

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: P510543

Luminaire Tested: **CST-CA10-630-730-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510543
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-CA10-630-730-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 96556 lumens
Efficiency: N/A
Efficacy: 152.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

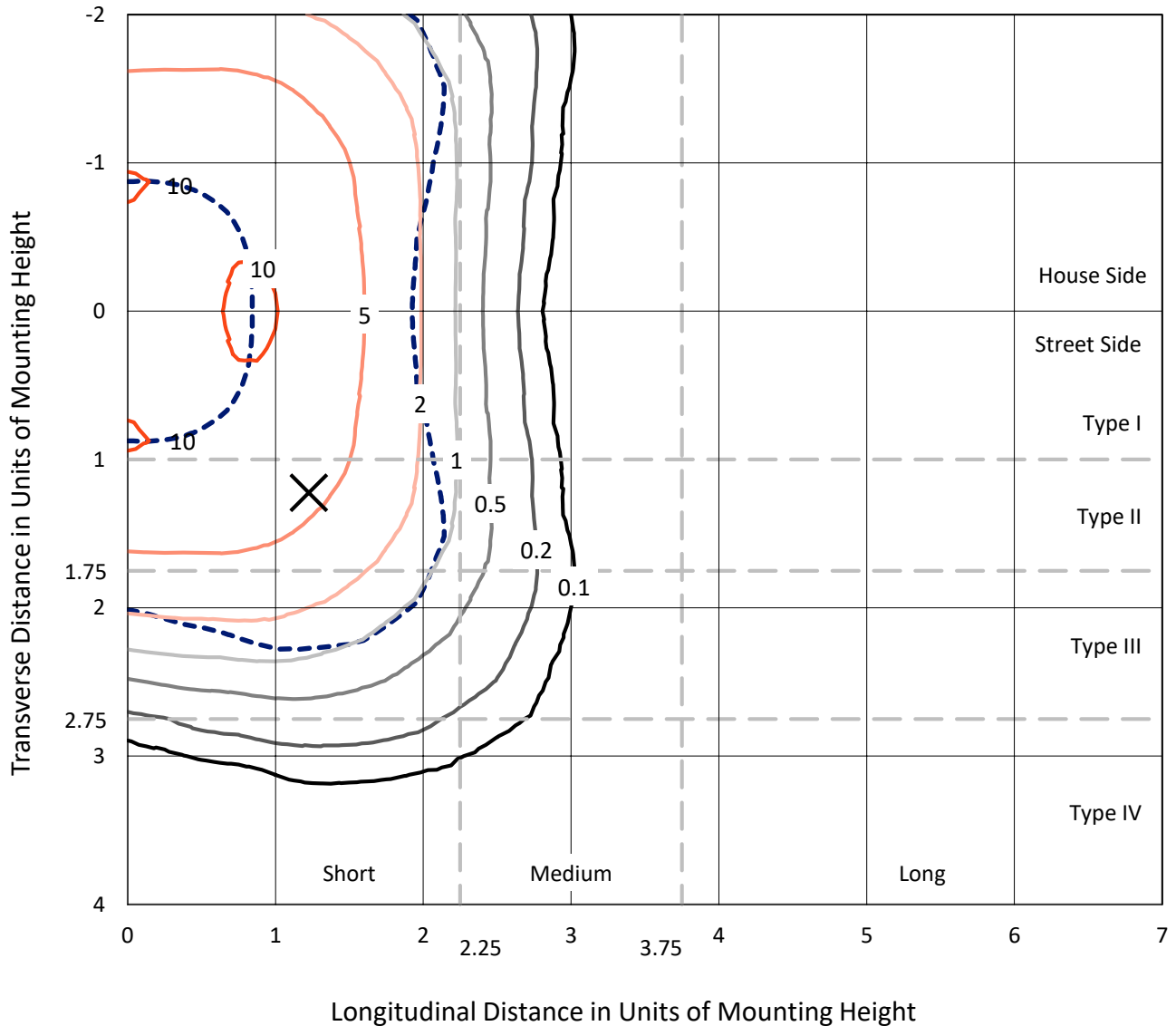
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

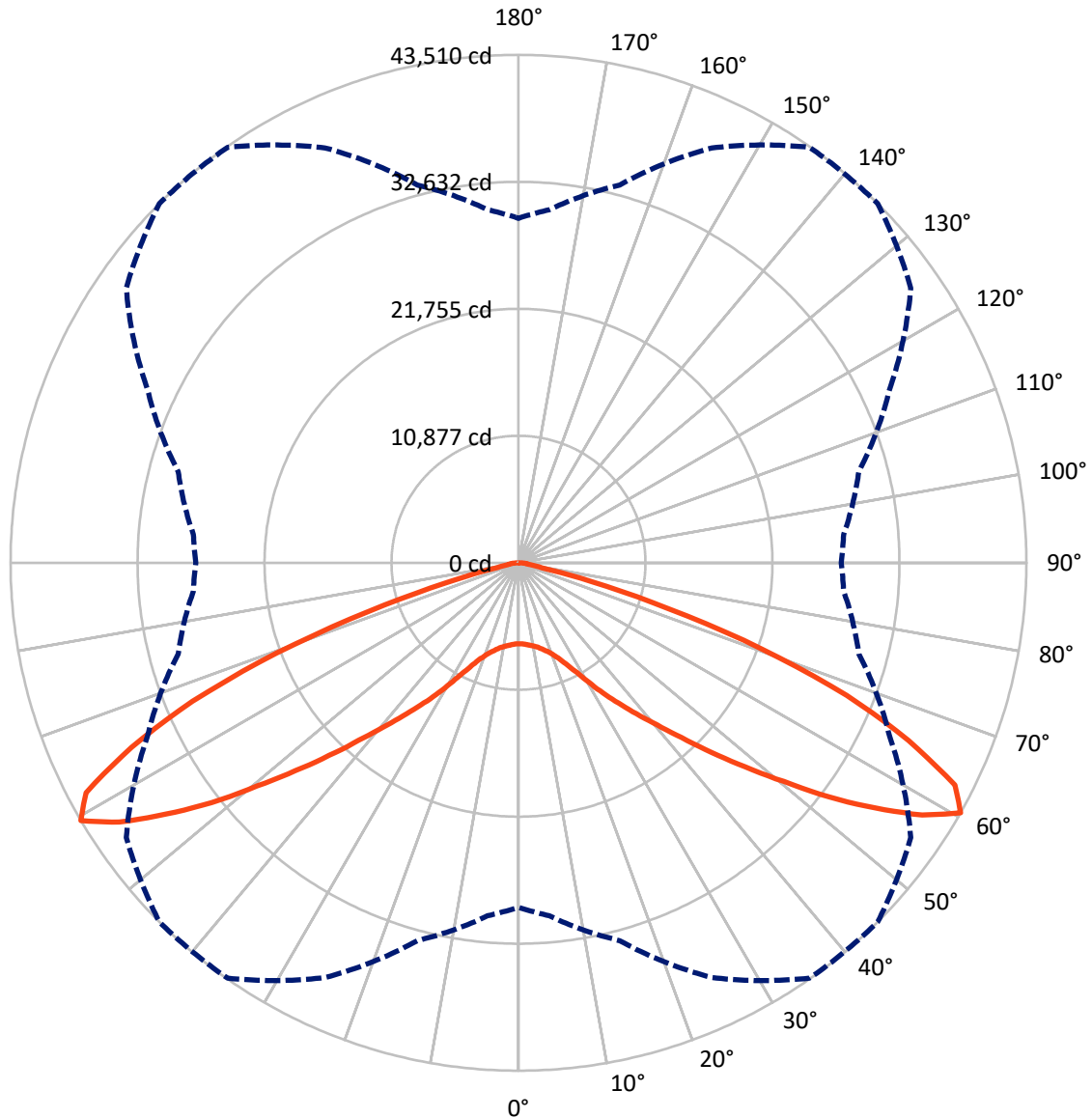
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.7 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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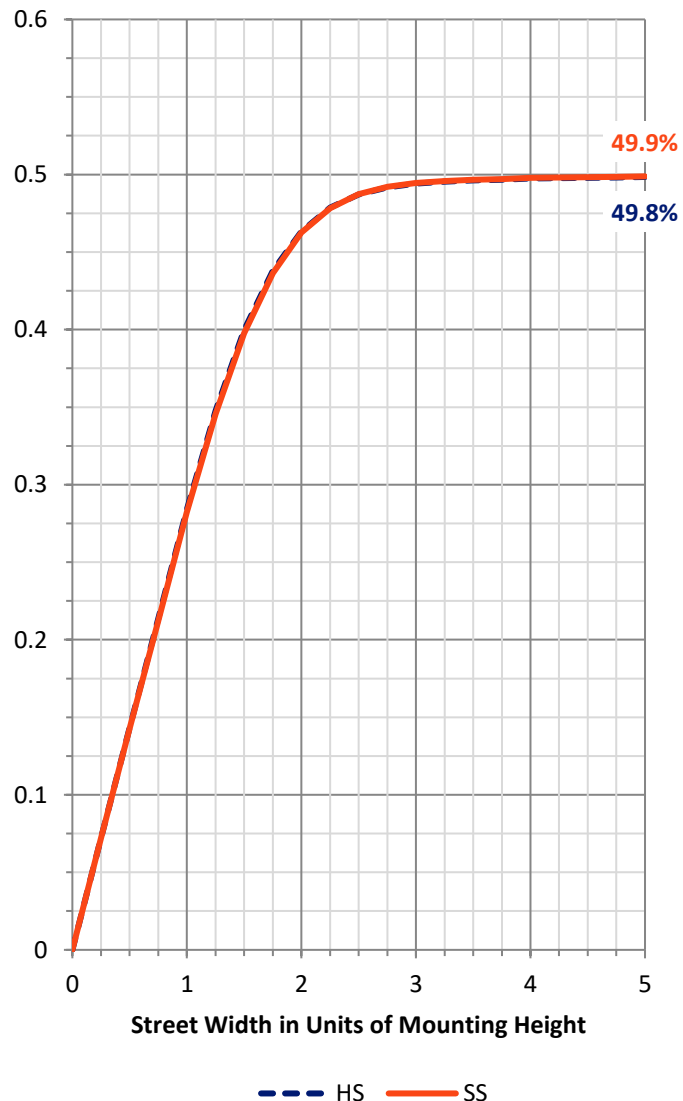
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	48278.0	0.0	48278.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	48278.0	0.0	48278.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	96556.0	0.0	96556.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.5	0.7
