

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: P721885

Luminaire Tested: **CST-CA8-400-760-U-T5N**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721885
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-CA8-400-760-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64523 lumens
Efficiency: N/A
Efficacy: 161.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

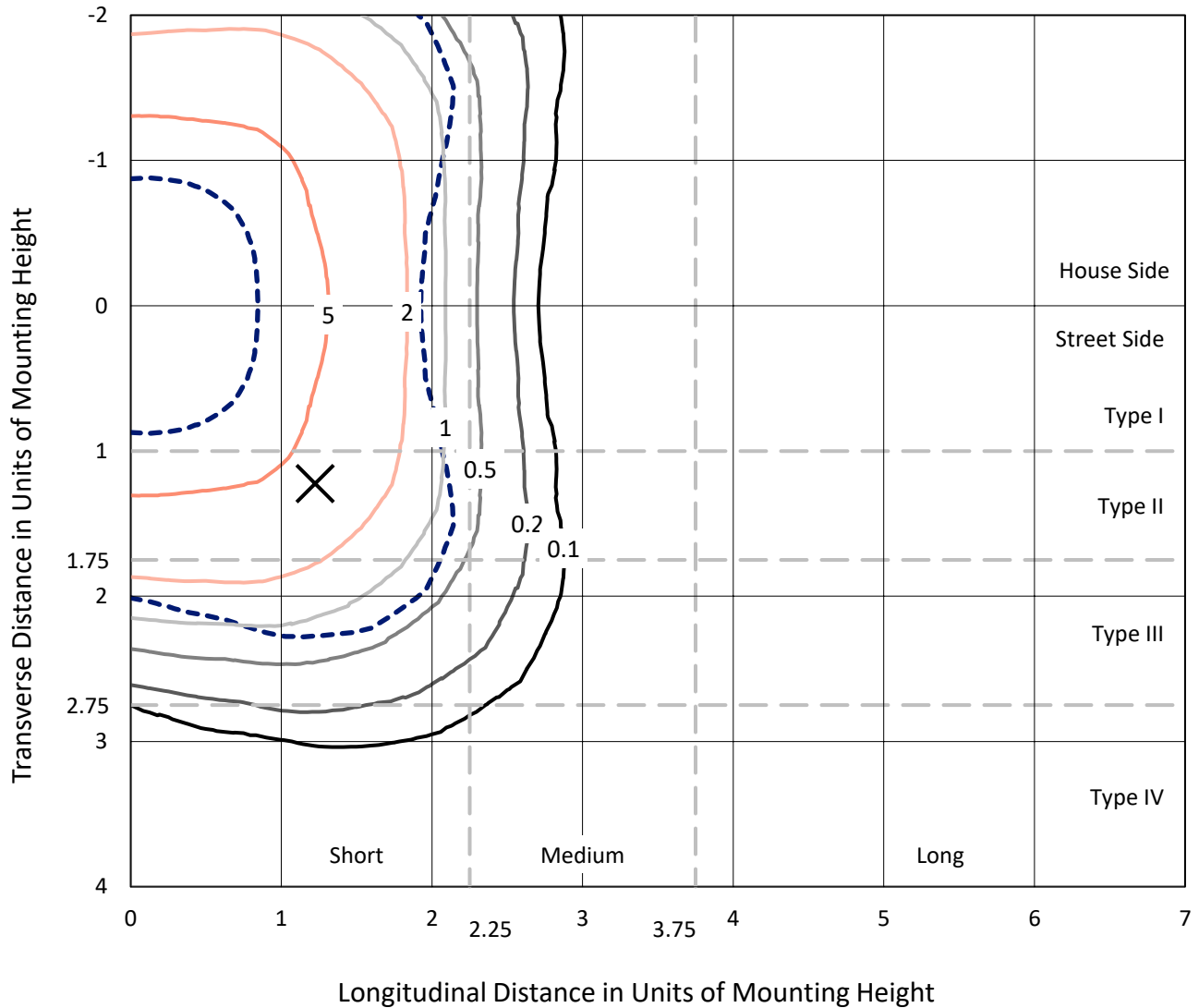
Input Watts (W): 400.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

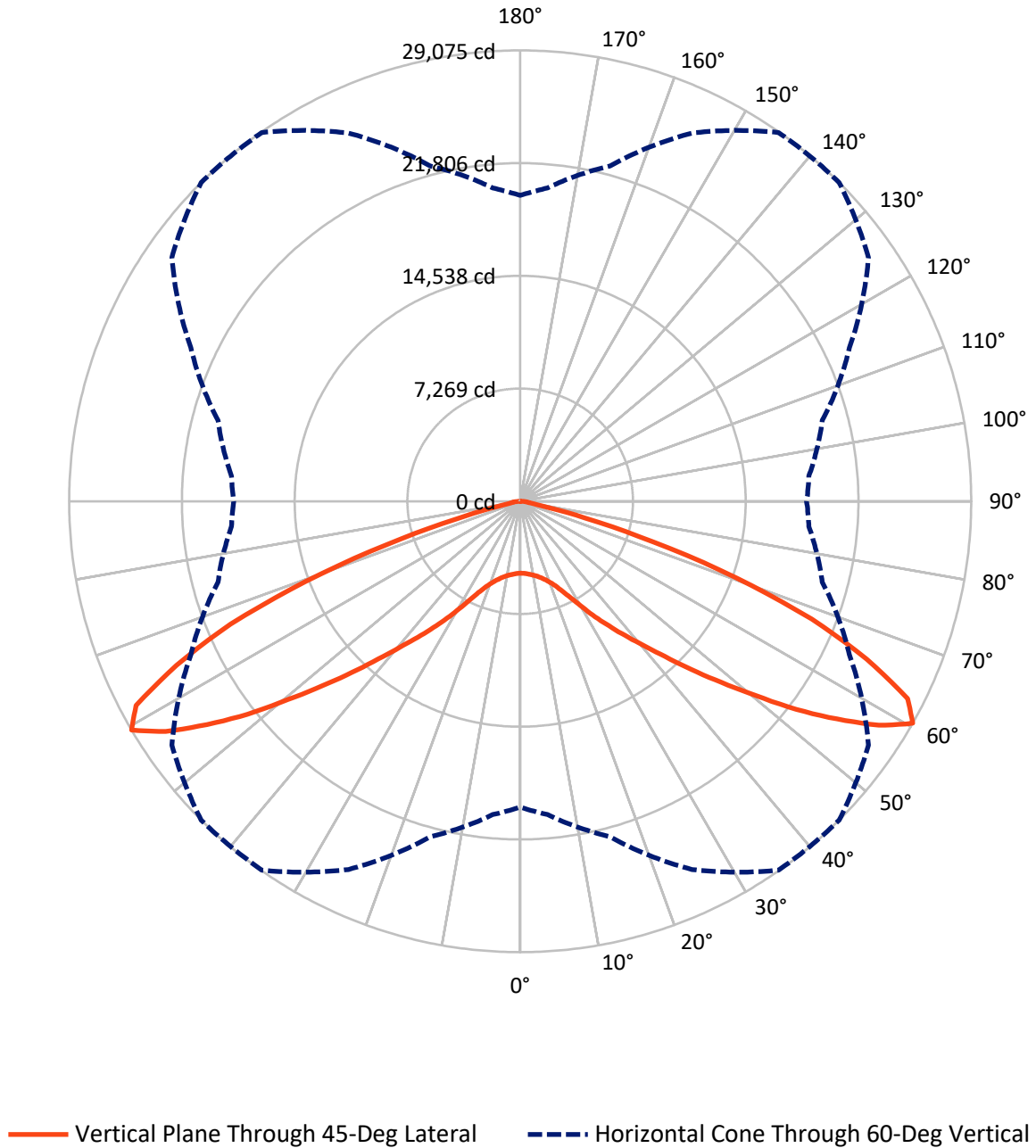
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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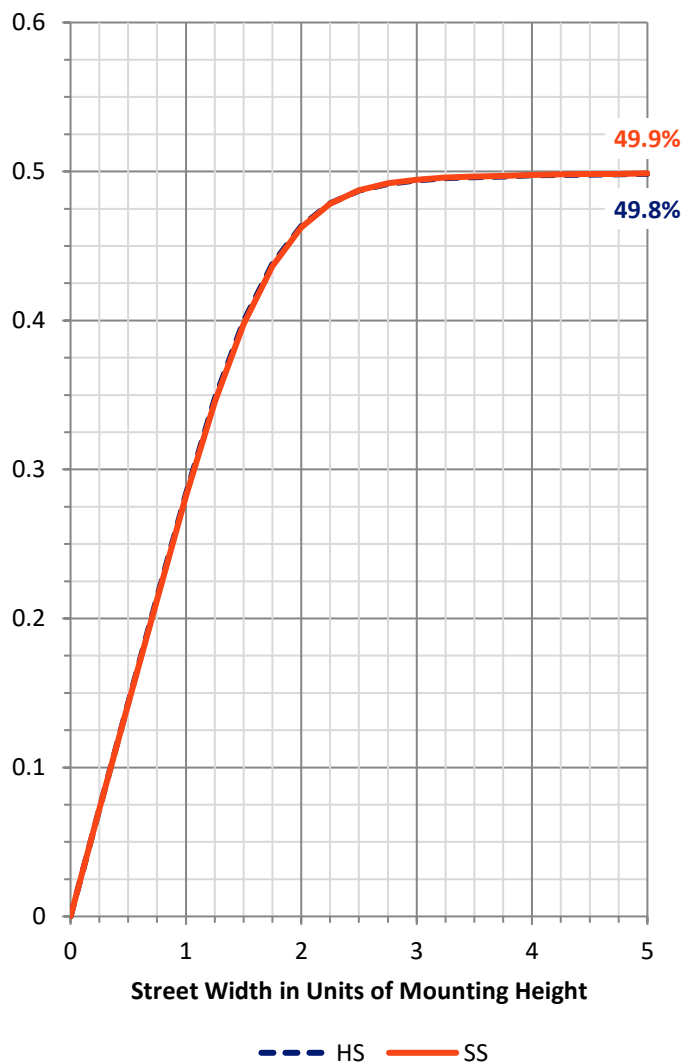
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32261.5	0.0	32261.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	32261.5	0.0	32261.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	64523.0	0.0	64523.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.4	0.7
