

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: P510533

Luminaire Tested: **CST-CA10-630-727-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510533
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-CA10-630-727-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 83271 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

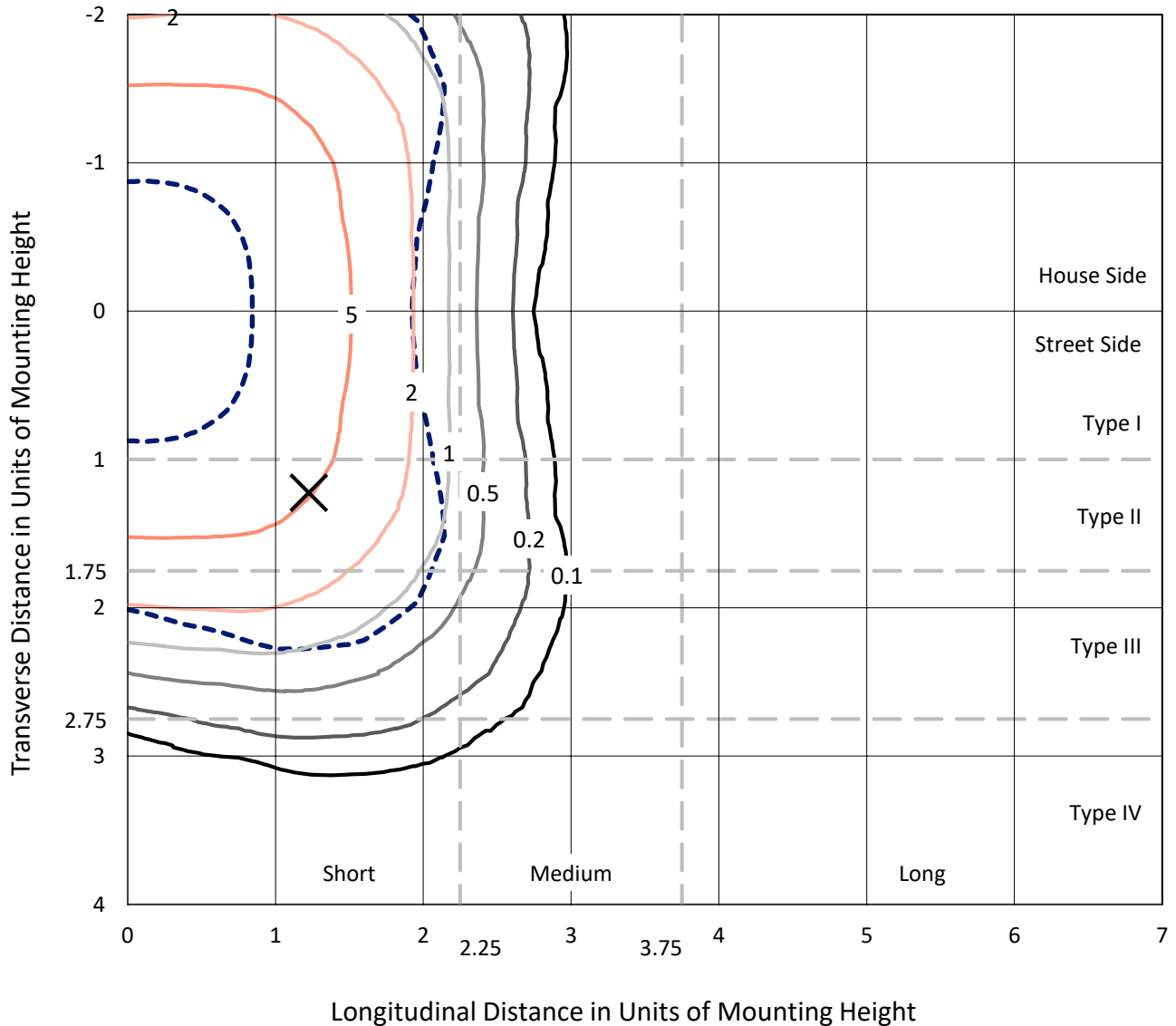
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510533
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Iso-Footcandle Lines of Horizontal Illumination

