Columbia LIGHTING

RLA22
2' × 2', Recessed LED Architectural Luminaire

LED

createchange

DLC QPL LISTED
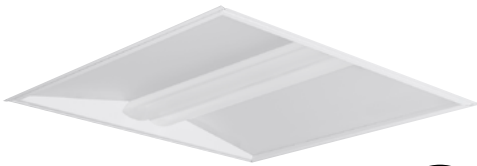
FEATURES

- Architecturally enhanced lens design
- Up to 113 lumens per watt
- Long-life, 60,000 hour LEDs at L80 (80% lumen maintenance) reduce life cycle maintenance costs
- Superior color consistency within a 3-step MacAdam ellipse and greater than 83 CRI
- Lens design and materials provide uniform appearance without pixilation
- Modular replaceable solid-state components
- Dimming driver down to 1% optional
- Most configurations produce low W/ft2 to meet the most restrictive lighting power density codes
- QR code traceability
- DLC® (DesignLights Consortium) Qualified - see www.designlights.org
- Five year warranty

CONSTRUCTION
Housing is constructed of heavy gauge steel, die formed for extra rigidity. Four T-bar clips integral to housing. Optical system hinges and latches from either side for easy access to LED module and electrical components. Latches are spring loaded.

FINISH
All visible parts are provided with a white powder coat finish.

SHIELDING
Lenses are high transmission frosted acrylic with an interlocking design for structural integrity and ease of maintenance.

INSTALLATION
An access plate or mounting collar is furnished with luminaire 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), Surface mount at ceiling plane (SM) or cable mount suspension below ceiling plane (CM). For compatibility with specific ceilings contact your Hubbell Lighting representative.

CERTIFICATION
All luminaires are built to UL1598 and 2108 standards, and bear appropriate CSA labels. Damp location labeling is standard. CSA certified to UL 924 standards with battery pack or DTS (Dimming Bypass Module) options. Adheres to LM79, LM80 and TM21 standards. IC rating standard   except with thru-wiring. DLC® (DesignLights Consortium) Qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org. UL Sanitation Approved. The DTS, Dimming Bypass Module, is for emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. See page 3 for wiring diagram. Link to Dimming Bypass Module Specification sheet.

WARRANTY
Five year warranty (Terms and Conditions apply).

ORDERING INFORMATION

RLA   22 –   –   –

MODEL	COLOR TEMP	LUMEN OUTPUT	CEILING TYPE	DRIVER	VOLTAGE	OPTIONS
RLA Recessed LED Architectural Luminaire	30 3000K 35 3500K 40 4000K 50 5000K	LW Low Watt ML Medium Lumen HL High Lumen VL Very High Lumen	G Grid[1] SM Surface Mount CM Cable Mount[2]	E Fixed Output ED 0-10V Dimming ED1 0-10V 1% Dimming ESD Step Dimming LUTH Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology[3] LUT5 5-Series EcoSystem LED driver[3]	U 120V-277V 347 347V (E,ED,ED1 only)	ELL14 Emergency Battery Pack Installed, 1400 Lumens[4] DTS Dimming Bypass Module[5] C388 3-Wire Flex C488 4-Wire Flex C588 5-Wire Flex GLR Fast Blow Fuse EOR End of Row (SM and CM only)[6] INT Intermediate (SM and CM only)[6] CP Chicago Plenum

SIZE
22 2' × 2'

ACCESSORIES (ORDER SEPARATELY)

FK22 2' × 2' Flange Kit, Single Mounting (for rows add FKCR)

FKCR Flange Kit Row Adaptor

CM 48Y2SC3F-KIT 48" Cable Mount Kit for 2' wide Cable Mount Fixtures, 3-Wire

[1] For drywall order Flange Kit accessories separately.

[2] Order hanger accessories separately.

[3] Not available with VL package.

[4] For compatibility with Dual-Lite LiteGear® inverters in lieu of installed Battery Pack, contact Hubbell Lighting Representative.

[5] For emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. Only available with 0-10V drivers. Universal voltage only. See page 3 for wiring diagram

[6] Provides ends with wiring access for continuous row mounting.