10°-20°	1478.1	2.3
20°-30°	3139.4	4.9
30°-40°	6656.5	10.3
40°-50°	12658.9	19.6
50°-60°	20082.6	31.1
60°-70°	16975.1	26.3
70°-80°	2792.7	4.3
80°-90°	286.4	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°	64523.0	100.0
0°-180°	64523.0	100.0

Coefficient of Utilization

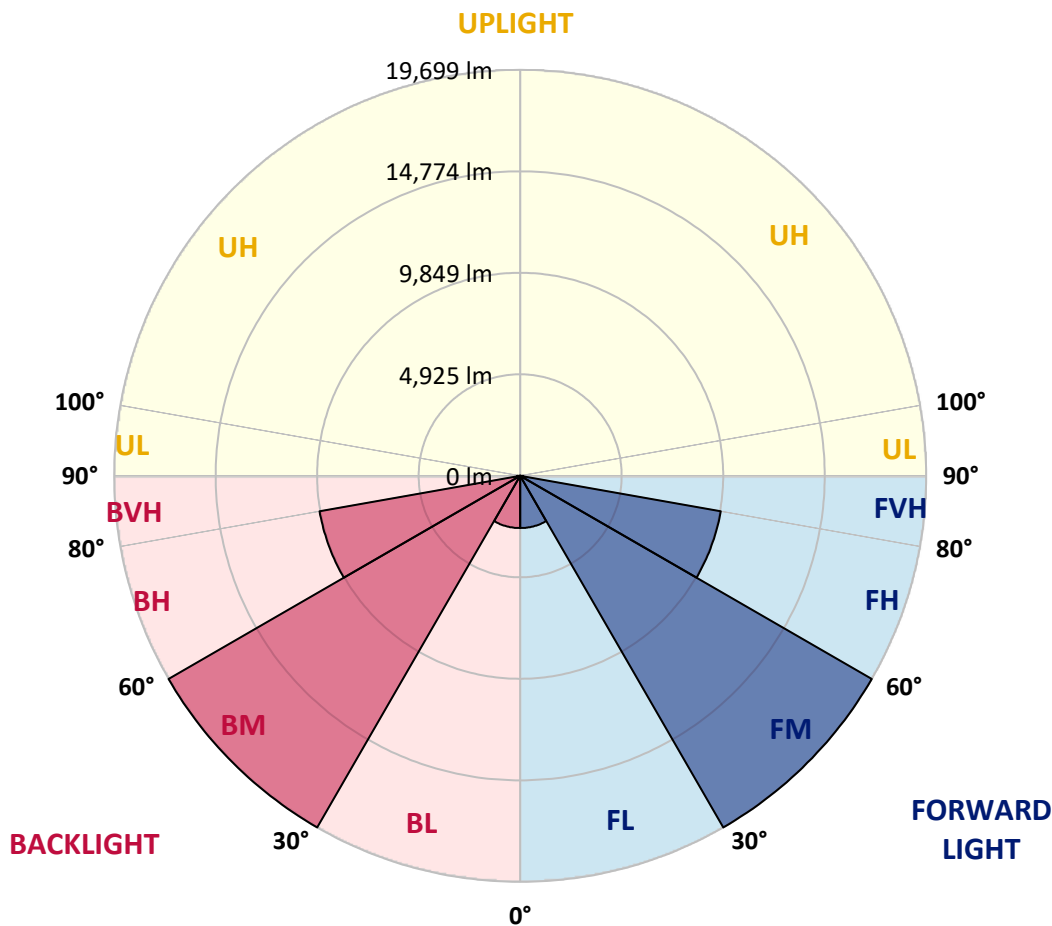


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2535.4	3.9			
FM (30°-60°)	19699.0	30.5			
FH (60°-80°)	9883.9	15.3			G4/12000
FVH (80°-90°)	143.2	0.2			G2/225
BL (0°-30°)	2535.4	3.9	B4/5000		
BM (30°-60°)	19699.0	30.5	B5		
BH (60°-80°)	9883.9	15.3	B5		G4/12000
BVH (80°-90°)	143.2	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°	4632.5	4632.5	4632.5	4632.5	4632.5	4632.5	4632.5	4632.5	4632.5	4632.5	4632.5
2.5°	4666.0	4654.4	4650.8	4645.9	4648.3	4649.5	4656.2	4656.8	4656.8	4662.9	4673.3
5°	4718.3	4703.1	4697.6	4691.5	4694.5	4697.6	4703.7	4707.3	4706.7	4710.4	4719.5