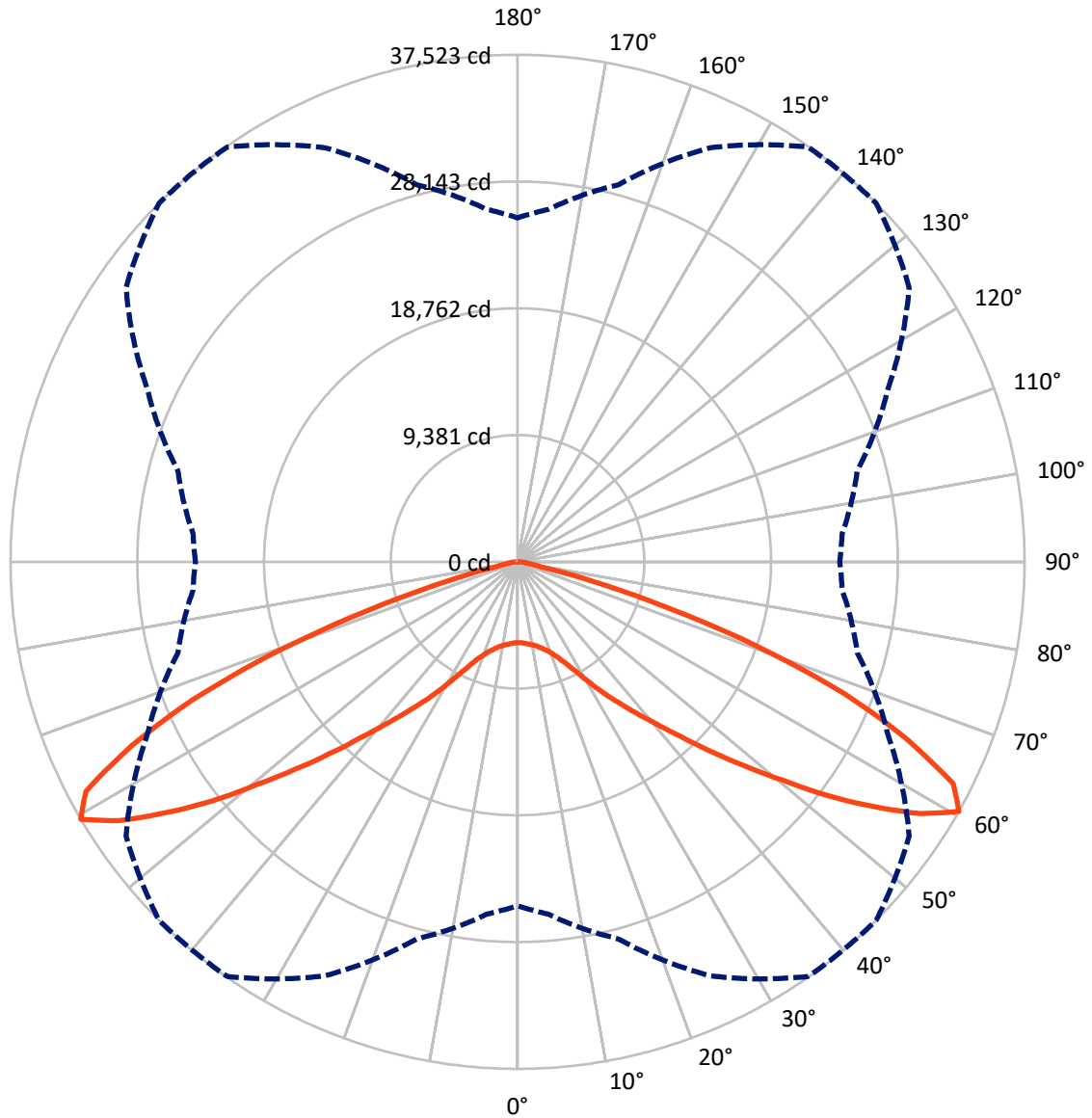
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 fc
 Type V - Short - N/A

