

LITEFRAME 4" ROUND LENSED WALL WASH

LITEFRAME

FEATURES

- 4" LED lensed wall wash delivering 1000-6000 lumens
- Direct Install from below ceiling for New Construction or Remodel applications
- · Optional housing accessories available
- Provides smooth, uniform illumination
- 2700K–5000K, 80+ and 90+ CRI (2 SDCM)
- Dimming protocols include 0-10V, Phase (Forward/Reverse), DALI, DMX, Lutron 2-wire Forward Phase, and EcoSystem
- NX Distributed Intelligence™ wired and wireless controls capability available







RELATED PRODUCTS

LOCATION:

PROJECT:

DATE:

TYPE:

CATALOG #:

8 LFR-4RA

8 LFR-4RD8 LFR-4RDS

8 Liteframe Family

STOCK STOCK

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

- 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

- · 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, RoHS compliant
- Flicker-free dimming options in a wide range of protocols from 1% to <0.1% performance
- 0–10V, Phase (Forward/Reverse), DALI, DMX, Lutron 2-wire Forward Phase, and EcoSystem options
- 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
- 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
- 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

WARRANTY

- 5 year warranty
- See <u>HLI Standard Warranty</u> for additional information

KEY DATA							
Lumen Range	1000–6000						
Wattage Range	8–54						
Efficacy Range (LPW)	91-108						
Reported Life (Hours)	L90 / >50,000						
Input Current (mA)	66-450 (120V)						

*Based on Specular, 35K, 80 CRI







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DATE:	LOCATION:		
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CATALOG #:			
Grantes and			
= Service	e Program	STOCK	

Click icon for Stocked item list

ORDERING GUIDE

Example: LFR-4RW-M-10L35K8-LWW-DM1 / LFR-4RW-T-LWW-S / LFR-4RW-H
CATALOG #

FIXTURE MODULE

_FR-4RW-M	_							_			_								-	-
Ap/Shp/Funct		Lume	n Output	сст		CI	રા		Distri	bution		Driver	Opti	ons	ons Contro	ons Control Options	ons Control Options Volt	ons Control Options Voltage	ons Control Options Voltage	ons Control Options Voltage Modul
LFR-4RW-M 4" Round		10L	1000	27K	2700K		80+		LWW	Lensed Wall Wash		DM1	0-10V D to 1%	imming	imming NXE	imming NXE NX Enabled, Dual SmartPorts ³	5	5 Ture Ture Enabled, Startagra	5 Internation, Claricard	5 Ture Ture Endorce, Otanicare
Lensed Wall Wash Fixture Module		15L 20L	1500 2000		3000K 3500K	9	90+					DM01	0-10V Dimming to < 1% 2	to	to NXWE		to NXWE NX Wireless 34	to NXWE NX Wireless 34 347V4	to NXWE NX Wireless 34 347V4	to NXWE NX Wireless 34 347V4 EMR
for Direct Install		25L 30L	2500 3000		4000K 5000K							PDM	Phase (Forward/ Reverse) Dimming to 1% ²		NXWD	NXWD NX Wireless Enabled,	1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
(Non-IC frame or IC housing available under Housing Options below)I		35L 40L	3500 4000	300	5000K							DMX	DMX with RDM dimming to < 0.1%²			Dual SmartPorts ³	Dual SmartPorts ³	Dual SmartPorts ³	Dual SmartPorts ³	Dual SmartPorts ³
		45L	4500									DALI	DALI Dimming to 1% ²							
		50L 60L	5000¹ 6000¹									2DM	Lutron Hi-Lume 2-wire Dimming to 1% (120V Forward Phase only) ²		1					
												EDM	Lutron Hi-Lume EcoSystem Dimming to 1% ²							

TRIM (Ships separately)

LFR-4RW-T		_			_				
Aperture/Shape/Function			Distribution			Reflector Finish/Color		Flange Color Options	
LFR-4RW-T	4" Round Lensed Wall Wash Trim Assembly		LWW	Lensed Wall Wash		s	Specular	Standard matches reflector color	
	Wasii iiiii Assembiy			VVdSII		SS	Semi-Specular	l	
						wc	Painted White	WT	White Flange 8
							Cone and Flange	BT	Black Flange

HOUSING OPTIONS (Ships separately)

Ape	Aperture/Shape/Function								
	LFR-4RD-H	4" Housing Frame, New Construction, Non-IC							
	LFR-4RD-H-IC	4" Housing Enclosure, New Construction, IC Rated 9, 10							

Accessories LiteGear LiteGear® Inverter, 125VA–250VA LPS Series LightPower Micro-Inverter, 20VA–55VA

Notes:

- 50L and 60L require marked spacing. See line art for more details.
- 2 DM01, PDM, DMX, DALI available up to 50L. 2DM and EDM available 15L-40L.
- 3 NX requires DM1 driver option.
- 4 347V requires DM1 driver option; available 10L–40L; not available with Controls, DTS, EMR.
- $\,\,$ CP available up to 35L; not available with DMX, Controls, or EMR options.
- 6 Module options not available in combination.
- 7 DTS available with DM1, DM01, or DALI.
- 8 WT not needed for WC.
- 9 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.)
- 10 IC Housing not for use in combination with Controls or with Module Options CP, EMR, DTS.





