

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: P721925

Luminaire Tested: **CST-CA8-430-740-U-T5N**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721925
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-CA8-430-740-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69499 lumens
Efficiency: N/A
Efficacy: 160.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

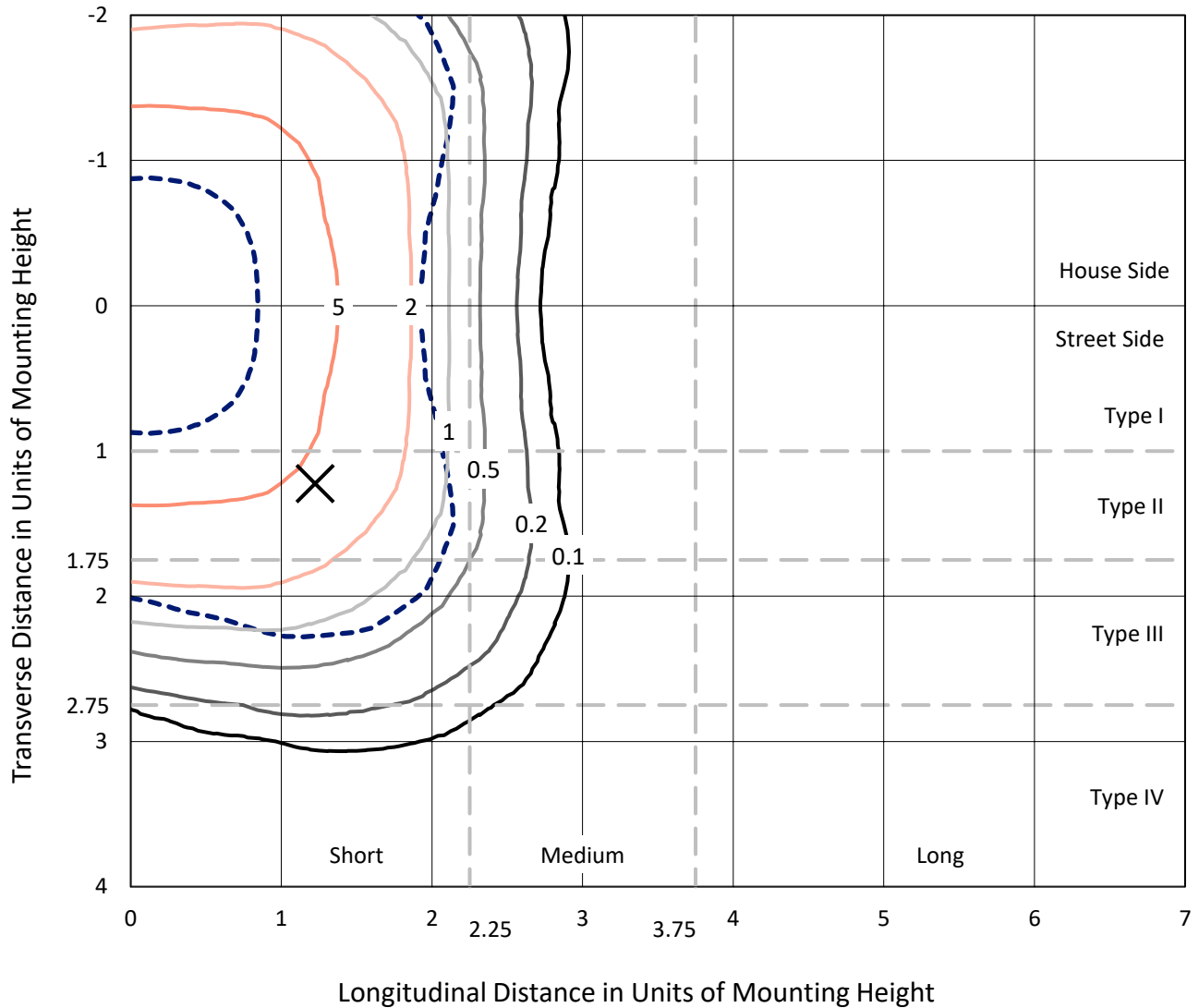
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

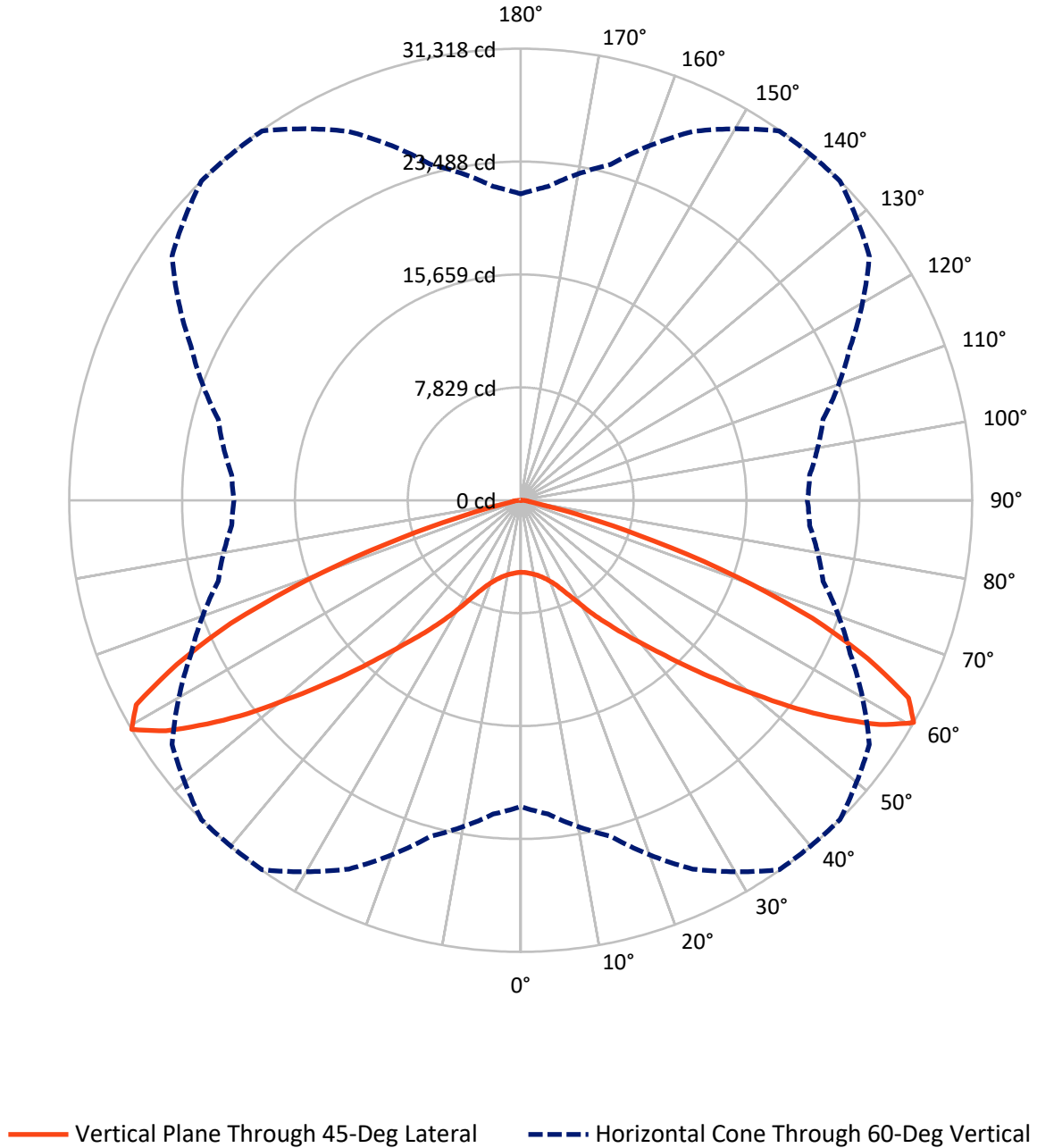
✕ Max cd
 - - - 1/2 Max cd



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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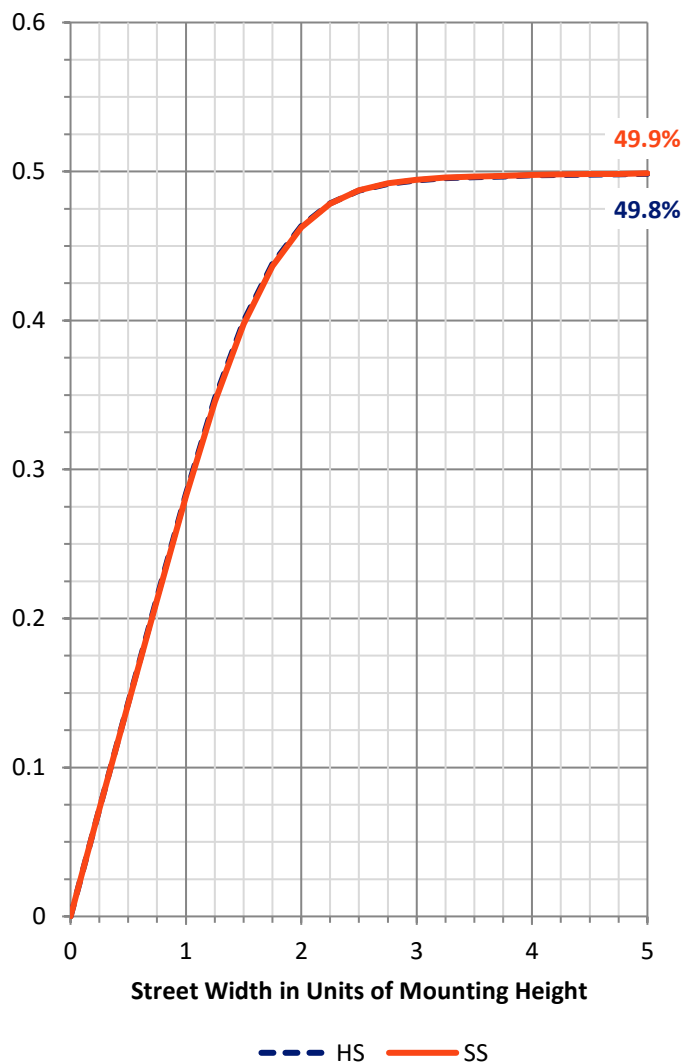
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34749.5	0.0	34749.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	34749.5	0.0	34749.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	69499.0	0.0	69499.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.4	0.7
