

LFR-4RW SpectraSync

LITEFRAME 4" ROUND LENSED WALL WASH WITH COLOR TUNING

FEATURES

- 4" LED lensed wall wash delivering 1000-2000 lumens
- Direct Install from below ceiling for New Construction or Remodel applications
- · Optional housing accessories available
- · Provides smooth, uniform illumination
- SpectraSync[™] 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







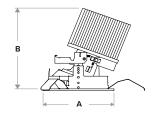
DATE: LOCATION: TYPE: PROJECT: CATALOG #:





SERVICE PROGRAMS

STCCK



Typical Dimensions and Weights									
Lumen Package	"A" Diameter Inches (mm)	"B" Height Inches (mm)	Weight lbs (kg)						
10L - 15L	5.37 (136)	4.89 (124)	3.9 (1.8)						
20L	5.37 (136)	6.37 (162)	4.1 (1.9)						

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

- Tempered Glass Lens Standard
- Provides uniform light distribution down the wall
- High purity spun aluminum reflector, self-flanged
- Specular or Semi-Specular anodized or White painted cone reflector finish/colors
- Painted flange options in White or Black

ELECTRICAL

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

INSTALLATION

- Accommodates ceiling thickness from 0.50" to 1.25"
- Fixture Module including driver fully accessible from above or below the ceiling

CERTIFICATIONS

- cCSAus certified to UL 1598
- Suitable for wet locations, covered ceiling
- IP65 rated (room side) when properly installed per installation instructions
- 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

WARRANTY

• 5 year warranty

KEY DATA						
Lumen Range	1000–2000					
Wattage Range	12.5–32.2					
Efficacy Range (LPW)	52–70					
Reported Life (Hours)	L70 / >60,000					
Input Current (mA)	104-268 (120V)					

*Based on Specular, 30K, 90 CRI





WITH COLOR TUNING

DATE:	LOCATION:
	1
TYPE:	PROJECT:
CATALOG #:	

Gray Shading = Service Program STCK

AIALOG	#:	

ORDERING GUIDE

Example: LFR-4RW-M-10L2230TD9-LWW-DMTW / LFR-4RW-T-LWW-S / LFR-4RD-H

CATALOG #

FIXTURE MODULE

LFR-4RW-M	_[_			_				_		
Ap/Shp/Funct		Lume	n Output	сст		CRI		Distrib	ution		Driver	Options	Control Options	Voltage	Mod	dule Options
LFR-4RW-M 4" Round Lensed Wall Wash Fixture Module for Direct Install (Non-IC frame or IC housing available under Housing Options below)I		10L 15L 20L	1000 1500 2000	2230TD 2750T 2765T	2200K-3000K SpectraSync™ Dim to Warm 2700K-5000K SpectraSync™ Tunable White 2700K-6500K SpectraSync™ Tunable White	9 90+		LWW L	ensed Wall Wash		DMT	SpectraSync [™] Dim to Warm, 0–10V Dimming to 5% ¹ SpectraSync [™] Tunable White, 0–10V Dimming to 5% ²	NX Lighting Controls Networked Wireless NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor Networked Wired NXE NX Wired Dual RJ45 SmartPORTS, without Sensor	Standard 120–277V	CP EMR	Chicago Plenum ³ . 6 6W Emergency Battery Pack (CEC Title 20 Compliant with remote test switch and indicator light ⁴ Device Transfer Switch with Dimming Bypass ⁴

TRIM (Ships separately)

LFR-4RW-T		_			_						
Aperture/Shape/Function			Distrib	ution		Refl	ector Finish/Color	Flan	ge Color Options	Low	er Trim Options
LFR-4RW-T	4" Round Lensed Wall Wash Trim Assembly		LWW	Lensed Wall Wash		s	Specular		Standard matches reflector color		Flush Mount Mud-In Ring
	Wasii iiiii Assembiy			VVdSII		SS	Semi-Specular				
						wc	Painted White	WT	White Flange ⁵		
							Cone and Flange	BT	Black Flange		