7.5°	4774.8	4769.3	4762.7	4759.0	4759.0	4767.5	4763.3	4770.0	4769.3	4773.6	4779.1
10°	4858.7	4846.6	4846.0	4839.3	4842.3	4849.6	4850.8	4849.6	4850.8	4853.3	4866.0
12.5°	4965.2	4962.1	4963.9	4958.5	4956.6	4964.5	4966.4	4974.3	4976.7	4984.0	4991.9
15°	5136.6	5117.2	5114.7	5114.1	5117.8	5130.0	5133.6	5148.2	5154.9	5165.2	5182.9
17.5°	5330.6	5337.3	5325.2	5323.9	5323.3	5333.1	5342.8	5375.0	5385.4	5409.1	5424.3
20°	5640.1	5628.0	5620.7	5591.5	5584.2	5601.2	5636.5	5679.1	5699.1	5736.8	5765.4
22.5°	6053.7	6033.0	5983.1	5948.5	5933.9	5963.1	6001.4	6069.5	6150.3	6197.2	6209.9
25°	6651.4	6569.9	6507.9	6446.5	6424.6	6467.8	6529.8	6638.0	6739.6	6833.2	6876.4
27.5°	7379.3	7327.6	7204.2	7107.5	7069.2	7105.7	7234.6	7387.2	7573.3	7670.6	7685.2
30°	8303.6	8276.9	8119.4	7938.2	7870.1	7933.3	8085.3	8293.3	8552.3	8752.4	8787.7
32.5°	9448.1	9312.5	9093.6	8886.2	8813.2	8890.5	9043.1	9341.7	9690.7	9912.1	9987.5
35°	10760.4	10607.1	10278.1	9959.5	9865.2	9875.0	10119.4	10540.2	11017.6	11326.5	11411.0