10°-20°	1592.1	2.3
20°-30°	3381.5	4.9
30°-40°	7169.9	10.3
40°-50°	13635.1	19.6
50°-60°	21631.4	31.1
60°-70°	18284.2	26.3
70°-80°	3008.1	4.3
80°-90°	308.4	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°	69499.0	100.0
0°-180°	69499.0	100.0

Coefficient of Utilization

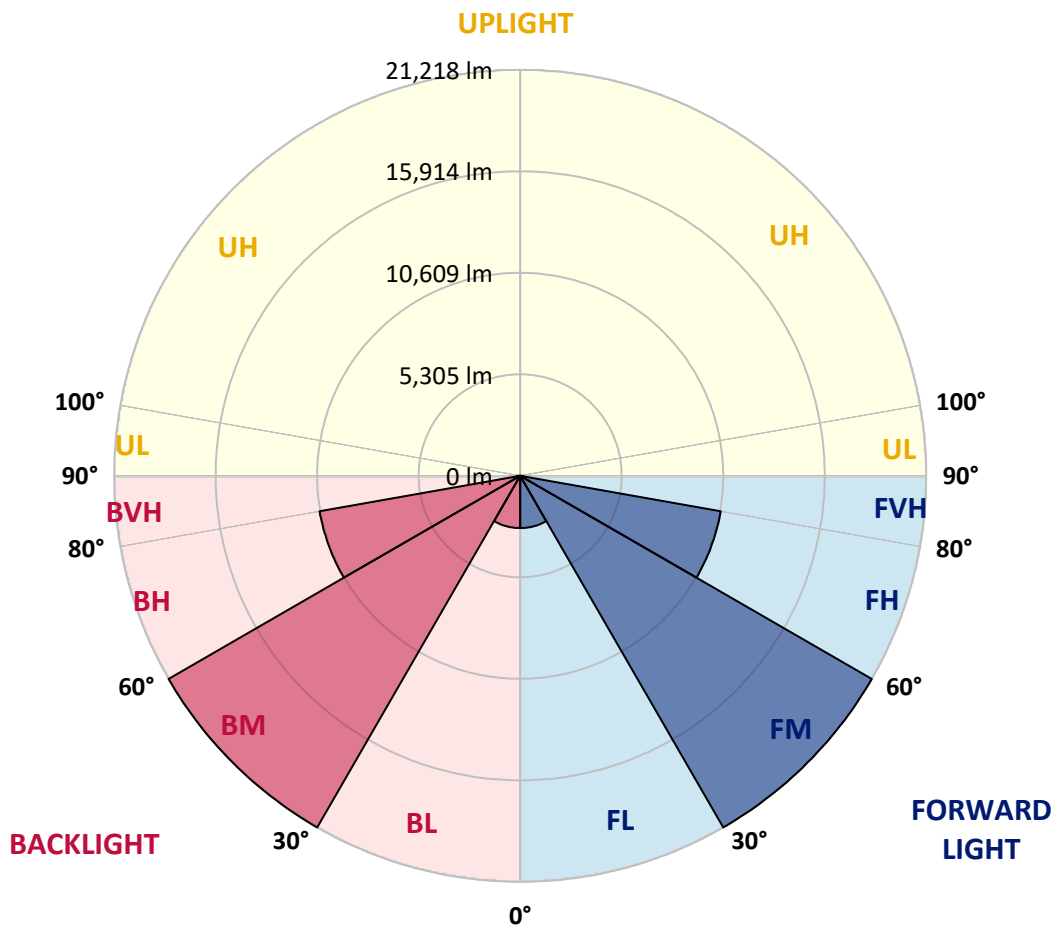


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2731.0	3.9			
FM (30°-60°)	21218.2	30.5			
FH (60°-80°)	10646.1	15.3			G4/12000
FVH (80°-90°)	154.2	0.2			G2/225
BL (0°-30°)	2731.0	3.9	B4/5000		
BM (30°-60°)	21218.2	30.5	B5		
BH (60°-80°)	10646.1	15.3	B5		G4/12000
BVH (80°-90°)	154.2	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°	4989.8	4989.8	4989.8	4989.8	4989.8	4989.8	4989.8	4989.8	4989.8	4989.8	4989.8
2.5°	5025.8	5013.4	5009.4	5004.2	5006.8	5008.1	5015.3	5016.0	5016.0	5022.5	5033.7
5°	5082.1	5065.8	5059.9	5053.3	5056.6	5059.9	5066.4	5070.3	5069.7	5073.6	5083.4
