



Project

Notes

Type

Date

Cat. No.

LCS™ Series

LED Channel Strip



DESCRIPTION

The LCS family of Lensed LED strip lights combine high-performance LEDs and highly-engineered optics to traditional designs to bring you the most advanced line of LED Strip Lights on the market. Multiple lumen packages mean there is an LCS that is just right for your lighting needs. The LCS provides superior energy efficiency and a longer maintenance-free operating life over the traditional T5 and T8 fluorescent fixtures they are designed to replace. Excellent for general utility applications: Parking garage, warehouse, offices, restrooms, storage units, and stairwell.

LCS Series

24" Housing

17W (1800 Lumens)

48" Housing

26W (2700 Lumens)

40W (4200 Lumens)

52W (5800 Lumens)

96" Housing

68W (7400 Lumens)

104W (11000 Lumens)

Specification Features



Construction

Housing, wireway cover and ends are die-formed heavy gauge steel with high gloss, baked white enamel finish over rust inhibiting phosphate coat. Housing and wireway cover act as a heat sink, maximizing the life of the LEDs and power supplies. Knockouts provided on back, ends, and sides. Diffuser Lens reduces glare and improves occupant comfort while maintaining. Lens design and materials provide uniform appearance without pixilation.

Certification

All luminaires are built to UL 1598 and 2108 standards, and bear appropriate ETL labels. Damp location labeling is standard. Emergency equipped fixtures labeled UL924. Adheres to LM70, LM80, and TM21 industry standards. DesignLights Consortium® (DLC) qualified product. Not all models of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which models are qualified.

Electrical

Equipped standard with fixed output driver. Optional 0-10V continuous dimming driver that works with any standard 0-10V control/dimmer. Long-Life LED's 60,000 hours at L80 with projected life over 100,000 hours for reduced life cycle maintenance costs Luminaire can be ceiling or suspend mounted.

Installation

Suitable for surface mounting, suspension, or stem mounting, individually or in continuous rows.

Warranty

5-year Limited Warranty. See warranty documentation for more information.

Options

Optional On/Off or Bi-Level Motion Sensor, high voltage transformers, emergency battery backups, whips and cords.

Rated Life 60,000 hours
Limited Warranty 5-years
Efficacy Up to 106 LPW
Continuous Dimming



Quick Ship

LCS-2-17-MV-850
LCS-4-40-MV-840
LCS-4-40-MV-850
LCS-4-40-MVD-835
LCS-4-40-MVD-840
LCS-4-40-MVD-850
LCS-4-52-MVD-840
LCS-4-52-MVD-850
LCS-8-68-MVD-840
LCS-8-68-MVD-850
LCS-8-104-MVD-850

Ordering Information

Example Model Number: LCS-4-52-MVD-850

LCS	4	52	MVD	8	50
Series	Length	Rated Wattage	Driver Type	CRI	Color Temp
LCS LED Channel Strip	2- 24" Length 4- 48" Length ² 8- 96" Length ²	24" Housing 17-17W (1800 Lumens) ² 26- 26W (2700 Lumens) 48" Housing 26- 26W (2700 Lumens) ² 40- 40W (4200 Lumens) ² 52- 52W (5800 Lumens) ² 96" Housing 68- 68W (7400 Lumens) ² 104- 104W (11000 Lumens) ²	MV- 120-277V ² MVD-120-277V; 0-10V Dimming ² HVD-347-480V,0-10V Dimming HV-347-480V	8 80+ CRI	35 3500 Kelvin ^{1 2} 40 4000 Kelvin ² 50 5000 Kelvin ²
Options					
Emergency Backup		Control		Accessories	
EML8 800lm EML16 1600lm		MOS- Integral Microwave Sensor, On/Off OS- Fixture Mounted Occupancy Sensor, On/Off MOSB- Integral Bi-Level Microwave Sensor MOSB-FM- Fixture Mounted Bi-Level Microwave Sensor		FW3- 6' 3 Wire Fixture whip FW4- 6' 4 Wire Fixture Whip	

Specifications and Dimensions subject to change without notice

Performance Summary

Input Voltage	120V-277V
Input Frequency	50/60 Hz
Rated Wattage	See Performance Table
Delivered Lumens	See Performance Table
Efficacy	> 106 LPW (typ.)
CRI	83+, R9 > 0
Available CCT ¹	3500K,4000K,5000K
Color Consistency ²	5-step MacAdam Ellipse
Rated Life	60,000 hours
L70 ³	> 72,000 hours or > 45,000
Power Factor	> 0.9
THD	< 20%
Dimming	0-10V Continuous (10-100%)
Operating Temp.	-18°C to 40°C

