Columbia LIGHTING

LEPC22

2' × 2' LED, e•poc® Full Distribution Luminaire

PROJECT INFORMATION

Project Name

Type

Catalog No.

Date

FEATURES

- High-performance LED luminaire
- Long-life, 60,000 hour LEDs at L80 (80% lumen maintenance) reduce life cycle maintenance costs
- Four LED color choices
- Multiple lumen packages (see Product Availability Table)
- Superior color consistency to a 3-step MacAdam ellipse and 82 CRI
- Full distribution provides controlled high angle light for visual comfort
- Lens design and materials provide uniform appearance without pixilation
- Unique frameless optical system and modular electrical system allow for easy LED module or driver replacement from below the ceiling
- Most configurations produce low W/ft² to meet the most restrictive lighting power density codes
- Five year warranty

CONSTRUCTION

Luminaire housing, end caps, and reflectors are die-formed code-gauge cold-rolled steel. Frameless optics system hinges from either side for easy access to lamps and electrical components. Mechanical light trap prevents light leaks. Latches are spring loaded. Fixture standard construction is static, air handling return air side slots may be ordered as an option.

FINISH

All visible parts are custom formulated soft, non-glare high-reflectance white powder coat finish, painted after fabrication.

SHIELDING

Lenses are high transmission extruded acrylic.

INSTALLATION

An access plate is furnished with each recessed fixture for fast wiring connections without the necessity to open the fixture or wireway.

CEILING COMPATIBILITY

Luminaire fits recessed exposed grid ceilings (G); four integral T-Bar clips standard. A flange kit (FK) option is available for recessed hard ceiling applications. Surface Mount (SM) option allows placement on ceiling plane. Cable Mount option (CM) allows suspension below ceiling plane. For information on compatibility with specific ceilings, or where plenum depth is a problem, contact your representative.

CERTIFICATION

All luminaires are built to UL1598 and 2108 standards, and bear appropriate CSA labels. Damp location labeling is standard. Emergency equipped fixtures labeled UL924. Adheres to LM79, LM80 and TM21 standards. IC rating is standard on all models. UL Sanitation Approved.

WARRANTY

Five year warranty. (Terms and Conditions apply)

ORDERING INFORMATION

EXAMPLE LEPC22-35HLG-LL-EDU

LEPC 22 – – LL – – –

MODEL
- **LEPC** e•poc® LED Full Distribution Luminaire

COLOR TEMP
- **30** 3000K
- **35** 3500K
- **40** 4000K
- **50** 5000K

CEILING TYPE
- **G** Grid[2]
- **SM** Surface Mount
- **CM** Cable Mount[3]

AIR FUNCTION
- **Blank** Static
- **A** Air Return Side Slots [9]

DRIVER
- **E** Fixed Output
- **ED** 0-10V Dimming
- **ED1** 0-10V 1% Dimming
- **EDD** 0-10V Dim-to-Off
- **ESD** Step Dimming[4]
- **LUTH** Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology[4]

VOLTAGE
- **U** 120V-277V
- **347** 347V

OPTIONS
- **ELL14** Emergency Battery Pack Installed, 1400 Lumens[1,5,6]
- **C388** 3-Wire Flex
- **C488** 4-Wire Flex
- **C588** 5-Wire Flex
- **GLR** Fast Blow Fuse
- **EOR** End of Row (SM/CM only)[7]
- **INT** Intermediate (SM/CM only)[7]
- **GTD** Generator Transfer Device[8]
- **CP** Chicago Plenum

SIZE
- **22** 2' × 2'

LUMEN OUTPUT
- **VW** Very Low Watt
- **MW** Medium Low Watt
- **LW** Low Watt
- **ML** Medium Lumen
- **HL** High Lumen
- **VL** Very High Lumen[1]

(See Product Availability Table)

SHIELDING
- **LL** Low Lamp Image

[1] VL not available with ELL14 or Lutron drivers.
[2] For drywall, order G with Flange Kit Accessory.
[3] Order hanger accessories separately.
[4] Not available with 347V.
[5] Not available with Surface Mount ceiling types.
[6] For compatibility with Dual-Lite LiteGear® inverters in lieu of installed Battery Pack, contact your Representative.
[7] Provides ends with wiring access for continuous row mounting.
[8] Not available with VL Lumen Output.
[9] Not available with ELL14 option.

Damp Label - standard

IC Rating - standard

Protected by US Patents D603,999; D604,446.
Additional US and Canada Patents Pending.
Specifications subject to change without notice.

