SECURITY LIGHTING™

Columbia LIGHTING

LSRK

Linear Strip Retrofit Kit / LED

createchange

FEATURES

- Labor-saving pre-wired assembly; ready for installation
- Replaces outdated, non-efficient strip lighting with low wattage, high lumen solutions
- 60,000 hour LEDs at L80 for reduced maintenance
- Compact size with excellent light distribution and dimming options
- Safety tether standard on all models
- Two widths available to fit most 4-4.25" or 5-5.25" channels
- Available in 4' and 8' lengths
- Optional snap-on lens with endcaps can be factory or field-installed
- Occupancy and daylight sensors available for both lensed and unlensed versions
- Battery backup available for most configurations
- DLC® (DesignLights Consortium) Qualified - see www.designlights.org
- Five year warranty (Terms and Conditions Apply)

PROJECT INFORMATION

Project Name

Type

Catalog No.

Date

CONSTRUCTION

Housing plate manufactured from code gauge cold-rolled steel. Kit includes pre-wired LED engine assembly.

SHIELDING

Optional frosted acrylic lens to eliminate pixelation. Easy to remove for access to LED module.

FINISH

All reflective surfaces are finished after fabrication with unique formula high reflectivity white paint for soft, uniform indirect illumination.

ELECTRICAL

Driver options include fixed output for on/off function, step dimming (high/low/off), or continuous 0-10V dimming. Available in 120-277V or 347V.

STRIPLIGHT COMPATIBILITY

Minimum dimension requirements are listed below. **Columbia Lighting recommends a trial installation prior to ordering project quantities.** LSRK retrofit kits are designed to fit most 4.00-4.25" and 5.00-5.25" wide striplight channels.

CERTIFICATION

All luminaires are built to UL1598 standards and bear appropriate CSA labels. Damp location labeling is standard. Emergency-equipped fixtures labeled UL 924. 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 **LSRK4-5W-35LW-FA-EDU**

LSRK – – – – –

MODEL	CHANNEL WIDTH	SIZE	COLOR TEMP	LUMEN OUTPUT	LENS	DRIVER	VOLTAGE	OPTIONS
LSRK Linear Strip Retrofit Kit	**4W** 4.25" nominal **5W** 5.00" nominal	**4** 4' **8** 8'	**30** 3000K **35** 3500K **40** 4000K **50** 5000K	**XW** Extra Low Watt[1] **VW** Very Low Watt[1] **MW** Medium Low Watt **LW** Low Watt **ML** Medium Lumen **HL** High Lumen[4] **VL** Very High Lumen[4] **XL** Extra High Lumen[2,3]	**Blank** No Lens **FA** Frosted Acrylic Lens with Endcaps	**E** Fixed Output **ED** 0-10V Dimming **ED1** 0-10V Dimming to 1% **ESD** Step Dimming **DALIP** DALI Power Bus[5]	**U** 120V-277V **347** 347V[6]	**ELL14** Emergency Battery Pack Installed, 1400 Lumens[3,4,7] **LSP** Lighting Surge Protector[6,7,8] **GLR** Fast Blow Fuse[7] **GTD** Generator Transfer Device[7] **ZRE** ControlScope® compatible[9] **ODPG** Occupancy and Daylight Sensors w/ Grouping, Philips SNS2009[10]

[1] 4ft XW, VX not offered with ESD drivers
[2] 8ft XL not offered with ESD, 347V, or Lutron drivers
[3] For XL package, battery backup not offered for ambient temps above 35°C
[4] For HL, VL package, battery backup not offered for ambient temps above 30°C
[5] DALIP only available when ODPG control option is selected
[6] Available with E, ED, or ED1 drivers only
[7] Not available in 347V
[8] Not available with ELL14 battery pack or GTD transfer device.
[9] Registered trademark of Daintree networks; used by permission.
[10] ODPG only available with DALIP driver option

ACCESSORIES (ORDER SEPARATELY)

