

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: P721895

Luminaire Tested: **CST-CA8-430-722-U-T5N**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721895
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-CA8-430-722-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56642 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

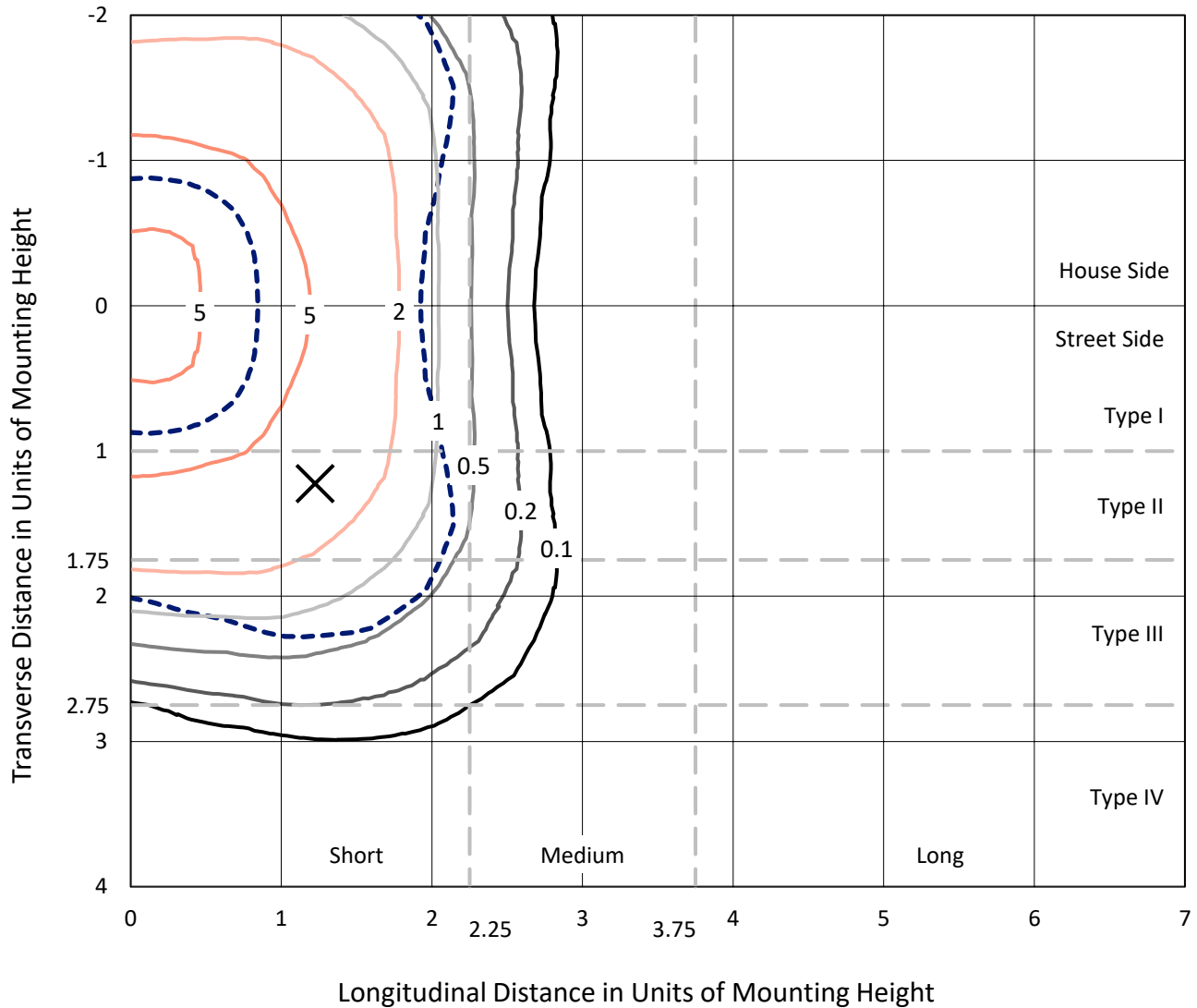
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

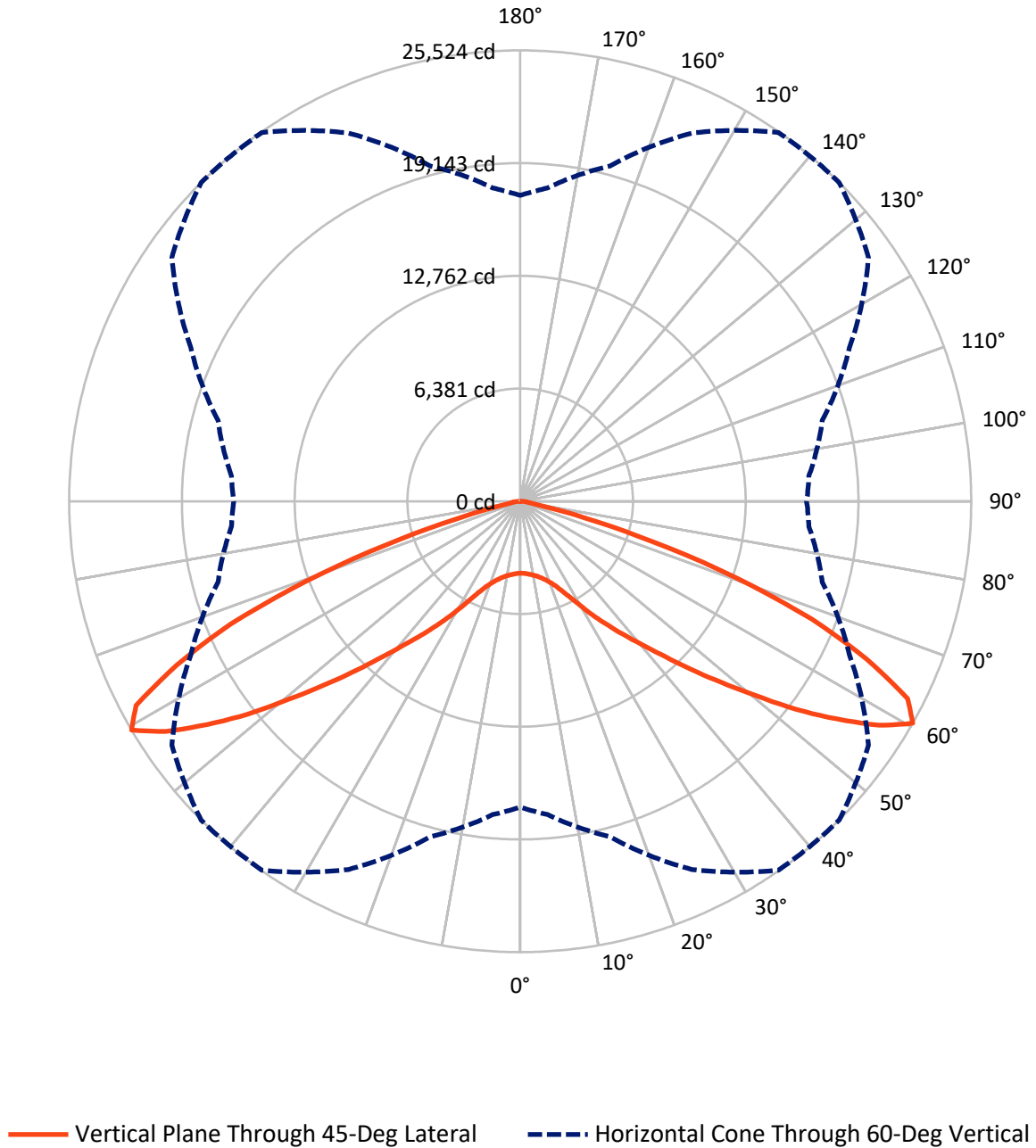
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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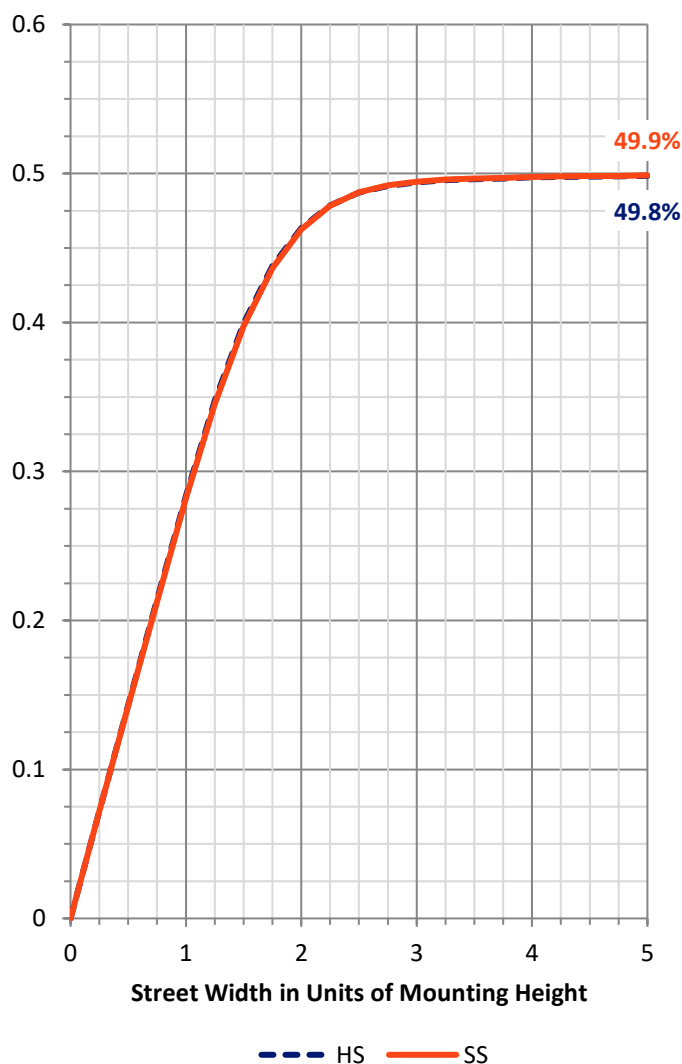
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28321.0	0.0	28321.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28321.0	0.0	28321.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	56642.0	0.0	56642.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.0	0.7
10°-20°	1297.6	2.3
