Columbia LIGHTING

LJL
2' × 2', High Lumen LED Troffer

PROJECT INFORMATION

Project Name

Catalog No.

Type

Date

createchange

FEATURES

- High lumen LED troffer
- 7,775 to 14,750 nominal lumens
- Attractive, custom formulated Smooth Frosted Acrylic (SFA) lens eliminates LED pixilation
- Long life LEDs rated 60,000 hours at L80 with over 100,000 hours projected for reduced life cycle maintenance costs
- Four LED color options for retail, health care, office and education
- Fixed output, or 0-10V dimming drivers
- Two door frame choices
- Metal to metal light leak protection on all four sides of shielding frame
- Hinged optical system allows easy access to LED modules and electrical from below the ceiling
- Controls friendly
- Compatible with Hubbell Lighting Dual-Lite inverters
- DLC® (DesignLights Consortium) Qualified - see www.designlights.org
- Five year warranty

CONSTRUCTION
Luminaire housing, end caps, and reflectors are die-formed code-gauge cold-rolled steel. Optical system hinges from either side for easy access to LED module and electrical components. Mechanical light trap prevents light leaks.

FINISH
All metal parts processed with a multi-stage phosphate bonding treatment and finished with a high reflectance baked white enamel.

SHIELDING
Shielding is smooth frosted acrylic designed to provide optimal light transmissions while minimizing the view of LEDs through the lens.

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
Designed for recessed installation in standard inverted tee grid ceilings (G), recessed installation in hard ceilings (G with FK accessory), or cable mount suspension below ceiling plane (CM); not available as surface mount. For compatibility with specific ceilings contact your Hubbell Lighting representative. Grid mount preferred. Must have above ceiling access for hard ceilings.

CERTIFICATION
All luminaires are built to UL 1598 and 2108 standards, and bear appropriate CSA labels. Damp location labeling is standard. Emergency equipped fixtures labeled UL924. Adheres to LM79, LM80 and TM21 industry standards. DLC® (DesignLights Consortium) Qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org.

WARRANTY
Five year warranty. (Terms and Conditions apply)

ORDERING INFORMATION

EXAMPLE LJL22-35HLG-FSSFA-EU

LJL | 22 | – | | – | SFA | – | | –

MODEL	COLOR TEMP	CEILING TYPE	SHIELDING	DRIVER	VOLTAGE	OPTIONS
LJL High Lumen LED Lensed Troffer	**30** 3000K **35** 3500K **40** 4000K **50** 5000K	**G** Grid[1] **CM** Cable Mount[2]	**SFA** Smooth Frosted Acrylic Lens, 0.080" Nominal	**E** Fixed Output **ED** 0-10V Dimming	**U** 120V-277V **347** 347V **480** 480V	**C388** 3-Wire Flex **C488** 4-Wire Flex **C588** 5-Wire Flex **TB4** (4) Bulk T-Bar Clips **ELL14** Emergency Battery Pack Installed, 1400 Lumens[3,4] **GLR** Fast Blow Fuse **G1** Single Gasketing (Door to Housing) **G2** Double Gasketing (G1 and Lens to Door) **G3** Triple Gasketing (G2 and Housing to Ceiling) **CP** Chicago Plenum

SIZE	LUMEN OUTPUT	DOOR
22 2' × 2'	**HL** High Lumen **VL** Very High Lumen *See Product Availability Table below*	**FS** White Flush Steel **FA** White Flush Aluminum *For more door options contact factory.*

[1] For hard ceilings use flange kit accessory; must have above ceiling access.

[2] Order hanger accessories separately.

[3] For compatibility with Dual-Lite LiteGear® inverters in lieu of installed battery pack, contact Hubbell Lighting Representative.

[4] Not available with Cable Mount.

[5] In-Fixture Module Antenna adds 2" to overall fixture height at power feed location.

Damp label—standard.

PRODUCT AVAILABILITY

SIZE	OUTPUT	NOMINAL LUMENS	NOMINAL WATTS	EFFICACY
2' x 2'	HL	7,795-8,300	69	112-120
2' x 2'	VL	13,885-14,785	133	101-111

Actual lumens will vary according to color temperature and shielding. For exact lumens and watts see specific photometric test(s).