OS1360K	Occupancy/Daylight Sensor, with 360° lens, 120/277
OS1AK	Occupancy/Daylight Sensor, with aisle lens, 120/277
LSRKFA4	4' Frosted Acrylic Lens, field installed
LSRKFA8	8' Frosted Acrylic Lens, field installed
LSRKEC	Lens Endcap, field installed
LSRKJ	Joint piece for continuous row mounting

Web: www.securitylighting.com
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SECURITY LIGHTING™

Columbia LIGHTING

LSRK

Linear Strip Retrofit Kit / LED

PRODUCT AVAILABILITY

Size	Color Temperature	Lumen Package	Lumens (with lens)	Watts	LPW
4ft	3000K	XW	2364	19.7	120.0
		VW	3066	26.7	114.8
		MW	3419	30.3	112.8
		LW	3996	32.8	121.8
		ML	4551	38.1	119.4
		HL	5262	45.5	115.6
		VL	5422	44.4	122.1
		XL	7601	68.6	110.8
	3500K	XW	2444	19.7	124.1
		VW	3170	26.7	118.7
		MW	3535	30.3	116.7
		LW	4132	32.8	126.0
		ML	4705	38.1	123.5
		HL	5440	45.5	119.6
		VL	5607	44.4	126.3
		XL	7859	68.6	114.6
	4000K	XW	2482	19.7	126.0
		VW	3219	26.7	120.6
		MW	3590	30.3	118.5
		LW	4196	32.8	127.9
		ML	4778	38.1	125.4
		HL	5525	45.5	121.4
		VL	5693	44.4	128.2
		XL	7981	68.6	116.3
	5000K	XW	2548	19.7	129.4
		VW	3305	26.7	123.8
		MW	3686	30.3	121.6
		LW	4308	32.8	131.3
		ML	4906	38.1	128.8
		HL	5672	45.5	124.7
		VL	5845	44.4	131.6
		XL	8194	68.6	119.4

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PRODUCT AVAILABILITY

Size	Color Temperature	Lumen Package	Lumens (with lens)	Watts	LPW
8ft	3000K	XW	4728	39.4	120.0
		VW	6131	53.4	114.8
		MW	6838	60.6	112.8
		LW	7992	65.6	121.8
		ML	9101	76.2	119.4
		HL	10523	91	115.6
		VL	10844	88.8	122.1
		XL	15201	137.2	110.8
	3500K	XW	4889	39.4	124.1
		VW	6340	53.4	118.7
		MW	7071	60.6	116.7
		LW	8264	65.6	126.0
		ML	9411	76.2	123.5
		HL	10881	91	119.6
		VL	11213	88.8	126.3
		XL	15718	137.2	114.6
	4000K	XW	4964	39.4	126.0
		VW	6438	53.4	120.6
		MW	7180	60.6	118.5
		LW	8392	65.6	127.9
		ML	9556	76.2	125.4
		HL	11049	91	121.4
		VL	11387	88.8	128.2
		XL	15961	137.2	116.3
	5000K	XW	5097	39.4	129.4
		VW	6610	53.4	123.8
		MW	7372	60.6	121.6
		LW	8616	65.6	131.3
		ML	9811	76.2	128.8
		HL	11344	91	124.7
		VL	11690	88.8	131.6
		XL	16387	137.2	119.4

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Columbia LIGHTING

LSRK

Linear Strip Retrofit Kit / LED

PHOTOMETRIC DATA

Test **#17.00691** Test Date **3/22/2017**

LUMINAIRE DATA

Luminaire	**LSRK4-4W-30XW-FA-EDU** **Linear LED Retrofit Kit, Striplight** **4" x 48" LED with gloss white channel cover with frosted acrylic lens**
Ballast	**XI020C056V054BST1**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**2364**
Watts	**19.70**
Mounting	**Recessed**
Shielding Angle	**0° = 90 90° = 90**
Spacing Criterion	**0° = 1.17 90° = 1.25**
Luminous Opening in Feet	**Length: 4.00** **Width: 0.25** **Height: 0.08**