10°-20°	2211.9	2.3
20°-30°	4697.9	4.9
30°-40°	9961.2	10.3
40°-50°	18943.5	19.6
50°-60°	30052.8	31.1
60°-70°	25402.5	26.3
70°-80°	4179.1	4.3
80°-90°	428.5	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°	96556.0	100.0
0°-180°	96556.0	100.0

Coefficient of Utilization

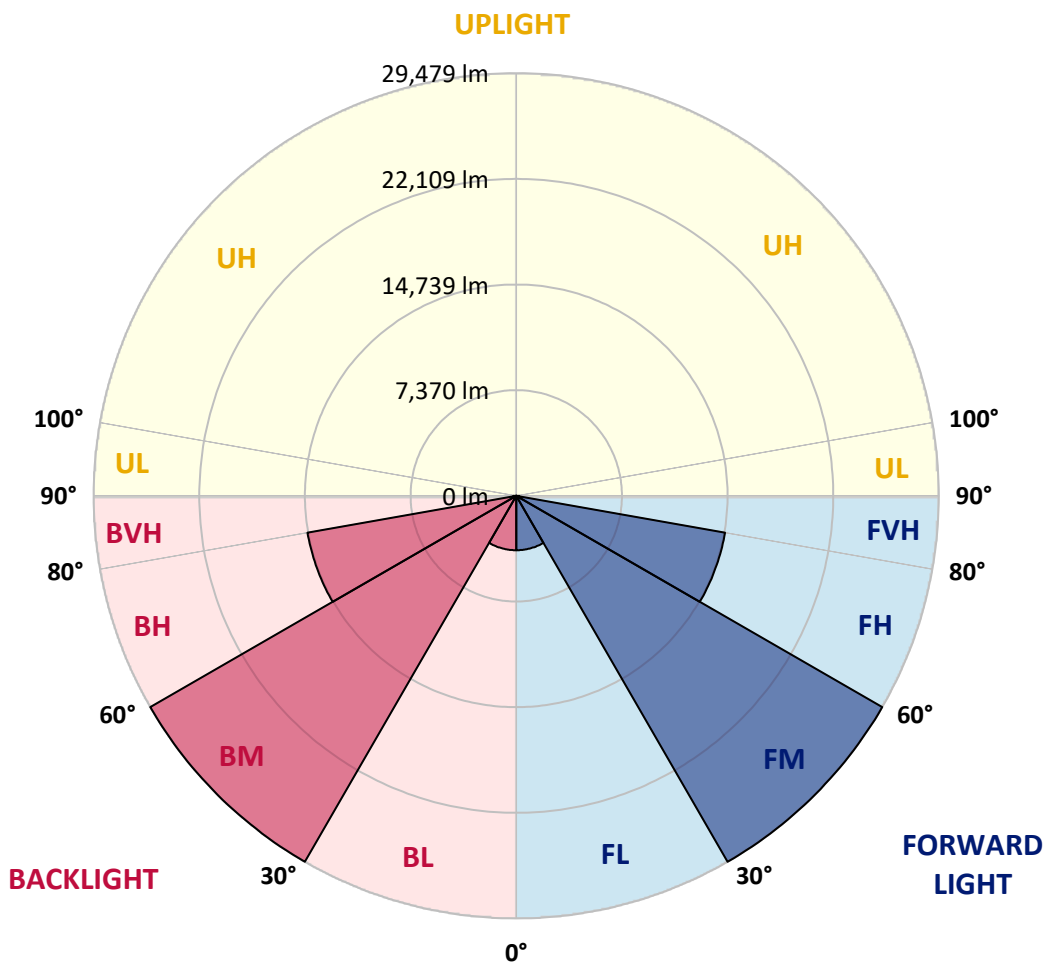


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3794.2	3.9			
FM (30°-60°)	29478.7	30.5			
FH (60°-80°)	14790.8	15.3			G5
FVH (80°-90°)	214.3	0.2			G2/225
BL (0°-30°)	3794.2	3.9	B4/5000		
BM (30°-60°)	29478.7	30.5	B5		
BH (60°-80°)	14790.8	15.3	B5		G5
BVH (80°-90°)	214.3	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-G5
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6932.4	6932.4	6932.4	6932.4	6932.4	6932.4	6932.4	6932.4	6932.4	6932.4	6932.4
2.5°	6982.4	6965.1	6959.7	6952.4	6956.0	6957.9	6967.9	6968.8	6968.8	6977.9	6993.3
5°	7060.7	7037.9	7029.7	7020.6	7025.2	7029.7	7038.8	7044.3	7043.4	7048.9	7062.5
