

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P510623

Luminaire Tested: **CST-CA10-760-750-U-T5N**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510623  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA10-760-750-U-T5N  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 115617 lumens  
Efficiency: N/A  
Efficacy: 151.7 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

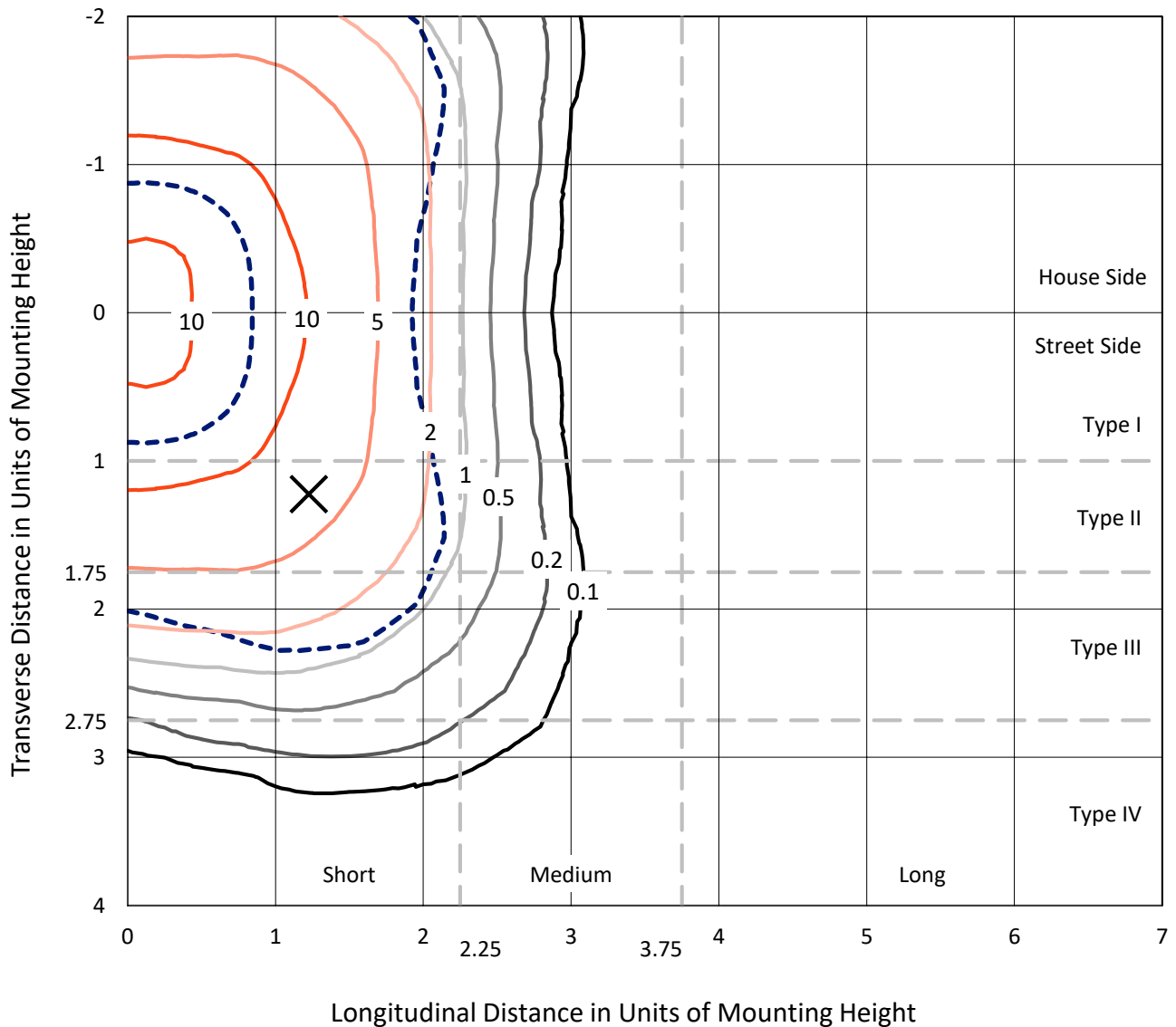
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

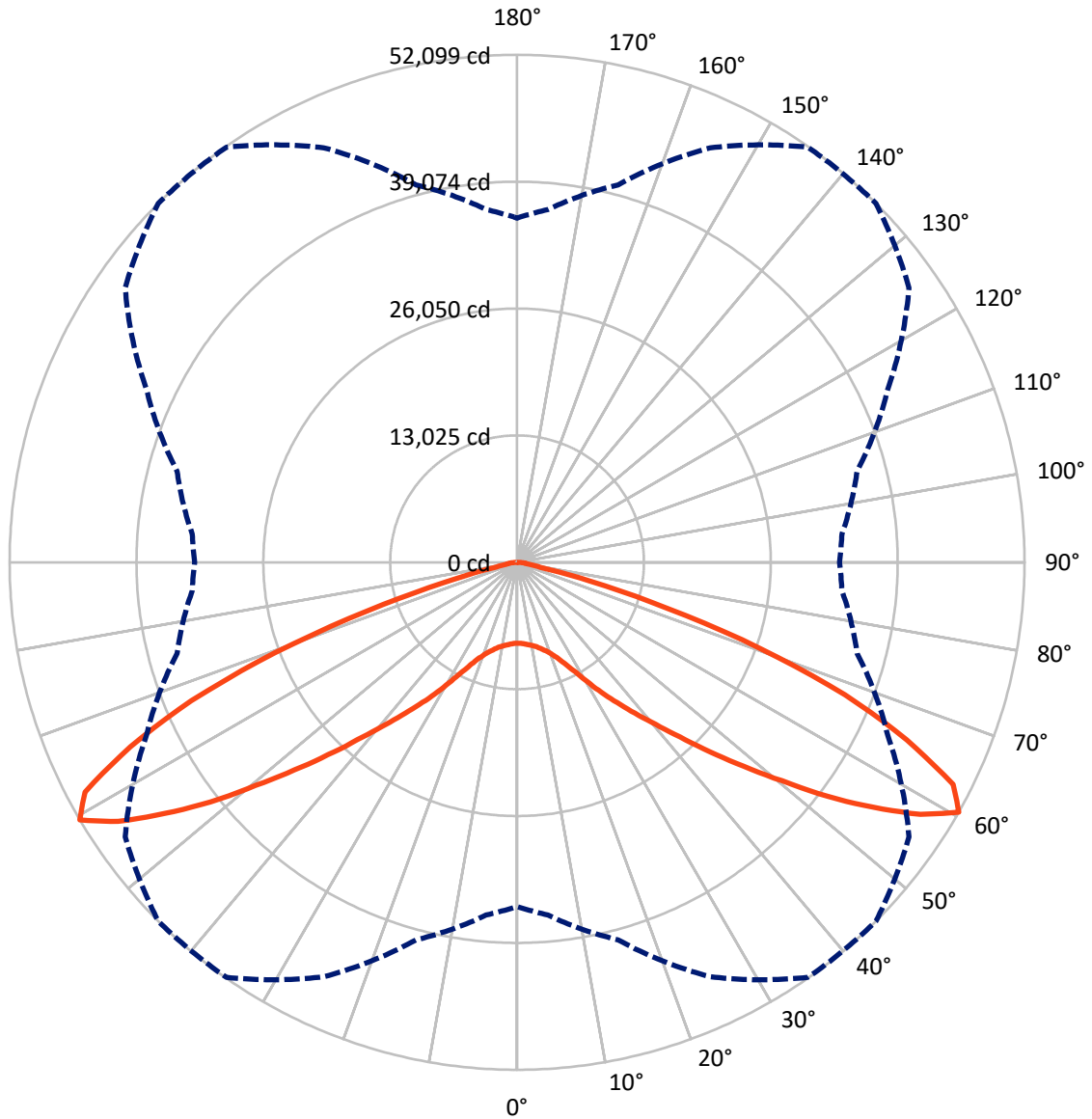
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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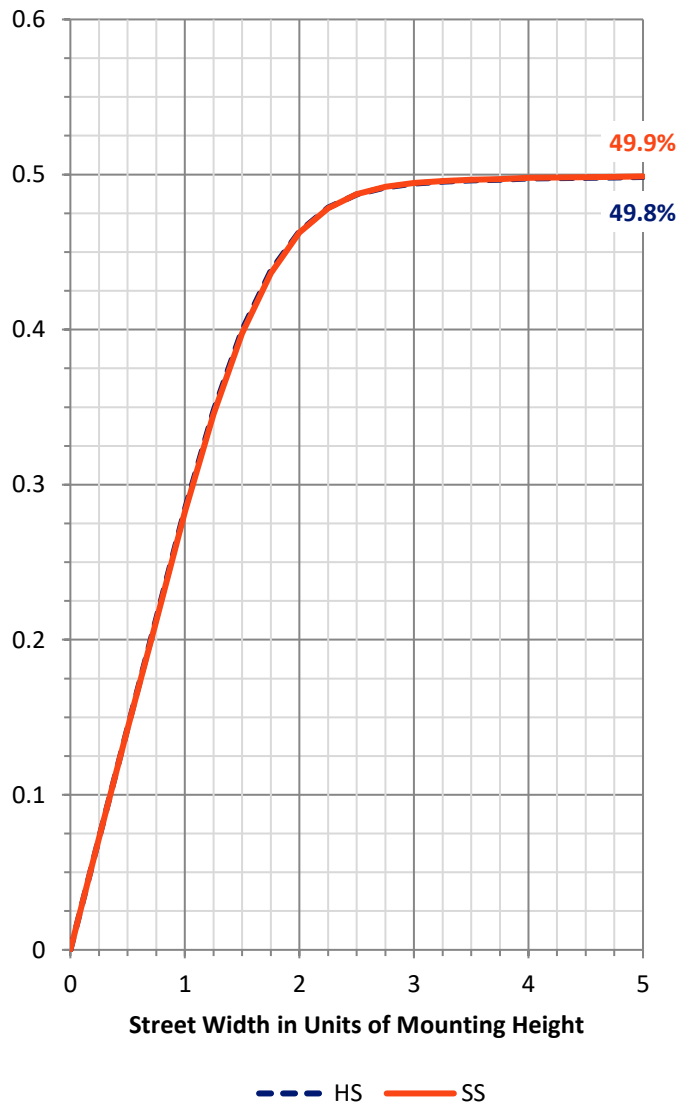
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	57808.5	0.0	57808.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	57808.5	0.0	57808.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	115617.0	0.0	115617.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	812.4	0.7
