prescolite

LFCR-4SD-R

LITEFRAME COMMERCIAL 4" SQUARE
REMODEL DOWNLIGHT

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

LITEFRAME Commercial



FEATURES

- 4" LED downlight delivering 500–5000 lumens
- Narrow, Medium or Wide Beam Distribution
- 2700K–5000K, 90+ CRI (2 SDCM)
- Dimming protocols include 0–10V, Phase, DMX, DALI
- NX Lighting Controls wired and wireless controls capability available
- TriGain® technology is standard and delivers 90 CRI (50+ R9) color rendition without efficacy compromise

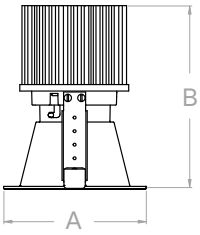
C US WET LOCATION TriGain® technology

SERVICE PROGRAMS

tradeSELECT QS10

CONTROLS TECHNOLOGY

NX WIRELESS NX WIRED



Typical Dimensions and Weights				
Lumen Package	Aperture Inches (mm)	"A" Width Inches (mm)	"B" Height Inches (mm)	Weight Lbs (kg)
05L–15L	4.1 (104.1)	5.25 (133.4)	3.9 (99.1)	4.0 (1.8)
20L–30L			5.2 (132.1)	4.2 (1.9)
35L–50L			6.8 (172.7)	4.4 (2.0)

See DIMENSIONS section for complete details

SPECIFICATIONS

CONSTRUCTION

- Fixture Module designed for Non-IC, direct install construction
- Die cast aluminum fixture module support ring with spring steel clips for secure mounting to ceiling
- Junction box allows for both installation and service from below ceiling
- Light engine connections use plenum rated (CMP) cable
- Quick disconnects standard for ease of installation

OPTICS

- High purity spun aluminum reflector, self-flanged
- 55° visual cutoff to source image and 55° cutoff to source
- Available in white and black painted cone reflectors
- Painted flange options in white or black

ELECTRICAL

- Chip-on-board LED with 2 SDCM
- TriGain® is a patented narrow-band potassium fluorosilicate (PFS) phosphor technology which provides improved color rendition without compromise to LED efficacy
- 2700K, 3000K, 3500K, 4000K, 5000K CCTs, 90+ CRI

ELECTRICAL (CONTINUED)

- Long LED life: L80 / >66,000 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) DMX, DALI, and Lutron options
- 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 3.00"
- Fixture module including driver fully accessible from above or below the ceiling

CERTIFICATIONS

- cCSAus certified to UL 1598
- For 45L–50L: Marked spacing required (24" fixture center to center; 24" fixture center to building member; 0.5" above fixture)
- Downlight suitable for wet locations, covered ceiling. Wall wash suitable for damp locations

CERTIFICATIONS (CONTINUED)

- White Cone (WC) and Black Cone (BC) square painted trim options are inherently non-conductive
- 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
- Suitable for -20°C to 25°C standard, High Ambient (HA) option available, up to 40°C

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	500–5000
Wattage Range	5.9–52.1
Efficacy Range (LPW)	94–110
Reported Life (Hours)	L80 / >66,000

*Based on Specular, 35K, 90 CRI

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LFCR-4SD-R

LITEFRAME COMMERCIAL 4" SQUARE REMODEL DOWNLIGHT

ORDERING GUIDE

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

Gray Shading = Service Program

tradeSELECT QS10 Limit of 150 Luminaries

Example: LFCR-4D-MR-10L35K9-WD-DM1 / LFCR-4SD-T-WD-S

CATALOG #

FIXTURE MODULE (Ships separately)

LFCR-4D-MR – [ ] [ ] 9 – [ ] – [ ] [ ] – [ ]

Ap/Shp/Funct	Lumen Output	CCT	CRI
LFCR-4D-MR 4" Downlight Fixture Module, Remodel	**05L** 500	**27K** 2700K	**9** 90+
	10L 1000	**30K** 3000K	
	15L 1500	**35K** 3500K	
	20L 2000	**40K** 4000K	
	25L 2500	**50K** 5000K	
	30L 3000		
	35L 3500		
	40L 4000		
	45L 4500 [1]		
	50L 5000 [1]		

Distribution
NR NR (35°/0.5 SC)[15]
MD MD (50°/0.7 SC)[15]
WD Wide (65°/1.0 SC)