Damp Label - standard

PRODUCT AVAILABILITY				
SIZE	OUTPUT	NOMINAL LUMENS	NOMINAL WATTS	EFFICACY
2' x 2'	LW	2,450-2,650	27	91-98
	ML	3,200-3,470	37	86-94
	HL	3,540-3,840	41	86-94
	VL	4,380-4,750	42	104-113

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

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PHOTOMETRIC DATA

Test **15.00213** Test Date **2/05/2015**

LUMINAIRE DATA

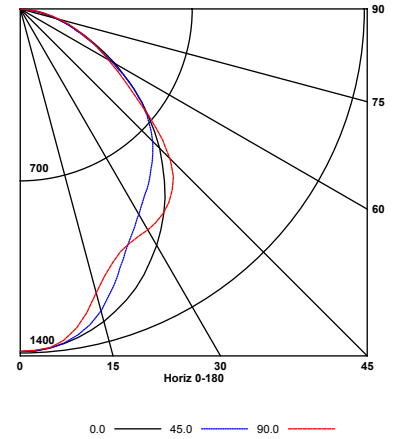| Luminaire	RLA22-30MLX-EDU, RLA Led, Recessed Architectural 2x2 recessed LED architectural Luminaire
Ballast	D15CC55UNVT-C
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	3202
Watts	36.90
Mounting	Recessed
Shielding Angle	0º = 90 90º = 90
Spacing Criterion	0º = 1.19 90º = 1.10
Luminous Opening in Feet	Length: 1.83 Width: 1.79 Height: 0.00

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	991	30.9	30.9
0-40	1589	49.6	49.6
0-60	2673	83.5	83.5
0-90	3202	100.0	100.0
0-180	3202	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	**100%**
Total Lumens Per Watt	**87**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.76 based on 3000 hrs. and $0.08 per KWH**

0.0 —— 45.0 ·········· 90.0 ——

Test **15.00215** Test Date **2/05/2015**

LUMINAIRE DATA

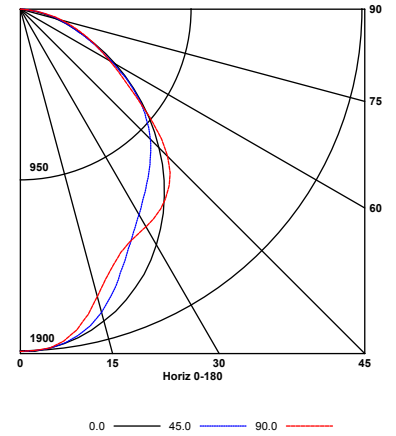| Luminaire	RLA22-30VLX-EDU, RLA Led, Recessed Architectural 2x2 recessed LED architectural Luminaire
Ballast	D15CC55UNVT-C
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	4382
Watts	56.90
Mounting	Recessed
Shielding Angle	0º = 90 90º = 90
Spacing Criterion	0º = 1.18 90º = 1.09
Luminous Opening in Feet	Length: 1.83 Width: 1.79 Height: 0.00

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1358	31.0	31.0
0-40	2169	49.5	49.5
0-60	3644	83.1	83.1
0-90	4382	100.0	100.0
0-180	4382	100.0	100.0

ENERGY DATA

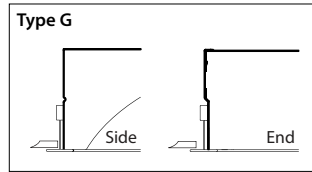| Total Luminaire Efficiency	**100%**
Total Lumens Per Watt	**77**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$3.12 based on 3000 hrs. and $0.08 per KWH**

0.0 —— 45.0 ·········· 90.0 ——

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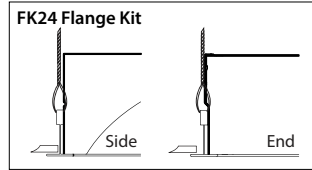## DIMENSIONAL DATA - GRID
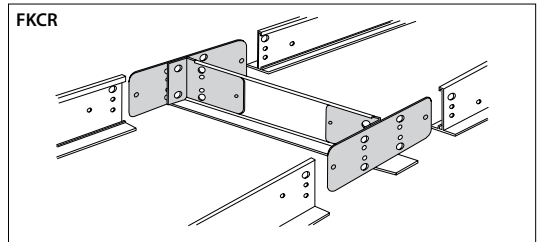

4⁵⁄₁₆"

24"

24"

24"

CEILING COMPATIBILITY

Type G

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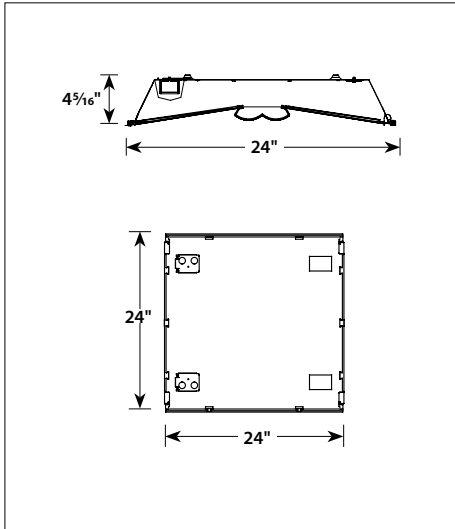
For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 2" allowed.