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CONTROLS

NX Distributed Intelligence™ Lighting Controls:

Supports applications in a variety of deployment options- wired, wireless, hybrid. Integrates with and enables a wide array of luminaires including those with SpectraSyncTM Color Tuning Technology.



	NX INTEGRATED CONTROLS REFERENCE										
NX Option	Sensor	Networkable	Scheduling Occupancy				On/off Control	Bluetooth® App Programming			
NX Networked	NX Networked – Wired										
NXE	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC/R1			
NX Networked	I – Wireless										
NXWE ²	N/A	Yes	Yes	No	No	Yes	Yes	No³			
NX Networked	NX Networked – Wired/Wireless										
NXWD	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC/R ^{1,3}			

- 1 NXBTC/R needs to be plugged into an available NX SmartPort™ on the fixture network
- 2 Programming via App requires factory assistance
- $3\quad \text{To program NXWE option, need to consult factory. If connected to an area controller, programming can be done from that}\\$

PERFORMANCE DATA TABLE

Performance data provided below is for 3500K, 80 CRI with Specular Clear reflector

Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
10L	1000		821	7.6	108
15L	1500	Lensed WW	1233	11.8	104
20L	2000		1591	15.3	104
25L	2500		2066	20.9	99
30L	3000		2463	26.0	95
35L	3500		2994	29.4	102
40L	4000		3338	32.9	101
50L	5000		4061	42.0	97
60L	6000		4844	53.4	91





LITEFRAME 4" ROUND LENSED WALL WASH

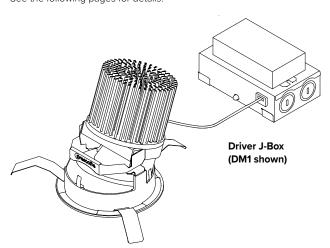
DATE:	LOCATION:
TYPE:	PROJECT:

CATALOG #:

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.



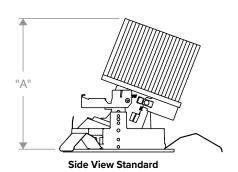
Light Engine with Trim assembly installed

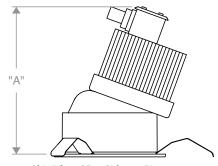
DIMENSIONAL DATA								
APERTURE	Ø 4.00" (101.6mm)							
OVERALL	Ø 5.37" (136.5mm)							
FLANGE WIDTH	0.69" (17.5mm)							
CEILING CUTOUT	Ø 4.75" (120.7mm)							
CEILING THICKNESS	0.50" - 2.50" (12.7 - 63.5mm)							

LFR-4RW LIGHT ENGINE

OVERALL LIGHT ENGINE HEIGHT "A" *								
LUMEN PACKAGE	FIXTURE MODUI F	BEAM DISTRIBUTION						
PACKAGE	MODULE	LWW						
101 -301	STANDARD	4.81" (122.2mm)						
IOL-3OL	СР	5.80" (147.3mm)						
351 -501	STANDARD	6.29" (159.8mm)						
35L-5UL	СР	7.28" (184.9mm)						
601	STANDARD	6.29" (159.8mm)						
OUL	СР	7.28" (184.9mm)						

^{*} Note: Add ½* minimum plenum clearance above overall Light Engine Height.
** For ≥50L: Marked spacing required 18* 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 CP - Chicago Plenum





LITEFRAME 4" ROUND LENSED WALL WASH

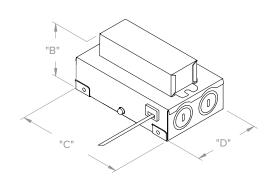
DATE: LOCATION:

TYPE: PROJECT:

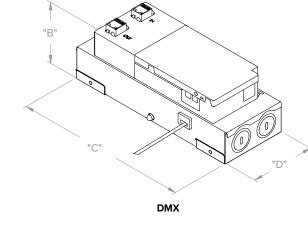
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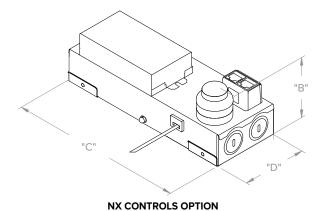
DIMENSIONS CONTINUED