Driver Options
120–277V Options
DM1 0–10V Dimming to 1%
DM01 0–10V Dimming to < 1% [3]
PDM Phase (Forward/Reverse) Dimming to 1% [4]
DALI DALI Dimming to 1% [3]
DM00 Lutron Athena Compatible Driver for static white CCT
DMX1 DMX with RDM dimming to 1%
347V Option
DM34 0–10V Dimming to 1% (347V input) [5, 6]

Control Options
NX Lighting Controls
Networked Wireless
NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [7]
Networked Wired
NXE NX Wired Dual RJ45 SmartPORTS, without Sensor [7]
Other Lighting Controls
Networked Wireless
AWNR Lutron Athena Enabled [8]

Module Options [2]
EM 10W Emergency Battery Pack with Integral Test Switch
EMR 10W Emergency Battery Pack with Remote Test Switch
DTS Device Transfer Switch with Dimming Bypass [9, 10]
F Fuse
HA High Ambient Option (40°C) [11]

TRIM (Ships separately)

LFCR-4SD-T – [ ] – [ ] [ ] [ ]

Aperture/Shape/Function	Trim Type	Reflector Finish	Flange Color Options [14]	Trim Options
LFCR-4SD-T 4" Square Downlight Trim Assembly	**WD** Standard Downlight Reflector (used with NR, MD, and WD distributions from fixture module)	**WC** Painted White Cone	*Standard matches reflector color*	**EM** Pre-punched reflector for EM integral test switch and indicator
		BC Painted Black Cone	**WT** White Flange	**AM** Antimicrobial Coating [12, 13]
			BT Black Flange	

Accessories	
☐ **LF-MOR4-SQ-WH**	Metal Oversized Ring, 4" Square, White (8.3" outside diameter)
☐ **LF-MOR4-SQ-BL**	Metal Oversized Ring, 4" Square, Black (8.3" outside diameter)

Notes:

1. Lumen outputs 45L–50L require marked spacing with dims (24" x 24" x ½" above fixture)
2. Module options EM/EMR/DTS not available in combination
3. DM01 & DALI available 05L–45L
4. PDM available 10L–45L
5. DM34 available 05L–35L
6. DM34 not available with EM, EMR, DTS, or F fixture module options
7. NXW/NXE control options require DM1 or DM34 driver option
8. AWNR control option requires DM00 driver option (DM00 only available in combination with AWNR)
9. Consult factory for DTS with control options
10. DTS requires driver options DM1, DM01 or DALI
11. HA option available 05L–25L
12. AM available with WC
13. AM not available with EM
14. WT not available for WC, BT not available for BC
15. NR and MD available 05L–35L

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NX LIGHTING CONTROLS

	Control Option Ordering Logic & Description		Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0–10V Dimming	On/Off Control	Bluetooth App Programming		
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth® Programming, without Sensor	✓	✓	✓	–	–	✓	✓	✓		NXRM2-H
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor	✓	✓	✓	–	–	✓	✓	✓[1]		NXFSP

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

OTHER LIGHTING CONTROLS

	Control Option Ordering Logic & Description		Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0–10V Dimming	On/Off Control	Bluetooth App Programming		
Other	AWNR	The Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system.[1]	✓	✓	-	-	-	✓	✓	-		A-WN-D01-RF-WH

1 Lutron Athena Hub required to enable Networking, Grouping and Scheduling.

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LITEFRAME COMMERCIAL 4" SQUARE
REMODEL DOWNLIGHT

PERFORMANCE DATA TABLE

Performance Data shown is 3500K 90+ CRI with Specular reflector.

Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
05L	500	Wide	578	5.9	98
		Wall Wash	565	5.9	96
10L	1000	Wide	1111	11.2	99
		Wall Wash	1087	11.2	97
15L	1500	Wide	1604	15.2	106
		Wall Wash	1569	15.2	103
20L	2000	Wide	2128	21.6	98
		Wall Wash	2082	21.6	96
25L	2500	Wide	2672	24.1	111
		Wall Wash	2614	24.1	108
30L	3000	Wide	3204	29.8	108
		Wall Wash	3134	29.8	105
35L	3500	Wide	3763	36.8	102
		Wall Wash	3682	36.8	100
40L	4000	Wide	4240	41.6	102
		Wall Wash	4149	41.6	100
45L	4500	Wide	4777	45.3	105
		Wall Wash	4674	45.3	103
50L	5000	Wide	5299	52.1	102
		Wall Wash	5185	52.1	100