FK24 Flange Kit

Side   End

For hard ceiling applications, order FK24 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.
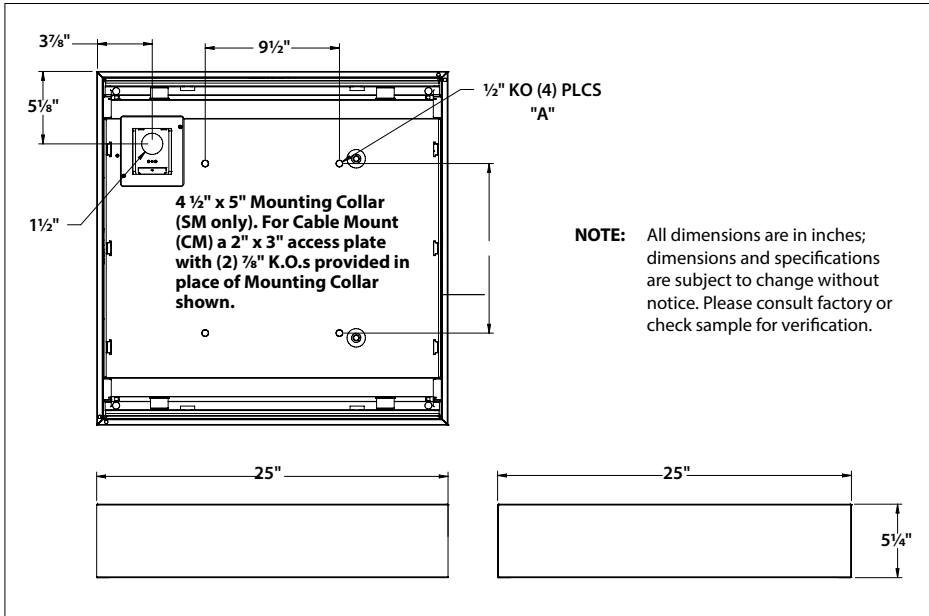
FKCR

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 243/8", Length [24" × (# in row)] + 3/8".
Example: (24" × 2) + 3/8" = 483/8"

Flange kit cut out dimension for single unit only: 24 3/8" × 24 3/8"

DIMENSIONAL DATA - SURFACE MOUNT

3⁷⁄₈"

9½"

5⅛"

½" KO (4) PLCS "A"

1½"

4 ½" x 5" Mounting Collar (SM only). For Cable Mount (CM) a 2" x 3" access plate with (2) ⅞" K.O.s provided in place of Mounting Collar shown.

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.
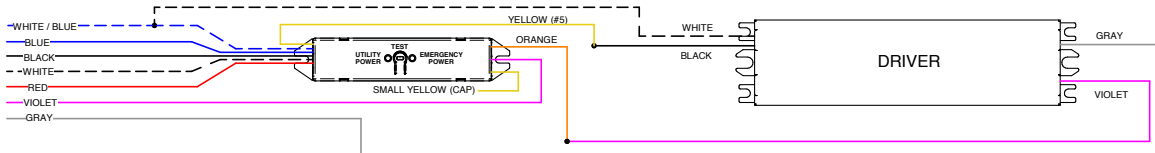
25"

25"

5¼"

SURFACE MOUNT

Order SM ceiling type. Mounting collar required for surface mounting. (4) Mounting knock outs, ¼" to ½" provided as shown, marked "A".

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 representative. Mounting knock-outs, ¼" to ½", provided as shown, marked "A".

DTS WIRING DIAGRAM (0−10V DIMMING DRIVER SHOWN)

WHITE / BLUE
BLUE
BLACK
WHITE
RED
VIOLET
GRAY

UTILITY POWER   TEST   EMERGENCY POWER

YELLOW (#5)
ORANGE
SMALL YELLOW (CAP)

WHITE
BLACK

DRIVER

GRAY

VIOLET

WHITE/BLUE	Emergency Neutral
BLUE	Emergency Line
BLACK	Utility Line (Unswitched Hot)
WHITE	Utility Neutral
RED	Switched Hot
VIOLET	Dimming
GRAY	Dimming

DTS Integration Guide

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