

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: P510873

Luminaire Tested: **CST-CA8-480-760-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510873
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-CA8-480-760-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 75494 lumens
Efficiency: N/A
Efficacy: 157.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

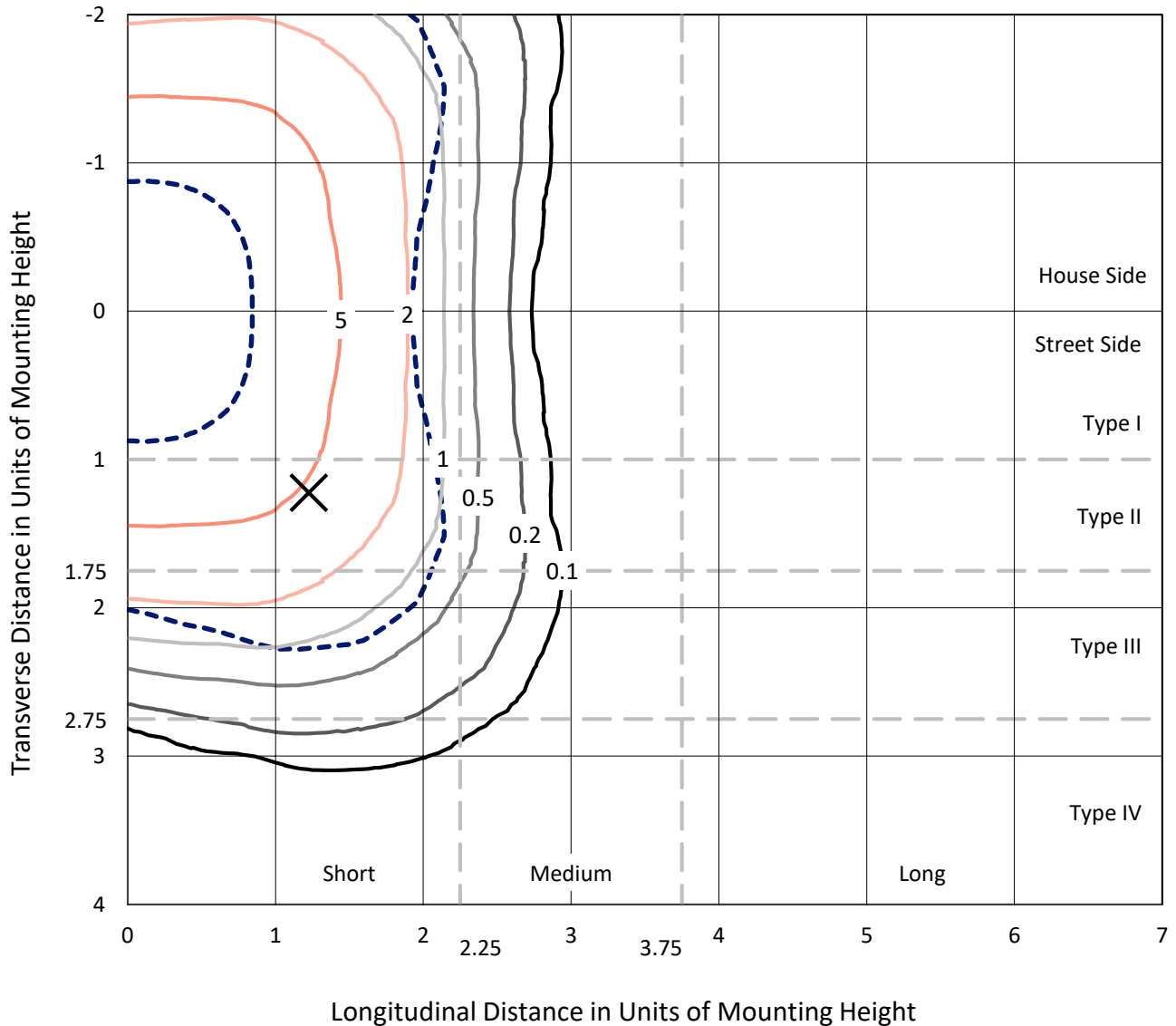
Input Watts (W): 480.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

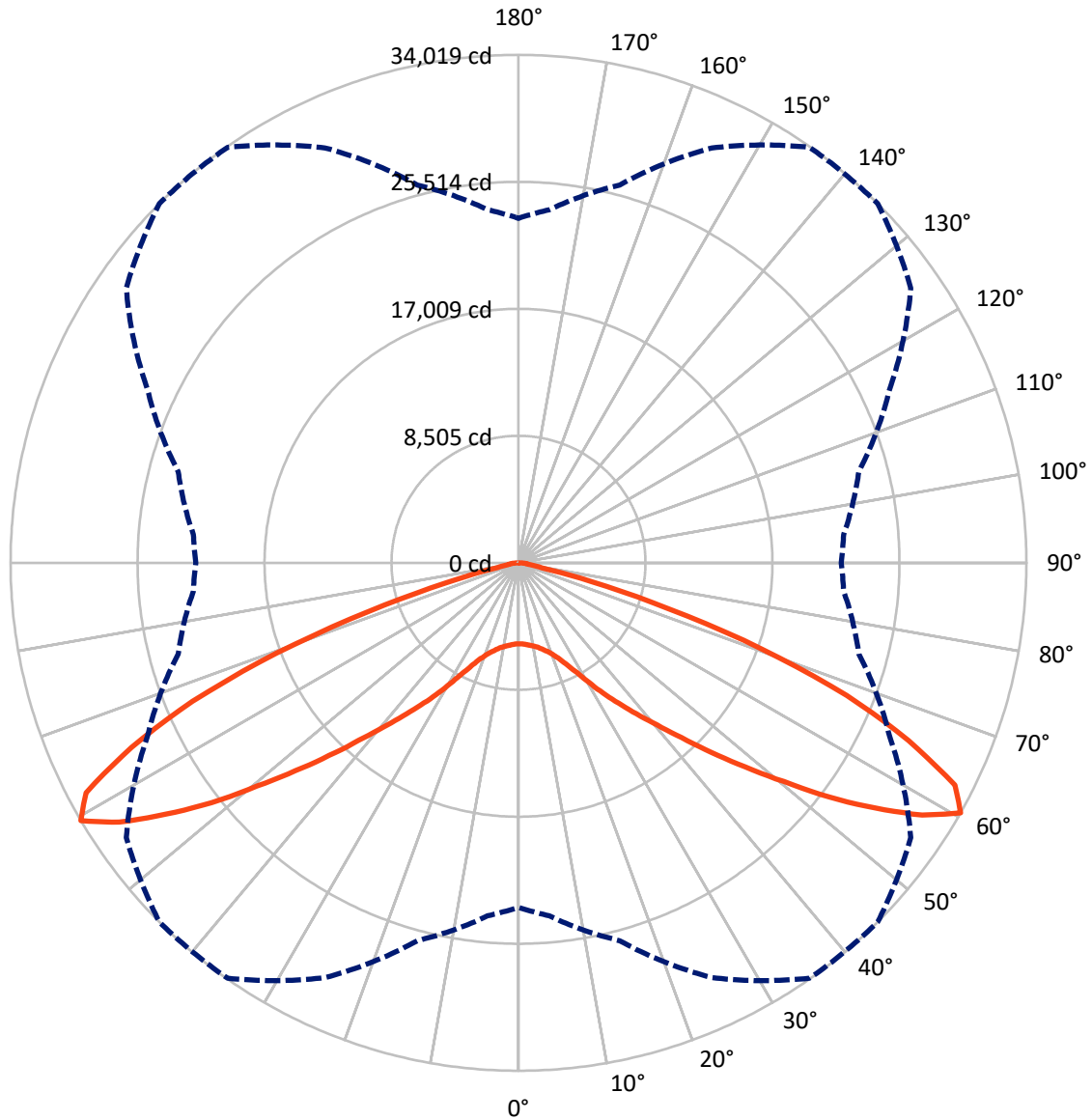
✕ Max cd
 - - - 1/2 Max cd



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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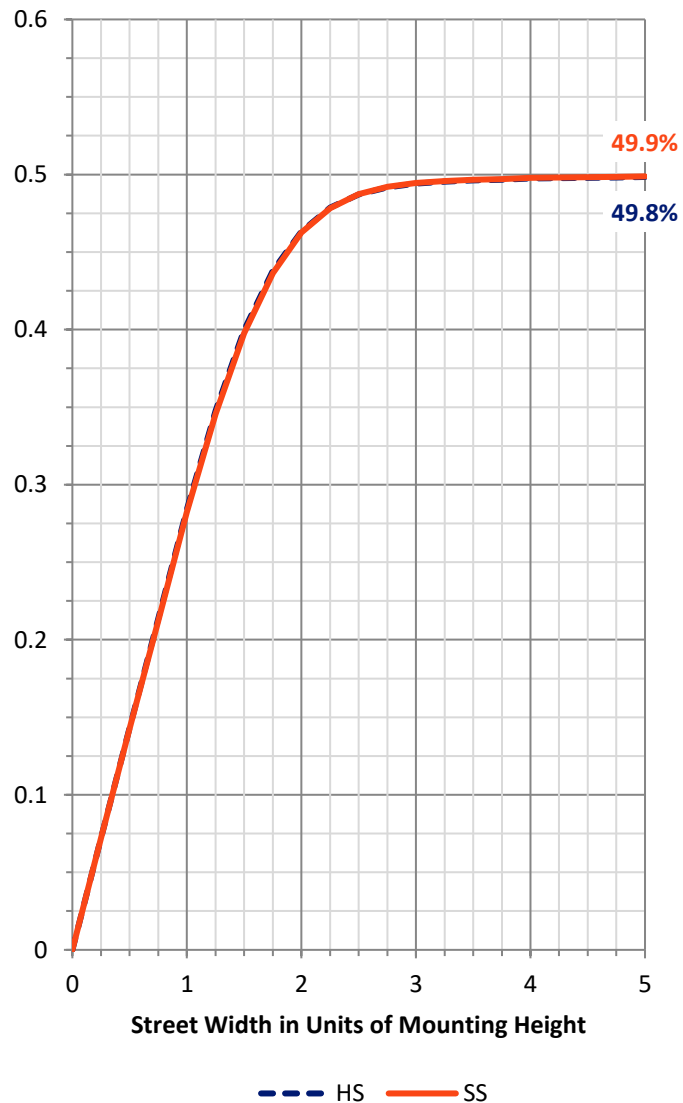
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	37747.0	0.0	37747.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	37747.0	0.0	37747.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	75494.0	0.0	75494.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.5	0.7
