Average
45°	675
55°	208
65°	141
75°	231
85°	0

\*Candela/Square Meter

# LFR-6RD-M-20L35K8XW-DM1 / LFR-6RD-T-SS

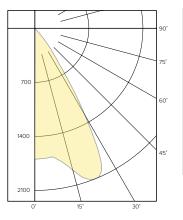
#### LUMINAIRE DATA

Test No.	21.001457
Description	2000 lm, Extra Wide, 3500K, 80 CRI
Delivered Lumens	2000
Watts	14.6W
Efficacy	138
Mounting	Recessed
Spacing Criterion	1.0
Beam Angle (FWHM)	59

# ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1948	97.4
0-60	1996	99.8
0-90	2000	100.0
0–180	2000	100.0

# POLAR GRAPH



# CANDELA DISTRIBUTION

Degree	Candela
Degree	Calificeia
0	1696
5	1689
15	1900
25	2038
35	506
45	23
55	7
65	3
75	1
85	0
90	0

#### LUMINANCE DATA\*

Vertical Angle	Average
45°	1942
55°	728
65°	424
75°	231
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)	SFL6 (Soft Focus Accessory)	WAL6 (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 #:	

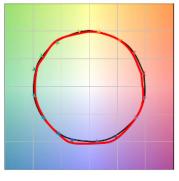


LITEFRAME 6" ROUND DOWNLIGHT

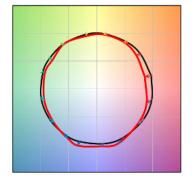
DATE:	LOCATION:	
TYPE:	PROJECT:	
CATALOG #:		
0,		

# TM-30 DATA

COLOR VECTOR GRAPHIC 3500K, 90 CRI



COLOR VECTOR GRAPHIC 3500K, 80 CRI



------ Reference Illuminant ------ Test Source

COLOR DISTORTION GRAPHIC 3500K, 90 CRI



COLOR DISTORTION GRAPHIC 3500K, 80 CRI



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

# Current 🗐

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LITEFRAME 6" ROUND DOWNLIGHT

DATE:	LOCATION:
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CATALOG #:	

# 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.