

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: P721855

Luminaire Tested: **CST-CA8-400-730-U-T5N**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721855
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-CA8-400-730-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63561 lumens
Efficiency: N/A
Efficacy: 158.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

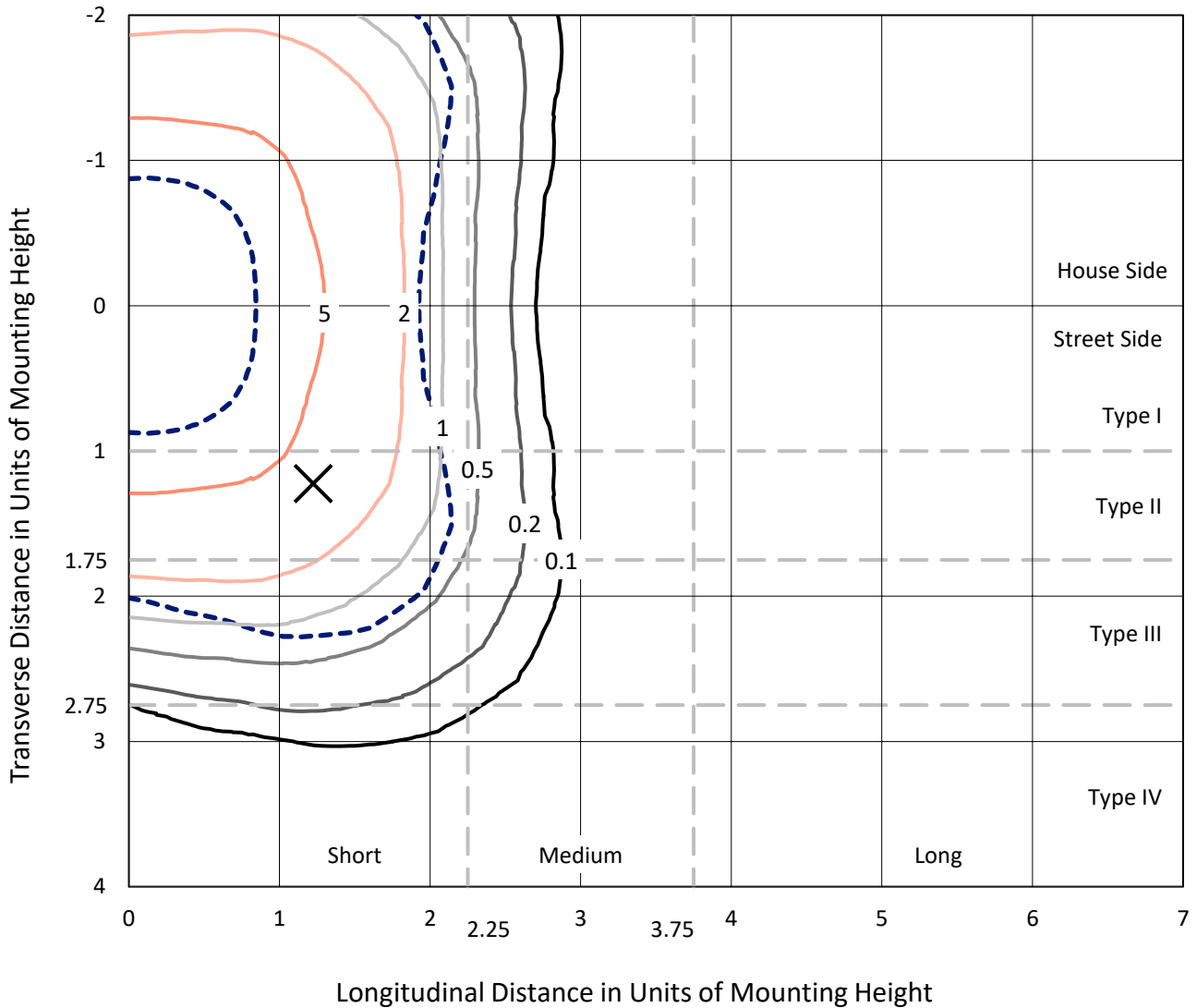
Input Watts (W): 400.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

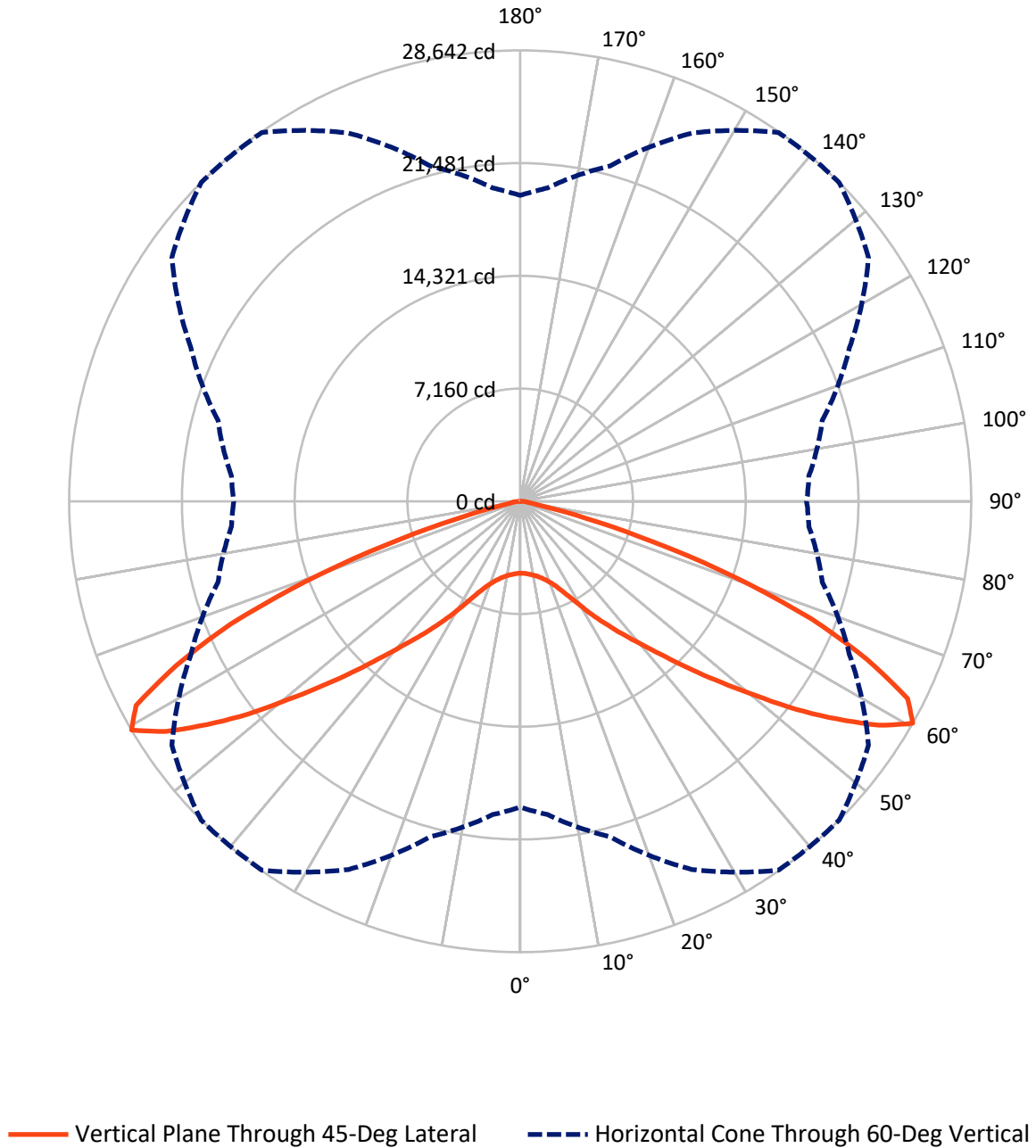
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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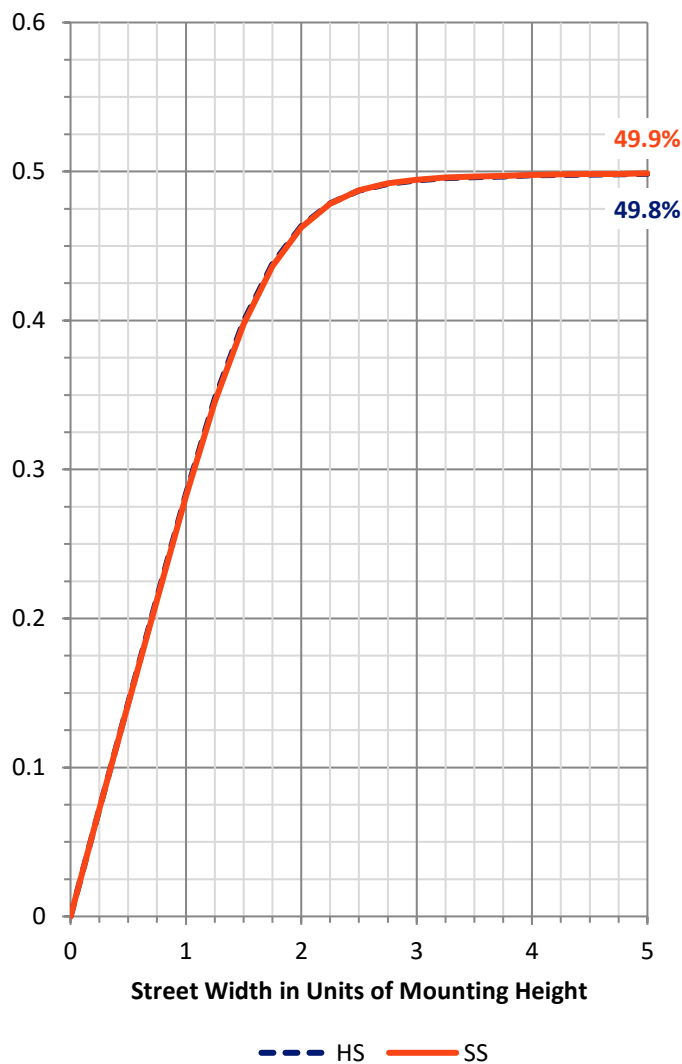
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31780.5	0.0	31780.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	31780.5	0.0	31780.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	63561.0	0.0	63561.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.6	0.7