7.5°	5143.1	5137.2	5130.0	5126.0	5126.0	5135.2	5130.6	5137.8	5137.2	5141.7	5147.6
10°	5233.4	5220.3	5219.7	5212.5	5215.8	5223.6	5224.9	5223.6	5224.9	5227.5	5241.3
12.5°	5348.1	5344.8	5346.8	5340.9	5338.9	5347.4	5349.4	5357.9	5360.5	5368.4	5376.9
15°	5532.8	5511.8	5509.2	5508.5	5512.5	5525.6	5529.5	5545.2	5552.4	5563.6	5582.6
17.5°	5741.7	5748.9	5735.8	5734.5	5733.9	5744.3	5754.8	5789.5	5800.7	5826.2	5842.6
20°	6075.1	6062.0	6054.2	6022.7	6014.9	6033.2	6071.2	6117.0	6138.6	6179.3	6210.0
22.5°	6520.5	6498.2	6444.5	6407.2	6391.5	6422.9	6464.2	6537.5	6624.7	6675.1	6688.8
25°	7164.4	7076.6	7009.8	6943.6	6920.1	6966.6	7033.4	7150.0	7259.4	7360.2	7406.7
27.5°	7948.4	7892.7	7759.8	7655.6	7614.4	7653.7	7792.5	7956.9	8157.4	8262.2	8277.9
30°	8944.0	8915.2	8745.5	8550.4	8477.0	8545.1	8708.9	8932.9	9211.9	9427.4	9465.4
32.5°	10176.7	10030.7	9794.9	9571.5	9492.9	9576.1	9740.5	10062.1	10438.1	10676.5	10757.7
35°	11590.2	11425.1	11070.8	10727.6	10626.0	10636.5	10899.8	11353.1	11867.3	12200.0	12291.1
