Columbia LIGHTING

LSER14
1' × 4' Serrano® LED Architectural Luminaire

LED

DLC QPL LISTED

createchange

FEATURES
- Architecturally enhanced triple lens design
- Up to 121 lumens per watt
- Long-life, 50,000 hour LEDs at L80 (80% lumen maintenance) reduce life cycle maintenance costs
- Four LED Color Choices
- Seven Lumen Packages
- Superior color consistency within a 3-step MacAdam ellipse and greater than 80 CRI
- Rigorous testing and QR code record
- Lens design and materials provide uniform appearance without pixilation
- Full distribution provides controlled high angle light for visual comfort and more inviting spaces
- Hinged optical system allows easy access to lamps and electrical from below the ceiling
- Lenses interlock for structural integrity
- Two optional lens aesthetics
- Most configurations produce low W/ft^2 to meet the most restrictive lighting power density codes
- 2' x 4' and 2' x 2' companion fixtures available
- DesignLights Consortium® (DLC) qualified; see www.designlights.org

HUBBELL SUSTAINABLE DESIGN SOLUTION FEATURES*
- Made with 90% recycled steel
- Made of 80% recyclable materials by weight
- Job pack available for minimizing amount of packaging material at job site
- Individual cartons made of 100% recycled corrugated
  *Please go to www.hubbell.com/recovery/hsi/hsi.htm for Hubbell Sustainable Design Solutions Feature Criteria.

PROJECT INFORMATION

Project Name

Catalog No.

Type

Date

CONSTRUCTION
Housing is constructed of heavy gauge steel, die formed for extra rigidity. Optical system hinges and latches from either side for easy access to LED module and electrical components. Mechanical light trap prevents light leaks. Latches are spring loaded. Optional integrated sensor(s) are placed within luminous opening and do not interfere with hinging and latching mechanisms.

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 with an interlocking design for structural integrity and ease of maintenance. Optional integrated sensors are placed in an architecturally styled lens opening at one or both ends of the luminaire.

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. Emergency equipped fixtures labeled UL924. Adheres to LM79, LM80 and TM21 standards. IC rating is standard on all models (Does not apply to thru-wiring). 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).

ORDERING INFORMATION

LSER 14 – – – – –

MODEL	COLOR TEMP	LUMEN OUTPUT	CEILING TYPE	SHIELDING	DRIVER	VOLTAGE	OPTIONS
LSER Serrano® LED Recessed Architectural Luminaire	**30** 3000K **35** 3500K **40** 4000K **50** 5000K	**XW** Extra Low Watt **VW** Very Low Watt **MW** Medium Low Watt **LW** Low Watt **ML** Medium Lumen **HL** High Lumen **VL** Very High Lumen	**G** Grid[1] **SM** Surface Mount **CM** Cable Mount[2]	**C** Contour **R** Rail	**E** Fixed Output **ESD** Step Dimming **ED** 0-10V Dimming **ED1** 0-10V Dimming to 1% **EDD** 0-10V Dimming, Dim to Dark[4] **LUTH** Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology[7] **LUTH5** 5-Series EcoSystem LED driver[7]	**U** 120V-277V **347** 347V	**C388** 3-Wire Flex **C488** 4-Wire Flex **C588** 5-Wire Flex **ELL14** Emergency Battery Pack Installed, 1400 Lumens[3] **GLR** Fast Blow Fuse **NYC** NYC Compliant **EOR** End of Row (SM and CM only)[5] **INT** Intermediate (SM and CM only)[5] **ODP** Occupancy and Daylight Sensors, Philips[5] **DP** Daylight Sensor, Philips[5] **DPO** Daylight Sensor with Dim-to-Off, Philips[6] **ODW** Occupancy and Daylight Sensors, WattStopper[6] **DW** Daylight Sensor, WattStopper[6] **OW** Occupancy Sensor, WattStopper[6] **CP** Chicago Plenum

SIZE
14 1' × 4'

ACCESSORIES (ORDER SEPARATELY)