10°-20°	1456.1	2.3
20°-30°	3092.6	4.9
30°-40°	6557.3	10.3
40°-50°	12470.1	19.6
50°-60°	19783.2	31.1
60°-70°	16722.0	26.3
70°-80°	2751.0	4.3
80°-90°	282.1	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°	63561.0	100.0
0°-180°	63561.0	100.0

Coefficient of Utilization

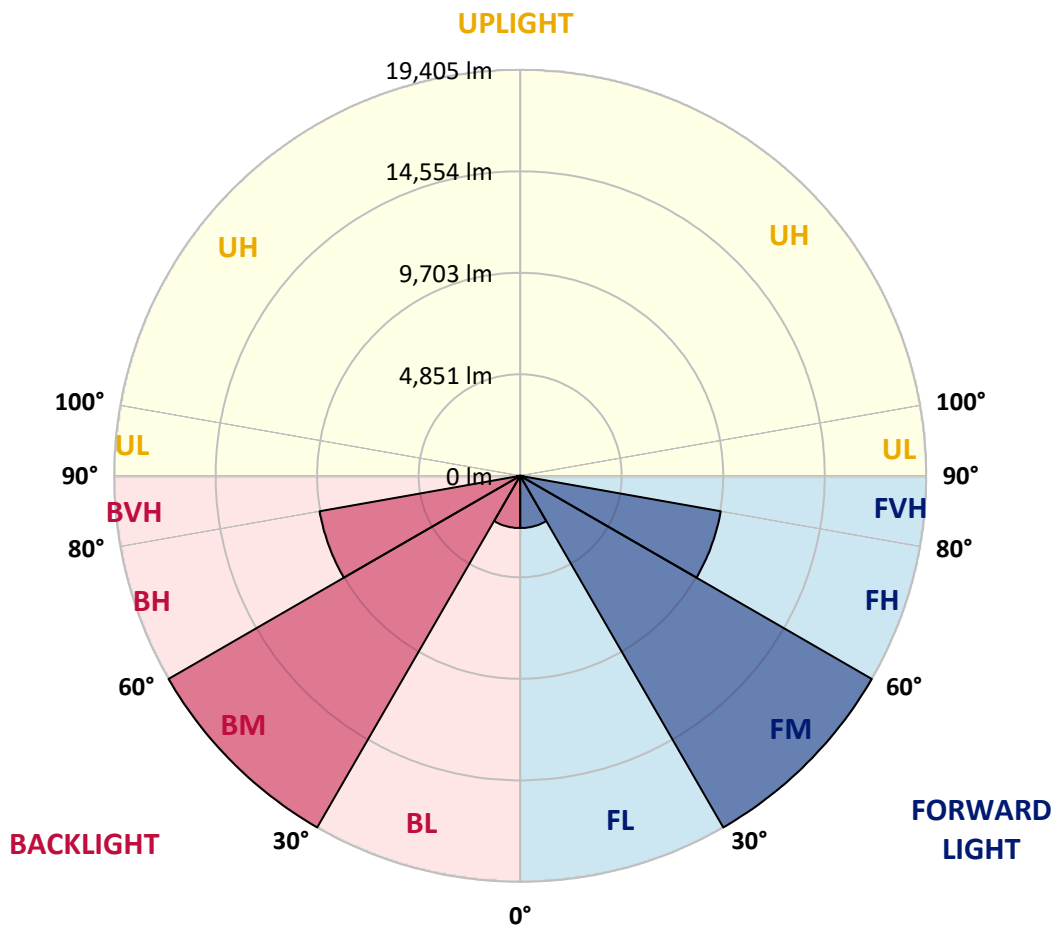


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2497.6	3.9			
FM (30°-60°)	19405.3	30.5			
FH (60°-80°)	9736.5	15.3			G4/12000
FVH (80°-90°)	141.0	0.2			G2/225
BL (0°-30°)	2497.6	3.9	B3/2500		
BM (30°-60°)	19405.3	30.5	B5		
BH (60°-80°)	9736.5	15.3	B5		G4/12000
BVH (80°-90°)	141.0	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°	4563.5	4563.5	4563.5	4563.5	4563.5	4563.5	4563.5	4563.5	4563.5	4563.5	4563.5
2.5°	4596.4	4585.0	4581.4	4576.6	4579.0	4580.2	4586.8	4587.4	4587.4	4593.4	4603.6
5°	4647.9	4632.9	4627.6	4621.6	4624.6	4627.6	4633.5	4637.1	4636.5	4640.1	4649.1