ACCESSORIES (ORDER SEPARATELY)

FK22 2' × 2' Single Flange Kit

CM48Y2SC3F-KIT 48" Cable Mount Kit for 2' wide CM ceiling type, 3 Wire Feed Cord

HUBBELL Lighting

PHOTOMETRIC DATA

LUMINAIRE DATA

Luminaire	LJL22-35HLG-FSSFA-EDU
	LJL 2x2 LED High Lumen Troffer w/ SFA Frosted Lens
Ballast	**EDU**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**7931**
Watts	**61.20**
Shielding Angle	**0º = 90 90º = 90**
Spacing Criterion	**0º = 1.16 90º = 1.16**
Luminous Opening in Feet	**Length: 1.81 Width: 1.81 Height: 0.00**

ZONAL LUMEN SUMMARY

Zone	Lumens	Lamp	Fixt.
0-30	2440	30.8	30.8
0-40	3892	49.1	49.1
0-60	6498	81.9	81.9
0-90	7931	100.0	100.0
0-180	7931	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	**100.0**
Total Lumens per Watt	**130**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$1.85 based on 3000 hrs. and $0.08 per KWH**

INDOOR CANDELA PLOT

0.0 — 45.0 — 90.0
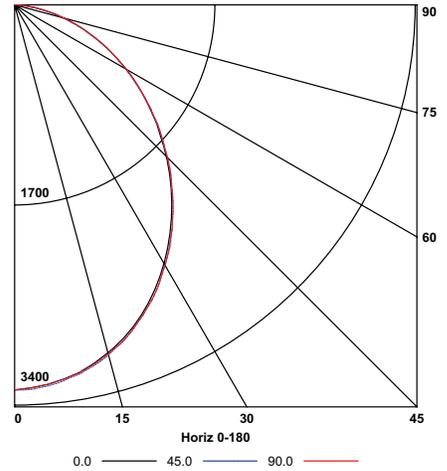
PHOTOMETRIC DATA

LUMINAIRE DATA

Luminaire	LJL22-40HLG-FSSFA-EDU
	LJL 2x2 LED High Lumen Troffer w/ SFA Frosted Lens
Ballast	**EDU**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**8033**
Watts	**61.20**
Shielding Angle	**0º = 90 90º = 90**
Spacing Criterion	**0º = 1.16 90º = 1.17**
Luminous Opening in Feet	**Length: 1.81 Width: 1.81 Height: 0.00**

ZONAL LUMEN SUMMARY

Zone	Lumens	Lamp	Fixt.
0-30	2472	30.8	30.8
0-40	3942	49.1	49.1
0-60	6581	81.9	81.9
0-90	8032	100.0	100.0
0-180	8032	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	**100.0**
Total Lumens per Watt	**131**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$1.82 based on 3000 hrs. and $0.08 per KWH**

INDOOR CANDELA PLOT

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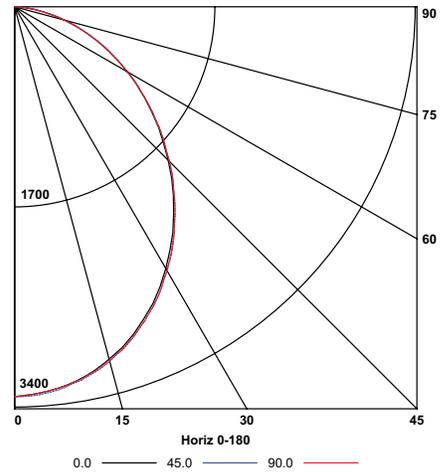
PHOTOMETRIC DATA

LUMINAIRE DATA

Luminaire	LJL22-35VLG-FSSFA-EDU
	LJL 2x2 LED High Lumen Troffer w/ SFA Frosted Lens
Ballast	**EDU**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**14132**
Watts	**117.90**
Shielding Angle	**0º = 90 90º = 90**
Spacing Criterion	**0º = 1.16 90º = 1.17**
Luminous Opening in Feet	**Length: 1.81 Width: 1.81 Height: 0.00**

ZONAL LUMEN SUMMARY

Zone	Lumens	Lamp	Fixt.
0-30	4348	30.8	30.8
0-40	6934	49.1	49.1
0-60	11576	81.9	81.9
0-90	14132	100.0	100.0
0-180	14132	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	**100.0**
Total Lumens per Watt	**120**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.00 based on 3000 hrs. and $0.08 per KWH**