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LFCR-4SD-R

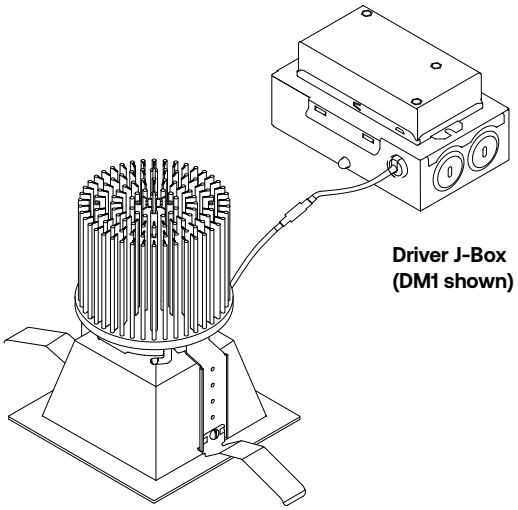
LITEFRAME COMMERCIAL 4" SQUARE
REMODEL DOWNLIGHT

DATE:	LOCATION:
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CATALOG #:	

DIMENSIONS

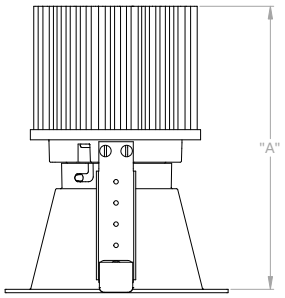
LFCR-4SD-MR

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.



Driver J-Box (DM1 shown)

Light Engine with Trim assembly installed



Side View Standard

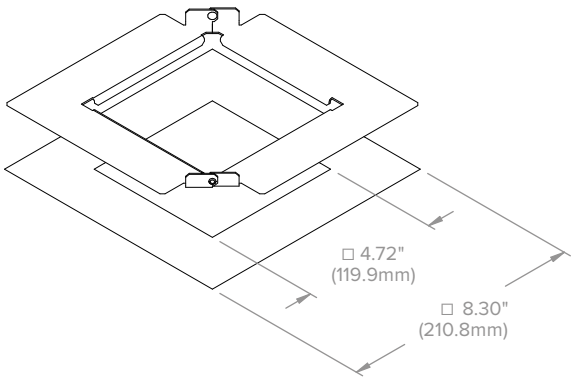
DIMENSIONAL DATA	
Aperture	4.00" (101.6mm) SQ.
Overall Width (Flange To Flange)	5.25" (133.4mm) SQ.
Flange Width	0.63" (16mm)
Ceiling Cutout	4.75" (121mm) SQ.
Ceiling Thickness	0.50"–3.00" (13–76mm)

OVERALL LIGHT ENGINE HEIGHT * (All Lumen Outputs)	
Lumen Package	**Height ("A")**
05L–15L	3.9" (99.1mm)
20L–30L	5.2" (132.1mm)
35L–50L	6.8" (172.7mm)

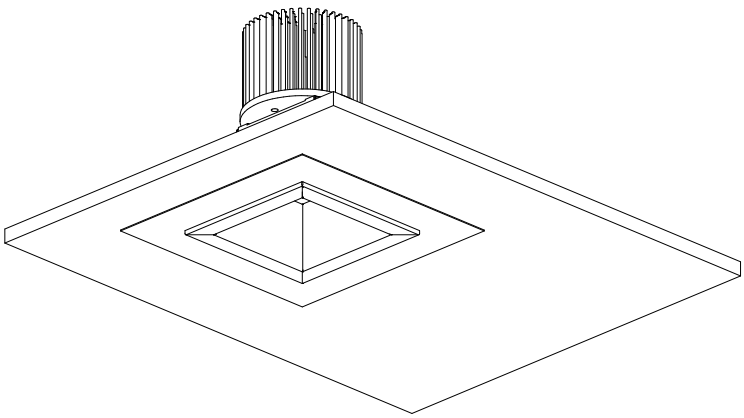
* Note: Add ½" minimum plenum clearance above overall Light Engine Height.

** For 45L–50L: Marked spacing required 24" fixture center to center; 24" fixture center to building member; 0.5" above fixture.

