

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: P721945

Luminaire Tested: **CST-CA8-430-760-U-T5N**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721945
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-CA8-430-760-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: 69273 lumens
Efficiency: N/A
Efficacy: 159.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

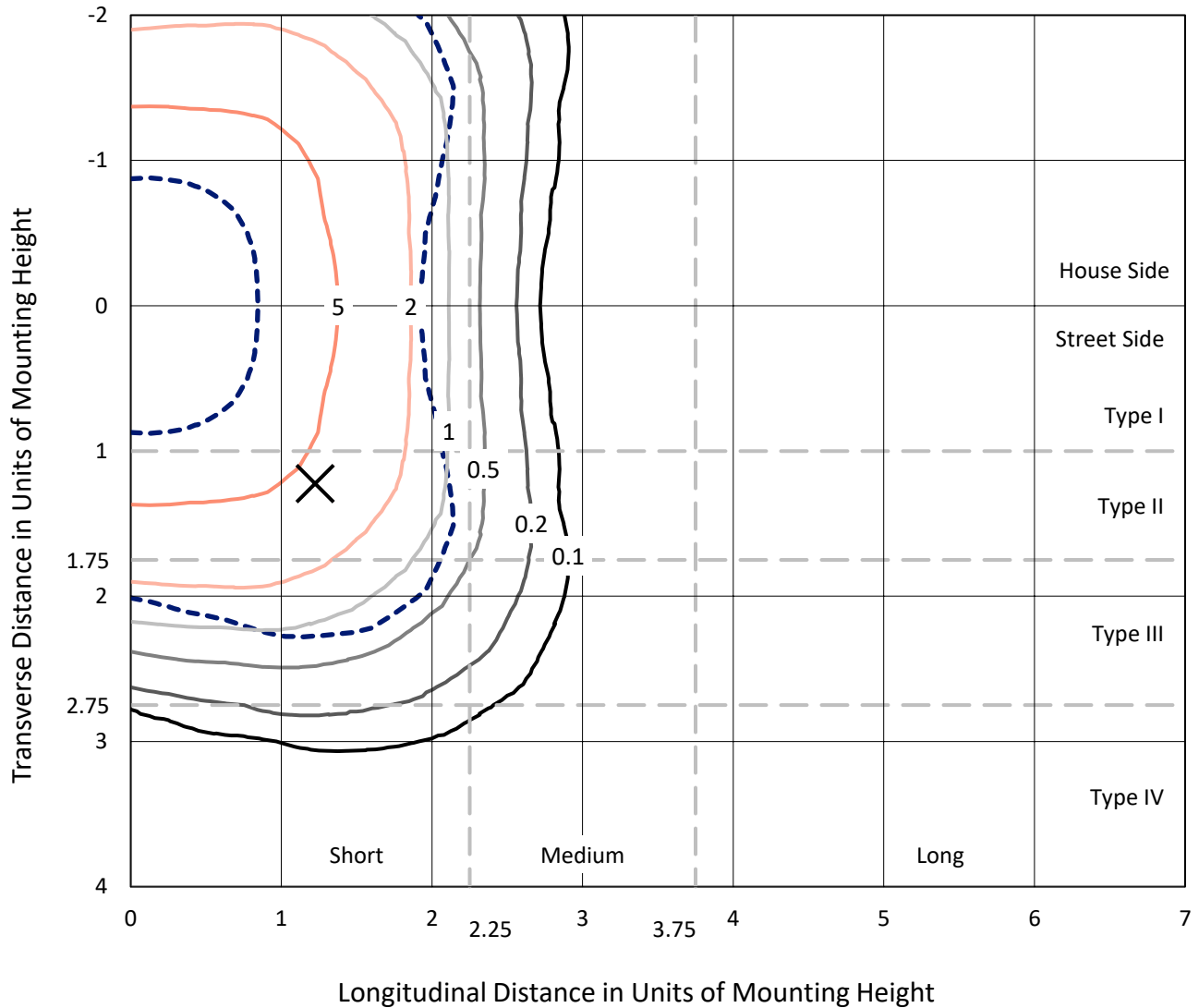
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

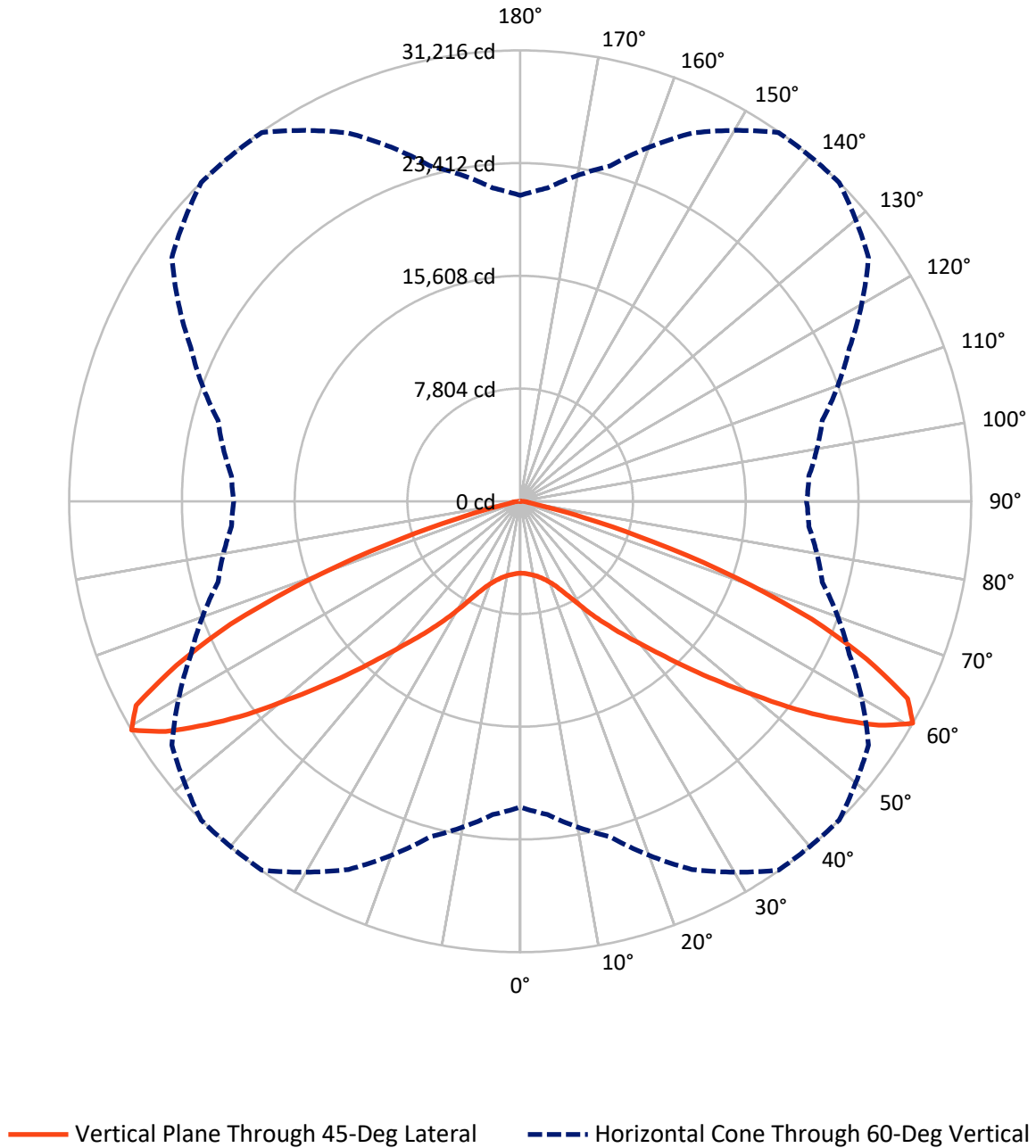
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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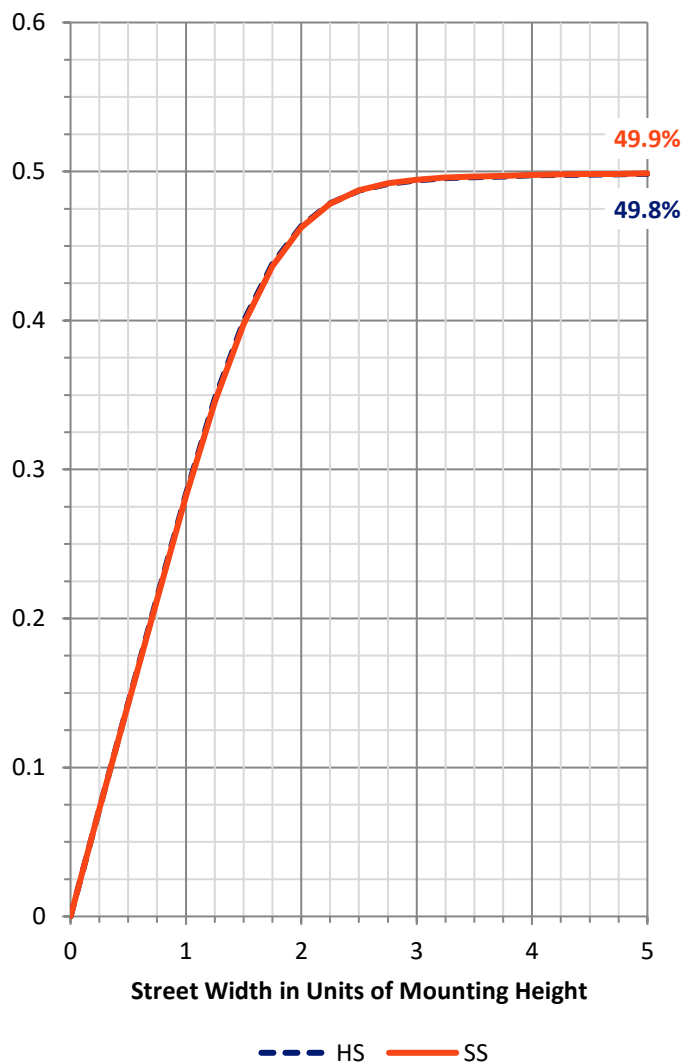
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34636.5	0.0	34636.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	34636.5	0.0	34636.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	69273.0	0.0	69273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.8	0.7