ACCESSORIES (ORDER SEPARATELY)

- **FK22** 2' ×2' Single Flange Kit
- **FKCR** Flange Kit Row Adaptor
- **CM48Y2SC3F-KIT** 43" Cable Mount Kit for 2' wide CM ceiling type, 3-Wire Feed Cord

PRODUCT AVAILABILITY

SIZE	LUMEN PACKAGE	NOMINAL LUMENS	NOMINAL WATTS	LUMENS PER WATT
2'x2'	VW	1498-1615	13	119
	MW	2001-2157	17	120
	LW	2598-2801	23	118
	ML	3299-3556	30	116
	HL	3722-3880	33	115
	VL	4393-4735	42	109

Lumens vary according to color temperatures and other factors. See specific photometric tests.

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PHOTOMETRIC DATA

Test **14.00501** Test Date **10/08/2014**

LUMINAIRE DATA

Luminaire	**LEPC22-40LWG-LL-EDU** **LEPC Epoc LED Full Distribution, Recessed Architectural** **2 x 2 LED with frosted linear prismed lenses**
Ballast	**D700C30UNVTZ-C**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**2913**
Watts	**24.90**
Shielding Angle	**0° = 0 90° = 0**
Spacing Criterion	**0° = 1.16 90° = 1.24**
Luminous Opening in Feet	**Length: 1.83** **Width: 1.83** **Height: 0.00**

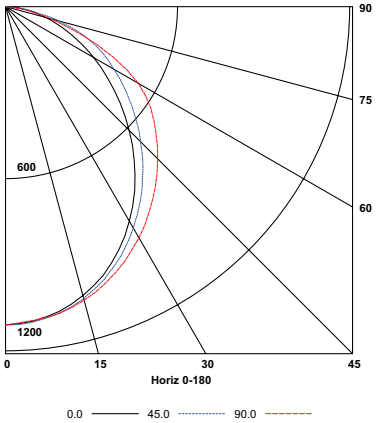
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	842	28.9	28.9
0-40	1357	46.6	46.6
0-60	2340	80.3	80.3
0-90	2913	100.0	100.0
0-180	2913	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**117**
ANSI/IESNA RP-1-2004 COMPLIANCE	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.05 based on 3000 hrs. and $0.08 per KWH**

INDOOR CANDELA PLOT



Test **14.00500** Test Date **10/08/2014**

LUMINAIRE DATA

Luminaire	**LEPC22-40MLG-LL-EDU** **LEPC Epoc LED Full Distribution, Recessed Architectural** **2 x 2 LED with frosted linear prismed lenses**
Ballast	**D700C30UNVTZ-C**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**3362**
Watts	**29.20**
Shielding Angle	**0° = 90 90° = 90**
Spacing Criterion	**0° = 1.16 90° = 1.24**
Luminous Opening in Feet	**Length: 1.83** **Width: 1.83** **Height: 0.00**

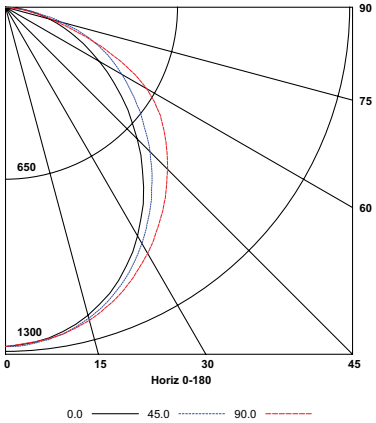
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	972	28.9	28.9
0-40	1567	46.6	46.6
0-60	2701	80.3	80.3
0-90	3362	100.0	100.0
0-180	3362	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**115**
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



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LUMINAIRE DATA

Luminaire	**LEPC22-40HLG-LL-EDU** **LEPC Epoc LED Full Distribution, Recessed Architectural** **2 x 2 LED with frosted linear prismed lenses**
Ballast	**D10CC55UNVT-C**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**3981**
Watts	**35.40**
Shielding Angle	**0° = 90 90° = 90**
Spacing Criterion	**0° = 1.17 90° = 1.25**
Luminous Opening in Feet	**Length: 1.83** **Width: 1.83** **Height: 0.00**

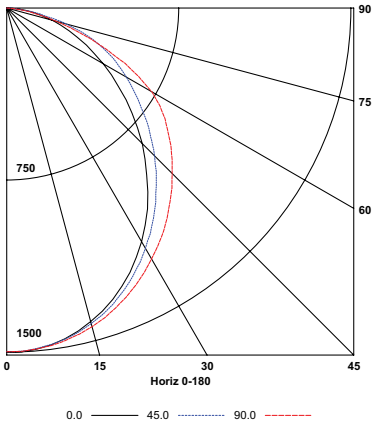
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1141	28.6	28.6
0-40	1842	46.3	46.3
0-60	3186	80.0	80.0
0-90	3981	100.0	100.0
0-180	3981	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**112**
ANSI/IESNA RP-1-2004 COMPLIANCE	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.11 based on 3000 hrs. and $0.08 per KWH**