10°-20°	1729.4	2.3
20°-30°	3673.2	4.9
30°-40°	7788.3	10.3
40°-50°	14811.3	19.6
50°-60°	23497.3	31.1
60°-70°	19861.4	26.3
70°-80°	3267.5	4.3
80°-90°	335.1	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°	75494.0	100.0
0°-180°	75494.0	100.0

Coefficient of Utilization

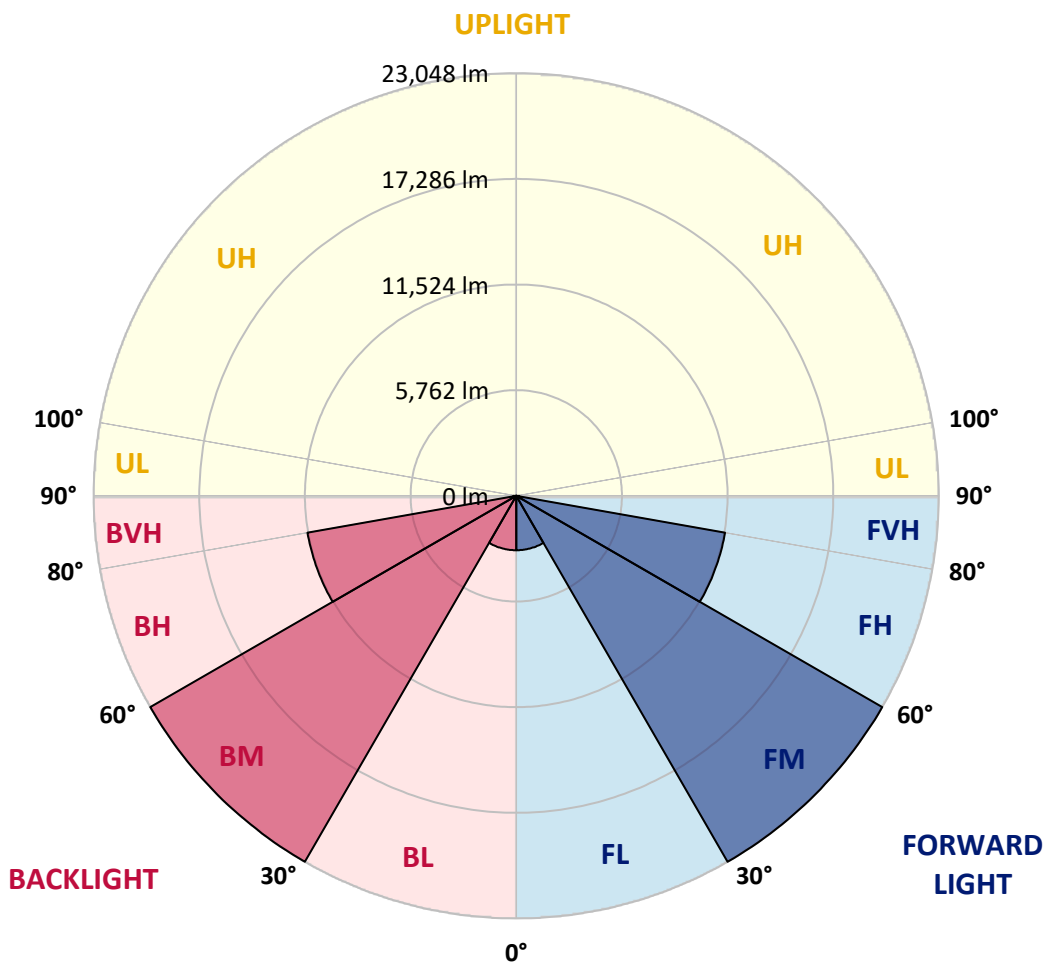


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2966.5	3.9			
FM (30°-60°)	23048.5	30.5			
FH (60°-80°)	11564.5	15.3			G4/12000
FVH (80°-90°)	167.5	0.2			G2/225
BL (0°-30°)	2966.5	3.9	B4/5000		
BM (30°-60°)	23048.5	30.5	B5		
BH (60°-80°)	11564.5	15.3	B5		G4/12000
BVH (80°-90°)	167.5	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°	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2
2.5°	5459.3	5445.8	5441.5	5435.9	5438.7	5440.1	5447.9	5448.7	5448.7	5455.8	5467.9
5°	5520.5	5502.7	5496.3	5489.2	5492.8	5496.3	5503.4	5507.7	5507.0	5511.3	5521.9