REPORT NUMBER: P510533
CATALOG NUMBER: CST-CA10-630-727-U-T5N

Luminous Intensity Polar Plot



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

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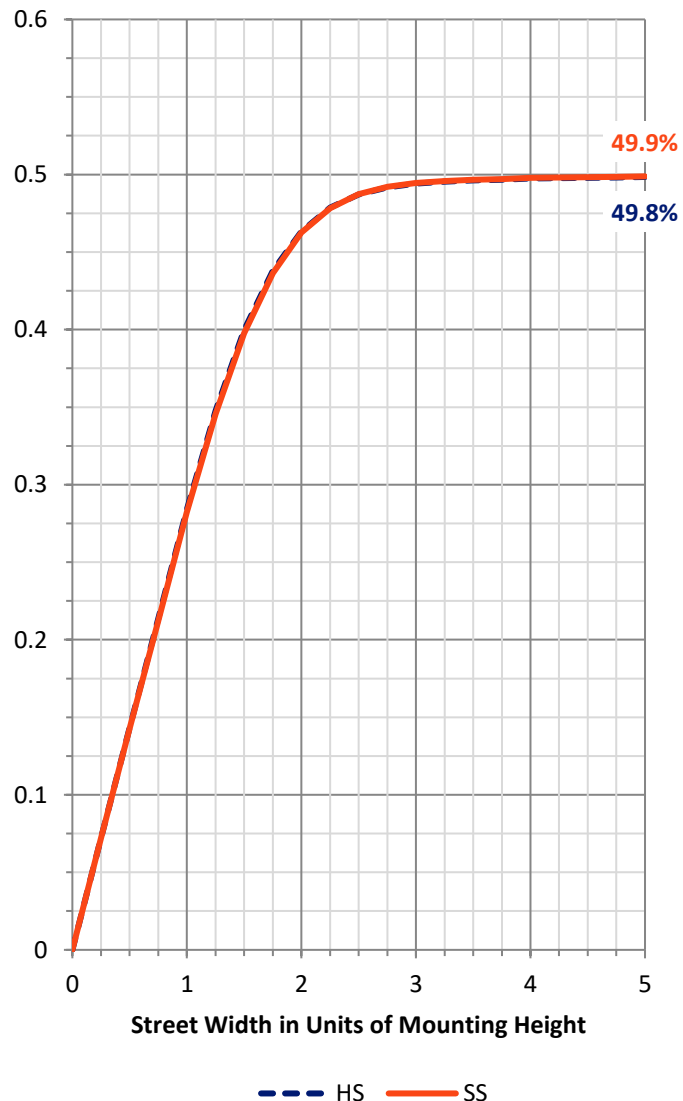
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	41635.5	0.0	41635.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	41635.5	0.0	41635.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	83271.0	0.0	83271.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.1	0.7
10°-20°	1907.6	2.3
20°-30°	4051.5	4.9
30°-40°	8590.7	10.3
40°-50°	16337.1	19.6
50°-60°	25917.9	31.1
60°-70°	21907.5	26.3
70°-80°	3604.1	4.3
80°-90°	369.6	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°	83271.0	100.0
0°-180°	83271.0	100.0