7.5°	7145.3	7137.1	7127.1	7121.7	7121.7	7134.4	7128.0	7138.0	7137.1	7143.5	7151.7
10°	7270.9	7252.7	7251.8	7241.8	7246.3	7257.2	7259.1	7257.2	7259.1	7262.7	7281.8
12.5°	7430.1	7425.6	7428.3	7420.1	7417.4	7429.2	7432.0	7443.8	7447.4	7458.4	7470.2
15°	7686.8	7657.6	7654.0	7653.1	7658.6	7676.8	7682.2	7704.1	7714.1	7729.5	7755.9
17.5°	7977.1	7987.1	7968.9	7967.0	7966.1	7980.7	7995.3	8043.5	8059.0	8094.4	8117.2
20°	8440.2	8422.0	8411.1	8367.4	8356.5	8382.0	8434.8	8498.5	8528.5	8584.9	8627.7
22.5°	9059.0	9028.1	8953.5	8901.6	8879.8	8923.5	8980.8	9082.7	9203.7	9273.8	9292.9
25°	9953.6	9831.6	9738.8	9646.9	9614.1	9678.8	9771.6	9933.6	10085.5	10225.7	10290.3
27.5°	11042.8	10965.5	10780.8	10636.1	10578.7	10633.3	10826.3	11054.7	11333.1	11478.7	11500.6
30°	12426.0	12386.0	12150.3	11879.1	11777.2	11871.9	12099.4	12410.6	12798.2	13097.6	13150.4
32.5°	14138.7	13935.7	13608.1	13297.8	13188.6	13304.2	13532.6	13979.4	14501.8	14833.0	14945.8