20°-30°	2755.9	4.9
30°-40°	5843.5	10.3
40°-50°	11112.7	19.6
50°-60°	17629.7	31.1
60°-70°	14901.7	26.3
70°-80°	2451.6	4.3
80°-90°	251.4	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°	56642.0	100.0
0°-180°	56642.0	100.0

Coefficient of Utilization

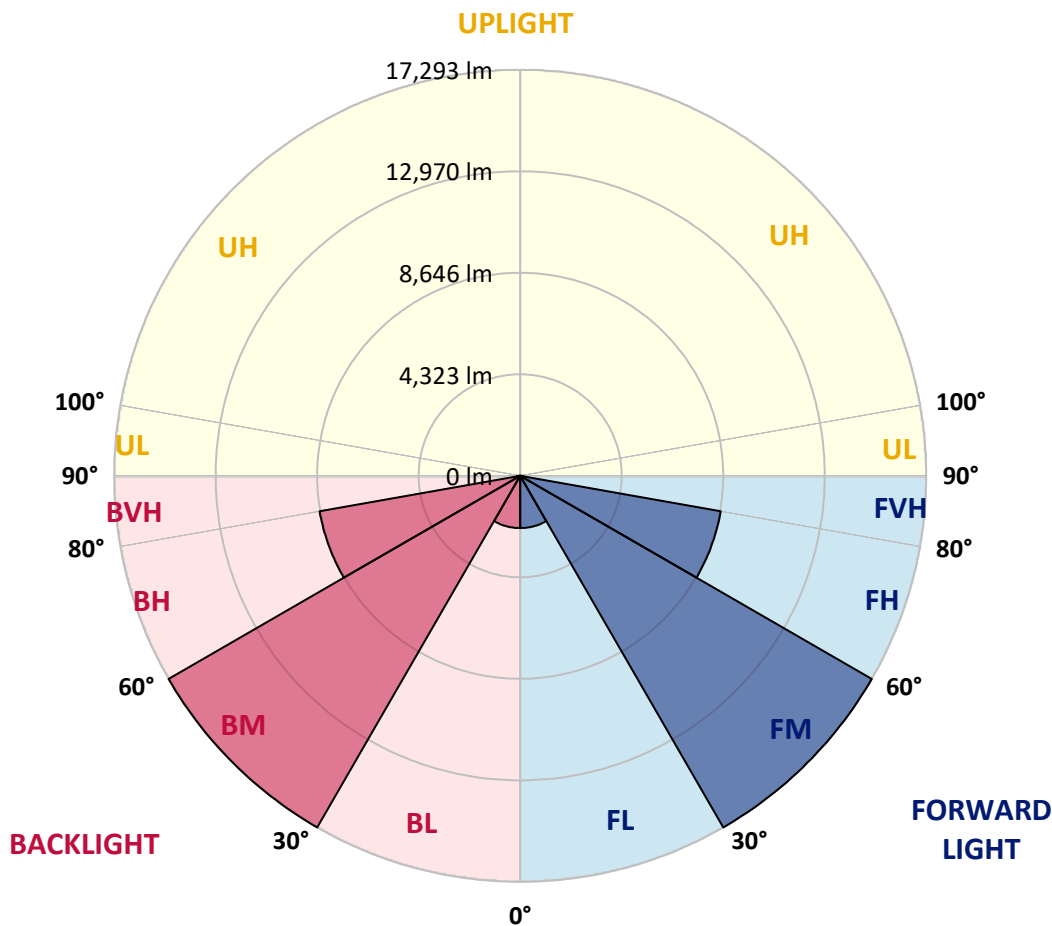


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2225.7	3.9			
FM (30°-60°)	17292.9	30.5			
FH (60°-80°)	8676.6	15.3			G4/12000
FVH (80°-90°)	125.7	0.2			G2/225
BL (0°-30°)	2225.7	3.9	B3/2500		
BM (30°-60°)	17292.9	30.5	B5		
BH (60°-80°)	8676.6	15.3	B5		G4/12000
BVH (80°-90°)	125.7	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°	4066.7	4066.7	4066.7	4066.7	4066.7	4066.7	4066.7	4066.7	4066.7	4066.7	4066.7
2.5°	4096.1	4085.9	4082.7	4078.4	4080.6	4081.6	4087.5	4088.0	4088.0	4093.4	4102.5
5°	4142.0	4128.6	4123.8	4118.5	4121.1	4123.8	4129.2	4132.4	4131.8	4135.0	4143.0
7.5°	4191.6	4186.8	4180.9	4177.7	4177.7	4185.2	4181.5	4187.3	4186.8	4190.5	4195.3