Coefficient of Utilization



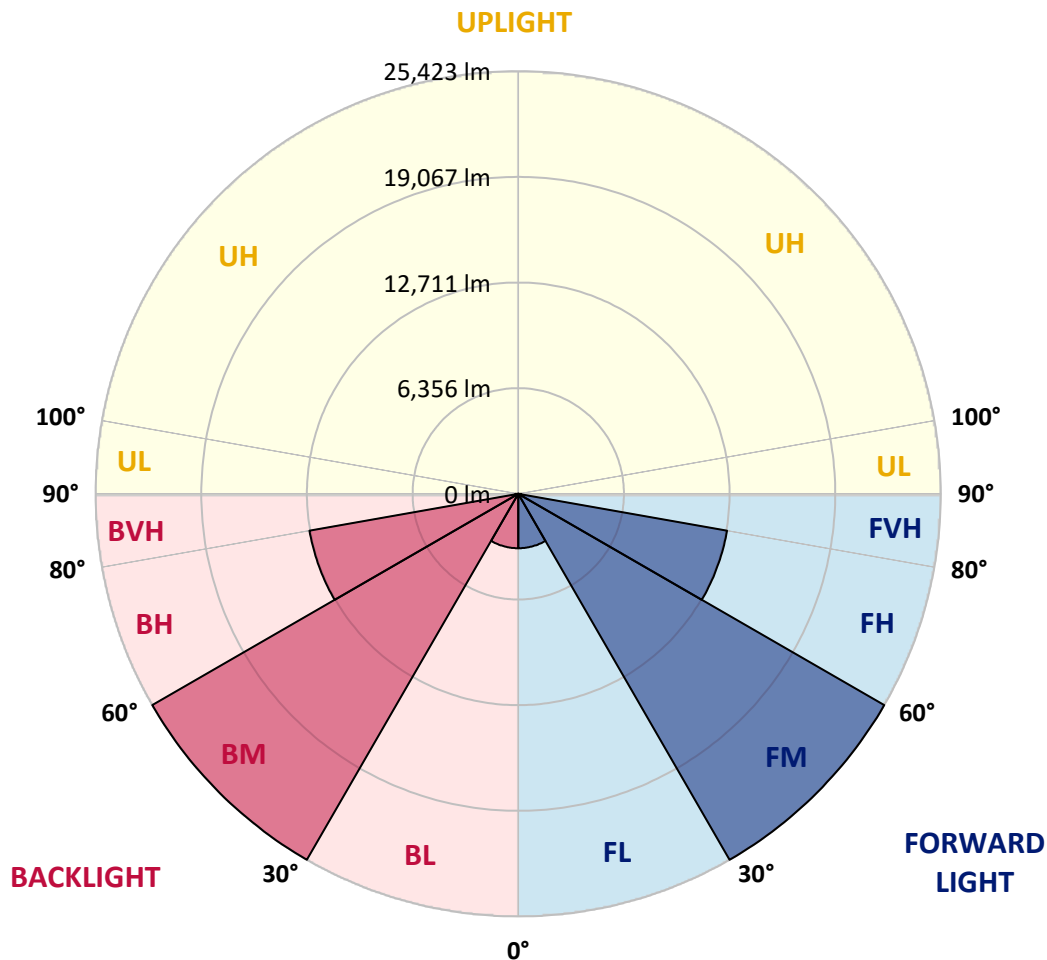
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 CATALOG NUMBER: CST-CA10-630-727-U-T5N

