

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: P721875

Luminaire Tested: **CST-CA8-400-750-U-T5N**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721875
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-CA8-400-750-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65920 lumens
Efficiency: N/A
Efficacy: 164.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

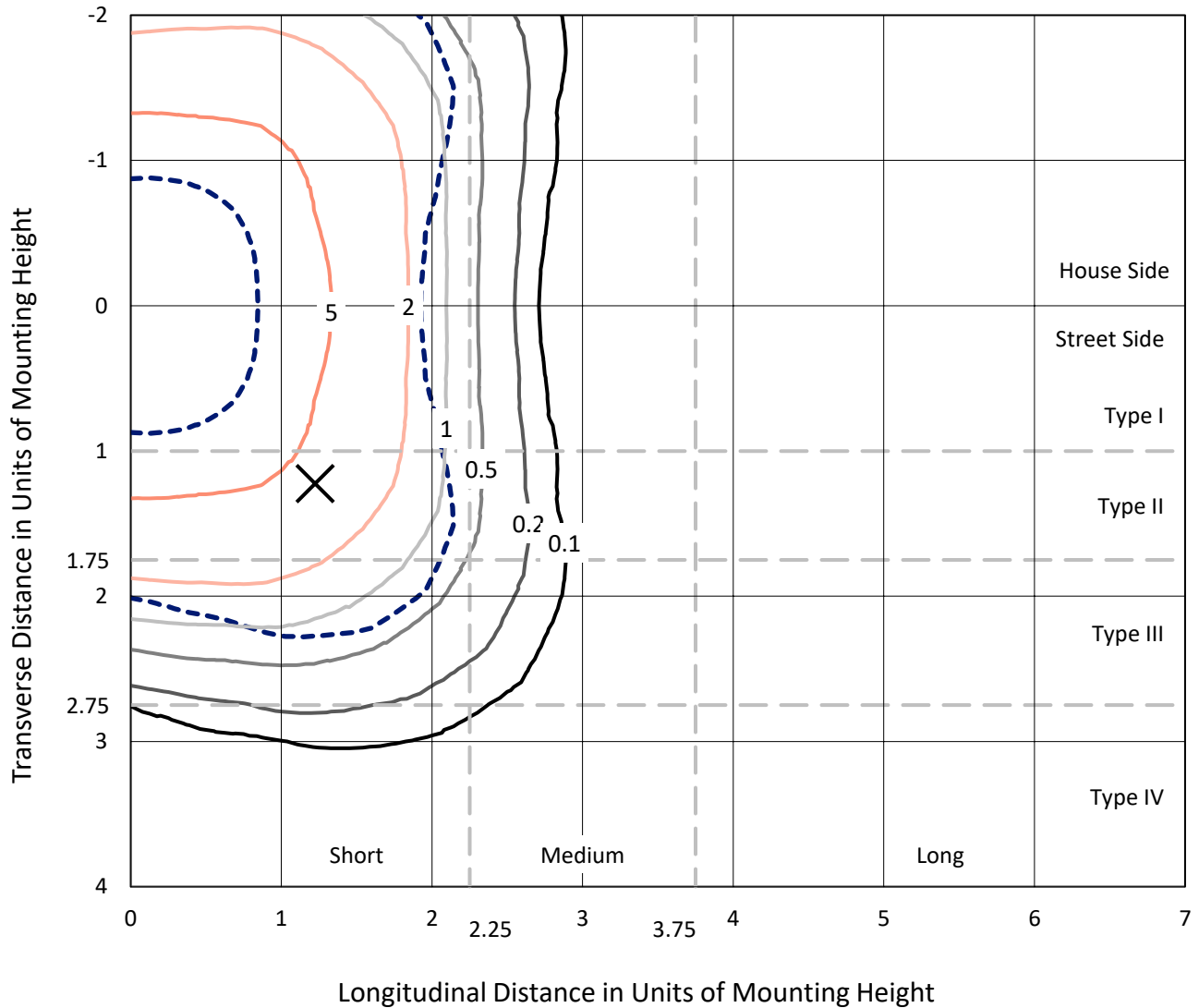
Input Watts (W): 400.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

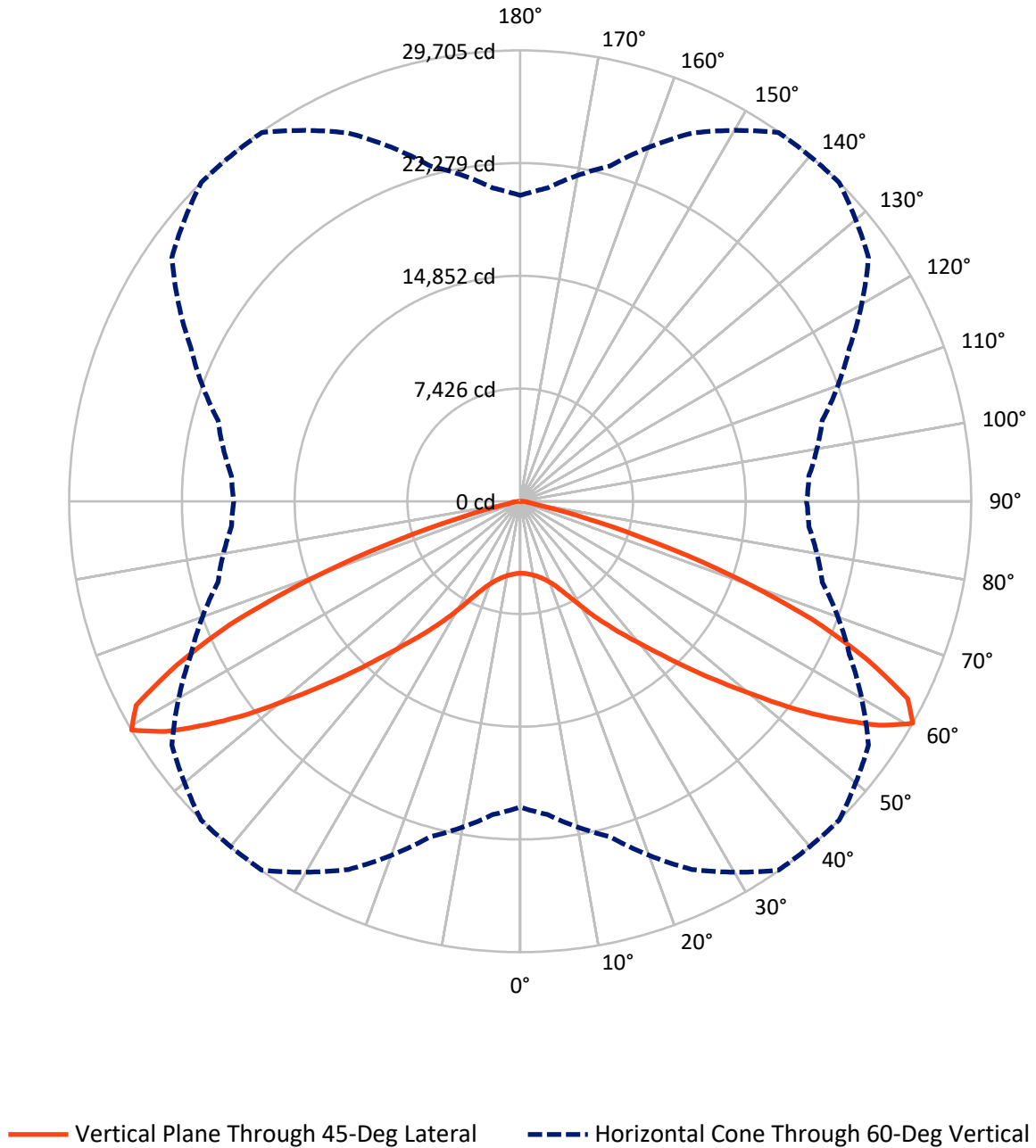
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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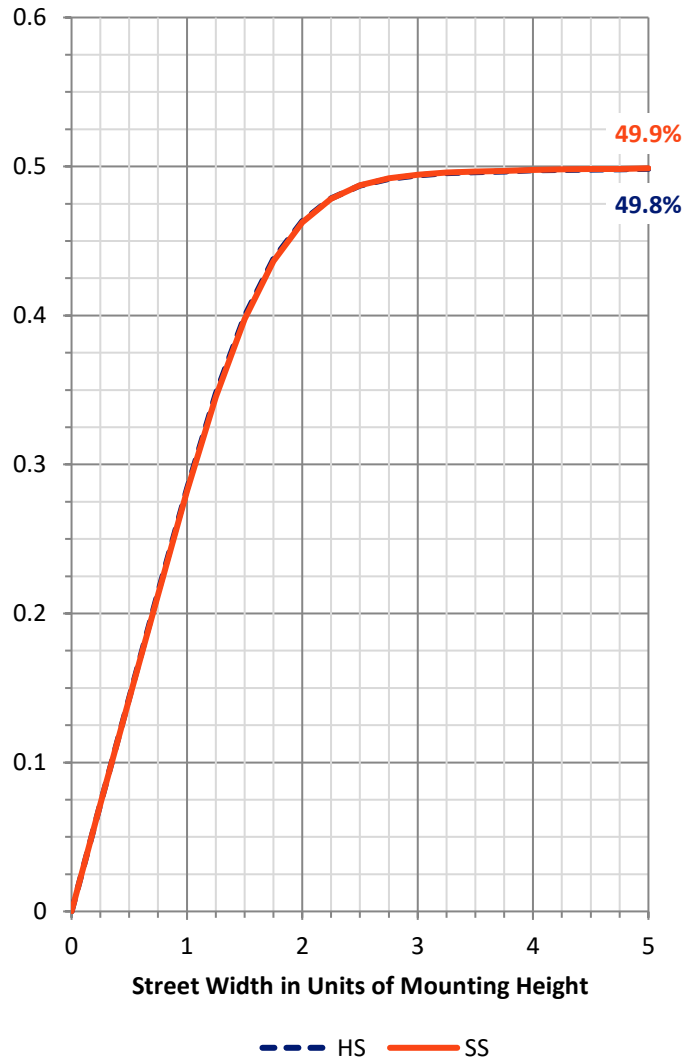
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32960.0	0.0	32960.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	32960.0	0.0	32960.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	65920.0	0.0	65920.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.2	0.7
