

LFCR-6RD-N (BAA)

LITEFRAME COMMERCIAL 6" ROUND
NEW CONSTRUCTION DOWNLIGHT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

LITEFRAME[®]
Commercial

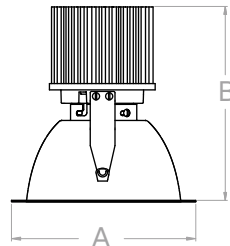


FEATURES

- 6" LED downlight delivering 1000/1500/2000 lumens
- Wide Beam Distribution (1.0 Spacing Criteria) Standard
- 3000K/3500K/4000K 90+ CRI (2 SDCM)
- 0-10V Dimming to 1%
- TriGain[®] technology is standard and delivers 90 CRI (50+ R9) color rendition without efficacy compromise



TriGain[®]
technology



Typical Dimensions and Weights				
Lumen Package	Aperture Inches (mm)	"A" Diameter Inches (mm)	"B" Height Inches (mm)	Weight lbs (kg)
10L-15L	6.0 (152.4)	7.0 (177.8)	4.4 (111.8)	3.85 (1.7)
20L			5.8 (147.3)	4.08 (1.8)

See DIMENSIONS section for complete details

SPECIFICATIONS

CONSTRUCTION

- Standard fixture module designed for Non-IC, with new construction housing
- All housing options come standard with pre-installed bar hangers
- Die cast aluminum fixture module with torsion springs for secure mounting to fixture housing
- Snap-in driver 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
- Specular, semi-specular, or white painted cone reflector colors available

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
- 3000K, 3500K, 4000K CCTs, 90+ CRI
- Long LED life: L80 / >66,000 hours (TM-21)
- Universal voltage 120-277V driver
- UL Class 2, inherent short circuit and overload protection
- Flicker-free 0-10V dimming to 1%

INSTALLATION

- Accommodates ceiling thickness from 0.00" to 1.25". Thick Ceiling Adapter available to order as accessory to accommodate up to 3.00"
- Fixture module including driver fully accessible from above or below the ceiling

CERTIFICATIONS

- cCSAus certified to UL 1598
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9). [See Buy America\(n\) Solutions](#)
- This product meets federal procurement law requirements under the Trade Agreements Act (FAR 52.225-11). [See Buy America\(n\) Solutions](#)
- Downlight suitable for wet locations, covered ceiling
- Approved for 8 (4 in/4 out) No. 12AWG conductors rated for 90°C through wiring
- Suitable for -20°C to 25°C temperatures

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	1000-2000
Wattage Range	11.2-21.8
Efficacy Range (LPW)	97-105
Reported Life (Hours)	L80 / >66,000

*Based on Specular, 35K, 90 CRI

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ORDERING GUIDE

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

Example: LFCR-6RD-HN-20LDM1-BAA / LFCR-6RD-TN-20L35K9-WD-S-BAA

CATALOG #

HOUSING

LFCR	6	R	D	H	N		DM1	BAA
Aperture	Size	Shape	Function	Housing	Application	Lumen Output ¹	Driver Option	BAA
LFCR LiteFrame Commercial	6 6 Inch	R Round	D Downlight	H Housing	N New Construction	10L 1000 15L 1500 20L 2000	DM1 0-10V Dimming to 1%	BAA Buy American Act (FAR 52.225-9) Compliant & Trade Agreements Act (FAR 52.225-11) Compliant

TRIM

LFCR	6	R	D	T	N			9
Aperture	Size	Shape	Function	Trim	Application	Lumen Output ¹	CCT	CRI
LFCR LiteFrame Commercial	6 6 Inch	R Round	D Downlight	T Trim	N New Construction	10L 1000 15L 1500 20L 2000	30K 3000K 35K 3500K 40K 4000K	9 90+ CRI

WD		BAA
Function	Trim Finish	BAA
WD Wide Distribution	S Specular SS Semi-Specular WC Painted White Cone	BAA Buy American Act (FAR 52.225-9) Compliant & Trade Agreements Act (FAR 52.225-11) Compliant

Accessories ²

- ☐ MOR6-R-WH Metal Oversized Ring, 6" Round, White (10.12" outside diameter)
- ☐ MOR6-R-BL Metal Oversized Ring, 6" Round, Black (10.12" outside diameter)
- ☐ LFCR-TCA Thick Ceiling Adapter (1.25"-3.00")
- ☐ LFR-SCA6-__ Sloped Ceiling Adapter, 6" White
Specify slope angle 5°-35° in 5° increments.

Notes:

- 1 Lumen output selection must be the same on housing and trim.
- 2 Accessories are not BAA or TAA compliant.