INDOOR CANDELA PLOT



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Columbia LIGHTING

LEPC22

2' × 2' LED, e•poc® Full Distribution Luminaire

PHOTOMETRIC DATA

Test **14.00545** Test Date **10/17/2014**

LUMINAIRE DATA

Luminaire	**LEPC22-40VLG-LL-EDU** **LEPC Epoc LED Full Distribution, Recessed Architectural** **2 x 2 LED with frosted linear prismed lenses**
Ballast	**D10CC55UNVT-C**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**4559**
Watts	**41.10**
Shielding Angle	**0° = 90 90° = 90**
Spacing Criterion	**0° = 1.17 90° = 1.25**
Luminous Opening in Feet	**Length: 1.83** **Width: 1.83** **Height: 0.00**

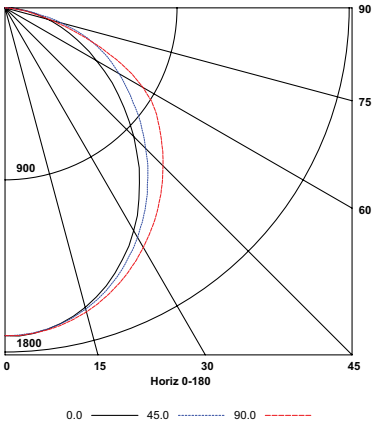
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1306	28.6	28.6
0-40	2109	46.3	46.3
0-60	3647	80.0	80.0
0-90	4559	100.0	100.0
0-180	4559	100.0	100.0

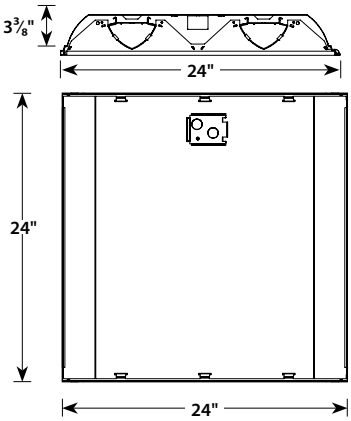
ENERGY DATA

Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**111**
ANSI/IESNA RP-1-2004 COMPLIANCE	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.16 based on 3000 hrs. and $0.08 per KWH**

INDOOR CANDELA PLOT

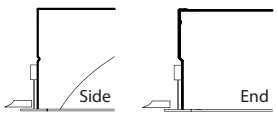


DIMENSIONAL DATA - GRID



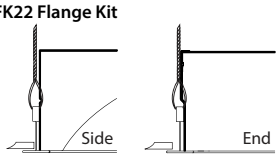
CEILING COMPATIBILITY

Type G



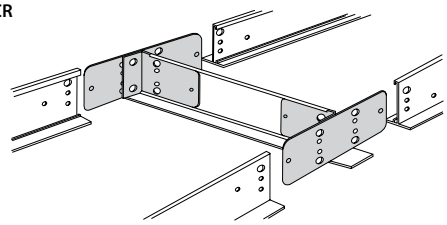
For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 2" allowed.

FK22 Flange Kit



For hard ceiling applications, order FK22 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.

FKCR

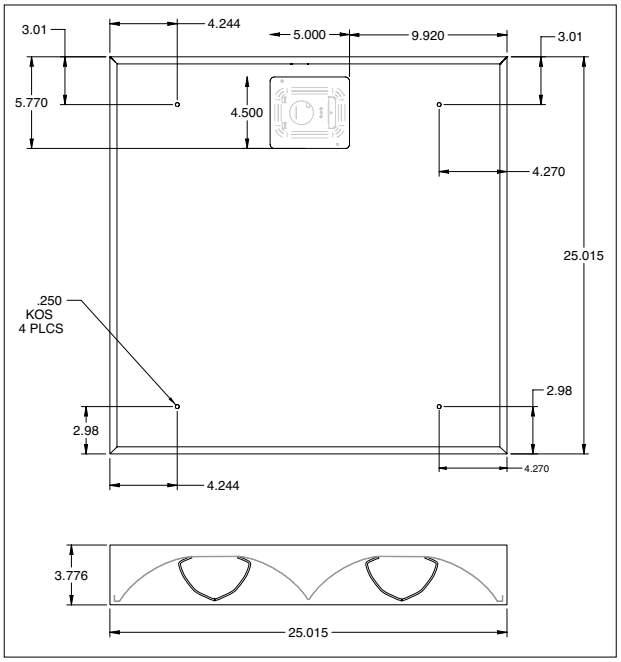


For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK22 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK22 & (1) FKCR)

Row cut out dimensions using FK22s & FKCR adapters:
Width 24⅜", Length [24" × (# in row)] + ⅜".
Example: (24" × 2) + ⅜" = 26⅜"

Flange kit cut out dimension for single unit only: 24⅜" × 24⅜"

DIMENSIONAL DATA - SURFACE MOUNT



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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