

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: P721835

Luminaire Tested: **CST-CA8-400-722-U-T5N**

Issue Date: 10/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P721835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA8-400-722-U-T5N  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

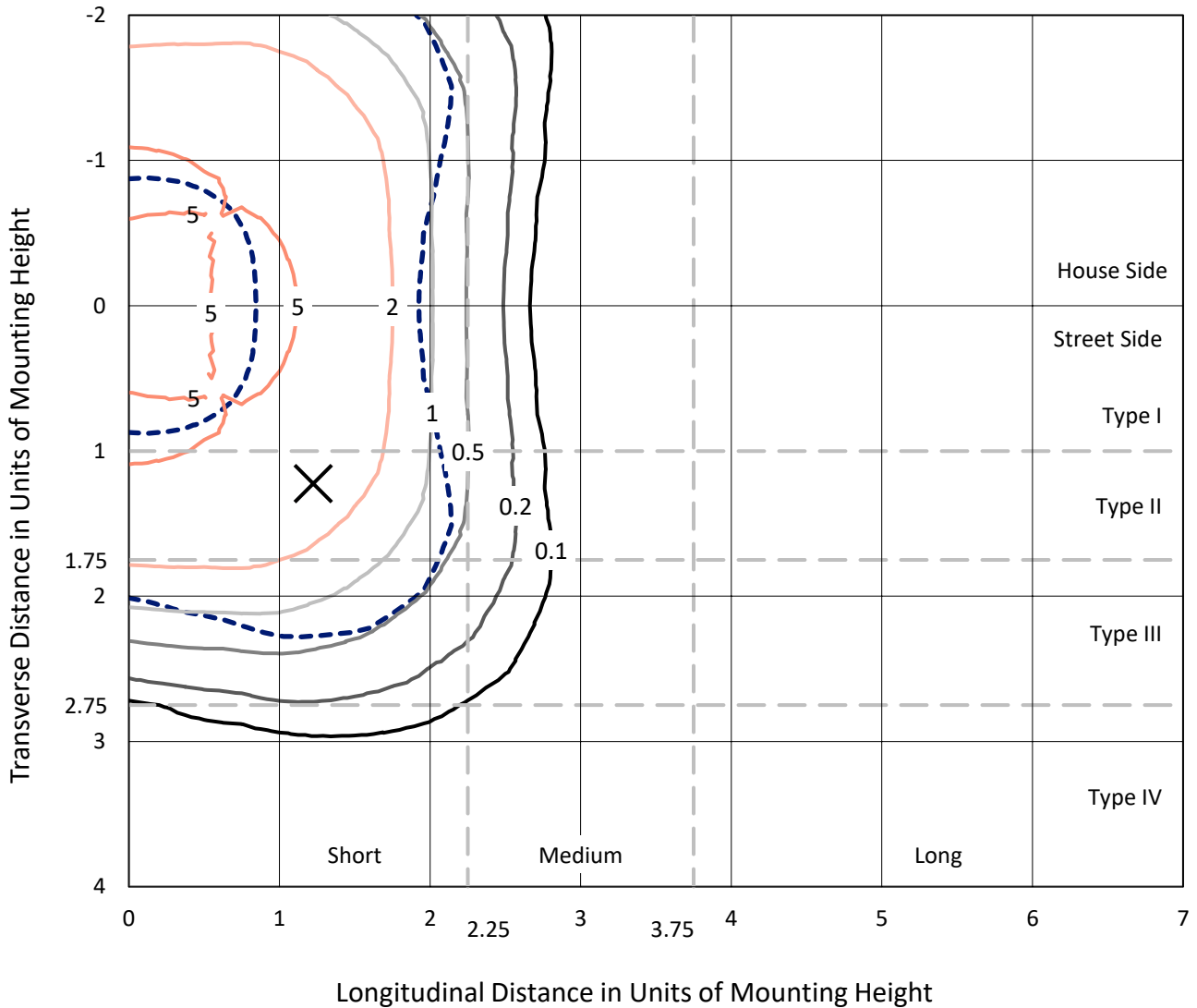
Lumens per Lamp: N/A  
Luminaire Lumens: 52757 lumens  
Efficiency: N/A  
Efficacy: 131.6 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 400.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage 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: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

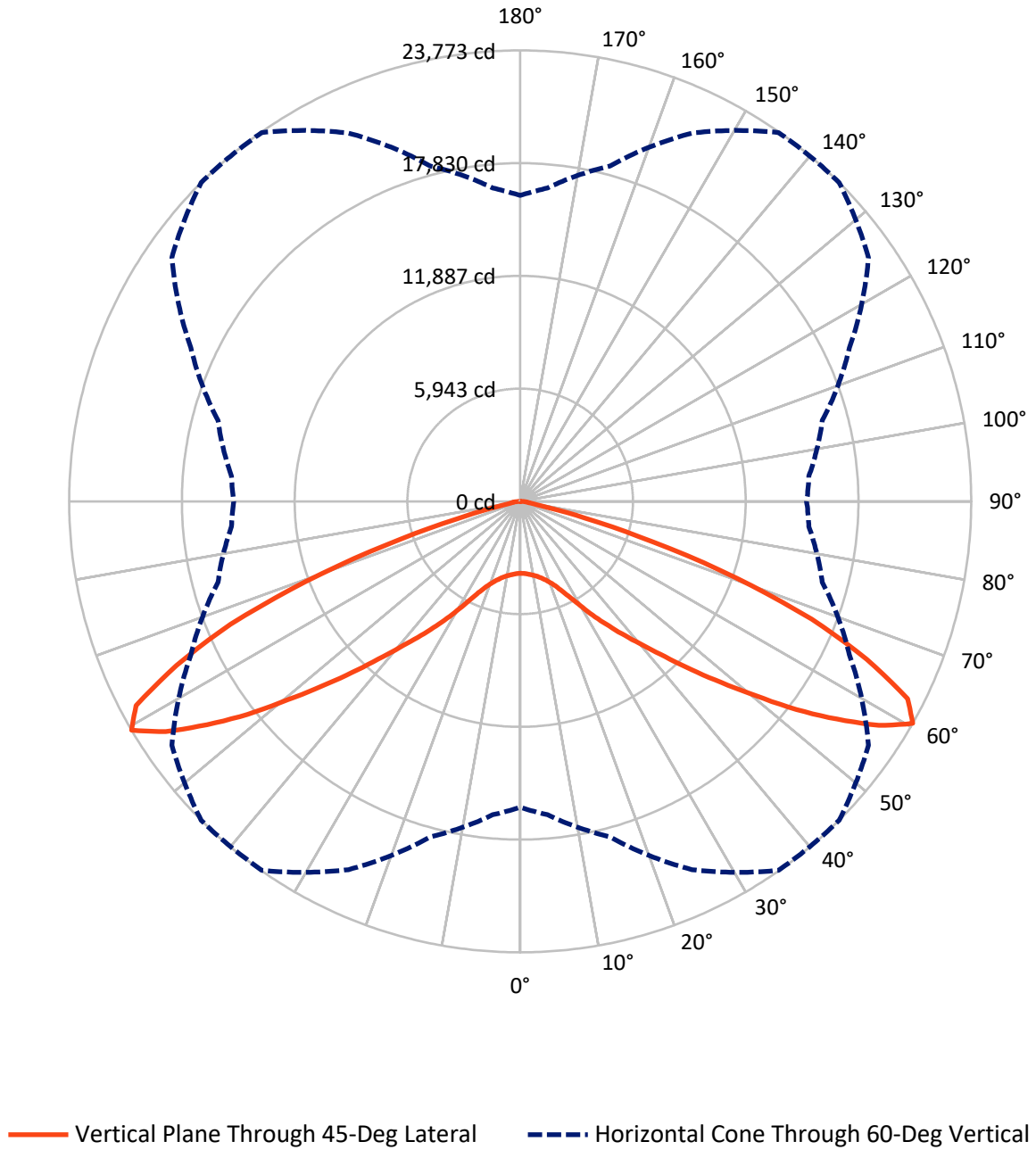
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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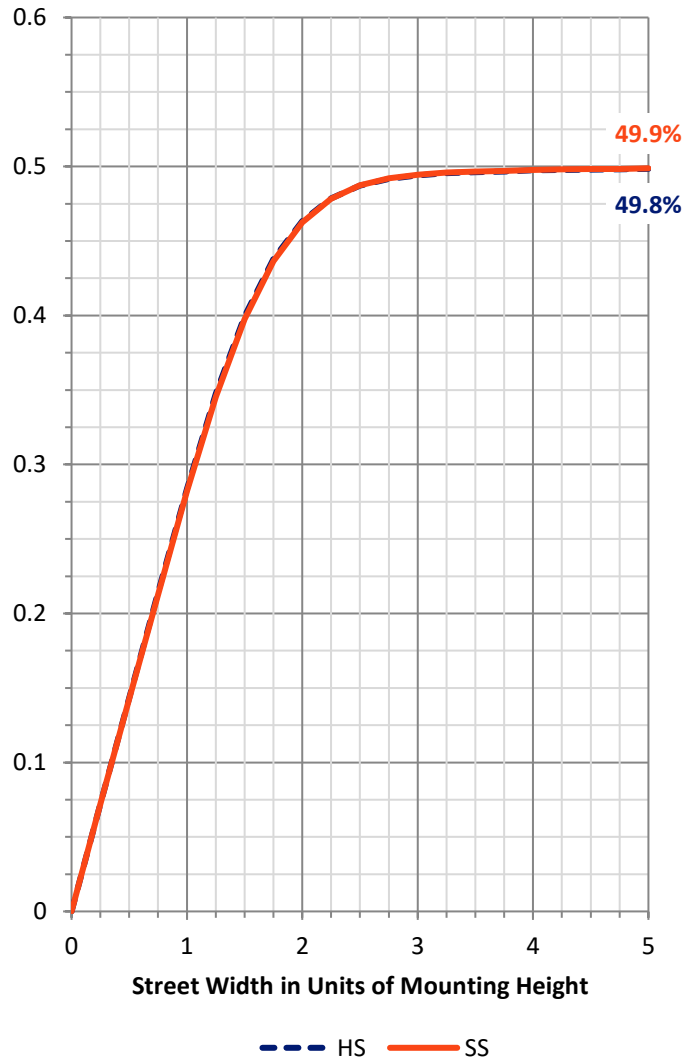