FK14	1' × 4' Flange Kit, Single Mounting (for rows add FKCR)
FKCR	Flange Kit Row Adaptor
CM 48Y1SC3F-KIT	48" Cable Mount Kit for 1' wide Cable Mount Fixtures, 3-Wire
WSR	WattStopper Sensor Commissioning Remote[5]
WSOR	WattStopper Sensor Occupant Remote[5]

[1] For drywall, order G with Flange Kit Accessory.
[2] Order hanger accessories separately.
[3] For compatibility with Dual-Lite LiteGear® inverters in lieu of installed Battery Pack, contact Hubbell Lighting Representative.
[4] 50 Watt and Below
[5] Provides ends with wiring access for continuous row mounting.
[6] For details, see Sensors table on page 3.
[7] Not avaliable on VLor XL

Damp Label - standard

LED / **LSER14**

Latest Technology Columbia LIGHTING SERRANO LED

HUBBELL Lighting

Product Availability			
Lumen Package	**Lumens**	**Watts**	**Efficacy**
LSER14-30XWG-C-EU	2080	19.6	106
LSER14-35XWG-C-EU	2143	19.6	109
LSER14-40XWG-C-EU	2176	19.6	111
LSER14-50XWG-C-EU	2370	19.6	121
LSER14-30VWG-C-EU	2803	26.8	105
LSER14-35VWG-C-EU	2888	26.8	108
LSER14-40VWG-C-EU	2932	26.8	109
LSER14-50VWG-C-EU	3193	26.8	119
LSER14-30MWG-C-EU	3167	30.6	104
LSER14-35MWG-C-EU	3262	30.6	107
LSER14-40MWG-C-EU	3313	30.6	108
LSER14-50MWG-C-EU	3607	30.6	118
LSER14-30LWG-C-EU	3436	34	101
LSER14-35LWG-C-EU	3539	34	104
LSER14-40LWG-C-EU	3594	34	106
LSER14-50LWG-C-EU	3913	34	115
LSER14-30MLG-C-EU	4132	42.8	97
LSER14-35MLG-C-EU	4256	42.8	99
LSER14-40MLG-C-EU	4322	42.8	101
LSER14-50MLG-C-EU	4707	42.8	110
LSER14-30HLG-C-EU	4829	50.3	96
LSER14-35HLG-C-EU	4974	50.3	99
LSER14-40HLG-C-EU	5051	50.3	100
LSER14-50HLG-C-EU	5501	50.3	109
LSER14-30VLG-C-EU	6001	58.8	102
LSER14-35VLG-C-EU	6181	58.8	105
LSER14-40VLG-C-EU	6277	58.8	107
LSER14-50VLG-C-EU	6835	58.8	116

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PHOTOMETRIC DATA

Test **16685** Test Date **9/14/16**

LUMINAIRE DATA

Luminaire	LSER14-35HLG-C-EU
	LSER Serrano LED, Recessed Architectural
	1 x 4 LED with Contour center lens and frosted linear prismed side lenses
Ballast	**XI054C150V054BST1**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**4974**
Watts	**50.30**
Mounting	**Recessed**
Shielding Angle	**0º = 90 90º = 90**
Spacing Criterion	**0º = 1.19 90º = 1.26**
Luminous Opening in Feet	**Length: 3.83**
	Width: 0.83
	Height: 0.00

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1452	29.2	29.2
0-40	2353	47.3	47.3
0-60	4043	81.3	81.3
0-90	4974	100.0	100.0
0-180	4974	100.0	100.0

AVG. LUMINANCE (Candela/Sq. M.)
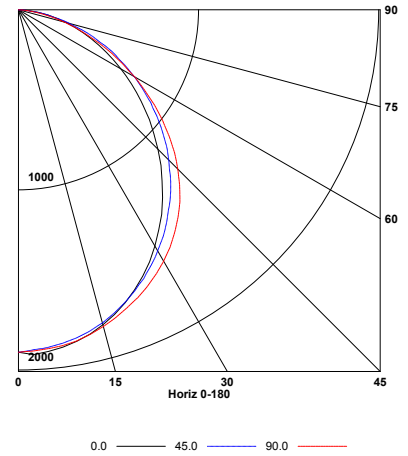
Average Luminance Angle		0.0	22.5	45.0	67.5	90.0
	0	6437	6437	6437	6437	6437
	30	5920	5912	6041	6244	6299
	40	5481	5521	5813	6078	6162
	45	5244	5306	5651	5947	5991
	50	4999	5078	5478	5752	5752
	55	4711	4835	5289	5472	5443
	60	4449	4585	5025	5140	5045
	65	4150	4327	4767	4743	4575
	70	3861	4019	4396	4198	4000
	75	3532	3663	3833	3650	3480
	80	3217	3334	3237	2866	2691
	85	2720	2448	2098	1904	1787

