

LITEFRAME 6" ROUND DOWNLIGHT WITH COLOR TUNING

- 6" LED downlight delivering 1000-3000 lumens
- Direct Install from below ceiling for New Construction or Remodel applications
- Optional housing accessories available
- Four beam distributions
- SpectraSync<sup>™</sup> Color Tuning technology allows the flexibility to tailor CCT to aesthetic preferences
- Available in Dim to Warm (2200K–3000K) or Tunable White (2700K–5000K or 2700K–6500K), 90+ CRI
- NX Lighting Controls wired and wireless controls capability available



## CONTROLS 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

#### ELECTRICAL

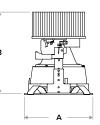
- LED array with 3 SDCM color consistency
- Dim to Warm (2200K–3000K) or Tunable White (2700K–5000K or 2700K–6500K) options available

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	



SERVICE PROGRAMS

STC/CK



Typical Dimensions and Weights									
Lumen Package	"A" Diameter Inches (mm)	"B" Height Inches (mm)	Weight Ibs (kg)						
10L - 30L	7.13 (181)	7.28 (185)	4.6 (2.1)						

See DIMENSIONS section for complete details

#### ELECTRICAL (CONTINUED)

- 90+ CRI standard
- Long LED life: L70 at >60,000 hours (TM-21)
- Universal voltage 120V–277V driver
- UL Class 2, inherent short circuit and overload protection, RoHS compliant
- Flicker free 0–10V dimming to 5%
- NX Lighting Controls provides options for standalone and networked functionality with wired or wireless connectivity for NX system deployments
- 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.)

#### CERTIFICATIONS

- cCSAus certified to UL 1598
- Suitable for wet locations, covered ceiling when used with CL lens trim; all other configurations, suitable for damp locations

#### **CERTIFICATIONS (CONTINUED)**

- IP65 rated (room side) when properly installed per installation instructions with CL lens option
- EM/EMR: Certified under UL 924 standard for emergency lighting and power equipment
- EM/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

#### WARRANTY

5 year warranty

KEY DATA								
Lumen Range	1000–3000							
Wattage Range	11.9–42.0							
Efficacy Range (LPW)	71–93							
Reported Life (Hours)	L70 / >60,000							
Input Current (mA)	99–350 (120V)							
*5								

\*Based on Specular, 30K, 90 CR

## Current 🗐

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WITH COLOR TUNING

## ORDERING GUIDE

DATE:	LOCATION:
TYPE:	PROJECT:

Gray Shading = Service Program

Example: LFR-6RD-M-10L2230TD9-WD-DMTW / LFR-6RD-T-S / LFR-6RD-H

CATALOG #

#### FIXTURE MODULE

LFR-6RD-M	-					-			-					-	
Ap/Shp/Funct	Lum	en Output	ССТ		CRI		Dist	ribution		Driver	Options	Control Options	Voltage	Mo	odule Options
LFR-GRD-M 6" Round Downlight Fixture Module for Direct Install (Non-IC frame or IC housing available under Housing Options below)	10L 15L 20L 25L 30L	1000 1500 2000 2500 3000	2230TD 2750T 2765T	2200K–3000K SpectraSync <sup>™</sup> Dim to Warm 2700K–5000K SpectraSync <sup>™</sup> Tunable White 2700K–6500K SpectraSync <sup>™</sup> Tunable White	9 90+		NR MD WD	Narrow (25°/0.4 SC) Medium (38°/0.7 SC) Wide (46°/0.7 SC) Extra Wide (59°/0.9 SC) <sup>9</sup>			<ul> <li>SpectraSync<sup>™</sup></li> <li>Dim to Warm,</li> <li>0–10V</li> <li>Dimming to</li> <li>5% <sup>1</sup></li> <li>SpectraSync<sup>™</sup></li> <li>Tunable White,</li> <li>0–10V</li> <li>Dimming to</li> <li>5% <sup>2</sup></li> </ul>	NX Lighting Controls Networked Wireless NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor Networked Wired Dual RJ45 SmartPORTS, without Sensor	Standard 120–277V	CP EN	<ul> <li>Chicago Plenum<sup>3.4</sup></li> <li>6W Emergency Battery Pack (CEC Title 20 Compliant) with integral test switch and indicator light<sup>4</sup></li> <li>6W Emergency Battery Pack (CEC Title 20 Compliant) with remote test switch and indicator light<sup>4</sup></li> </ul>

CATALOG #:

#### **TRIM (Ships separately)**

LFR-6RD-T		_								
Aperture/Shape/Function			Refle	ector Finish/Color	Flang	e Color Options	Len	s Options	Lowe	er Trim Options
LFR-6RD-T	6" Round Downlight Trim Assembly		s	Specular <sup>9</sup>		Standard matches reflector color		Standard no lens		Pre-punched reflector for EM integral test switch
	initi'i Sectiony		SS	Semi-Specular			CL	Clear Lens (Wet listed) <sup>6</sup>		and indicator <sup>6</sup>
			wc	Painted White Cone and Flange	WT BT	White Flange <sup>5</sup> Black Flange			FM	Flush Mount Mud-In Ring <sup>10</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 7.8						

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" <sup>10</sup>
LF-MOR6-R-WH	Metal Oversized Ring, 6" Round, White (10.12" outside diameter)
LFR-SCA6	Sloped Ceiling Adapter, 6" White <sup>11</sup>

#### Notes:

- 1 Must select 2230TD with DMTW driver.
- 2 Must select either 2750T or 2765T with DMT driver.
- 3 CP not available with Controls.
- 4 Module options not available in combination.
- 5 WT not needed for WC.
- 6 CL lens and EM trim options not available in combination.
- 7 IC available up to 251; 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, EM, EMR, DTS.
- 9 XW distribution is not available for Specular (S) reflector finish.
- 10 Flush Mount Flange (FM) requires FMR accessory (sold separately).
- 11 Specify slope angle 5°–35° in 5° increments. Not available with EM or FM options.

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DATE:	LOCATION:
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CATALOG #:	

## NX LIGHTING CONTROLS

					Contro	l Optio						
	Co	ntrol Option Ordering Logic & Description	Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Control	Option Components
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	$\checkmark$	$\checkmark$	$\checkmark$	١	-	$\checkmark$	$\checkmark$	$\checkmark$	0	NXRM2-H
NX Wired	NXE	NXE NX Wired Dual RJ45 SmartPORTS, without Sensor		$\checkmark$	$\checkmark$	-	-	$\checkmark$	$\checkmark$	$\sqrt{1}$	-	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.





Apple iOS





WITH COLOR TUNING

## SPECTRASYNC<sup>™</sup> COLOR TUNING TECHNOLOGY

Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync<sup>™</sup> Color Tuning Technologies.

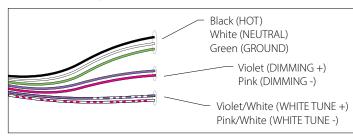
LOCATION: DATE: PROJECT: TYPE:

SpectraSync

	SPECTRASYNC COLOR TUNING TECHNOLOGY									
Mode	Kelvin Range	Description								
Dim to Warm	2200K-3000K	Mimics the familiar warming effect that occurs with traditional incandescent sources as they are dimmed								
Tunable White	2700K-5000K 2700K-6500K	Offers users the ability to tailor CCT to their personal preference, enhancing task visibility, material and colors or the aesthetics of the space								
Scheduled White	2700K-5000K 2700K-6500K	Mimics the rhythm of natural light or follows an alternative user-defined schedule throughout the day, enhancing an occupant's mood and well-being								

#### SpectraSync Tunable White

Available in two options: 2750T (2700K-5000K) or 2765T (2700K-6500K). Requires two 0–10V controllers, one for intensity and one for CCT. Minimum 5% dimming.

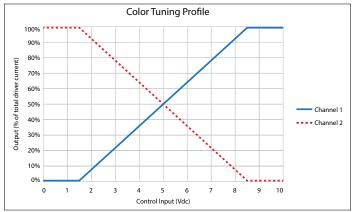


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and pink/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

#### Controller Manufacturer Data

SpectraSync Tunable White was designed to be used with sinking style dimmers (provided by others) and is compatible with:

- Current: NX Lighting Controls Room Controllers (NXRC) and In-fixture Controllers (NXFM)
- Lutron: DVTV, DVSTV, and NFTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers



To enable scheduling and for use with NX wall control preset stations please refer to SpectraSync technical sheet.

### PERFORMANCE DATA TABLE

Performance data provided below is for 2230TD, 90 CRI with Specular Clear reflector finish/color

Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
		Narrow	1101	11.9	93
10L	1000	Medium	1074	11.9	90
IOL	1000	Wide	1010	11.9	85
		Extra Wide	1063	11.9	89
		Narrow	1347	18.3	74
15L	1500	Medium	1313	18.3	72
15L	1500	Wide	1543	18.3	84
		Extra Wide	1300	18.3	71
		Narrow	2235	25.3	88
201	2000	Medium	2179	25.2	86
20L	2000	Wide	2050	25.2	81
		Extra Wide	2158	25.2	86
	2500	Narrow	2792	33.0	85
251		Medium	2722	33.0	82
25L		Wide	2561	33.0	78
		Extra Wide	2696	33.0	82
		Narrow	3355	42.0	80
30L 3000		Medium	3271	42.0	78
	3000	Wide	3077	42.0	73
		Extra Wide	3240	42.0	77