HOUSING OPTIONS (Ships separately)

Ape	Aperture/Shape/Function								
	LFR-4RD-H	4" Housing Frame, New Construction, Non-IC							
	LER-4RD-H-IC	4" Housing Enclosure New Construction IC Rated 6,7							

Accessories	
LiteGear	LiteGear® Inverter, 125VA-250VA
LPS Series	LightPower Micro-Inverter, 20VA-55VA
LF-FMR4-R	Flush Mount Mud-in Ring, 4" 8
LF-MOR4-R-WH	Metal Oversized Ring, 4" Round, White (8.3" outside diameter)

- Must select 2230TD with DMTW driver.
- 2 Must select either 2750T or 2765T with DMT driver.
- CP not available with Controls.
- Module options not available in combination.
- 5 WT not needed for WC.
- 6 IC available up to 10L
- IC Housing not for use in combination with Controls or with Module Options CP, EMR, DTS.
- Flush Mount Flange (FM) requires FMR accessory (sold separately).





WITH COLOR TUNING

LOCATION: DATE: TYPE: PROJECT: CATALOG #:

NX LIGHTING CONTROLS

					Contro	l Optio	n Func					
	Control Option Ordering Logic & Description			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	✓	✓	✓	_	-	✓	✓	\	8	NXRM2-H
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor	✓	√	√	-	-	√	✓	√ ₁	20	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



LITEFRAME 4" ROUND LENSED WALL WASH WITH COLOR TUNING

SPECTRASYNC™	COLOR TUN	NING TECHNOLO	ΞY

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

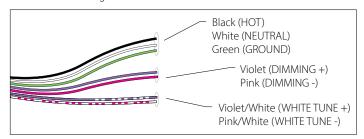


SpectraSync Market Spectra Sync Market Spectra Sync Market Market Spectra Sync Market Market Spectra Sync Market Market Market Spectra Sync Market M

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.

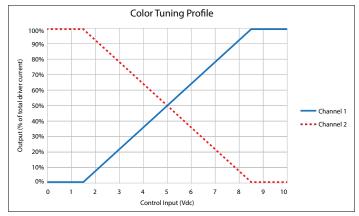


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and pink/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

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
10L	1000		879	12.5	70
15L	1500	Lensed WW	1334	20.5	65
20L	2000		1675	32.2	52



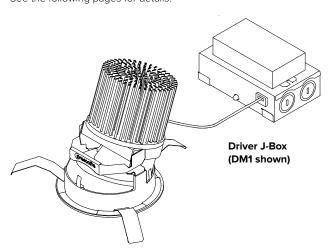


WITH COLOR TUNING

DIMENSIONS

LFR-4RW-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

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

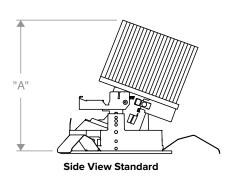
DIMENSIONAL DATA				
APERTURE		Ø4.00" (101.6mm)		
OVERALL		Ø5.37" (136.5mm)		
ELANCE MIDTH	Standard	0.69" (17.5mm)		
FLANGE WIDTH	Flush Mount	0.19" (4.8mm)		
FLANGE TO FLANGE	Standard	Ø5.37" (136.6mm)		
FLANGE TO FLANGE	Flush Mount	Ø4.38" (111.2mm)		
CEILING CUTOUT	Standard	Ø4.75" (120.7mm)		
CEILING CUTOUT	Flush Mount	Ø4.88" (123.9mm)		
CEILING THICKNESS		0.50" – 1.25" (12.7 – 31.75mm)		

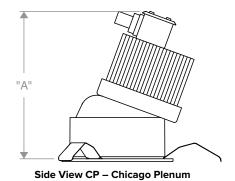
LFR-4RW LIGHT ENGINE

OVERALL LIGHT ENGINE HEIGHT "A" *				
LUMEN	FIXTURE	BEAM DISTRIBUTION		
PACKAGE	MODULE	LWW		
401.451	STANDARD	4.89" (124.3mm)		
10L-15L	СР	7.36" (187.0mm)		
201	STANDARD	6.37" (161.8mm)		
ZUL	СР	7.36" (187.0mm)		

^{*} Note: Add $\frac{1}{2}$ " minimum plenum clearance above overall Light Engine Height. ** Non-IC rating requires 3" from insulation and combustible materials.