10°-20°	2648.6	2.3
20°-30°	5625.3	4.9
30°-40°	11927.6	10.3
40°-50°	22683.1	19.6
50°-60°	35985.4	31.1
60°-70°	30417.2	26.3
70°-80°	5004.1	4.3
80°-90°	513.1	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	115617.0	100.0
0°-180°	115617.0	100.0

**Coefficient of Utilization**

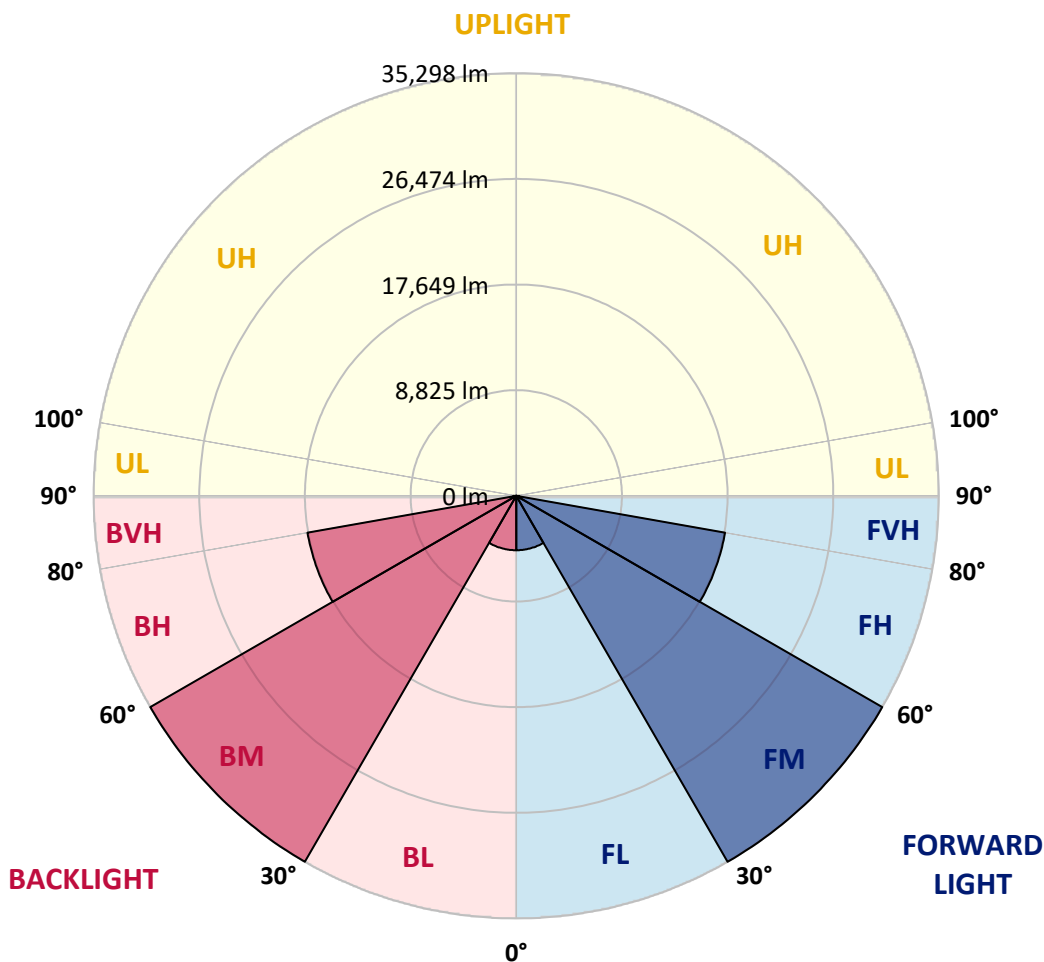


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4543.2	3.9			
FM (30°-60°)	35298.1	30.5			
FH (60°-80°)	17710.7	15.3			G5
FVH (80°-90°)	256.6	0.2			G3/500
BL (0°-30°)	4543.2	3.9	B4/5000		
BM (30°-60°)	35298.1	30.5	B5		
BH (60°-80°)	17710.7	15.3	B5		G5
BVH (80°-90°)	256.6	0.2			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8300.9	8300.9	8300.9	8300.9	8300.9	8300.9	8300.9	8300.9	8300.9	8300.9	8300.9
2.5°	8360.8	8340.1	8333.6	8324.9	8329.2	8331.4	8343.4	8344.5	8344.5	8355.4	8373.9
5°	8454.5	8427.3	8417.5	8406.6	8412.0	8417.5	8428.4	8434.9	8433.8	8440.4	8456.7
7.5°	8555.9	8546.1	8534.1	8527.5	8527.5	8542.8	8535.2	8547.1	8546.1	8553.7	8563.5