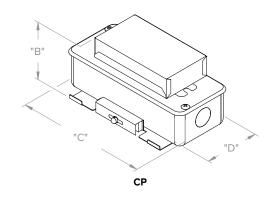
DRIVER J-BOX

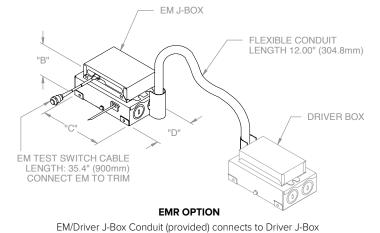


DM1 / DM01 / PDM / DALI









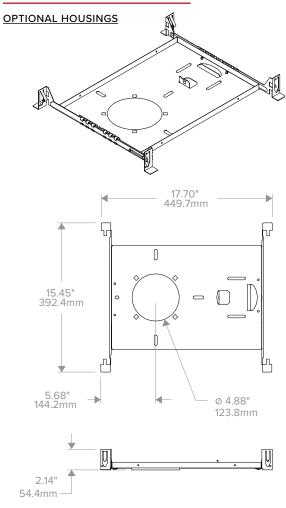
(see Driver J-Box for additional details)

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)					
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)					



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DIMENSIONS CONTINUED

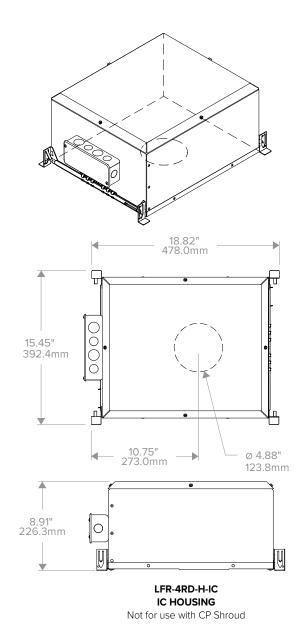


LFR-4RD-H NON-IC HOUSING FRAME

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:





LITEFRAME 4" ROUND LENSED WALL WASH

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

PHOTOMETRY

LFR-4RW-M-20L35K8LWW-DM1 / LFR-4RW-T-LWW-S

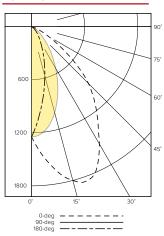
LUMINAIRE DATA

Test No.	21.00599
Description	2000 lm, Very Narrow, 3500K, 80 CRI
Delivered Lumens	1591
Watts	15.2W
Efficacy	104.3
Mounting	Recessed

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1164	73.2
0-60	1549	97.4
0-90	1591	100.0
0-180	1591	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela	
0	1246	
5	1466	
15	1800	
25	1751	
35	1305	
45	910	
55	399	
65	108	
75	13	
85	0	
90	0	

LUMINANCE DATA*

Vertical Angle	Average	
45°	158737	
55°	85803	
65°	31521	
75°	6195	
85°	0	

*Candela/Square Meter

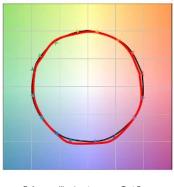
LUMEN MULTIPLIER

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.

TM-30 DATA

COLOR VECTOR GRAPHIC 3500K, 90 CRI



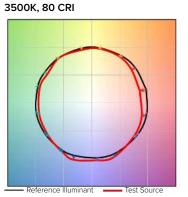
Reference Illuminant Test Source

COLOR VECTOR GRAPHIC

COLOR DISTORTION GRAPHIC 3500K, 90 CRI



COLOR	DISTORTION GRAPHIC
3500K,	80 CRI





TEST RESULTS - 3500K				
Value	80+ CRI	90+ CRI		
R_f	85 90			
R_g	95	99		
CCT (K)	3422	3416		
D _{uv}	-0.0008	-0.0019		
х	0.4089	0.408		
у	0.3906	0.3877		
CIE R _a	85	93		
CIE R ₉	CIE R ₉ 16 66			





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DATE:	LOCATION:
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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 Compatability

See the DIMMING link for more information on dimming compatability and recommended dimmer list.

DMX

See instruction sheet on www.prescolite.com for connection & installation information.

Central Inverters

For full fixture output in back-up mode, we recommend you visit www.dual-lite.com for your Central Lighting Inverter options. Please contact your local Hubbell representative for any assistance with proper sizing and loading of your inverter selection. Central lighting inverters must be ordered separately.

LiteGear: www.dual-lite.com/products/litegear_lg_series

LPS Series: www.dual-lite.com/products/lps

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