

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: P510853

Luminaire Tested: **CST-CA8-480-740-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-480-740-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 75740 lumens
Efficiency: N/A
Efficacy: 157.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

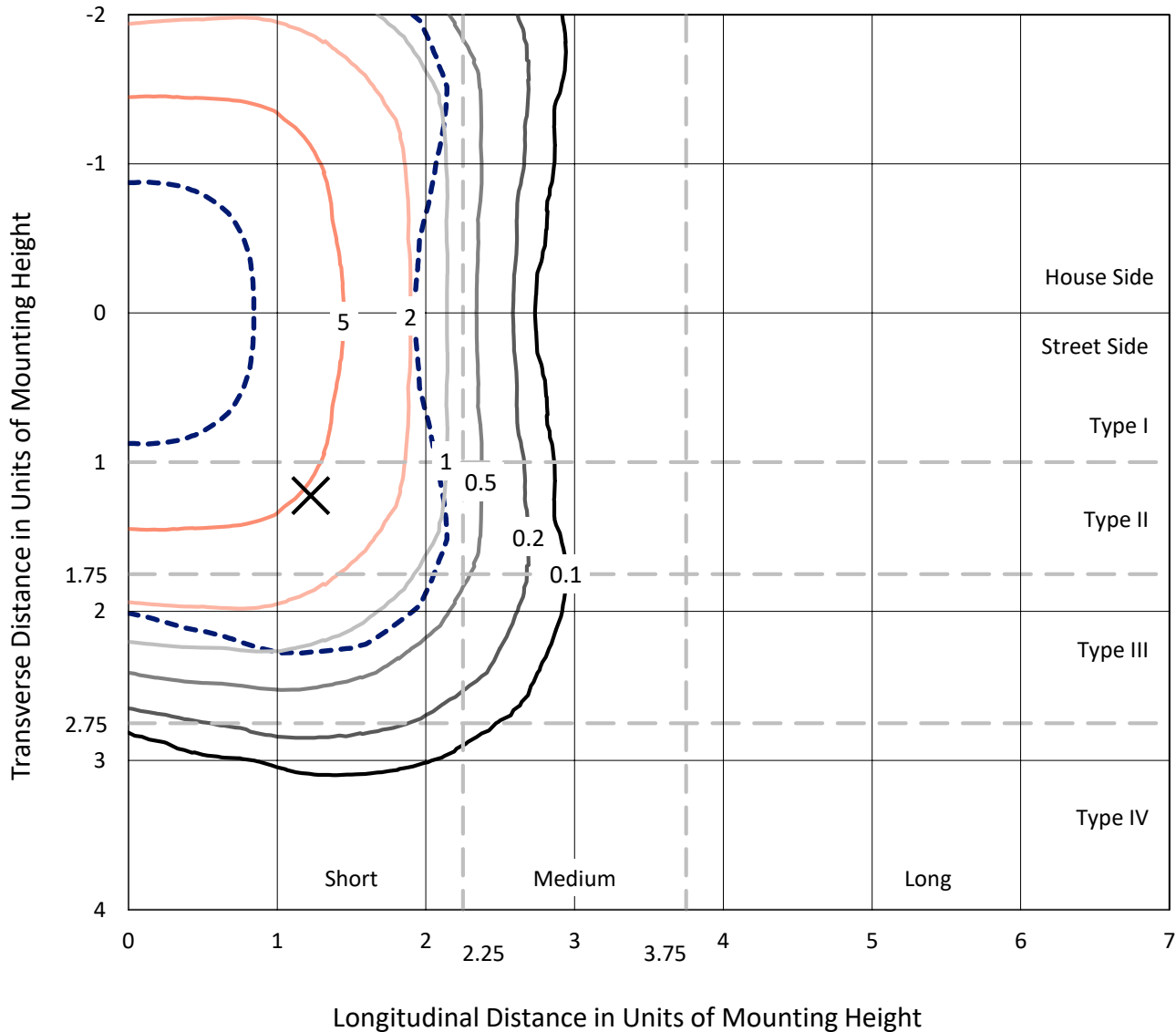
Input Watts (W): 480.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

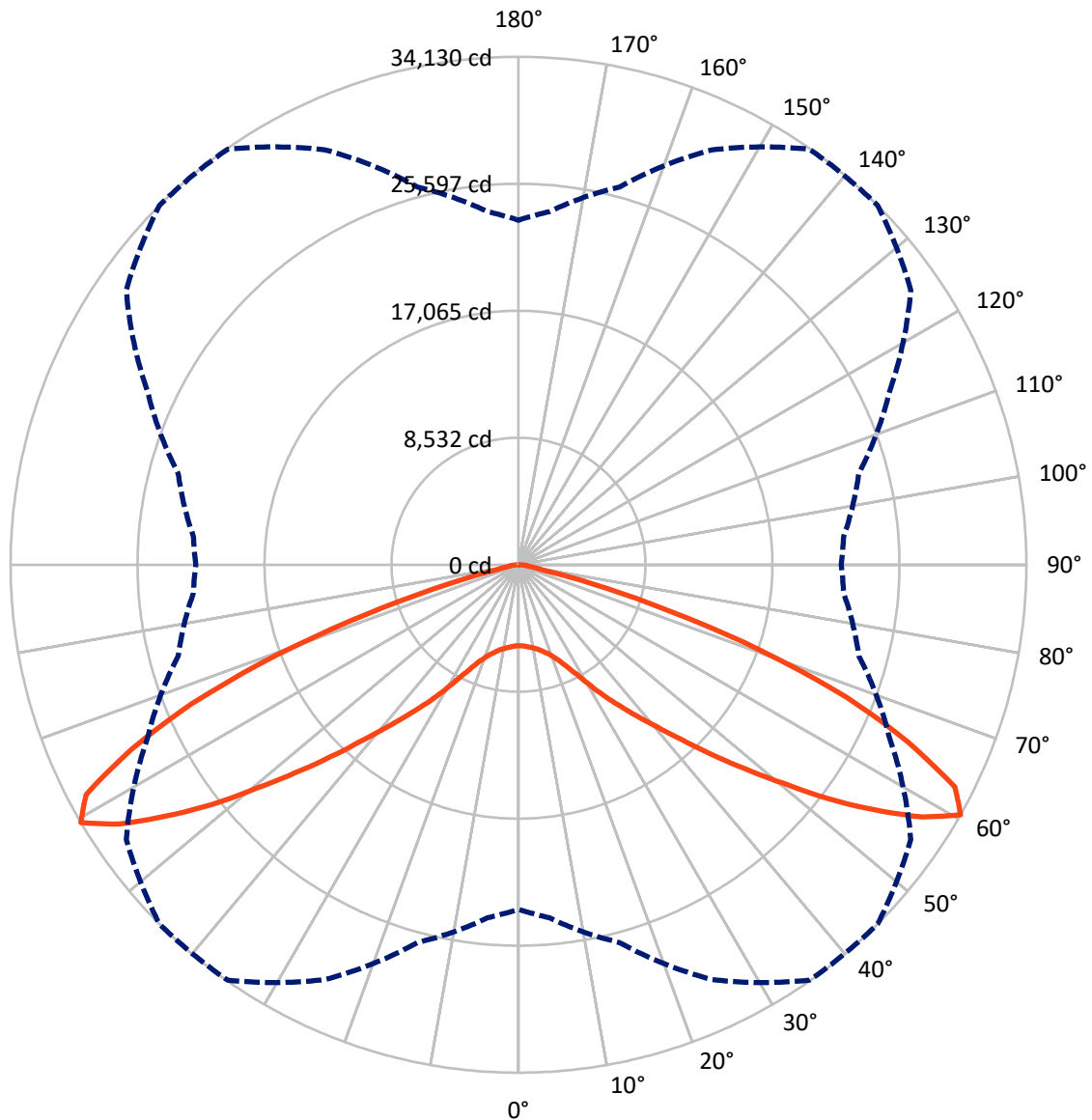
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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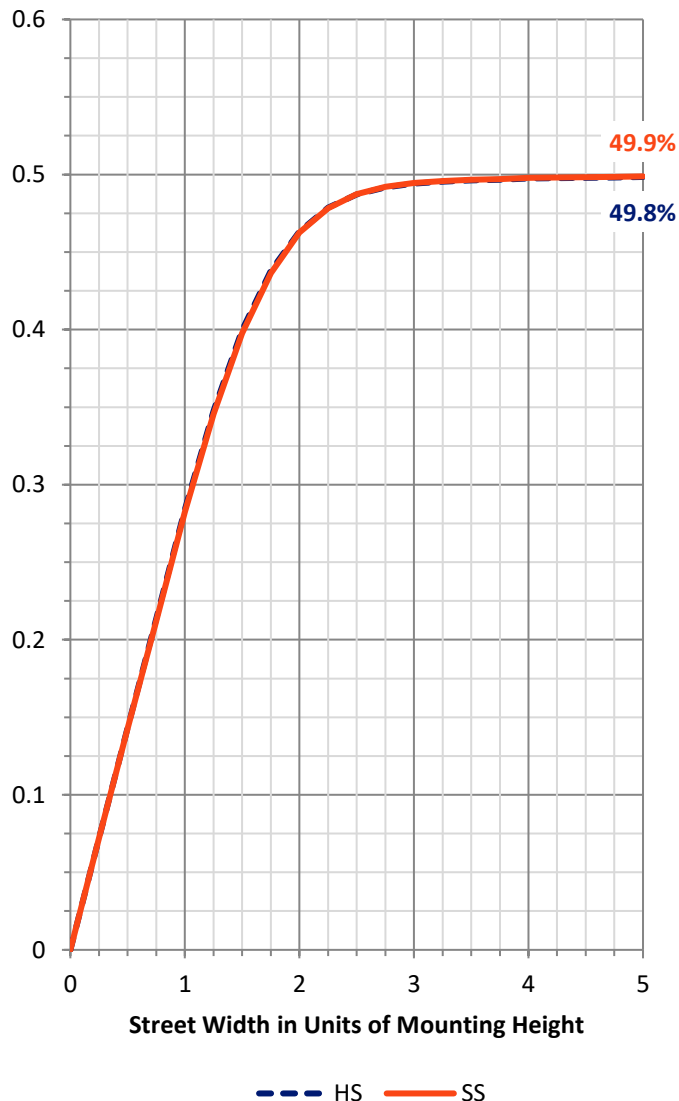
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	37870.0	0.0	37870.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	37870.0	0.0	37870.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	75740.0	0.0	75740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.2	0.7
10°-20°	1735.1	2.3
20°-30°	3685.1	4.9