10°-20°	1510.1	2.3
20°-30°	3207.3	4.9
30°-40°	6800.6	10.3
40°-50°	12932.9	19.6
50°-60°	20517.4	31.1
60°-70°	17342.6	26.3
70°-80°	2853.1	4.3
80°-90°	292.6	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°	65920.0	100.0
0°-180°	65920.0	100.0

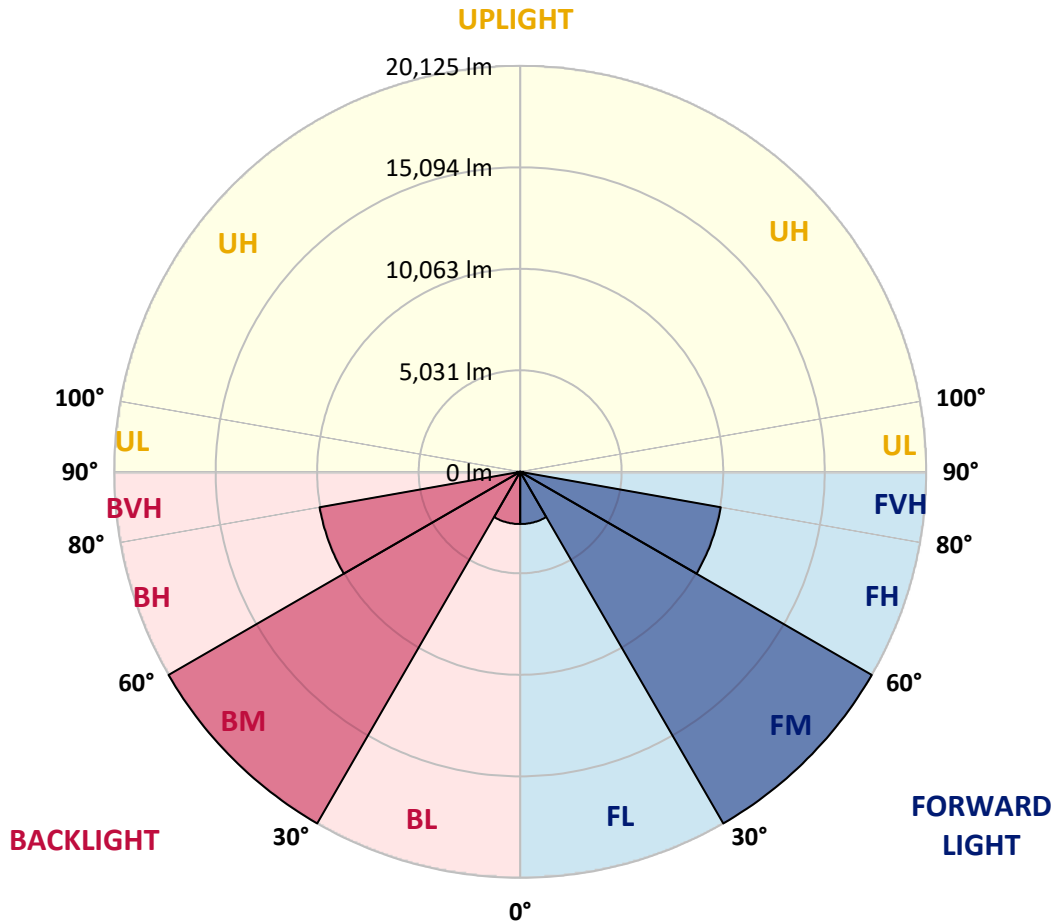


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2590.3	3.9			
FM (30°-60°)	20125.5	30.5			
FH (60°-80°)	10097.9	15.3			G4/12000
FVH (80°-90°)	146.3	0.2			G2/225
BL (0°-30°)	2590.3	3.9	B4/5000		
BM (30°-60°)	20125.5	30.5	B5		
BH (60°-80°)	10097.9	15.3	B5		G4/12000
BVH (80°-90°)	146.3	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°	4732.8	4732.8	4732.8	4732.8	4732.8	4732.8	4732.8	4732.8	4732.8	4732.8	4732.8
2.5°	4767.0	4755.2	4751.5	4746.5	4749.0	4750.2	4757.1	4757.7	4757.7	4763.9	4774.4
5°	4820.4	4804.9	4799.3	4793.1	4796.2	4799.3	4805.5	4809.2	4808.6	4812.3	4821.7