INDOOR CANDELA PLOT

0.0 —— 45.0 —— 90.0 ——

LUMINAIRE DATA

Test **16678** Test Date **8/30/16**

Luminaire	LSER14-35LWG-C-EU
	LSER Serrano LED, Recessed Architectural
	1 x 4 LED with Contour center lens and frosted linear prismed side lenses
Ballast	**XI040C110V054BPT1**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**3539**
Watts	**34.00**
Mounting	**Recessed**
Shielding Angle	**0º = 90 90º = 90**
Spacing Criterion	**0º = 1.19 90º = 1.26**
Luminous Opening in Feet	**Length: 3.83**
	Width: 0.81
	Height: 0.00

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1031	29.1	29.1
0-40	1672	47.3	47.3
0-60	2876	81.3	81.3
0-90	3539	100.0	100.0
0-180	3539	100.0	100.0

AVG. LUMINANCE (Candela/Sq. M.)
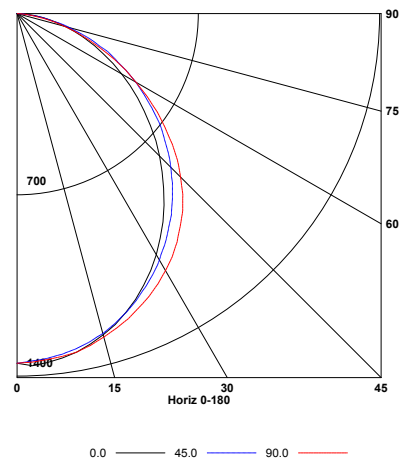
Average Luminance Angle		0.0	22.5	45.0	67.5	90.0
	0	4684	4684	4684	4684	4684
	30	4307	4307	4403	4543	4591
	40	3986	4022	4226	4448	4507
	45	3818	3871	4122	4338	4382
	50	3627	3703	3994	4205	4216
	55	3436	3521	3847	4011	3992
	60	3234	3345	3671	3747	3678
	65	3013	3144	3448	3456	3366
	70	2820	2912	3206	3084	2972
	75	2601	2695	2829	2654	2547
	80	2338	2418	2318	2078	1958
	85	1951	1752	1513	1354	1354
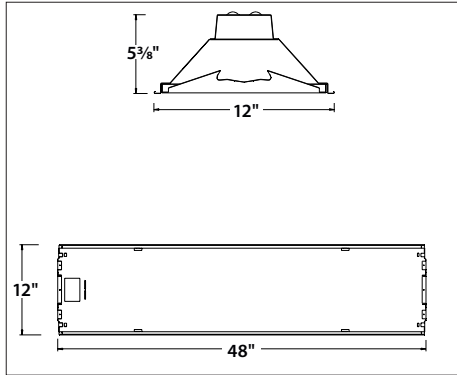
INDOOR CANDELA PLOT

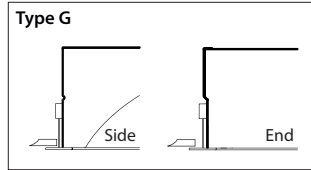0.0 —— 45.0 —— 90.0 ——

**HUBBELL** Lighting

DIMENSIONAL DATA

5⅜"
12"

12"
48"

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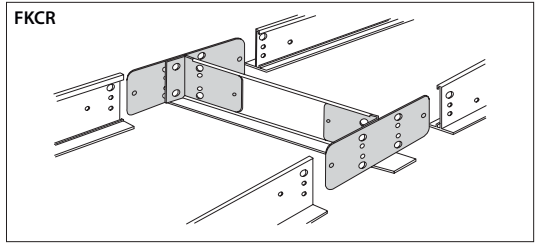
CEILING COMPATIBILITY