10°-20°	1586.9	2.3
20°-30°	3370.5	4.9
30°-40°	7146.6	10.3
40°-50°	13590.8	19.6
50°-60°	21561.0	31.1
60°-70°	18224.8	26.3
70°-80°	2998.3	4.3
80°-90°	307.5	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°	69273.0	100.0
0°-180°	69273.0	100.0

Coefficient of Utilization

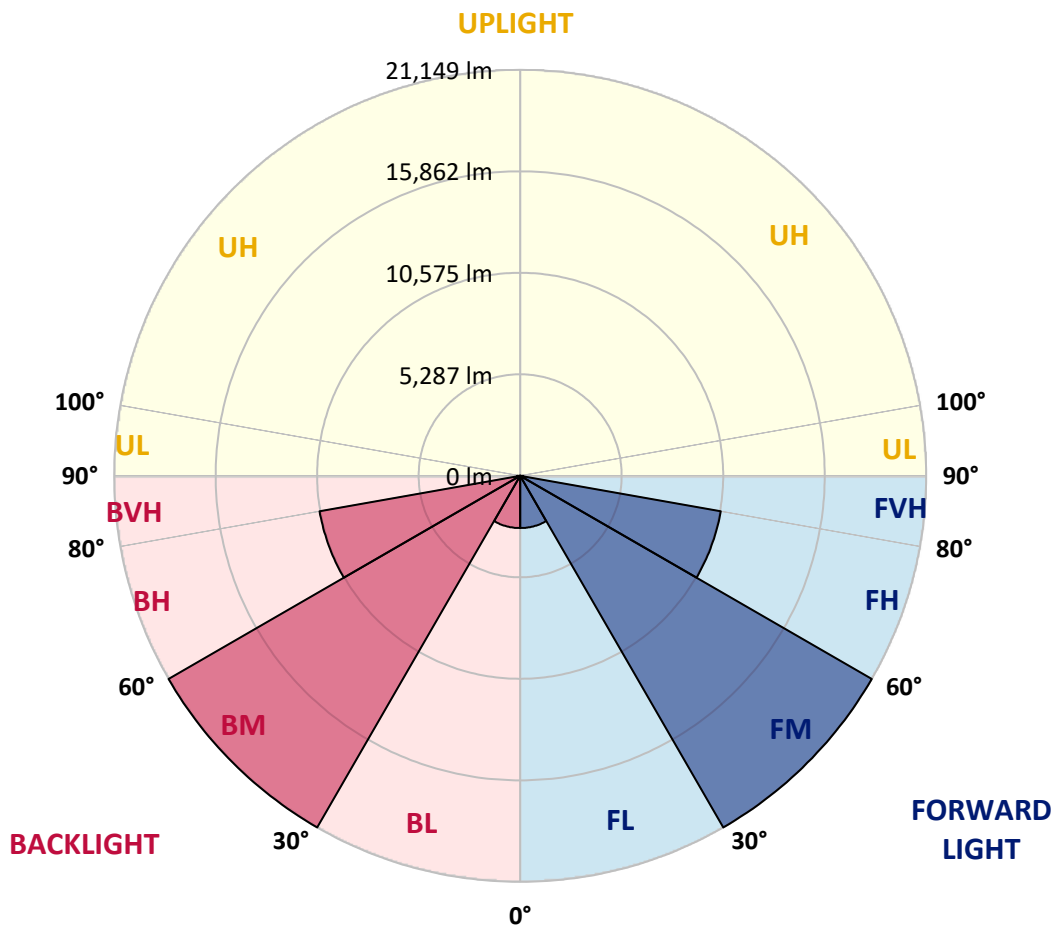


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2722.1	3.9			
FM (30°-60°)	21149.2	30.5			
FH (60°-80°)	10611.5	15.3			G4/12000
FVH (80°-90°)	153.7	0.2			G2/225
BL (0°-30°)	2722.1	3.9	B4/5000		
BM (30°-60°)	21149.2	30.5	B5		
BH (60°-80°)	10611.5	15.3	B5		G4/12000
BVH (80°-90°)	153.7	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°	4973.6	4973.6	4973.6	4973.6	4973.6	4973.6	4973.6	4973.6	4973.6	4973.6	4973.6
2.5°	5009.5	4997.1	4993.1	4987.9	4990.5	4991.8	4999.0	4999.7	4999.7	5006.2	5017.3
5°	5065.6	5049.3	5043.4	5036.9	5040.1	5043.4	5049.9	5053.9	5053.2	5057.1	5066.9