10°	8706.2	8684.4	8683.4	8671.4	8676.8	8689.9	8692.1	8689.9	8692.1	8696.4	8719.3
12.5°	8896.9	8891.5	8894.7	8884.9	8881.7	8895.8	8899.1	8913.3	8917.6	8930.7	8944.9
15°	9204.2	9169.3	9165.0	9163.9	9170.4	9192.2	9198.8	9224.9	9236.9	9255.4	9287.0
17.5°	9551.8	9563.8	9542.0	9539.8	9538.7	9556.2	9573.6	9631.3	9649.9	9692.4	9719.6
20°	10106.4	10084.6	10071.6	10019.3	10006.2	10036.7	10099.9	10176.2	10212.1	10279.7	10330.9
22.5°	10847.4	10810.3	10721.0	10658.9	10632.7	10685.0	10753.7	10875.7	11020.6	11104.5	11127.4
25°	11918.5	11772.5	11661.3	11551.3	11512.1	11589.4	11700.6	11894.5	12076.5	12244.3	12321.7
27.5°	13222.8	13130.2	12909.0	12735.7	12667.1	12732.5	12963.5	13237.0	13570.4	13744.7	13770.9
30°	14879.1	14831.1	14548.9	14224.2	14102.1	14215.5	14487.9	14860.5	15324.7	15683.2	15746.4
32.5°	16929.8	16686.8	16294.5	15922.9	15792.2	15930.6	16204.1	16739.1	17364.5	17761.2	17896.3