7.5°	4878.2	4872.6	4865.8	4862.0	4862.0	4870.7	4866.4	4873.2	4872.6	4877.0	4882.5
10°	4963.9	4951.5	4950.9	4944.1	4947.2	4954.6	4955.9	4954.6	4955.9	4958.3	4971.4
12.5°	5072.7	5069.5	5071.4	5065.8	5064.0	5072.0	5073.9	5082.0	5084.5	5091.9	5100.0
15°	5247.9	5228.0	5225.5	5224.9	5228.6	5241.0	5244.7	5259.7	5266.5	5277.1	5295.1
17.5°	5446.0	5452.9	5440.4	5439.2	5438.6	5448.5	5458.5	5491.4	5502.0	5526.2	5541.7
20°	5762.3	5749.8	5742.4	5712.6	5705.1	5722.5	5758.5	5802.0	5822.5	5861.0	5890.2
22.5°	6184.7	6163.6	6112.7	6077.2	6062.3	6092.2	6131.3	6200.9	6283.5	6331.3	6344.4
25°	6795.4	6712.2	6648.8	6586.1	6563.7	6607.8	6671.2	6781.8	6885.5	6981.2	7025.3
27.5°	7539.1	7486.3	7360.2	7261.4	7222.2	7259.5	7391.2	7547.2	7737.3	7836.7	7851.6
30°	8483.4	8456.1	8295.2	8110.0	8040.5	8105.1	8260.4	8472.9	8737.5	8941.9	8977.9
32.5°	9652.6	9514.1	9290.4	9078.6	9004.0	9082.9	9238.9	9543.9	9900.5	10126.7	10203.7
35°	10993.3	10836.8	10500.7	10175.1	10078.8	10088.8	10338.5	10768.4	11256.1	11571.7	11658.1