10°	4265.3	4254.6	4254.1	4248.2	4250.9	4257.3	4258.3	4257.3	4258.3	4260.5	4271.7
12.5°	4358.7	4356.0	4357.6	4352.8	4351.2	4358.2	4359.8	4366.7	4368.8	4375.2	4382.2
15°	4509.2	4492.2	4490.0	4489.5	4492.7	4503.4	4506.6	4519.4	4525.3	4534.3	4549.8
17.5°	4679.5	4685.4	4674.7	4673.7	4673.1	4681.7	4690.2	4718.5	4727.6	4748.4	4761.7
20°	4951.2	4940.6	4934.2	4908.5	4902.1	4917.1	4948.0	4985.4	5003.0	5036.1	5061.2
22.5°	5314.2	5296.1	5252.3	5221.9	5209.1	5234.7	5268.3	5328.1	5399.1	5440.2	5451.4
25°	5839.0	5767.5	5713.0	5659.1	5639.9	5677.8	5732.2	5827.3	5916.4	5998.6	6036.5
27.5°	6478.0	6432.6	6324.2	6239.4	6205.7	6237.8	6350.9	6484.9	6648.3	6733.7	6746.5
30°	7289.4	7265.9	7127.7	6968.6	6908.8	6964.3	7097.8	7280.3	7507.7	7683.4	7714.3
32.5°	8294.1	8175.0	7982.9	7800.8	7736.8	7804.6	7938.5	8200.7	8507.1	8701.4	8767.6
35°	9446.1	9311.5	9022.7	8743.0	8660.3	8668.8	8883.4	9252.8	9671.9	9943.1	10017.3