35°	19281.2	19006.6	18417.1	17846.2	17677.3	17694.7	18132.7	18886.8	19742.1	20295.7	20447.1
37.5°	21874.6	21594.5	20899.3	20013.4	19622.3	19651.7	20224.8	21205.5	22378.0	22981.6	23182.1
40°	24642.2	24352.4	23635.4	22637.3	21994.4	21863.7	22629.7	23823.9	25014.9	25742.8	25820.1
42.5°	27347.8	27004.6	26428.2	25430.1	24843.8	24493.0	25418.1	26500.1	27700.9	28356.8	28408.0
45°	29764.7	29698.2	29235.1	28511.6	28028.9	27718.3	28378.6	29453.0	30292.0	30707.2	30858.7
47.5°	32100.8	32059.4	31911.2	31658.4	31778.3	31261.8	31578.9	32066.0	32526.9	32832.0	32949.7
50°	34148.3	34191.9	34482.8	34913.2	35780.6	35257.5	35158.4	34634.3	34647.3	34671.3	34793.3
52.5°	35839.4	36070.4	36802.6	38101.5	39974.6	39962.6	38462.2	37078.3	36452.9	36175.0	36200.1
55°	37313.7	37709.2	38918.7	41600.3	44280.9	44414.9	42374.0	39308.8	38136.4	37543.6	37621.0
57.5°	38127.7	38730.2	40777.7	44848.6	48668.8	48830.1	46557.1	41779.0	39094.2	37593.7	37658.0
60°	35333.8	36348.3	40122.8	46943.9	52024.9	52099.0	49114.5	41973.0	36132.5	33477.1	33088.1