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26378.5	0.0	26378.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	26378.5	0.0	26378.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	52757.0	0.0	52757.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	370.7	0.7
10°-20°	1208.6	2.3
20°-30°	2566.9	4.9
30°-40°	5442.7	10.3
40°-50°	10350.5	19.6
50°-60°	16420.5	31.1
60°-70°	13879.6	26.3
70°-80°	2283.4	4.3
80°-90°	234.2	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°	52757.0	100.0
0°-180°	52757.0	100.0

**Coefficient of Utilization**

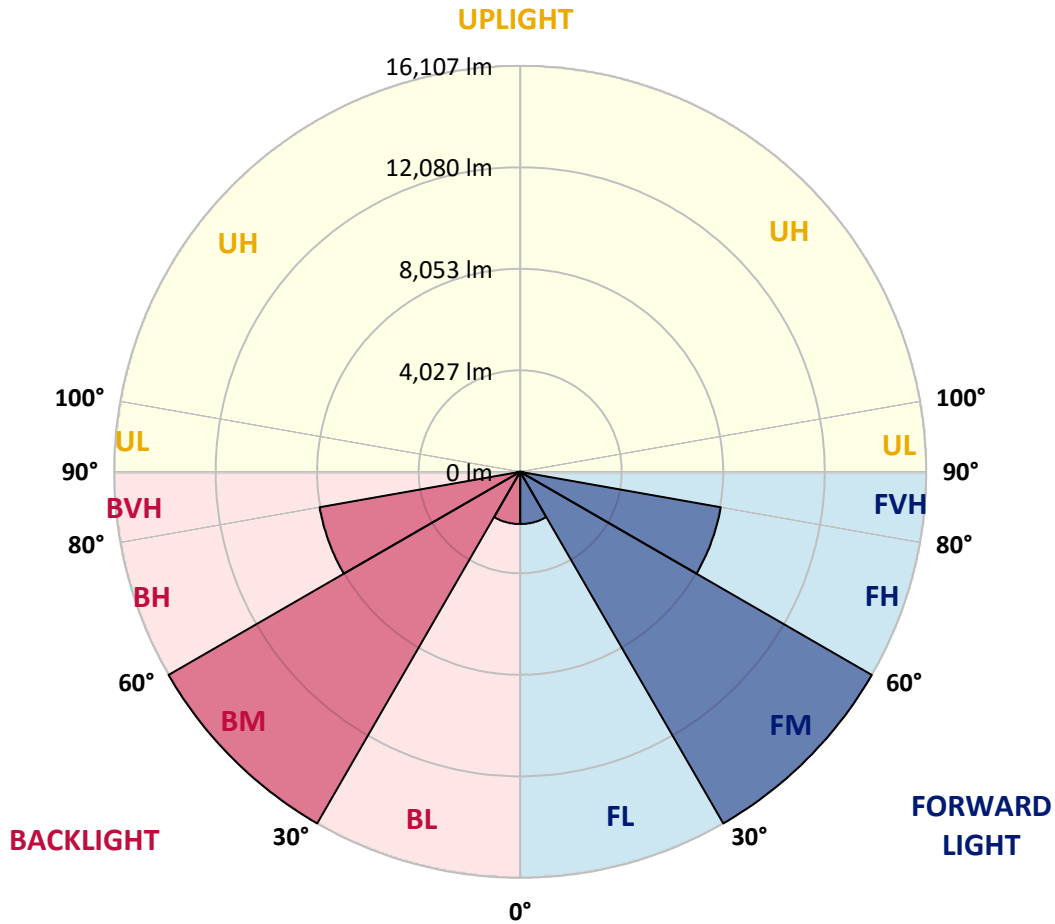


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2073.1	3.9			
FM (30°-60°)	16106.8	30.5			
FH (60°-80°)	8081.5	15.3			G4/12000
FVH (80°-90°)	117.1	0.2			G2/225
BL (0°-30°)	2073.1	3.9	B3/2500		
BM (30°-60°)	16106.8	30.5	B5		
BH (60°-80°)	8081.5	15.3	B5		G4/12000
BVH (80°-90°)	117.1	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3787.8	3787.8	3787.8	3787.8	3787.8	3787.8	3787.8	3787.8	3787.8	3787.8	3787.8
2.5°	3815.1	3805.7	3802.7	3798.7	3800.7	3801.7	3807.2	3807.7	3807.7	3812.6	3821.1