35°	16102.4	15873.1	15380.8	14904.0	14762.9	14777.5	15143.3	15773.0	16487.4	16949.7	17076.1
37.5°	18268.2	18034.4	17453.8	16714.0	16387.3	16411.8	16890.5	17709.5	18688.7	19192.8	19360.2
40°	20579.6	20337.6	19738.8	18905.2	18368.3	18259.1	18898.9	19896.2	20890.9	21498.7	21563.4
42.5°	22839.2	22552.5	22071.1	21237.6	20748.0	20455.0	21227.6	22131.2	23134.0	23681.8	23724.6
45°	24857.6	24802.0	24415.3	23811.1	23407.9	23148.6	23700.0	24597.3	25298.0	25644.7	25771.2
47.5°	26808.6	26774.0	26650.3	26439.1	26539.2	26107.9	26372.7	26779.5	27164.4	27419.2	27517.5
50°	28518.5	28554.9	28797.9	29157.3	29881.7	29444.9	29362.1	28924.3	28935.3	28955.3	29057.2
52.5°	29930.8	30123.7	30735.2	31820.0	33384.3	33374.2	32121.2	30965.5	30443.1	30211.1	30232.0
55°	31162.0	31492.4	32502.5	34742.0	36980.6	37092.5	35388.1	32828.2	31849.1	31354.0	31418.7
57.5°	31841.8	32345.0	34054.9	37454.7	40645.1	40779.8	38881.6	34891.2	32649.0	31395.9	31449.6
60°	29508.6	30355.8	33508.0	39204.6	43447.9	43509.8	41017.3	35053.2	30175.6	27957.9	27633.1