7.5°	5126.3	5120.5	5113.3	5109.4	5109.4	5118.5	5113.9	5121.1	5120.5	5125.0	5130.9
10°	5216.4	5203.4	5202.7	5195.5	5198.8	5206.6	5207.9	5206.6	5207.9	5210.5	5224.3
12.5°	5330.7	5327.4	5329.4	5323.5	5321.5	5330.0	5332.0	5340.5	5343.1	5350.9	5359.4
15°	5514.8	5493.9	5491.3	5490.6	5494.5	5507.6	5511.5	5527.2	5534.4	5545.5	5564.4
17.5°	5723.0	5730.2	5717.2	5715.9	5715.2	5725.7	5736.1	5770.7	5781.8	5807.3	5823.6
20°	6055.4	6042.3	6034.5	6003.1	5995.3	6013.6	6051.4	6097.1	6118.7	6159.2	6189.9
22.5°	6499.3	6477.1	6423.6	6386.4	6370.7	6402.0	6443.2	6516.3	6603.1	6653.4	6667.1
25°	7141.1	7053.6	6987.0	6921.1	6897.6	6943.9	7010.5	7126.7	7235.7	7336.3	7382.6
27.5°	7922.6	7867.1	7734.5	7630.7	7589.6	7628.8	7767.2	7931.1	8130.8	8235.3	8251.0
30°	8914.9	8886.2	8717.1	8522.6	8449.4	8517.3	8680.5	8903.8	9181.9	9396.7	9434.6
32.5°	10143.6	9998.0	9763.0	9540.4	9462.0	9544.9	9708.8	10029.4	10404.1	10641.8	10722.7
35°	11552.5	11388.0	11034.8	10692.7	10591.5	10601.9	10864.4	11316.2	11828.7	12160.3	12251.1