INDOOR CANDELA PLOT

0.0 — 45.0 — 90.0

HUBBELL · **HUBBELL Lighting**
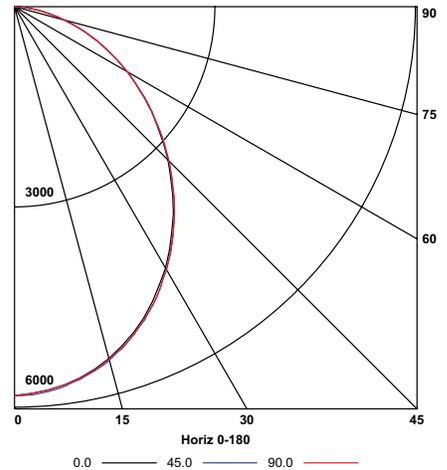
PHOTOMETRIC DATA

LUMINAIRE DATA

Luminaire	**LJL22-40VLG-FSSFA-EDU**
	LJL 2x2 LED High Lumen Troffer w/ SFA Frosted Lens
Ballast	**EDU**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**14313**
Watts	**117.90**
Shielding Angle	**0° = 90 90° = 90**
Spacing Criterion	**0° = 1.16 90° = 1.17**
Luminous Opening in Feet	**Length: 1.81** **Width: 1.81** **Height: 0.00**

ZONAL LUMEN SUMMARY

Zone	Lumens	Lamp	Fixt.
0-30	4404	30.8	30.8
0-40	7023	49.1	49.1
0-60	11724	81.9	81.9
0-90	14313	100.0	100.0
0-180	14313	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	**100.0**
Total Lumens per Watt	**121**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$1.98 based on 3000 hrs. and $0.08 per KWH**

INDOOR CANDELA PLOT

Horiz 0-180

0.0 ——— 45.0 ——— 90.0 ———

HUBBELL Lighting

DIMENSIONAL DATA

LJL22

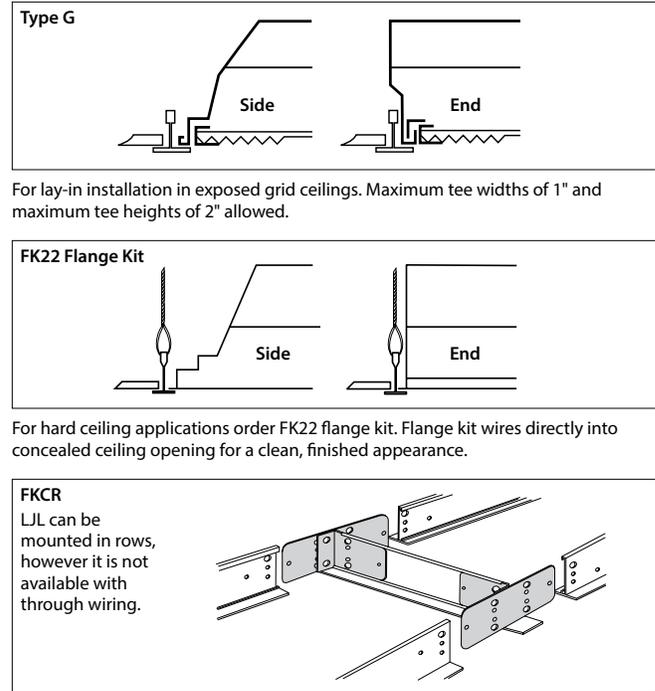**A** - 7/8" Knockouts provided in access plate. 2" × 3" through hole for access plate for power connection.
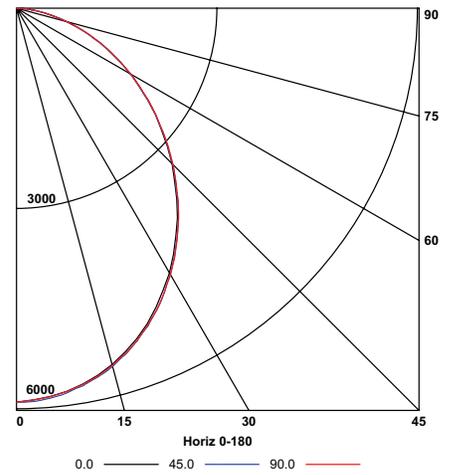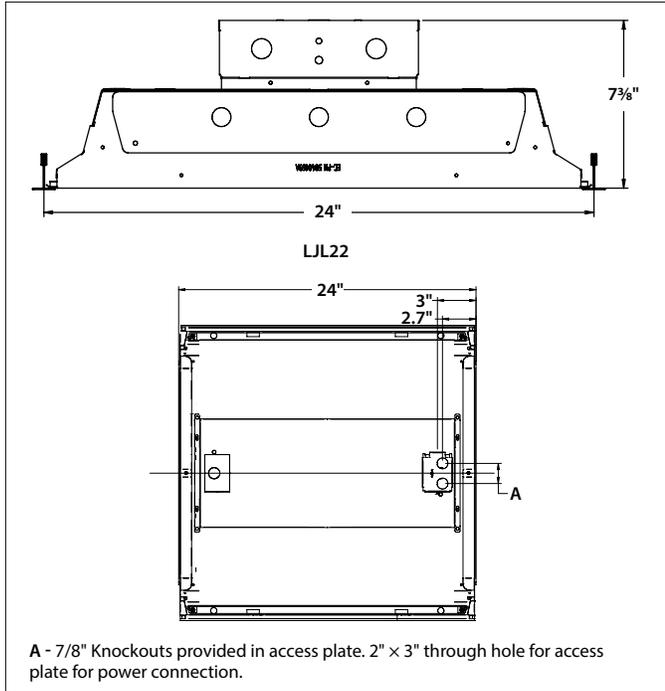
NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