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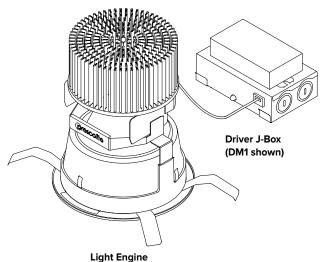


WITH COLOR TUNING

## 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.



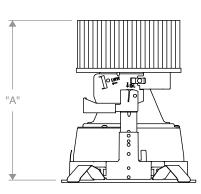
DIMENSIONAL DATA				
APERTURE		ø5.75" (101.6mm)		
OVERALL		Ø 7.13" (181.0mm)		
FLANGE WIDTH	Standard	0.69" (17.5mm)		
	Flush Mount	0.20" (5.1mm)		
FLANGE TO FLANGE	Standard	Ø7.13" (136.6mm)		
FLANGE TO FLANGE	Flush Mount	Ø6.15" (156.2mm)		
CEILING CUTOUT	Standard	Ø6.50" (165.1mm)		
CEILING CUTOUT	Flush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

with Trim assembly installed

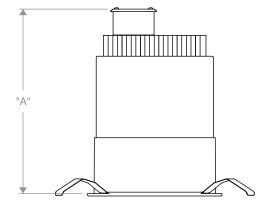
#### LFR-6RD LIGHT ENGINE

OVERALL LIGHT ENGINE HEIGHT "A" *				
LUMEN	FIXTURE	BEAM DIST	TRIBUTION	
PACKAGE	MODULE	NR / MD/ WD	XW	
101 201	STANDARD	7.28" (185.0mm)	6.80" (172.8mm)	
10L-30L	CP	9.89" (250.6mm)	9.39" (238.5mm)	

 $^*$  Note: Add %" minimum plenum clearance above overall Light Engine Height. \*\* Non-IC rating requires 3" from insulation and combustible materials.



Side View Standard



Side View CP – Chicago Plenum

## Current

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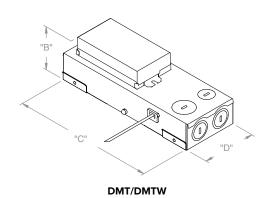
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CATALOG #	



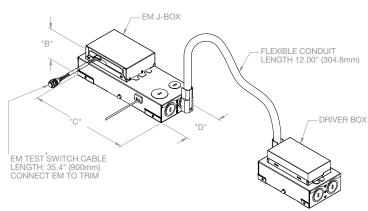
WITH COLOR TUNING

## DIMENSIONS CONTINUED

#### DRIVER J-BOX



NX CONTROLS OPTION



OVER	OVERALL DRIVER J-BOX DIMENSIONS (ALL LUMEN OUTPUTS)				
DRIVER/ CONTROLS OPTIONS	"B" (HEIGHT)	"C" (LENGTH)	"D" (WIDTH)	MINIMUM J-BOX PLENUM CLEARANCE	
DMT/DMTW	2.67" (67.8mm)	8.68" (220.5mm)	3.23" (82.0mm)	3.00" (76.2mm)	
NX	3.02" (76.7mm)	8.68" (220.5mm)	3.23" (82.0mm)	3.75" (95.3mm)	
EM	2.73" (69.3mm)	8.68" (220.5mm)	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)	

### DMT/DMTW EM/EMR OPTION

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

## Current 🗐

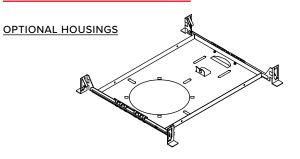
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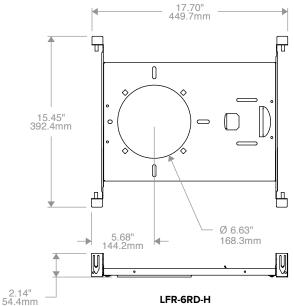
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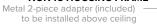
WITH COLOR TUNING