37.5°	12207.7	12051.4	11663.4	11169.0	10950.7	10967.1	11287.0	11834.3	12488.6	12825.5	12937.4
40°	13752.2	13590.5	13190.3	12633.3	12274.5	12201.6	12629.1	13295.5	13960.2	14366.4	14409.6
42.5°	15262.1	15070.6	14748.9	14191.9	13864.7	13668.9	14185.2	14789.0	15459.2	15825.3	15853.8
45°	16610.9	16573.8	16315.4	15911.6	15642.2	15468.9	15837.4	16437.0	16905.2	17136.9	17221.5
47.5°	17914.7	17891.6	17808.9	17667.8	17734.7	17446.5	17623.4	17895.2	18152.5	18322.7	18388.4
50°	19057.3	19081.6	19244.0	19484.2	19968.3	19676.4	19621.0	19328.5	19335.8	19349.2	19417.3
52.5°	20001.1	20130.0	20538.7	21263.5	22308.8	22302.1	21464.8	20692.5	20343.5	20188.4	20202.4
55°	20823.9	21044.6	21719.6	23216.1	24712.1	24786.9	23647.9	21937.3	21283.0	20952.2	20995.3
57.5°	21278.1	21614.4	22757.0	25028.9	27160.9	27250.9	25982.4	23315.9	21817.5	20980.1	21016.0
60°	19718.9	20285.1	22391.5	26198.3	29033.8	29075.2	27409.6	23424.1	20164.7	18682.7	18465.6