Type G

Side   End

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

FK14 Flange Kit

Side   End
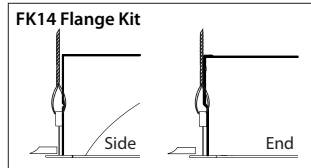
For hard ceiling applications, order FK14 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.
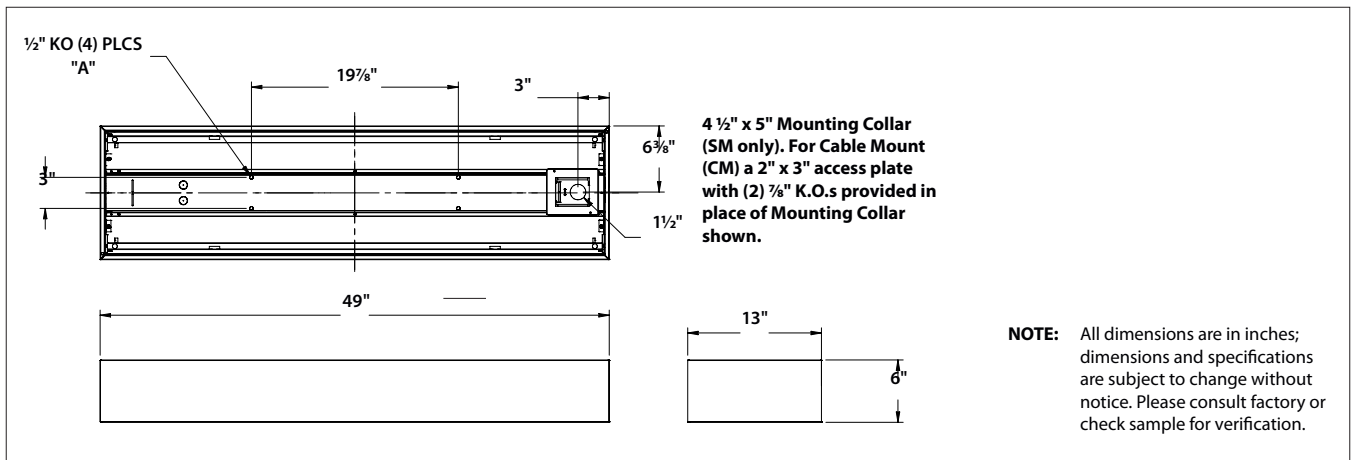
FKCR

For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK14 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK14 & (1) FKCR)

Row cut out dimensions using FK14s & FKCR adapters:
Width 12⅜", Length [48" × (# in row)] + ⅜".
Example: (48" × 2) + ⅜" = 96⅜"

Flange kit cut out dimension for single unit only: 12⅜" × 48⅜"

DIMENSIONAL DATA - SURFACE MOUNT

½" KO (4) PLCS "A"
19⅞"
3"
6⅜"
3"
1½"
49"
13"
6"

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.

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 CM48Y1C3F-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".

OPTIONAL INTEGRAL SENSORS				
CAT # SUFFIX	**SENSOR MANUFACTURER**	**SENSOR FUNCTION**	**DIM-TO-OFF DAYLIGHTING**	**POWERPACK INCLUDED IN LUMINAIRE HOUSING**
ODP	Philips	Occupancy and Daylight Sensors	No	Yes
DP	Philips	Daylight Sensor	No	No
DPO	Philips	Daylight Sensor with Dim-to-Off	Yes	Yes
ODW	WattStopper	Occupancy and Daylight Sensors	No	Yes
DW	WattStopper	Daylight Sensor	No	Yes
OW	WattStopper	Occupancy Sensor	No	Yes
OPTIONAL SENSOR HANDHELD REMOTES				
ACCESSORY	**SENSOR MANUFACTURER**	**FUNCTION**	**OPTIONAL?**	**# PER PROJECT**
WSR	WattStopper	Commissioning	Yes	1
WSOR	WattStopper	Dimming Remote	Yes	Determined by others.

Note: WSR, if selected, requires a minimum of one per project. WSOR, if selected, allows individual control; therefore the quantity needed is determined by others.

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