7.5°	4703.6	4698.2	4691.6	4688.1	4688.1	4696.4	4692.2	4698.8	4698.2	4702.4	4707.8
10°	4786.3	4774.3	4773.7	4767.1	4770.1	4777.3	4778.5	4777.3	4778.5	4780.9	4793.5
12.5°	4891.1	4888.1	4889.9	4884.5	4882.7	4890.5	4892.3	4900.1	4902.5	4909.7	4917.5
15°	5060.1	5040.9	5038.5	5037.9	5041.5	5053.5	5057.1	5071.4	5078.0	5088.2	5105.6
17.5°	5251.1	5257.7	5245.8	5244.6	5244.0	5253.5	5263.1	5294.9	5305.1	5328.4	5343.4
20°	5556.1	5544.1	5536.9	5508.1	5500.9	5517.7	5552.5	5594.4	5614.2	5651.3	5679.5
22.5°	5963.4	5943.0	5893.9	5859.8	5845.4	5874.1	5911.9	5979.0	6058.6	6104.8	6117.4
25°	6552.3	6472.0	6410.9	6350.4	6328.8	6371.3	6432.4	6539.1	6639.1	6731.4	6773.9
27.5°	7269.3	7218.4	7096.8	7001.5	6963.8	6999.7	7126.7	7277.1	7460.4	7556.2	7570.6
30°	8179.8	8153.5	7998.3	7819.8	7752.7	7815.0	7964.8	8169.6	8424.8	8621.9	8656.7
32.5°	9307.2	9173.6	8958.0	8753.7	8681.8	8757.9	8908.3	9202.4	9546.2	9764.3	9838.6
35°	10599.9	10449.0	10124.9	9811.0	9718.2	9727.7	9968.6	10383.1	10853.3	11157.6	11240.9