62.5°	28914.7	30320.4	35645.4	45320.4	50470.0	50240.1	47513.8	38339.0	29681.8	26460.9	26134.0
65°	21719.8	23041.6	28617.3	38805.4	44284.1	43981.2	41204.8	30300.8	21761.2	18341.9	17939.9
67.5°	11755.1	13751.3	18968.5	29642.6	35302.2	36329.7	32483.3	21119.4	12663.8	9181.3	8828.3
70°	4060.0	5246.6	9671.7	18607.8	25462.7	26493.5	22151.3	11326.8	5541.9	3465.1	3110.9
72.5°	1441.6	1661.7	3636.1	8986.3	14496.6	16062.4	11952.3	4555.8	1766.3	1286.9	1260.7
75°	1017.7	1050.4	1292.3	2930.0	6276.3	7687.4	4712.7	1512.4	1101.6	1029.7	1023.2
77.5°	908.8	927.3	1047.1	1193.2	1917.8	2455.0	1450.3	1097.3	956.7	916.4	902.2
80°	864.1	878.3	913.1	978.5	1087.5	1131.0	978.5	938.2	870.6	853.2	847.7
82.5°	755.1	751.9	761.7	788.9	837.9	848.8	785.6	735.5	736.6	715.9	706.1
85°	511.0	541.6	518.7	490.3	608.0	611.3	569.9	427.1	484.9	475.1	434.8
87.5°	154.7	174.3	138.4	95.9	131.8	102.4	92.6	95.9	91.5	79.5	71.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)