5°	3857.9	3845.4	3841.0	3836.0	3838.5	3841.0	3845.9	3848.9	3848.4	3851.4	3858.9
7.5°	3904.1	3899.6	3894.2	3891.2	3891.2	3898.1	3894.7	3900.1	3899.6	3903.1	3907.6
10°	3972.7	3962.8	3962.3	3956.8	3959.3	3965.3	3966.3	3965.3	3966.3	3968.3	3978.7
12.5°	4059.7	4057.3	4058.7	4054.3	4052.8	4059.2	4060.7	4067.2	4069.2	4075.2	4081.6
15°	4200.0	4184.0	4182.1	4181.6	4184.5	4194.5	4197.5	4209.4	4214.9	4223.3	4237.7
17.5°	4358.6	4364.0	4354.1	4353.1	4352.6	4360.6	4368.5	4394.9	4403.3	4422.7	4435.1
20°	4611.6	4601.7	4595.7	4571.9	4565.9	4579.8	4608.7	4643.5	4659.9	4690.7	4714.1
22.5°	4949.8	4932.8	4892.1	4863.7	4851.8	4875.7	4907.0	4962.7	5028.8	5067.1	5077.5
25°	5438.5	5371.9	5321.2	5271.0	5253.1	5288.4	5339.1	5427.6	5510.6	5587.2	5622.5
27.5°	6033.7	5991.4	5890.5	5811.4	5780.1	5809.9	5915.3	6040.1	6192.3	6271.8	6283.8
30°	6789.4	6767.6	6638.8	6490.6	6434.9	6486.6	6610.9	6781.0	6992.8	7156.4	7185.2
32.5°	7725.2	7614.3	7435.3	7265.8	7206.1	7269.2	7394.0	7638.2	7923.6	8104.6	8166.2