37.5°	12025.6	11871.7	11489.5	11002.5	10787.4	10803.6	11118.7	11657.8	12302.4	12634.3	12744.5
40°	13547.2	13387.8	12993.7	12445.0	12091.5	12019.7	12440.8	13097.3	13752.1	14152.2	14194.8
42.5°	15034.6	14845.9	14529.0	13980.3	13658.0	13465.1	13973.7	14568.5	15228.7	15589.3	15617.5
45°	16363.3	16326.7	16072.1	15674.4	15409.0	15238.3	15601.3	16191.9	16653.2	16881.4	16964.7
47.5°	17647.6	17624.8	17543.4	17404.4	17470.3	17186.3	17360.7	17628.4	17881.8	18049.5	18114.2
50°	18773.2	18797.1	18957.1	19193.7	19670.5	19383.0	19328.5	19040.4	19047.5	19060.7	19127.8
52.5°	19702.9	19829.9	20232.4	20946.5	21976.2	21969.6	21144.8	20384.0	20040.1	19887.4	19901.2
55°	20513.4	20730.8	21395.8	22870.0	24343.6	24417.3	23295.3	21610.2	20965.7	20639.8	20682.3
57.5°	20960.9	21292.1	22417.7	24655.7	26755.9	26844.6	25595.0	22968.2	21492.2	20667.3	20702.7
60°	19424.9	19982.6	22057.7	25807.7	28601.0	28641.7	27000.9	23074.9	19864.0	18404.2	18190.3