37.5°	13106.3	12938.6	12522.0	11991.2	11756.9	11774.5	12117.9	12705.5	13408.0	13769.7	13889.8
40°	14764.6	14591.0	14161.4	13563.4	13178.2	13099.8	13558.8	14274.3	14987.9	15424.0	15470.4
42.5°	16385.7	16180.1	15834.7	15236.7	14885.4	14675.2	15229.5	15877.8	16597.2	16990.3	17020.9
45°	17833.8	17793.9	17516.5	17083.0	16793.7	16607.7	17003.3	17647.0	18149.8	18398.5	18489.2
47.5°	19233.5	19208.7	19119.9	18968.5	19040.3	18730.8	18920.8	19212.6	19488.8	19671.6	19742.1
50°	20460.3	20486.4	20660.7	20918.6	21438.3	21124.9	21065.5	20751.4	20759.3	20773.6	20846.8
52.5°	21473.5	21611.9	22050.6	22828.9	23951.2	23944.0	23045.0	22215.8	21841.1	21674.6	21689.6
55°	22356.8	22593.8	23318.5	24925.2	26531.3	26611.6	25388.8	23552.2	22849.8	22494.6	22541.0
57.5°	22844.5	23205.6	24432.3	26871.4	29160.4	29257.0	27895.1	25032.3	23423.6	22524.6	22563.2
60°	21170.6	21778.4	24039.9	28126.9	31171.2	31215.6	29427.4	25148.5	21649.1	20058.1	19825.0
