Columbia LIGHTING

LXEM
Enclosed and Gasketed Fiberglass Extreme Environment / LED

DLC **LED**

FEATURES

create**change**

- LED Enclosed and Gasketed
- Long life 60,000 hour LEDs at L80 for reduced maintenance
- Four LED color choices and 80 CRI
- IP66 all sizes when ordered with standard polyacetal (POM) latches
- IP65 all sizes, IP67 4' and 8'
- Available in 2', 4', or 8' lengths
- Fiberglass housing with F1 weatherability rating, standard
- Smooth housing for easy cleaning
- Gasket is non-porous to ensure seal
- Impact modified acrylic lens equivalent to 100% DR
- Wide range of lens selections
- Lens firmly secured with tamper resistance ready polyacetal (POM) latches
- Stainless steel latching optional
- UL Sanitation Certified per NSF Standards
- Removable gear tray electrical access for modular replaceability
- Emergency battery pack installed, optional on most models
- Standard ambient -20℃ to 25℃
- Elevated ambient option on most models
- Wireless ZigBee® radio enabled option
- DesignLights Consortium® qualified
- Includes surface mounting brackets
- Occupancy and/or daylight sensing accessories available
- Five year warranty

CONSTRUCTION
Housing is formed from UL 5VA fiberglass. F1 weatherability rating, suitable for indoor or outdoor use with respect to exposure to UV light. Pour-in-place non-porous gasketing assures seal. LED affixed to removable heat sinked gear tray. 14 Latches per 8', 8 per 4', 6 per 2'. Latches are provided tamper resistance ready, tamper resistant screws by others. Latches are standard polyacetal (POM), optional in stainless steel. Access openings are provided for electrical connection.

SHIELDING
Lineal ribbed frosted acrylic lens impact modified equivalent to 100% DR; modification adds flexibility to reduce impact breakage compared to standard acrylic formulations. Optional ribbed polycarbonate lens or deep acrylic. All lenses available in clear or frost.

FINISH
White painted parts are treated with a five-stage phosphate bonding process and finished with high reflectance baked enamel.

ELECTRICAL
Long-life LEDs are rated for 60,000 hours at L80 lumen maintenance. Extra High Lumen packages (XL) rated L70 at 60,000 hours. Driver options include fixed output for on/off function, step dimming[4] (high/low/off) or continuous 0-10V dimming. QR code label affixed to housing for easy traceability.

CERTIFICATION
All luminaires are built to UL 1598 and 2108 standards, and bear appropriate CSA labels. Ingress protection IP65 and IP67 standard. UL Sanitation Certified per NSF Standards. Wet location labeling is standard. Emergency-equipped fixtures built to UL 924. DesignLights Consortium® (DLC) qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org.

WARRANTY
Five year warranty (Terms and Conditions Apply).

MOUNTING
Use flexible conduit only.

ORDERING INFORMATION

EXAMPLE LXEM4-35HL-RFA-EDU

LXEM – – – U –

MODEL		COLOR TEMP		SHIELDING		DRIVER		VOLTAGE		OPTIONS	
LXEM LED Enclosed and Gasketed		**30** 3000K		**RFA** Ribbed Frosted Acrylic		**E** Fixed Output		**U** 120V-277V		**GLR** Fast Blow Fuse	
		35 3500K		**RA** Ribbed Clear Acrylic		**ESD** Step Dimming[4,5]				**SSL** Stainless Steel Tamper Resistance Ready Latches	
		40 4000K		**DFA** Deep Frosted Acrylic		**ED** 0-10V Dimming					
		50 5000K		**DCA** Deep Clear Acrylic		**ED1** 0-10V 1% Dimming				**TP** Tamper Proof Latches	
				RFP Ribbed Frosted Polycarbonate[3]						**ELL14** Emergency Battery Pack Installed, 1400 Lumens[6]	