62.5°	15896.0	16668.8	19596.3	24915.1	27746.1	27619.7	26121.0	21077.1	16317.7	14547.0	14367.3
65°	11940.6	12667.2	15732.5	21333.5	24345.4	24178.9	22652.5	16658.0	11963.3	10083.6	9862.5
67.5°	6462.4	7559.8	10428.0	16296.2	19407.6	19972.5	17857.9	11610.5	6962.0	5047.5	4853.4
70°	2232.0	2884.4	5317.0	10229.7	13998.3	14565.0	12177.8	6227.0	3046.7	1904.9	1710.2
72.5°	792.5	913.5	1999.0	4940.2	7969.6	8830.4	6570.8	2504.6	971.0	707.5	693.1
75°	559.5	577.5	710.5	1610.8	3450.4	4226.2	2590.8	831.5	605.6	566.1	562.5
77.5°	499.6	509.8	575.7	655.9	1054.3	1349.6	797.3	603.2	526.0	503.8	496.0
80°	475.0	482.8	502.0	537.9	597.8	621.8	537.9	515.8	478.6	469.0	466.0
82.5°	415.1	413.3	418.7	433.7	460.7	466.6	431.9	404.3	404.9	393.6	388.2
85°	280.9	297.7	285.1	269.6	334.3	336.1	313.3	234.8	266.6	261.2	239.0
87.5°	85.1	95.8	76.1	52.7	72.5	56.3	50.9	52.7	50.3	43.7	39.5
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)