37.5°	13149.1	12980.8	12562.9	12030.4	11795.2	11812.9	12157.4	12746.9	13451.7	13814.6	13935.1
40°	14812.8	14638.6	14207.6	13607.6	13221.2	13142.6	13603.0	14320.9	15036.8	15474.3	15520.9
42.5°	16439.2	16232.8	15886.3	15286.4	14934.0	14723.1	15279.2	15929.6	16651.4	17045.7	17076.5
45°	17892.0	17852.0	17573.6	17138.7	16848.5	16661.9	17058.8	17704.6	18209.0	18458.5	18549.6
47.5°	19296.3	19271.4	19182.3	19030.3	19102.4	18791.9	18982.5	19275.3	19552.4	19735.8	19806.5
50°	20527.0	20553.2	20728.1	20986.8	21508.2	21193.8	21134.2	20819.1	20827.0	20841.4	20914.8
52.5°	21543.6	21682.4	22122.6	22903.3	24029.3	24022.1	23120.2	22288.3	21912.3	21745.3	21760.4
55°	22429.8	22667.5	23394.6	25006.5	26617.8	26698.4	25471.6	23629.1	22924.3	22568.0	22614.5
57.5°	22919.1	23281.3	24512.0	26959.1	29255.5	29352.5	27986.1	25114.0	23500.1	22598.1	22636.8
60°	21239.6	21849.5	24118.4	28218.7	31272.9	31317.5	29523.4	25230.6	21719.8	20123.5	19889.7