35°	8798.2	8672.9	8403.9	8143.3	8066.3	8074.2	8274.1	8618.2	9008.5	9261.1	9330.2
37.5°	9981.5	9853.8	9536.5	9132.3	8953.8	8967.2	9228.8	9676.3	10211.3	10486.7	10578.2
40°	11244.5	11112.2	10785.0	10329.6	10036.2	9976.6	10326.1	10871.1	11414.5	11746.6	11781.9
42.5°	12479.0	12322.4	12059.4	11603.9	11336.4	11176.3	11598.5	12092.2	12640.1	12939.5	12962.8
45°	13581.9	13551.5	13340.2	13010.1	12789.8	12648.1	12949.4	13439.7	13822.5	14011.9	14081.1
47.5°	14647.9	14629.0	14561.4	14446.0	14500.7	14265.0	14409.7	14632.0	14842.3	14981.5	15035.2
50°	15582.1	15602.0	15734.8	15931.2	16327.0	16088.3	16043.1	15803.9	15809.9	15820.8	15876.5
52.5°	16353.8	16459.2	16793.4	17386.0	18240.7	18235.3	17550.6	16919.1	16633.7	16507.0	16518.4
55°	17026.5	17207.0	17758.9	18982.6	20205.7	20266.9	19335.6	17936.9	17401.9	17131.5	17166.8
57.5°	17398.0	17672.9	18607.2	20464.8	22208.0	22281.6	21244.4	19064.1	17839.0	17154.3	17183.7