CEILING COMPATIBILITY

Type G

Side   **End**

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

FK22 Flange Kit


Side   **End**

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

FKCR
LJL can be mounted in rows, however it is not available with through wiring.

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 FK22 & FKCR adapters:
Width 24⅜", Length [24" × (# in row)] + ¾". Example: (24" × 2) + ⅜"= 48⅜"
Flange kit rough in dimensions for single unit only: 24⅜" × 24⅜"

DIMENSIONAL DATA - CABLE MOUNT (CM)
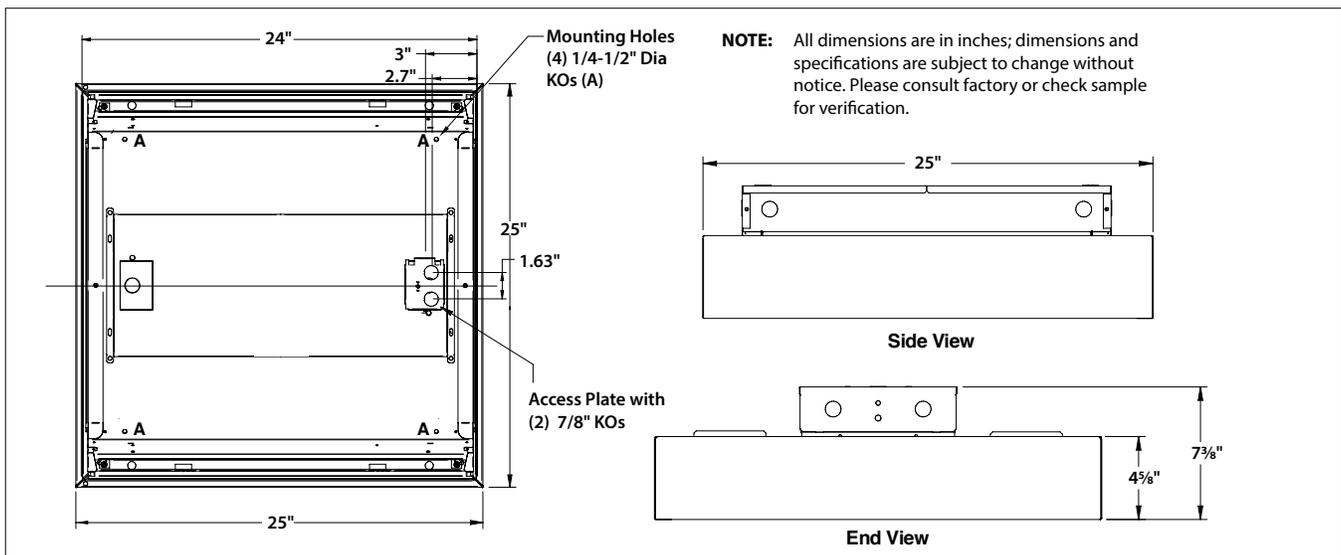
Mounting Holes (4) 1/4-1/2" Dia KOs (A)

Access Plate with (2) 7/8" KOs

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

Side View

End View

CABLE MOUNT

Order CM ceiling type**.** Access plate supplied for cable mounting or suspension. Use CM48Y2C3F-KIT 48" cable mount kit. Includes 3 wire feed cord. For other wiring needs, contact Hubbell Lighting representative. Mounting knock-outs, ¼" to ½", provided as shown, marked "A".

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