SIZE
- **2** 2'[1,2,6,7]
- **4** 4'
- **8** 8'

LUMEN OUTPUT
- **VW** Very Low Watt
- **LW** Low Watt
- **ML** Medium Lumen
- **HL** High Lumen[1]
- **VL** Very High Lumen
- **XL** Xtra High Lumen[2,5]

PRODUCT AVAILABILITY

Size	Lumen Package	Nominal Lumen Range (DFA Lens)	Nominal Watts	Lumens/Watt (Highest)	Max Temp, HT Option
2'	VW	2415-2630	25	107	40℃
	LW	3150-3500	29	121	40℃
	ML	4300-4750	43	110	40℃
	HL	4850-5350	51	105	25℃
4'	VW	3000-3300	27	122	50℃
	LW	4050-4450	36	124	50℃
	ML	4850-5350	47	114	50℃
	HL	5800-6400	52	123	45℃
	VL	7350-8150	68	120	40℃
	XL	9750-10750	102	105	25℃
8'	VW	6000-6600	54	122	50℃
	LW	8100-8900	72	124	50℃
	ML	9700-10700	94	114	50℃
	HL	11600-12800	104	123	45℃
	VL	14700-16300	136	120	40℃
	XL	19500-21500	204	105	25℃

SENSOR KITS (Order Separately)
All sensor kits include Occupancy & Daylight.
Daylight activation requires setting of dip-switches on site.

	Catalog #	# Relays	Lens Type	Voltage	Wet Label
120V/ 277V	OS1360WLK	1	360°	120/277	Yes
	OS2360WLK	2	360°	120/277	Yes
	OS1AWLK	1	Aisle	120/277	Yes
	OS2AWLK	2	Aisle	120/277	Yes

OPTIONS (continued)
- **F3C8W** 3 Wire 8' Wet Cord
- **F3C15W** 3 Wire 15' Wet Cord
- **SWH** Single Wet Hub ½" NPT Hub
- **DWH** Dual Wet Hub ½" NPT Hub
- **XEDPM** Dual Pendant Brackets (pendant by others)[8]
- **HT** Elevated Ambient[1,2,6]
- **ZRE** Wireless ZigBee® radio enabled option

ACCESSORIES (ORDER SEPARATELY)
- **XEHC** Chain Hanger Kit (Includes 14" Chain)
- **XE45MB** 45° Mounting Bracket[9]
- **XE45MBSS** 45° Stainless Steel Mounting Bracket

[1] HL not available in 2' size with HT option.
[2] Not available with battery pack.
[3] 2' and 4' only. 8' not available.
[4] Only available on 4' and 8' LW and ML Lumen package.
[5] Not available with HT.
[6] Not available with XL lumen package.
[7] Not available with VL lumen package.
[8] Requires 3/8" OD threaded rod by others.
[9] 2 required for 8' fixture
[10] Only available with 0-10V Dimming (ED, ED1) Driver Options

Lumens vary according to color temperatures and other factors. See specific photometric test(s). Output levels based on the DFA lens option.

LED / LXEM

HUBBELL Lighting

PHOTOMETRIC DATA

LUMINAIRE DATA

Luminaire	LXEM4-40ML-DFA-EU
	LXEM LED Enclosed and Gasketed, Industrial. 7" x 51" LED with deep frosted acrylic diffuser
Ballast	**D15CC55UNVTC**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**5383**
Watts	**47.00**
Mounting	**Surface**
Shielding Angle	**0° = 90 90° = 90**
Spacing Criterion	**0° = 1.25 90° = 1.30**
Luminous Opening in Feet	**Length: 4.25 Width: 0.50 Height: 0.33**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1297	24.1	24.1
0-40	2127	39.5	39.5
0-60	3824	71.0	71.0
0-90	5105	94.8	94.8
0-180	5383	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	**100%**
Total Lumens per Watt	**115**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.09 based on 3000 hrs. and $0.08 per KWH**