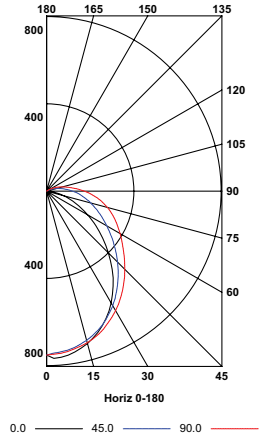
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	571	24.2	24.2
0-40	921	39.0	39.0
0-60	1592	67.3	67.3
0-90	2215	93.7	93.7
0-180	2364	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**120**
IESNA RP-1-2004 Compliance	**Non-Compliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.03 based on 3000 hrs. and $0.08 per KWH**

INDOOR CANDELA PLOT



PHOTOMETRIC DATA

Test **#17.00686** Test Date **3/21/2017**

LUMINAIRE DATA

Luminaire	**LSRK4-4W-30ML-FA-EDU** **Linear LED Retrofit Kit, Striplight** **4" x 48" LED with gloss white channel cover with frosted acrylic lens**
Ballast	**XI040C110V054BST1**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**4551**
Watts	**38.10**
Mounting	**Recessed**
Shielding Angle	**0° = 90 90° = 90**
Spacing Criterion	**0° = 1.17 90° = 1.25**
Luminous Opening in Feet	**Length: 4.00** **Width: .025** **Height: 0.08**

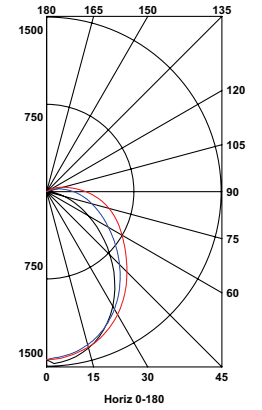
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1099	24.2	24.2
0-40	1773	39.0	39.0
0-60	3063	67.3	67.3
0-90	4261	93.6	93.6
0-180	4551	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**119**
IESNA RP-1-2004 Compliance	**Non-Compliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.00 based on 3000 hrs. and $0.08 per KWH**

INDOOR CANDELA PLOT



PHOTOMETRIC DATA

Test **#17.00633** Test Date **3/13/2017**

LUMINAIRE DATA

Luminaire	**LSRK4-4W-30XL-FA-EDU** **Linear LED Retrofit Kit, Striplight** **4" x 48" LED with gloss white channel cover with frosted acrylic lens**
Ballast	**XI040C110V054BST1**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**7601**
Watts	**68.60**
Mounting	**Recessed**
Shielding Angle	**0° = 90 90° = 90**
Spacing Criterion	**0° = 1.17 90° = 1.25**
Luminous Opening in Feet	**Length: 4.00** **Width: .025** **Height: 0.08**

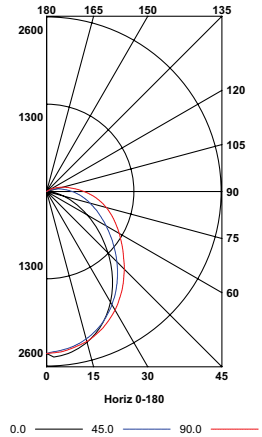
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1836	24.2	24.2
0-40	2964	39.0	39.0
0-60	5123	67.4	67.4
0-90	7121	93.7	93.7
0-180	7601	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**111**
IESNA RP-1-2004 Compliance	**Non-Compliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.18 based on 3000 hrs. and $0.08 per KWH**

INDOOR CANDELA PLOT



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Linear Strip Retrofit Kit / LED

PHOTOMETRIC DATA

Test **#17.00553** Test Date **2/16/2017**

LUMINAIRE DATA

Luminaire	**LSRK4-4W-30XW-EDU** **Linear LED Retrofit Kit, Striplight** **4" x 48" LED with gloss white channel cover**
Ballast	**XI020C056V054BST1**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**2527**
Watts	**19.70**
Mounting	**Recessed**
Shielding Angle	**0° = 90 90° = 90**
Spacing Criterion	**0° = 1.31 90° = 1.30**
Luminous Opening in Feet	**Length: 4.00** **Width: 0.21** **Height: 0.00**