62.5°	17381.1	18226.0	21427.0	27242.7	30338.2	30200.0	28561.2	23046.1	17842.2	15906.0	15709.5
65°	13056.1	13850.6	17202.2	23326.5	26619.8	26437.7	24768.8	18214.2	13081.0	11025.6	10783.9
67.5°	7066.1	8266.1	11402.2	17818.6	21220.7	21838.3	19526.2	12695.2	7612.4	5519.0	5306.8
70°	2440.5	3153.8	5813.8	11185.4	15306.0	15925.6	13315.5	6808.7	3331.3	2082.9	1870.0
72.5°	866.6	998.9	2185.7	5401.8	8714.1	9655.3	7184.7	2738.6	1061.8	773.6	757.8
75°	611.8	631.4	776.8	1761.3	3772.8	4621.0	2832.9	909.1	662.2	619.0	615.0
77.5°	546.3	557.4	629.5	717.2	1152.8	1475.7	871.8	659.6	575.1	550.9	542.3
80°	519.4	527.9	548.9	588.2	653.7	679.9	588.2	564.0	523.3	512.9	509.6
82.5°	453.9	451.9	457.8	474.2	503.7	510.2	472.3	442.1	442.8	430.3	424.4
85°	307.2	325.5	311.8	294.7	365.5	367.5	342.6	256.8	291.5	285.6	261.3
87.5°	93.0	104.8	83.2	57.6	79.3	61.6	55.7	57.6	55.0	47.8	43.2
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)