62.5°	24147.8	25321.7	29768.8	37848.7	42149.4	41957.4	39680.5	32018.3	24788.4	22098.4	21825.4
65°	18139.0	19242.9	23899.3	32407.8	36983.3	36730.3	34411.6	25305.3	18173.6	15318.0	14982.2
67.5°	9817.1	11484.2	15841.3	24755.6	29482.2	30340.3	27128.0	17637.6	10576.0	7667.7	7372.8
70°	3390.7	4381.6	8077.2	15540.1	21264.9	22125.7	18499.4	9459.4	4628.3	2893.8	2598.0
72.5°	1203.9	1387.7	3036.7	7504.8	12106.6	13414.3	9981.8	3804.7	1475.1	1074.7	1052.9
75°	849.9	877.2	1079.3	2447.0	5241.6	6420.0	3935.7	1263.1	920.0	859.9	854.5
77.5°	758.9	774.4	874.5	996.4	1601.6	2050.2	1211.2	916.4	799.0	765.3	753.5
80°	721.6	733.5	762.6	817.2	908.2	944.6	817.2	783.5	727.1	712.5	708.0
82.5°	630.6	627.9	636.1	658.8	699.8	708.9	656.1	614.2	615.2	597.9	589.7
85°	426.8	452.3	433.2	409.5	507.8	510.5	475.9	356.7	404.9	396.8	363.1
87.5°	129.2	145.6	115.6	80.1	110.1	85.5	77.3	80.1	76.4	66.4	60.1
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)