7.5°	5586.7	5580.3	5572.5	5568.2	5568.2	5578.2	5573.2	5581.0	5580.3	5585.3	5591.7
10°	5684.9	5670.6	5669.9	5662.1	5665.7	5674.2	5675.6	5674.2	5675.6	5678.5	5693.4
12.5°	5809.4	5805.8	5808.0	5801.6	5799.4	5808.7	5810.8	5820.1	5822.9	5831.4	5840.7
15°	6010.0	5987.3	5984.4	5983.7	5988.0	6002.2	6006.5	6023.6	6031.4	6043.5	6064.1
17.5°	6237.0	6244.8	6230.6	6229.2	6228.5	6239.8	6251.2	6288.9	6301.0	6328.8	6346.6
20°	6599.2	6584.9	6576.4	6542.2	6533.7	6553.6	6594.9	6644.7	6668.2	6712.3	6745.7
22.5°	7083.0	7058.8	7000.4	6959.9	6942.8	6977.0	7021.8	7101.5	7196.1	7250.9	7265.8
25°	7782.4	7687.0	7614.5	7542.6	7517.0	7567.5	7640.1	7766.7	7885.5	7995.1	8045.6
27.5°	8634.0	8573.6	8429.1	8316.0	8271.2	8313.9	8464.7	8643.3	8861.0	8974.9	8991.9
30°	9715.5	9684.2	9499.9	9287.9	9208.2	9282.2	9460.1	9703.4	10006.5	10240.6	10281.9
32.5°	11054.6	10895.9	10639.8	10397.1	10311.8	10402.1	10580.7	10930.1	11338.5	11597.4	11685.7
35°	12590.0	12410.7	12025.8	11652.9	11542.7	11554.0	11840.1	12332.4	12890.9	13252.4	13351.3