*** Non-IC rating requires 3" from insulation and combustible materials.



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



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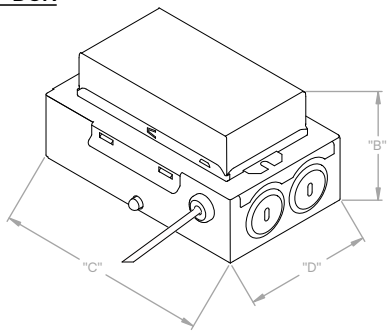
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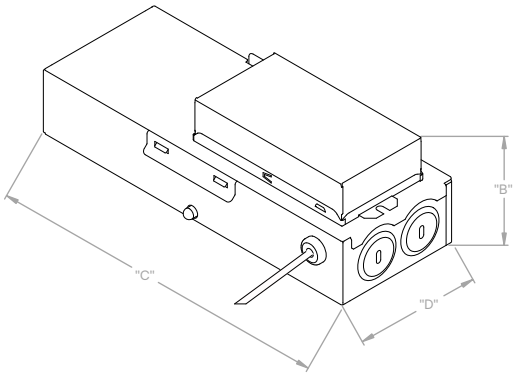
CATALOG #:

DIMENSIONS (CONTINUED)

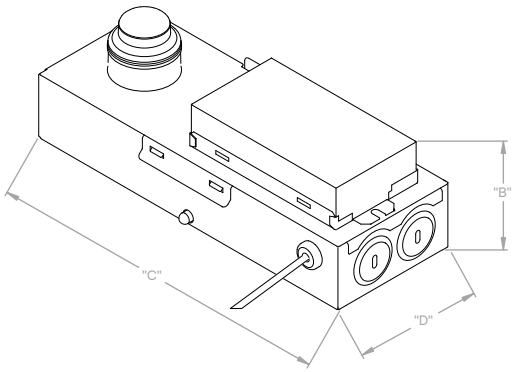
DRIVER J-BOX



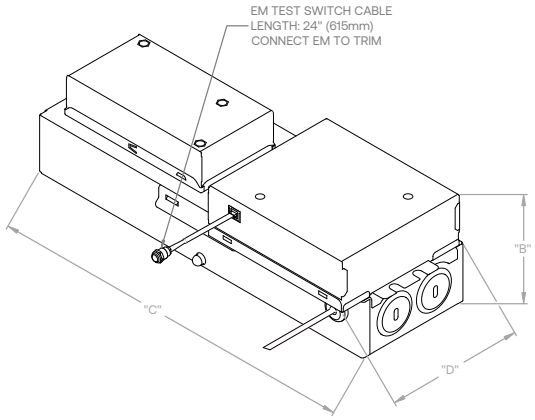
DM1 / DM01 / DALI / PDM / DM34



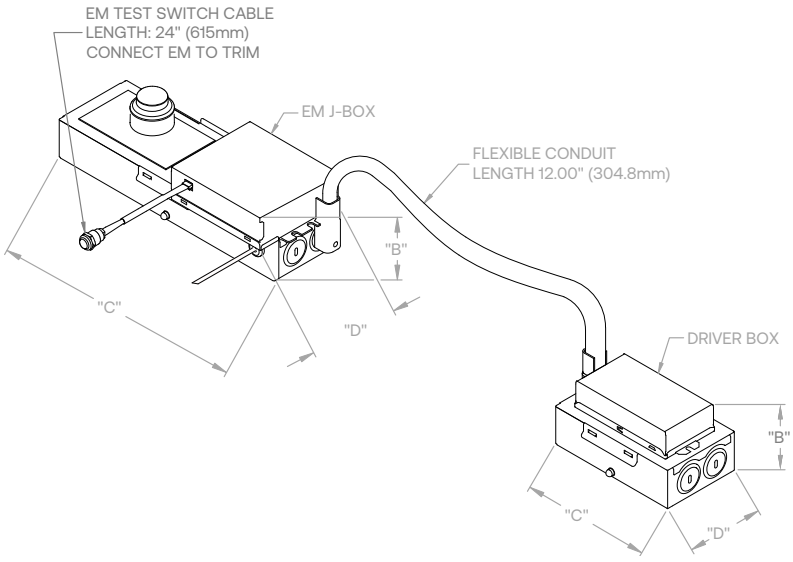
DMX1 / DTS



NX* / AWNR CONTROLS OPTION



DM1 / DMO1 / DALI / PDM / DMX1 + EM/EMR



NX* / AWNR CONTROLS + EM/EMR OPTIONS

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 / DALI / PDM		2.7" (68.6mm)	5.5" (139.7mm)	3.3" (83.8mm)	3.5" (88.9mm)
DMX1 / DTS		2.7" (68.6mm)	8.9" (226.1mm)	3.3" (83.8mm)	5.25" (133.4mm)
NX* / AWNR		2.7" (68.6mm)	8.9" (226.1mm)	3.3" (83.8mm)	5.25" (133.4mm)
EM/EMR		3.0" (76.2mm)	10.5" (266.7mm)	3.7" (94mm)	7.5" (32.9mm)
EM/EMR + NX* / AWNR	EM J-Box	3.0" (76.2mm)	10.5" (266.7mm)	3.7" (94mm)	7.5" (32.9mm)
	Driver Box	2.7" (68.6mm)	5.5" (139.7mm)	3.3" (83.8mm)	