37.5°	10716.6	10579.4	10238.8	9804.8	9613.2	9627.6	9908.4	10388.8	10963.2	11258.9	11357.2
40°	12072.5	11930.5	11579.2	11090.3	10775.3	10711.2	11086.5	11671.6	12255.1	12611.7	12649.6
42.5°	13398.0	13229.8	12947.4	12458.5	12171.3	11999.4	12452.6	12982.7	13571.0	13892.3	13917.4
45°	14582.0	14549.5	14322.6	13968.1	13731.6	13579.5	13903.0	14429.3	14840.4	15043.8	15118.0
47.5°	15726.5	15706.3	15633.7	15509.8	15568.5	15315.5	15470.8	15709.5	15935.3	16084.7	16142.4
50°	16729.6	16751.0	16893.5	17104.4	17529.3	17273.0	17224.5	16967.7	16974.1	16985.8	17045.6
52.5°	17558.1	17671.3	18030.0	18666.3	19584.0	19578.1	18843.0	18165.1	17858.7	17722.5	17734.8
55°	18280.4	18474.2	19066.7	20380.5	21693.7	21759.3	20759.5	19257.8	18683.4	18393.0	18430.9
57.5°	18679.1	18974.3	19977.4	21971.8	23843.4	23922.4	22808.8	20468.0	19152.6	18417.6	18449.1
60°	17310.4	17807.4	19656.6	22998.3	25487.6	25523.9	24061.7	20563.0	17701.7	16400.8	16210.2