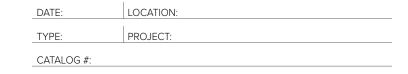
Current @

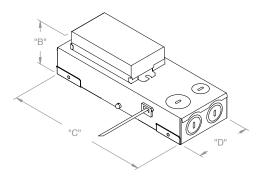


WITH COLOR TUNING

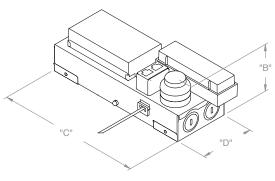
DIMENSIONS CONTINUED

DRIVER J-BOX

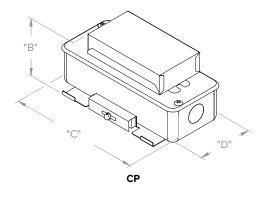








NX CONTROLS OPTION



TEST SWITCH CABLE IGTH: 35.4" (900mm) NNECT EM TO TRIM
DMT/DMTW EM/EMR OPTION

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

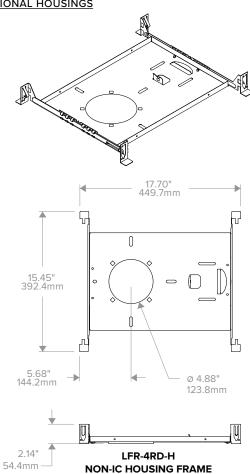
OVERALL DRIVER J-BOX DIMENSIONS (ALL LUMEN OUTPUTS)						
DRIVER/ CONTROLS OPTIONS	"B" (HEIGHT)	"C" (LENGTH)	"D" (WIDTH)	MINIMUM J-BOX PLENUM CLEARANCE		
DMT/DMTW	2.67" (67.8mm)	8.68" (220.5mm)	3.23" (82.0mm)	4.00" (101.6mm)		
NX	3.02" (76.7mm)	8.68" (220.5mm)	3.23" (82.0mm)	6.00" (152.4mm)		
EM	2.73" (69.3mm)	8.68" (220.5mm)	3.23" (82.0mm)	4.00" (101.6mm)		
СР	1.89" (73.4mm)	6.50" (165.1mm)	2.72" (69.1mm)	5.00" (127.0mm)		

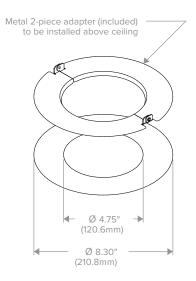


WITH COLOR TUNING

DIMENSIONS CONTINUED

OPTIONAL HOUSINGS



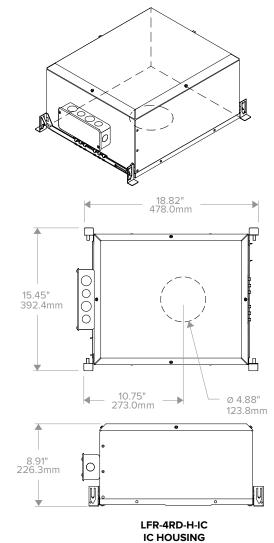


ROUND LF-MOR4-R METAL OVERSIZED RING

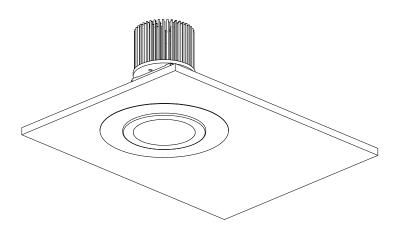
(See LF-MOR Installation Instruction for more details)