37.5°	14283.3	14100.5	13646.6	13068.1	12812.7	12831.9	13206.1	13846.5	14612.1	15006.2	15137.1
40°	16090.6	15901.3	15433.1	14781.4	14361.6	14276.2	14776.4	15556.2	16333.9	16809.2	16859.7
42.5°	17857.2	17633.1	17256.7	16605.0	16222.2	15993.1	16597.1	17303.7	18087.7	18516.1	18549.5
45°	19435.3	19391.9	19089.5	18617.1	18301.9	18099.1	18530.3	19231.8	19779.7	20050.8	20149.7
47.5°	20960.8	20933.7	20837.0	20671.9	20750.2	20412.9	20620.0	20938.0	21239.0	21438.2	21515.0
50°	22297.7	22326.1	22516.1	22797.1	23363.5	23022.0	22957.2	22615.0	22623.5	22639.2	22718.9
52.5°	23401.9	23552.8	24030.9	24879.0	26102.1	26094.2	25114.5	24210.9	23802.5	23621.1	23637.4
55°	24364.6	24622.9	25412.6	27163.6	28913.9	29001.4	27668.8	25667.3	24901.8	24514.7	24565.2
57.5°	24896.1	25289.5	26626.4	29284.6	31779.1	31884.4	30400.2	27280.3	25527.2	24547.4	24589.4
60°	23071.8	23734.2	26198.8	30652.8	33970.5	34018.9	32070.1	27407.0	23593.3	21859.4	21605.4