62.5°	14165.6	14854.3	17463.1	22202.9	24725.8	24613.2	23277.5	18782.7	14541.4	12963.5	12803.3
65°	10640.8	11288.3	14019.9	19011.2	21695.3	21546.9	20186.7	14844.7	10661.1	8985.9	8788.9
67.5°	5758.9	6736.9	9292.9	14522.2	17294.9	17798.3	15913.9	10346.6	6204.1	4498.0	4325.1
70°	1989.0	2570.4	4738.2	9116.2	12474.5	12979.5	10852.2	5549.1	2715.0	1697.6	1524.1
72.5°	706.3	814.1	1781.4	4402.5	7102.0	7869.1	5855.5	2231.9	865.3	630.4	617.6
75°	498.6	514.6	633.1	1435.5	3074.8	3766.2	2308.8	741.0	539.7	504.5	501.3
77.5°	445.2	454.3	513.0	584.5	939.5	1202.7	710.5	537.6	468.7	448.9	442.0
80°	423.3	430.3	447.3	479.4	532.8	554.1	479.4	459.6	426.5	418.0	415.3
82.5°	369.9	368.3	373.1	386.5	410.5	415.9	384.9	360.3	360.9	350.7	345.9
85°	250.4	265.3	254.1	240.2	297.9	299.5	279.2	209.3	237.6	232.7	213.0
87.5°	75.8	85.4	67.8	47.0	64.6	50.2	45.4	47.0	44.8	39.0	35.2
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)