60°	16123.1	16586.0	18308.4	21420.9	23739.4	23773.2	22411.4	19152.6	16487.6	15275.9	15098.4
62.5°	13194.0	13835.4	16265.3	20680.1	23029.9	22925.0	21681.0	17494.4	13544.1	12074.3	11925.1
65°	9910.9	10514.1	13058.3	17707.2	20207.2	20069.0	18802.1	13826.5	9929.8	8369.6	8186.1
67.5°	5363.9	6274.8	8655.5	13526.2	16108.7	16577.6	14822.4	9637.0	5778.6	4189.5	4028.4
70°	1852.6	2394.1	4413.3	8490.9	11618.9	12089.2	10107.8	5168.5	2528.8	1581.1	1419.5
72.5°	657.8	758.2	1659.2	4100.5	6614.9	7329.4	5453.9	2078.8	806.0	587.2	575.3
75°	464.4	479.3	589.7	1337.0	2863.9	3507.8	2150.4	690.1	502.7	469.9	466.9
77.5°	414.7	423.1	477.8	544.4	875.1	1120.2	661.8	500.7	436.6	418.2	411.7
80°	394.3	400.8	416.7	446.5	496.2	516.1	446.5	428.1	397.3	389.3	386.8
82.5°	344.6	343.1	347.6	360.0	382.4	387.3	358.5	335.6	336.1	326.7	322.2
85°	233.2	247.1	236.7	223.7	277.4	278.9	260.0	194.9	221.3	216.8	198.4
87.5°	70.6	79.6	63.1	43.8	60.2	46.7	42.3	43.8	41.8	36.3	32.8
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)