62.5°	18880.3	19798.2	23275.3	29592.7	32955.2	32805.1	31024.9	25034.1	19381.2	17278.0	17064.6
65°	14182.3	15045.4	18686.1	25338.6	28916.0	28718.2	26905.3	19785.4	14209.4	11976.7	11714.1
67.5°	7675.7	8979.1	12385.8	19355.6	23051.2	23722.1	21210.5	13790.3	8269.0	5995.1	5764.6
70°	2651.0	3425.9	6315.3	12150.3	16626.3	17299.4	14464.1	7396.0	3618.7	2262.6	2031.3
72.5°	941.3	1085.0	2374.3	5867.7	9465.8	10488.2	7804.4	2974.8	1153.3	840.3	823.2
75°	664.5	685.9	843.8	1913.2	4098.2	5019.6	3077.2	987.6	719.3	672.4	668.1
77.5°	593.4	605.5	683.8	779.1	1252.2	1603.0	947.0	716.5	624.7	598.4	589.1
80°	564.2	573.5	596.2	638.9	710.1	738.5	638.9	612.6	568.5	557.1	553.5
82.5°	493.1	490.9	497.3	515.1	547.1	554.3	513.0	480.3	481.0	467.5	461.1
85°	333.7	353.6	338.7	320.2	397.0	399.2	372.1	278.9	316.6	310.2	283.9
87.5°	101.0	113.8	90.4	62.6	86.1	66.9	60.5	62.6	59.8	51.9	47.0
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)