30°-40°	7813.7	10.3
40°-50°	14859.5	19.6
50°-60°	23573.8	31.1
60°-70°	19926.1	26.3
70°-80°	3278.2	4.3
80°-90°	336.1	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°	75740.0	100.0
0°-180°	75740.0	100.0

Coefficient of Utilization

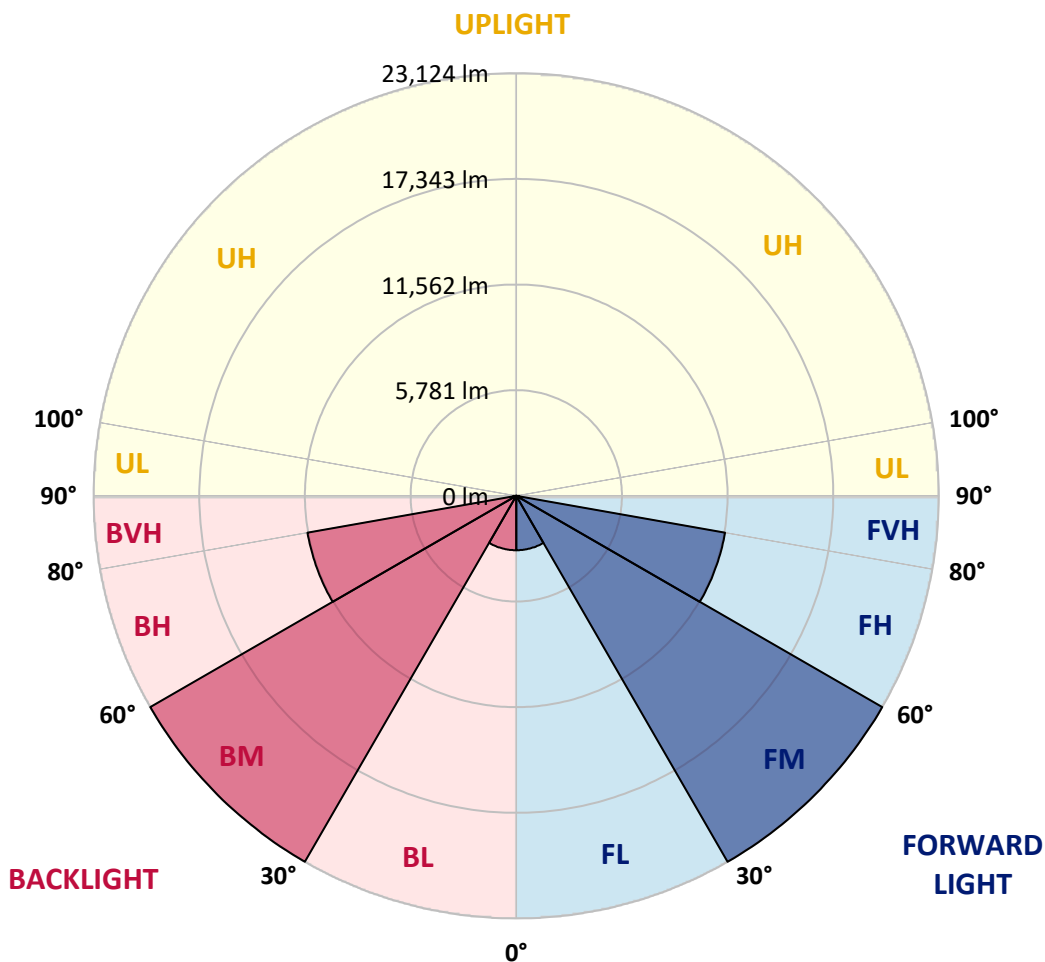


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2976.2	3.9			
FM (30°-60°)	23123.6	30.5			
FH (60°-80°)	11602.2	15.3			G4/12000
FVH (80°-90°)	168.1	0.2			G2/225
BL (0°-30°)	2976.2	3.9	B4/5000		
BM (30°-60°)	23123.6	30.5	B5		
BH (60°-80°)	11602.2	15.3	B5		G4/12000
BVH (80°-90°)	168.1	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°	5437.9	5437.9	5437.9	5437.9	5437.9	5437.9	5437.9	5437.9	5437.9	5437.9	5437.9
2.5°	5477.1	5463.6	5459.3	5453.6	5456.4	5457.9	5465.7	5466.4	5466.4	5473.6	5485.7
5°	5538.5	5520.7	5514.2	5507.1	5510.7	5514.2	5521.4	5525.7	5524.9	5529.2	5539.9
7.5°	5604.9	5598.5	5590.6	5586.3	5586.3	5596.3	5591.3	5599.2	5598.5	5603.5	5609.9