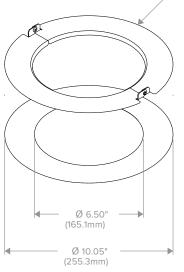
## **DIMENSIONS CONTINUED**





LFR-6RD-H NON-IC HOUSING FRAME



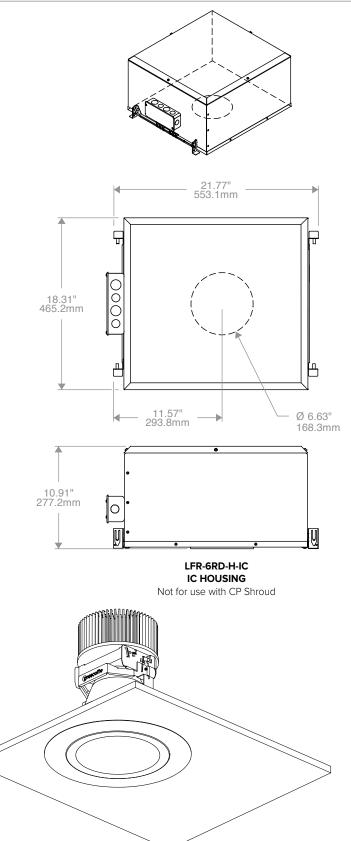


**ROUND LF-MOR6-R** METAL OVERSIZED RING

(See LF-MOR Installation Instruction for more details)

DATE:	LOCATION:	-
TYPE:	PROJECT:	-

CATALOG #:





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WITH COLOR TUNING

## PHOTOMETRY

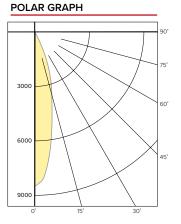
### LFR-6RD-M-20L2230TD9NR-DMTW / LFR-6RD-T-S

#### LUMINAIRE DATA

Test No.	22.00488
Description	2000 lm, Narrow, 3000K, 90 CRI
Delivered Lumens	2235
Watts	25.3W
Efficacy	88
Mounting	Recessed
Spacing Criterion	0.4
Beam Angle (FWHM)	26

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2219	99.3
0-60	2234	99.9
0-90	2235	100.0
0–180	2235	100.0



DATE: TYPE:

CATALOG #:

#### CANDELA DISTRIBUTION

LOCATION:

PROJECT:

Degree	Candela
0	8493
5	7524
15	3614
25	1092
35	65
45	16
55	1
65	1
75	0
85	0
90	0

#### LUMINANCE DATA\*

Vertical Angle	Average
45°	1351
55°	104
65°	141
75°	0
85°	0

\*Candela/Square Meter

## LFR-6RD-M-20L2230TD9MD-DMTW / LFR-6RD-T-S

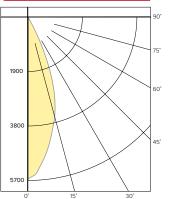
#### LUMINAIRE DATA

Test No.	22.00489
Description	2000 lm, Medium, 3000K, 90 CRI
Delivered Lumens	2179
Watts	25.2W
Efficacy	86
Mounting	Recessed
Spacing Criterion	0.6
Beam Angle (FWHM)	38

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2158	99.0
0-60	2177	99.9
0-90	2179	100.0
0–180	2179	100.0

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

Degree	Candela
0	5647
5	5189
15	3627
25	1369
35	81
45	21
55	2
65	1
75	1
85	0
90	0
-	

#### LUMINANCE DATA\*

Vertical Angle	Average
45°	1773
55°	208
65°	141
75°	231
85°	0

\*Candela/Square Meter

## LFR-6RD-M-20L2230TD9WD-DMTW / LFR-6RD-T-S

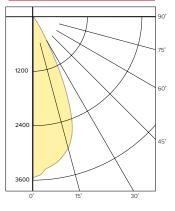
#### LUMINAIRE DATA

Test No.	22.00490
Description	2000 lm, Wide, 3000K, 90 CRI
Delivered Lumens	2050
Watts	25.2W
Efficacy	81
Mounting	Recessed
Spacing Criterion	0.7
Beam Angle (FWHM)	48

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2012	98.1
0-60	2048	99.9
0–90	2050	100.0
0–180	2050	100.0

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

Desire	Caradala
Degree	Candela
0	3554
5	3370
15	3008
25	1577
35	224
45	37
55	3
65	1
75	1
85	0
90	0

#### LUMINANCE DATA\*

Vertical Angle	Average
45°	3123
55°	312
65°	141
75°	231
85°	0

\*Candela/Square Meter

## **Current**

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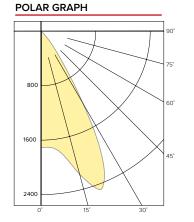
## PHOTOMETRY CONTINUED

#### LFR-6RD-M-20L2230TD9XW-DMTW / LFR-6RD-T-S

#### LUMINAIRE DATA

Extra Wide, 3000K,
1
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Zone	Lumens	% Luminaire
0-40	2094	97.0
0-60	2157	99.9
0-90	2158	100.00
0-180	2158	100.00