CATALOG #:



Not for use with CP Shroud





LITEFRAME 4" ROUND LENSED WALL WASH WITH COLOR TUNING

Р	н	O	T	10	И	E	т	B,	Υ
		$\mathbf{\sim}$		- .	V I	_		••	

LFR-4RW-M-15L2230TD9LWW-DMTW / LFR-4RW-T-LWW-S

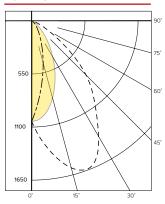
LUMINAIRE DATA

Test No.	22.00519
Description	1500 lm, Lensed Wall Wash, 3000K, 90 CRI
Delivered Lumens	1334
Watts	20.5W
Efficacy	65
Mounting	Recessed

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	982	73.7
0-60	1300	97.5
0-90	1334	100.0
0-180	1334	100.0

POLAR GRAPH



DATE:

TYPE:

CATALOG #:

CANDELA DISTRIBUTION

LOCATION:

PROJECT:

Degree	Candela	
0	1043	
5	1250	
15	1577	
25	1577	
35	1168	
45	798	
55	343	
65	91	
75	11	
85	0	
90	0	

LUMINANCE DATA*

Vertical Angle	Average	
45°	139200	
55°	73761	
65°	26559	
75°	5242	
85°	0	

*Candela/Square Meter

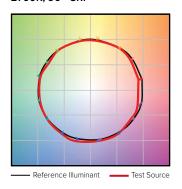


WITH COLOR TUNING

TM-30 DATA

SPECTRASYNC™ TUNABLE WHITE (2765T)

COLOR VECTOR GRAPHIC 2700K, 90+ CRI



COLOR DISTORTION GRAPHIC 2700K, 90+ CRI



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 _a	97	99	97		
CCT (K)	2799	4177	7184		
D	0.0032	0.0088	0.0024		
X	0.4468	0.3680	0.3047		
у	0.3992	0.3515	0.3109		
CIE R _a	90	94	94		
CIE R	46.7	85.4	87.7		

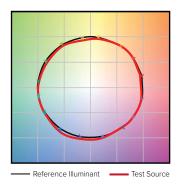
LOCATION:

PROJECT:

DATE: TYPE:

CATALOG #:

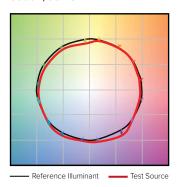
COLOR VECTOR GRAPHIC 4600K, 90+ CRI



COLOR DISTORTION GRAPHIC 4600K, 90+ CRI



COLOR VECTOR GRAPHIC 6500K, 90+ CRI



COLOR DISTORTION GRAPHIC 6500K, 90+ CRI



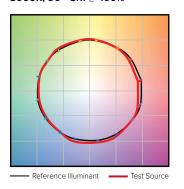


WITH COLOR TUNING

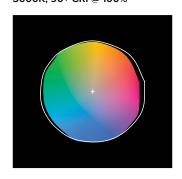
TM-30 DATA CONTINUED

SPECTRASYNC™ DIM TO WARM (2230TD)

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



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



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 _{uv}	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	

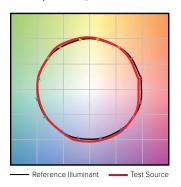
LOCATION:

PROJECT:

DATE: TYPE:

CATALOG #:

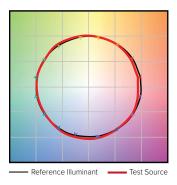
COLOR VECTOR GRAPHIC 2600K, 90 CRI @ 50% DIM



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



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



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





LITEFRAME 4" ROUND LENSED WALL WASH WITH COLOR TUNING

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.

DATE: TYPE:

CATALOG #:

LOCATION:

PROJECT:

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.