62.5°	17324.5	18166.7	21357.3	27154.1	30239.6	30101.8	28468.4	22971.2	17784.2	15854.3	15658.4
65°	13013.6	13805.6	17146.3	23250.6	26533.2	26351.7	24688.2	18155.0	13038.4	10989.7	10748.8
67.5°	7043.2	8239.2	11365.1	17760.6	21151.6	21767.3	19462.7	12653.9	7587.6	5501.1	5289.5
70°	2432.6	3143.6	5794.9	11149.0	15256.2	15873.9	13272.2	6786.6	3320.5	2076.1	1863.9
72.5°	863.7	995.6	2178.6	5384.2	8685.8	9623.9	7161.3	2729.6	1058.3	771.0	755.4
75°	609.8	629.4	774.3	1755.6	3760.5	4606.0	2823.7	906.2	660.1	617.0	613.0
77.5°	544.5	555.6	627.4	714.9	1149.0	1470.9	869.0	657.4	573.2	549.1	540.6
80°	517.7	526.2	547.1	586.3	651.6	677.7	586.3	562.1	521.6	511.2	507.9
82.5°	452.4	450.5	456.4	472.7	502.1	508.6	470.7	440.7	441.3	428.9	423.1
85°	306.2	324.5	310.8	293.8	364.3	366.3	341.5	255.9	290.5	284.7	260.5
87.5°	92.7	104.5	82.9	57.5	79.0	61.4	55.5	57.5	54.8	47.7	43.1
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)