Performance Data

Lens Type	Form Factor	Catalog No.	Rated Wattage (W)	Delivered Lumens	Efficacy (lm/W)
Frosted Acrylic Lens	2'	LCS-2-17-MV-850	17W	1,800	105.8
		LCS-4-40-MV-850	40W	4,200	105
	4'	LCS-4-52-MVD-850	52.67W	5,800	110
	8'	LCS-8-68-MVD-840	70W	7,400	105
		LCS-8-104-MVD-850	104W	11,000	105.77

NOTES:

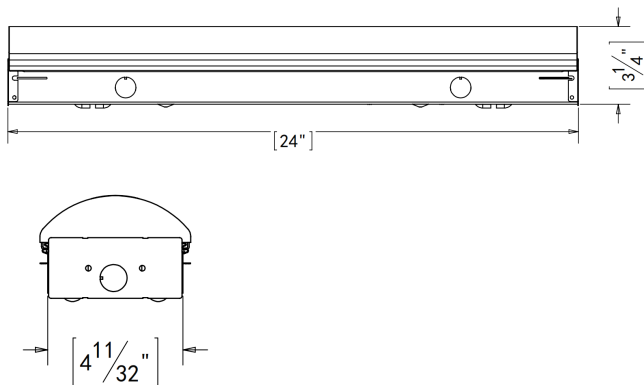
- ¹ Made to order items. Minimum 90 day lead time. Minimum 500 order quantity.
- ² DLC Listed
- ³ DLC Premium Listed
- ⁴ Quick ship:3500K,4000K 5000K. Other CCTs may require a lead time or be special order
- ⁵ Typical color consistency. May vary or be changed.
- ⁶ L70 hours calculated based on LED package manufacturer LM80 report and ISTMT report of LED in luminaire. Stated values are for select catalog numbers. Contact manufacturer for detailed information



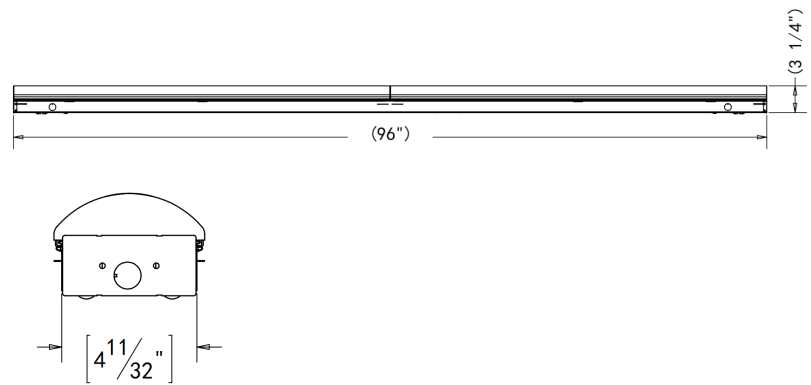
Specifications and Dimensions subject to change without notice

Product Dimensions

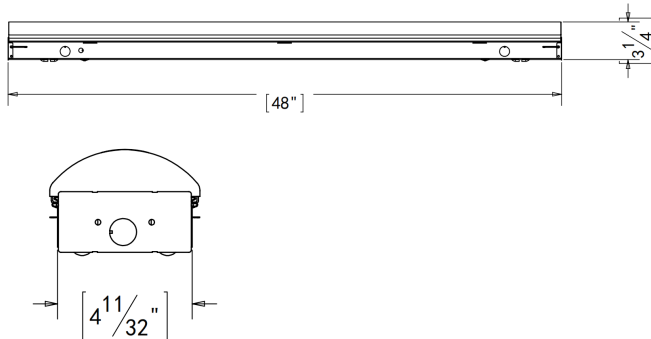
LCS-2



LCS-8



LCS-4



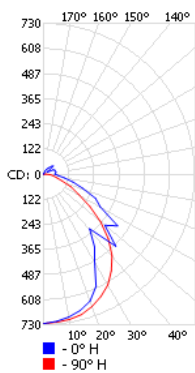
LED Channel Strip

LCS™ Series

Photometric Data

LCS-2-17-MV-850 Tested in accordance to IESNA LM-79

Polar Candela Curve



Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	555.8	27.70%	27.80%
0-40	878.1	43.80%	43.90%
0-60	1,440.50	71.90%	72%
60-90	408.4	20.40%	20.40%
0-90	1,848.80	92.30%	92.40%