## CANDELA DISTRIBUTION

Degree	Candela
0	1710
5	1719
15	2172
25	2179
35	516
45	57
55	2
65	1
75	1
85	0
90	0

#### LUMINANCE DATA\*

Vertical Angle	Average
45°	4812
55°	208
65°	141
75°	231
85°	0

\*Candela/Square Meter

#### LENS OPTION MULTIPLIER (Based on Clear Specular)

Option	CL (Clear Lens)
Multiplier	0.95

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

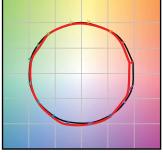


WITH COLOR TUNING

## TM-30 DATA

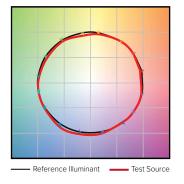
#### SPECTRASYNC<sup>™</sup> TUNABLE WHITE (2765T)

COLOR VECTOR GRAPHIC 2700K, 90+ CRI

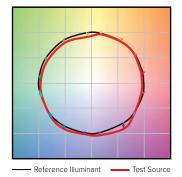


- Reference Illuminant -Test Source

COLOR VECTOR GRAPHIC 4600K, 90+ CRI



COLOR VECTOR GRAPHIC 6500K, 90+ CRI



COLOR DISTORTION GRAPHIC 2700K, 90+ CRI



COLOR DISTORTION GRAPHIC 4600K, 90+ CRI



COLOR DISTORTION GRAPHIC 6500K, 90+ CRI



DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

TEST RESULTS - TUNABLE WHITE @ 1500 LUMENS (NOMINAL)			
Value	2700K	4600K	6500K
Luminous Flux (Im)	1469	1779	1692
Wattage (W)	20.5	20.1	20.6
Efficacy (Im/W)	71.7	88.5	82.1
R,	90	89	87
R	97	99	97
CCT (K)	2799	4177	7184
D <sub>uv</sub>	0.0032	0.0088	0.0024
X	0.4468	0.3680	0.3047
у	0.3992	0.3515	0.3109
CIE R <sub>a</sub>	90	94	94
CIE R	46.7	85.4	87.7

Current

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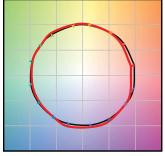


WITH COLOR TUNING

## TM-30 DATA CONTINUED

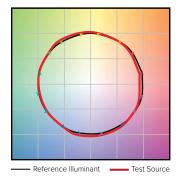
### SPECTRASYNC<sup>™</sup> DIM TO WARM (2230TD)

COLOR VECTOR GRAPHIC 3000K, 90+ CRI @ 100%

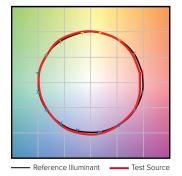


- Reference Illuminant 🛛 -Test Source

## COLOR VECTOR GRAPHIC 2600K, 90 CRI @ 50% DIM



## COLOR VECTOR GRAPHIC 2200K, 90 CRI @ 5% DIM



COLOR DISTORTION GRAPHIC 3000K, 90+ CRI @ 100%



## COLOR DISTORTION GRAPHIC 2600K, 90 CRI @ 50% DIM



COLOR DISTORTION GRAPHIC 2200K, 90 CRI @ 5% DIM



DATE:	LOCATION:	
TYPE:	PROJECT:	
CATALOG #:		

TEST RESULTS - DIM TO WARM @ 3 DIMMING LEVELS			
Value	100%	50% Dim	5% Dim
Luminous Flux (Im)	1470	833	50
Wattage (W)	20.3	20.1	20.6
Efficacy (Im/W)	71.7	88.5	82.1
R,	90	89	87
R	97	99	97
CCT (K)	2799	4177	7184
D <sub>uv</sub>	0.0032	0.0088	0.0024
X	0.4468	0.3680	0.3047
у	0.3992	0.3515	0.3109
CIE R	90	94	94
CIE R	46.7	85.4	87.7

Current

#### currentlighting.com/prescolite



LITEFRAME 6" ROUND DOWNLIGHT WITH COLOR TUNING

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

## ELECTRICAL DATA

DRIVER DATA		
Input Voltage	120–277 V	
Input Frequency	50/60 Hz	
Power Factor	≥0.90	
THD	<20%	
EMI Filtering (FCC 47 CFR Part 15)	Class A	

#### ADDITIONAL INFORMATION

#### **Dimming Compatibility**

For more details and recommended dimmer list, see Dimming Compatibility Information on currentlighting.com/prescolite.

#### **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, 6W x 120 LPW = 720 lumens in emergency mode.