10°	5703.4	5689.1	5688.4	5680.6	5684.1	5692.7	5694.1	5692.7	5694.1	5697.0	5712.0
12.5°	5828.3	5824.8	5826.9	5820.5	5818.3	5827.6	5829.7	5839.0	5841.9	5850.4	5859.7
15°	6029.6	6006.8	6003.9	6003.2	6007.5	6021.8	6026.0	6043.2	6051.0	6063.2	6083.9
17.5°	6257.3	6265.2	6250.9	6249.5	6248.8	6260.2	6271.6	6309.4	6321.6	6349.4	6367.3
20°	6620.7	6606.4	6597.8	6563.6	6555.0	6575.0	6616.4	6666.3	6689.9	6734.2	6767.7
22.5°	7106.1	7081.8	7023.3	6982.6	6965.4	6999.7	7044.7	7124.6	7219.6	7274.5	7289.5
25°	7807.7	7712.1	7639.3	7567.2	7541.5	7592.2	7665.0	7792.0	7911.2	8021.2	8071.9
27.5°	8662.2	8601.5	8456.6	8343.1	8298.1	8341.0	8492.3	8671.5	8889.9	9004.1	9021.2
30°	9747.2	9715.8	9530.9	9318.2	9238.2	9312.5	9490.9	9735.0	10039.1	10274.0	10315.4
32.5°	11090.6	10931.4	10674.4	10431.0	10345.4	10436.0	10615.2	10965.7	11375.4	11635.2	11723.7
35°	12631.0	12451.1	12064.9	11690.9	11580.3	11591.7	11878.6	12372.6	12932.9	13295.6	13394.8