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LITEFRAME COMMERCIAL 4" SQUARE
REMODEL DOWNLIGHT

PHOTOMETRY

LFCR-4D-MR-20L35K9-WD-DM1 / LFCR-4SD-T-WD-S

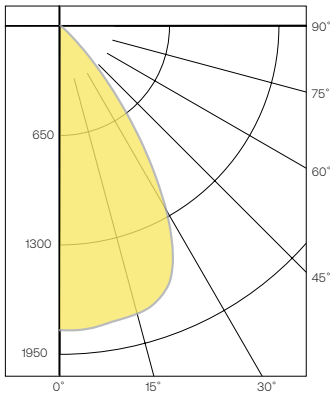
LUMINAIRE DATA

Test No.	**25.01118**
Description	**2000 lm, Wide, 3500K, 90 CRI**
Delivered Lumens	**2034**
Watts	**21.3W**
Efficacy	**95.3**
Mounting	**Recessed**
Spacing Criterion	**1.0**
Beam Angle (FWHM)	**68**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1895	93.2
0–60	2032	99.9
0–90	2034	100.0
0–180	2034	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1810
5	1810
15	1580
25	832
35	146
45	3
55	1
65	1
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	25468
55°	645
65°	292
75°	477
85°	0

*Candela/Square Meter

LFCR-4D-MR-20L35K9-WD-DM1 / LFCR-4SD-T-WW-S

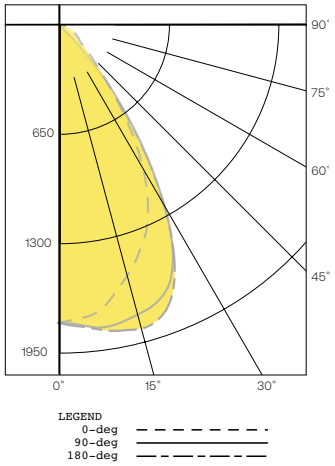
LUMINAIRE DATA

Test No.	**26.00057**
Description	**2000 lm, Wall Wash, 3500K, 90 CRI**
Delivered Lumens	**2108**
Watts	**21.7W**
Efficacy	**126**
Mounting	**Recessed**
Spacing Criterion	**N/A**
Beam Angle (FWHM)	**N/A**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1844	87.5
0–60	2055	97.5
0–90	2108	100.0
0–180	1928	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1762
5	1737
15	1547
25	1255
35	734
45	297
55	152
65	103
75	53
85	14
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	51808
55°	32687
65°	876
75°	953
85°	1415

*Candela/Square Meter

LUMEN MULTIPLIER

Option	27K9	30K9	35K9	40K9	50K9
Multiplier	0.95	0.99	1.00	1.00	1.00

Photometrics are published below at a nominal 3500 Kelvin, 90+ CRI. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

REFLECTOR FINISH & COLOR MULTIPLIER

Option	Specular (S)	Semi-Specular (SS)	Softglow (VS)	White Cone (WC)	Black Cone (BC)
Multiplier	1.00	1.00	0.89	0.98	0.44

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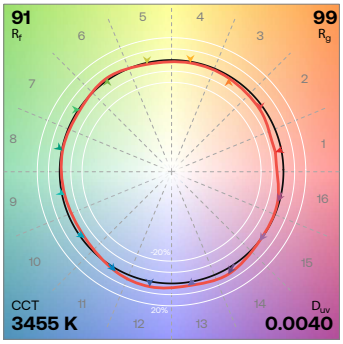
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TM-30 DATA

COLOR VECTOR GRAPHIC
3500K, 90 CRI



Reference Illuminant — Test Source

TEST RESULTS - 3500K	
Value	90+ CRI
R_f	91
R_g	99
CCT (K)	3455
D_{UV}	0.0040
x	0.4122
y	0.4034
CIE R_a	92
CIE R_9	59

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.

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, 10W x 120 LPW = 1200 lumens in emergency mode.

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