Coefficients of Utilization

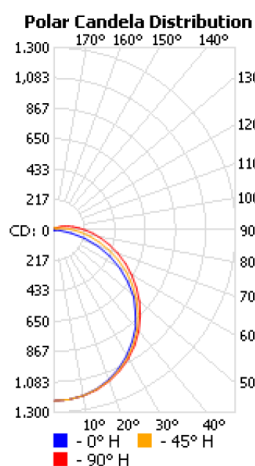
RCC %:		80				70				50	
RW %:		70	50	30	0	70	50	30	0	50	30
RCR: 0		1.17	1.17	1.17	1.17	1.13	1.13	1.13	0.92	1.07	1.07
1		1.07	1.02	0.97	0.93	1.03	0.99	0.95	0.77	0.93	0.9
2		0.97	0.89	0.82	0.76	0.94	0.86	0.8	0.65	0.81	0.76
3		0.89	0.78	0.7	0.64	0.85	0.76	0.69	0.56	0.72	0.66
4		0.81	0.69	0.61	0.54	0.78	0.68	0.6	0.48	0.64	0.57
5		0.75	0.62	0.53	0.47	0.72	0.61	0.53	0.42	0.58	0.51
6		0.69	0.56	0.48	0.41	0.67	0.55	0.47	0.37	0.52	0.45
7		0.64	0.51	0.43	0.37	0.62	0.5	0.42	0.34	0.48	0.41
8		0.6	0.47	0.38	0.33	0.58	0.46	0.38	0.3	0.44	0.37
9		0.56	0.43	0.35	0.3	0.54	0.42	0.35	0.27	0.4	0.34
10		0.53	0.4	0.32	0.27	0.51	0.39	0.32	0.25	0.38	0.31

Effective Floor Cavity Reflectance: 20%

Photometric Data

LCS-2-40-MVD-840 Tested in accordance to IESNA LM-79

Polar Candela Curve



Zonal Lumen Summary

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	955.8	23.1%	23.1%
0-40	1,575.5	38.1%	38.1%
0-60	2,840.8	68.6%	68.7%
60-90	1,047.8	25.3%	25.3%
70-100	655.9	15.9%	15.9%
80-90	194.4	4.7%	4.7%
0-90	3,888.7	94%	94%
90-180	246.1	5.9%	6%
0-180	4,134.7	99.9%	100%

Coefficients of Utilization

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10				0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0			
RCR: 0	1.18	1.18	1.18	1.18	1.14	1.14	1.14	.94	1.08	1.08	1.08	1.02	1.02	1.02	.96	.96	.96	.94			
1	1.06	1.00	.95	.91	1.02	.97	.93	.76	.92	.88	.85	.87	.84	.81	.82	.80	.78	.75			
2	.96	.87	.79	.73	.92	.84	.77	.63	.80	.74	.69	.75	.71	.67	.71	.68	.64	.62			
3	.87	.76	.67	.60	.84	.74	.66	.53	.70	.63	.57	.66	.60	.55	.63	.58	.54	.51			
4	.79	.67	.57	.50	.76	.65	.56	.45	.62	.54	.48	.59	.52	.47	.56	.50	.46	.43			
5	.73	.59	.50	.43	.70	.58	.49	.39	.55	.47	.42	.52	.46	.41	.50	.44	.40	.37			
6	.67	.53	.44	.38	.65	.52	.43	.34	.50	.42	.36	.47	.41	.35	.45	.39	.35	.32			
7	.62	.48	.39	.33	.60	.47	.39	.30	.45	.37	.32	.43	.36	.31	.41	.35	.31	.29			
8	.58	.44	.35	.29	.56	.43	.35	.27	.41	.34	.28	.39	.33	.28	.38	.32	.27	.25			
9	.54	.40	.32	.26	.52	.39	.31	.24	.38	.31	.26	.36	.30	.25	.35	.29	.25	.23			
10	.51	.37	.29	.24	.49	.36	.29	.22	.35	.28	.23	.34	.27	.23	.32	.27	.22	.21			

Accessory Options



Cords and Whips

CS6-182-115P-WH	6' Cord 18/2 Nema 115P 120V White Finish
CS6-183-515P-BL	6' Cord 18/3 Nema 515P 120V Black Finish
CS6-183-183-BL	6' Cord 18/3 TO 18/3 SJT ENDS Black Finish
CS6-183-L515P-BL	6' Cord 18/3 Nema L515P(Twist Locking) 120V Black Finish
CS6-183-L615P-BL	6' Cord 18/3 Nema L715P(Twist Locking) 240V Black Finish
CS6-183-L715P-BL	6' Cord 18/3 Nema L715P(Twist Locking) 277V Black Finish
CS12-183-183-BL	12' Cord 18/3 TO 18/3 SJT ENDS Black Finish
CS12-183-L515P-BL	12' Cord 18/3 Nema L515P(Twist Locking) 120V Black Finish
CS12-183-L615P-BL	12' Cord 18/3 Nema L715P(Twist Locking) 240V Black Finish
CS12-183-L715P-BL	12' Cord 18/3 Nema L715P(Twist Locking) 277V Black Finish

FW3

6' 18/3 wire

FW4

6' 18/4 wire

GlobaLux
LIGHTING

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GlobaLux Lighting LLC
www.globaluxlighting.com
2037 S. Vineyard Ave
Ontario, CA 91761
Ph: 909-591-7506