37.5°	14329.9	14146.4	13691.0	13110.7	12854.4	12873.7	13249.2	13891.6	14659.7	15055.1	15186.5
40°	16143.0	15953.1	15483.4	14829.6	14408.4	14322.8	14824.6	15606.9	16387.1	16863.9	16914.6
42.5°	17915.4	17690.5	17312.9	16659.1	16275.0	16045.2	16651.2	17360.0	18146.7	18576.4	18609.9
45°	19498.6	19455.1	19151.7	18677.8	18361.5	18158.1	18590.7	19294.5	19844.1	20116.1	20215.3
47.5°	21029.1	21001.9	20904.9	20739.3	20817.8	20479.4	20687.2	21006.2	21308.2	21508.0	21585.1
50°	22370.3	22398.9	22589.5	22871.4	23439.6	23097.0	23032.0	22688.7	22697.3	22713.0	22792.9
52.5°	23478.2	23629.5	24109.2	24960.1	26187.1	26179.3	25196.3	24289.8	23880.1	23698.0	23714.5
55°	24444.0	24703.1	25495.4	27252.1	29008.1	29095.9	27758.9	25751.0	24982.9	24594.6	24645.3
57.5°	24977.2	25371.9	26713.2	29380.0	31882.7	31988.3	30499.3	27369.2	25610.4	24627.4	24669.5
60°	23147.0	23811.5	26284.2	30752.7	34081.2	34129.8	32174.6	27496.3	23670.2	21930.6	21675.8