62.5°	16136.6	16921.1	19892.8	25292.2	28166.1	28037.8	26516.3	21396.1	16564.7	14767.2	14584.7
65°	12121.3	12858.9	15970.6	21656.3	24713.9	24544.8	22995.4	16910.1	12144.4	10236.2	10011.8
67.5°	6560.2	7674.2	10585.8	16542.8	19701.3	20274.7	18128.1	11786.2	7067.4	5123.9	4926.8
70°	2265.8	2928.0	5397.5	10384.6	14210.1	14785.4	12362.1	6321.2	3092.8	1933.8	1736.1
72.5°	804.5	927.4	2029.2	5015.0	8090.2	8964.0	6670.3	2542.5	985.7	718.2	703.6
75°	568.0	586.2	721.2	1635.2	3502.7	4290.2	2630.0	844.0	614.8	574.7	571.0
77.5°	507.2	517.5	584.4	665.9	1070.3	1370.1	809.4	612.4	533.9	511.4	503.5
80°	482.2	490.1	509.6	546.1	606.9	631.2	546.1	523.6	485.9	476.1	473.1
82.5°	421.4	419.6	425.1	440.3	467.6	473.7	438.4	410.5	411.1	399.5	394.1
85°	285.2	302.2	289.5	273.6	339.3	341.1	318.0	238.4	270.6	265.1	242.6
87.5°	86.4	97.3	77.2	53.5	73.6	57.2	51.7	53.5	51.1	44.4	40.1
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)