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PERFORMANCE DATA TABLE

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

Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
10L	1000	Wide	1108	11.2	99
15L	1500	Wide	1599	15.2	105
20L	2000	Wide	2122	21.8	97

LUMEN MULTIPLIER

Option	30K9	35K9	40K9
Multiplier	0.99	1.00	1.00

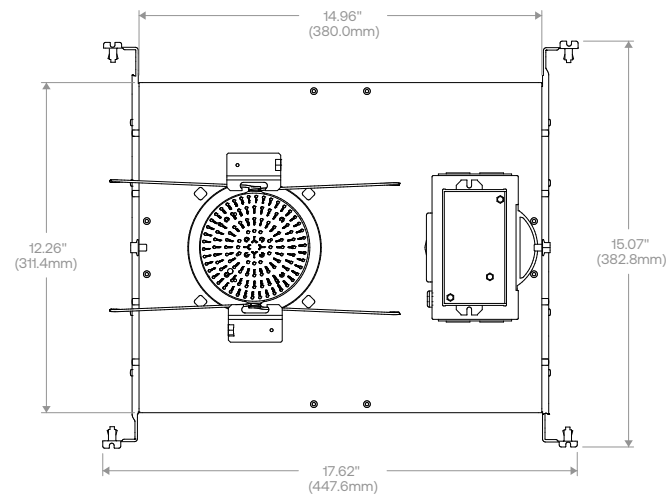
Photometrics are published below at a nominal 3500 Kelvin, 90+ CRI. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

REFLECTOR FINISH & COLOR MULTIPLIER

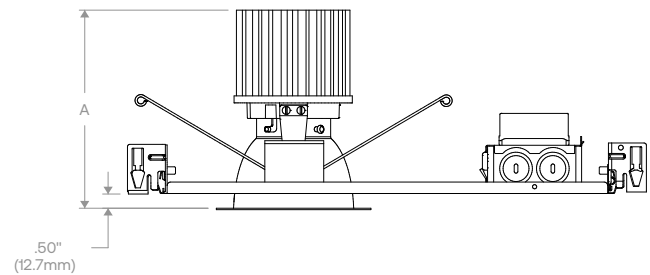
Option	Specular (S)	Semi-Specular (SS)	White Cone (WC)
Multiplier	1.00	1.00	0.98

DIMENSIONS

Standard New Construction Housing and Trim assembly



Top View Standard



Side View Standard

DIMENSIONAL DATA		
Aperture		Ø5.75" (146.1mm)
Flange		Ø7.00" (177.8mm)
Ceiling Cutout	Standard	Ø6.38" to 6.63" (161.9mm to 168.3mm)
Ceiling Thickness	Standard	0.00" to 1.25" (0.0mm to 31.8mm)
	With TCA Accessory	1.25" to 3" (31.8mm to 76.2mm)

Lumen Package	"A"
05L-15L	4.4" (111.8mm)
20L	5.8" (147.3mm)

Note: When using SCA Sloped Ceiling Adapter accessory, see LFR-SCA specification sheet and installation instructions for dimensional data, max. ceiling thickness and other details.

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PHOTOMETRY

LFCR-6RD-HN-20LDM1-BAA / LFCR-6RD-TN-20L35K9-WD-S-BAA

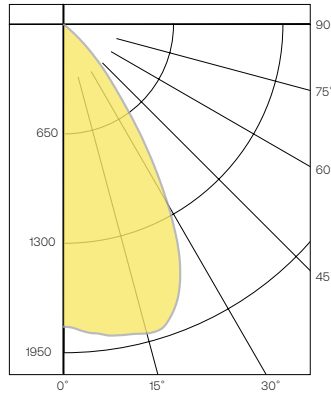
LUMINAIRE DATA

Test No.	P26.00014
Description	2000 lm, Wide, 3500K, 90 CRI
Delivered Lumens	2122
Watts	21.8W
Efficacy	95.3
Mounting	Recessed
Spacing Criterion	1.0
Beam Angle (FWHM)	66

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1445	91.4
0-60	12121	99.9
0-90	2122	100.0
0-180	2122	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1796
5	1840
15	1900
25	1637
35	785
45	214
55	2
65	1
75	0
85	0
90	0

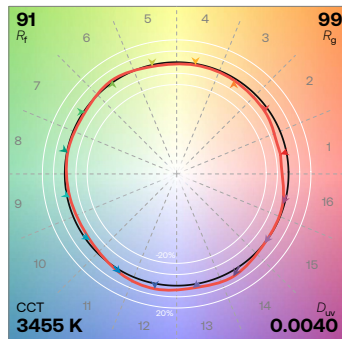
LUMINANCE DATA*

Vertical Angle	Average
45°	16591
55°	191
65°	130
75°	0
85°	0

*Candela/Square Meter

TM-30 DATA

COLOR VECTOR GRAPHIC
3500K, 90 CRI



— Reference Illuminant — Test Source

TEST RESULTS - 3500K

Value	90+ CRI
R _t	91
R _g	99
CCT (K)	3455
D _{uv}	0.0040
x	0.4122
y	0.4034
CIE R _a	92
CIE R _g	59

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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

* 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.

Central Inverters

For full fixture output in back-up mode, we recommend you visit currentlighting.com/dual-lite.com 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.

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