62.5°	18941.9	19862.7	23351.1	29689.1	33062.6	32912.0	31126.0	25115.7	19444.4	17334.3	17120.2
65°	14228.5	15094.4	18747.0	25421.2	29010.3	28811.8	26993.0	19849.8	14255.7	12015.7	11752.3
67.5°	7700.7	9008.4	12426.1	19418.7	23126.3	23799.4	21279.6	13835.2	8296.0	6014.6	5783.4
70°	2659.7	3437.0	6335.8	12189.9	16680.5	17355.8	14511.2	7420.1	3630.5	2269.9	2037.9
72.5°	944.4	1088.6	2382.0	5886.9	9496.6	10522.4	7829.9	2984.5	1157.1	843.0	825.9
75°	666.7	688.1	846.6	1919.5	4111.6	5036.0	3087.3	990.8	721.7	674.6	670.3
77.5°	595.3	607.5	686.0	781.6	1256.3	1608.2	950.1	718.8	626.7	600.3	591.0
80°	566.1	575.3	598.2	641.0	712.4	740.9	641.0	614.6	570.3	558.9	555.4
82.5°	494.7	492.5	499.0	516.8	548.9	556.1	514.7	481.8	482.5	469.0	462.6
85°	334.8	354.8	339.8	321.2	398.3	400.5	373.3	279.8	317.6	311.2	284.8
87.5°	101.4	114.2	90.7	62.8	86.4	67.1	60.7	62.8	60.0	52.1	47.1
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)