37.5°	12472.0	12312.3	11915.9	11410.8	11187.8	11204.6	11531.4	12090.5	12759.0	13103.2	13217.5
40°	14050.0	13884.7	13475.9	12906.8	12540.3	12465.7	12902.5	13583.4	14262.5	14677.5	14721.6
42.5°	15592.6	15396.9	15068.2	14499.2	14164.9	13964.9	14492.3	15109.2	15793.9	16167.9	16197.1
45°	16970.6	16932.7	16668.6	16256.1	15980.9	15803.8	16180.3	16792.9	17271.3	17508.0	17594.3
47.5°	18302.6	18279.0	18194.5	18050.3	18118.7	17824.2	18005.0	18282.7	18545.5	18719.4	18786.5
50°	19469.9	19494.8	19660.7	19906.1	20400.6	20102.4	20045.8	19747.0	19754.5	19768.1	19837.7
52.5°	20434.1	20565.8	20983.3	21723.9	22791.8	22785.0	21929.5	21140.5	20783.9	20625.5	20639.8
55°	21274.7	21500.2	22189.8	23718.8	25247.1	25323.5	24159.9	22412.3	21743.8	21405.8	21449.9
57.5°	21738.8	22082.4	23249.7	25570.8	27748.9	27840.9	26544.9	23820.7	22289.9	21434.4	21471.0
60°	20145.9	20724.3	22876.3	26765.5	29662.5	29704.7	28003.0	23931.3	20601.3	19087.2	18865.4