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3272.1	3.9			
FM (30°-60°)	25422.8	30.5			
FH (60°-80°)	12755.8	15.3			G5
FVH (80°-90°)	184.8	0.2			G2/225
BL (0°-30°)	3272.1	3.9	B4/5000		
BM (30°-60°)	25422.8	30.5	B5		
BH (60°-80°)	12755.8	15.3	B5		G5
BVH (80°-90°)	184.8	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°	5978.6	5978.6	5978.6	5978.6	5978.6	5978.6	5978.6	5978.6	5978.6	5978.6	5978.6
2.5°	6021.7	6006.8	6002.1	5995.8	5999.0	6000.5	6009.2	6010.0	6010.0	6017.8	6031.1
5°	6089.2	6069.6	6062.5	6054.7	6058.6	6062.5	6070.4	6075.1	6074.3	6079.0	6090.8
7.5°	6162.2	6155.1	6146.5	6141.8	6141.8	6152.8	6147.3	6155.9	6155.1	6160.6	6167.7
10°	6270.5	6254.8	6254.0	6245.4	6249.3	6258.7	6260.3	6258.7	6260.3	6263.4	6279.9
12.5°	6407.8	6403.9	6406.3	6399.2	6396.9	6407.1	6409.4	6419.6	6422.8	6432.2	6442.4
15°	6629.2	6604.0	6600.9	6600.1	6604.8	6620.5	6625.2	6644.1	6652.7	6666.0	6688.8
17.5°	6879.5	6888.1	6872.4	6870.9	6870.1	6882.6	6895.2	6936.8	6950.1	6980.7	7000.4
20°	7279.0	7263.3	7253.9	7216.2	7206.8	7228.7	7274.3	7329.2	7355.1	7403.7	7440.6
22.5°	7812.6	7785.9	7721.6	7676.9	7658.0	7695.7	7745.1	7833.0	7937.4	7997.8	8014.3
25°	8584.1	8478.9	8398.9	8319.6	8291.4	8347.1	8427.1	8566.8	8697.9	8818.7	8874.5
27.5°	9523.5	9456.8	9297.5	9172.7	9123.2	9170.3	9336.7	9533.7	9773.8	9899.4	9918.2
30°	10716.4	10681.8	10478.6	10244.7	10156.8	10238.4	10434.6	10703.0	11037.3	11295.5	11341.1
32.5°	12193.3	12018.3	11735.8	11468.2	11374.0	11473.7	11670.7	12056.0	12506.5	12792.1	12889.5
35°	13886.9	13689.2	13264.6	12853.4	12731.7	12744.3	13059.8	13602.8	14218.9	14617.6	14726.7
37.5°	15754.7	15553.1	15052.4	14414.3	14132.6	14153.8	14566.6	15272.9	16117.3	16552.1	16696.5
40°	17748.1	17539.4	17023.0	16304.1	15841.1	15746.9	16298.6	17158.7	18016.5	18540.8	18596.5
42.5°	19696.8	19449.6	19034.4	18315.5	17893.3	17640.6	18306.9	19086.2	19951.0	20423.5	20460.4
45°	21437.4	21389.6	21056.0	20534.9	20187.3	19963.6	20439.2	21213.0	21817.3	22116.3	22225.4
47.5°	23120.0	23090.2	22983.5	22801.4	22887.7	22515.7	22744.1	23094.9	23426.9	23646.6	23731.4
50°	24594.7	24626.1	24835.6	25145.6	25770.3	25393.6	25322.2	24944.7	24954.1	24971.4	25059.3
52.5°	25812.7	25979.0	26506.4	27441.9	28791.0	28782.3	27701.7	26705.0	26254.5	26054.4	26072.4
55°	26874.5	27159.4	28030.5	29961.9	31892.5	31989.0	30519.1	28311.5	27467.0	27040.1	27095.8
57.5°	27460.7	27894.7	29369.4	32301.3	35052.8	35169.0	33531.9	30090.6	28156.8	27076.2	27122.5
60°	25448.5	26179.2	28897.7	33810.5	37470.0	37523.4	35373.8	30230.3	26023.8	24111.2	23831.1
62.5°	20825.3	21837.7	25673.0	32641.2	36350.1	36184.5	34221.0	27613.0	21377.8	19057.9	18822.5
65°	15643.3	16595.3	20611.1	27948.9	31894.8	31676.6	29677.0	21823.6	15673.1	13210.4	12920.9
67.5°	8466.4	9904.1	13661.7	21349.5	25425.8	26165.8	23395.5	15210.9	9120.9	6612.7	6358.4
70°	2924.1	3778.8	6965.8	13401.9	18339.1	19081.5	15954.1	8157.9	3991.5	2495.6	2240.6
72.5°	1038.3	1196.8	2618.9	6472.2	10440.9	11568.7	8608.4	3281.2	1272.2	926.8	908.0
75°	733.0	756.5	930.8	2110.3	4520.4	5536.7	3394.2	1089.3	793.4	741.6	736.9
77.5°	654.5	667.9	754.2	859.3	1381.2	1768.1	1044.6	790.3	689.0	660.0	649.8
80°	622.3	632.5	657.7	704.7	783.2	814.6	704.7	675.7	627.1	614.5	610.6
82.5°	543.9	541.5	548.6	568.2	603.5	611.4	565.8	529.7	530.5	515.6	508.5
85°	368.1	390.0	373.6	353.2	437.9	440.3	410.4	307.6	349.2	342.2	313.1
87.5°	111.4	125.6	99.7	69.1	95.0	73.8	66.7	69.1	65.9	57.3	51.8
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)