INDOOR CANDELA PLOT

Horiz 0-180

0.0 ——— 45.0 ········· 90.0 ------
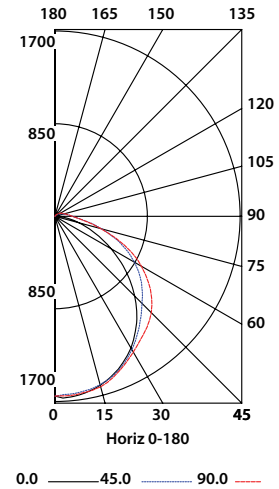
LUMINAIRE DATA

Luminaire	LXEM4-40HL-DFA-EU
	LXEM LED Enclosed and Gasketed, Industrial
	7" x 51" LED with deep frost ribbed acrylic diffuser
Ballast	**D15CC55UNVTC**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**6182**
Watts	**51.80**
Mounting	**Surface**
Shielding Angle	**0° = 90 90° = 90**
Spacing Criterion	**0° = 1.25 90° = 1.29**
Luminous Opening in Feet	**Length: 4.17 Width: 0.50 Height: 0.29**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1493	24.2	24.2
0-40	2450	39.6	39.6
0-60	4399	71.2	71.2
0-90	5863	94.8	94.8
0-180	6182	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	**100%**
Total Lumens per Watt	**119**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.02 based on 3000 hrs. and $0.08 per KWH**

INDOOR CANDELA PLOT

Horiz 0-180

0.0 ——— 45.0 ········· 90.0 ------
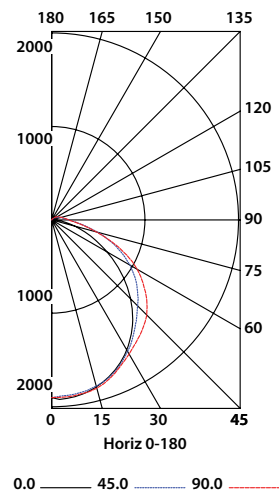
LUMINAIRE DATA

Luminaire	LXEM4-40VL-DFA-EU
	LXEM LED Enclosed and Gasketed, Industrial
	7" x 51" LED with deep frosted acrylic diffuser
Ballast	**D23CC90UNVTF**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**7876**
Watts	**67.70**
Mounting	**Surface**
Shielding Angle	**0° = 90 90° = 90**
Spacing Criterion	**0° = 1.24 90° = 1.29**
Luminous Opening in Feet	**Length: 4.25 Width: 0.50 Height: 0.25**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1899	24.1	24.1
0-40	3114	39.5	39.5
0-60	5588	71.0	71.0
0-90	7461	94.7	94.7
0-180	7876	100.0	100.0

ENERGY DATA

|	
Total Luminaire Efficiency	**100%**
Total Lumens per Watt	**116**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.07 based on 3000 hrs. and $0.08 per KWH**

INDOOR CANDELA PLOT

Horiz 0-180

0.0   45.0   90.0

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DIMENSIONAL DATA

See Table

6⁷/₉"

6⁷/₉"

2²/₅"

5⁵/₈"

4³/₈"

2²/₅"

RFA Lens: 2', 4', 8', RFP Lens: 2', 4'

DFA Lens: 2', 4', 8'