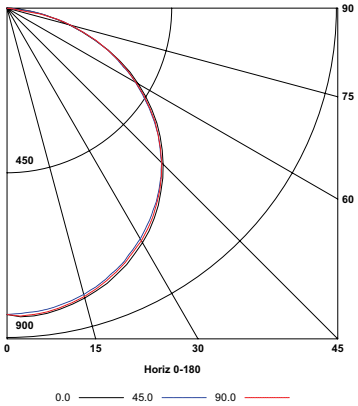
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	660	26.1	26.1
0-40	1092	43.2	43.2
0-60	1975	78.2	78.2
0-90	2527	100.0	100.0
0-180	2527	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**128**
IESNA RP-1-2004 Compliance	**Non-Compliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$1.90 based on 3000 hrs. and $0.08 per KWH**

INDOOR CANDELA PLOT



PHOTOMETRIC DATA

Test **#17.00497** Test Date **2/15/2017**

LUMINAIRE DATA

Luminaire	**LSRK4-4W-30XL-EDU** **Linear LED Retrofit Kit, Striplight** **4" x 48" LED with gloss white channel cover**
Ballast	**XI040C110V054BST1**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**8276**
Watts	**69.00**
Mounting	**Recessed**
Shielding Angle	**0° = 90 90° = 90**
Spacing Criterion	**0° = 1.30 90° = 1.30**
Luminous Opening in Feet	**Length: 4.00** **Width: .021** **Height: 0.00**

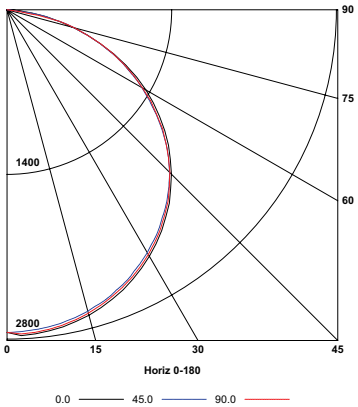
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	2161	26.1	26.1
0-40	3576	43.2	43.2
0-60	6467	78.1	78.1
0-90	8276	100.0	100.0
0-180	8276	100.0	100.0

ENERGY DATA

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

INDOOR CANDELA PLOT



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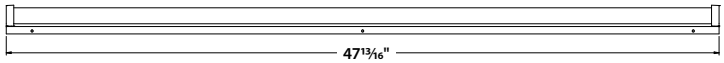
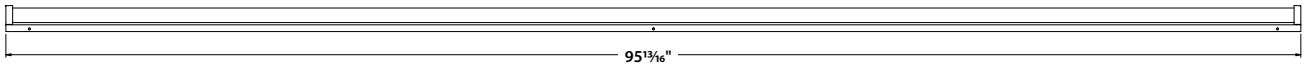
DIMENSIONAL DATA

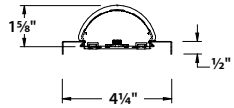
Side View, 4'



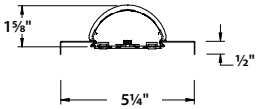
Side View, 8'



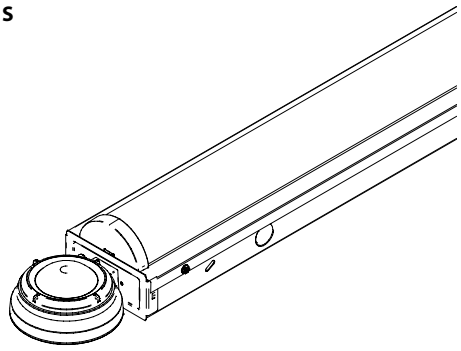
Cross Section, 4W



Cross Section, 5W



SENSOR OPTIONS



OS Sensor Option
(field installed)

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