62.5°	16486.0	17287.4	20323.6	25839.8	28775.9	28644.8	27090.4	21859.3	16923.3	15086.9	14900.5
65°	12383.7	13137.3	16316.4	22125.2	25249.0	25076.3	23493.3	17276.2	12407.3	10457.8	10228.6
67.5°	6702.2	7840.4	10815.0	16901.0	20127.9	20713.7	18520.6	12041.4	7220.4	5234.8	5033.5
70°	2314.8	2991.4	5514.4	10609.4	14517.8	15105.5	12629.8	6458.1	3159.8	1975.6	1773.7
72.5°	821.9	947.4	2073.2	5123.6	8265.4	9158.1	6814.7	2597.5	1007.1	733.7	718.8
75°	580.3	598.9	736.8	1670.6	3578.5	4383.0	2687.0	862.3	628.1	587.1	583.4
77.5°	518.1	528.7	597.0	680.3	1093.4	1399.7	826.9	625.6	545.5	522.5	514.4
80°	492.7	500.7	520.6	557.9	620.0	644.9	557.9	534.9	496.4	486.5	483.3
82.5°	430.5	428.7	434.3	449.8	477.8	484.0	447.9	419.4	420.0	408.2	402.6
85°	291.4	308.8	295.7	279.6	346.7	348.5	324.9	243.5	276.5	270.9	247.9
87.5°	88.2	99.4	78.9	54.7	75.2	58.4	52.8	54.7	52.2	45.4	41.0
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)