LXEM LENGTH DIMENSIONS

SIZE	LENS	LENGTH	SIZE	LENS	LENGTH	SIZE	LENS	LENGTH
2'	RFA	27²/₃"	**4'**	RFA	51²/₃"	**8'**	RFA	100"
	RFP	27²/₃"		RFP	51²/₃"		RFP	N/A
	DFA	27²/₃"		DFA	51²/₃"		DFA	100"
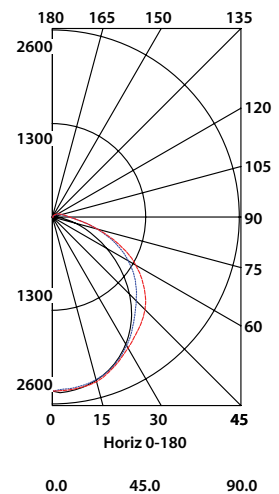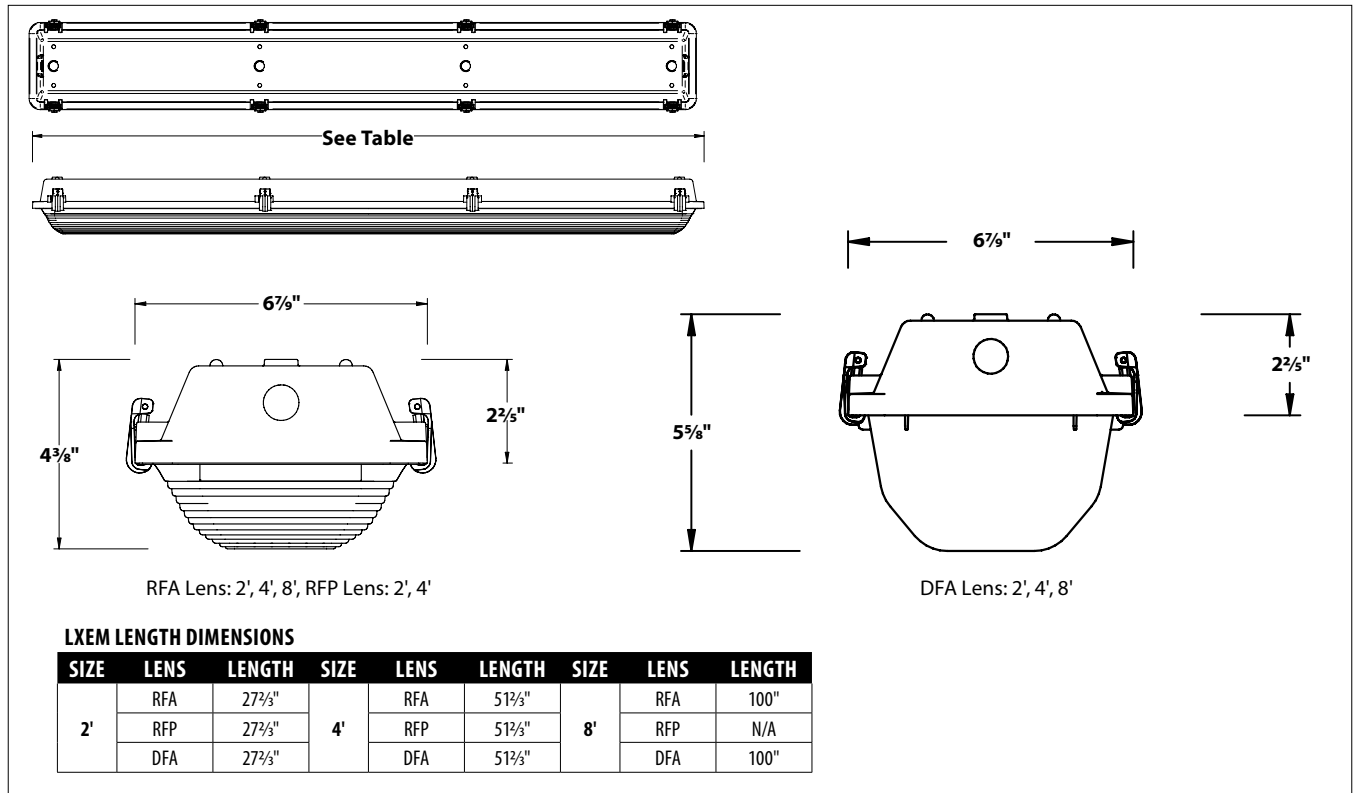
NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

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