

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: P510622

Luminaire Tested: **CST-CA10-760-750-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-760-750-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 111913 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

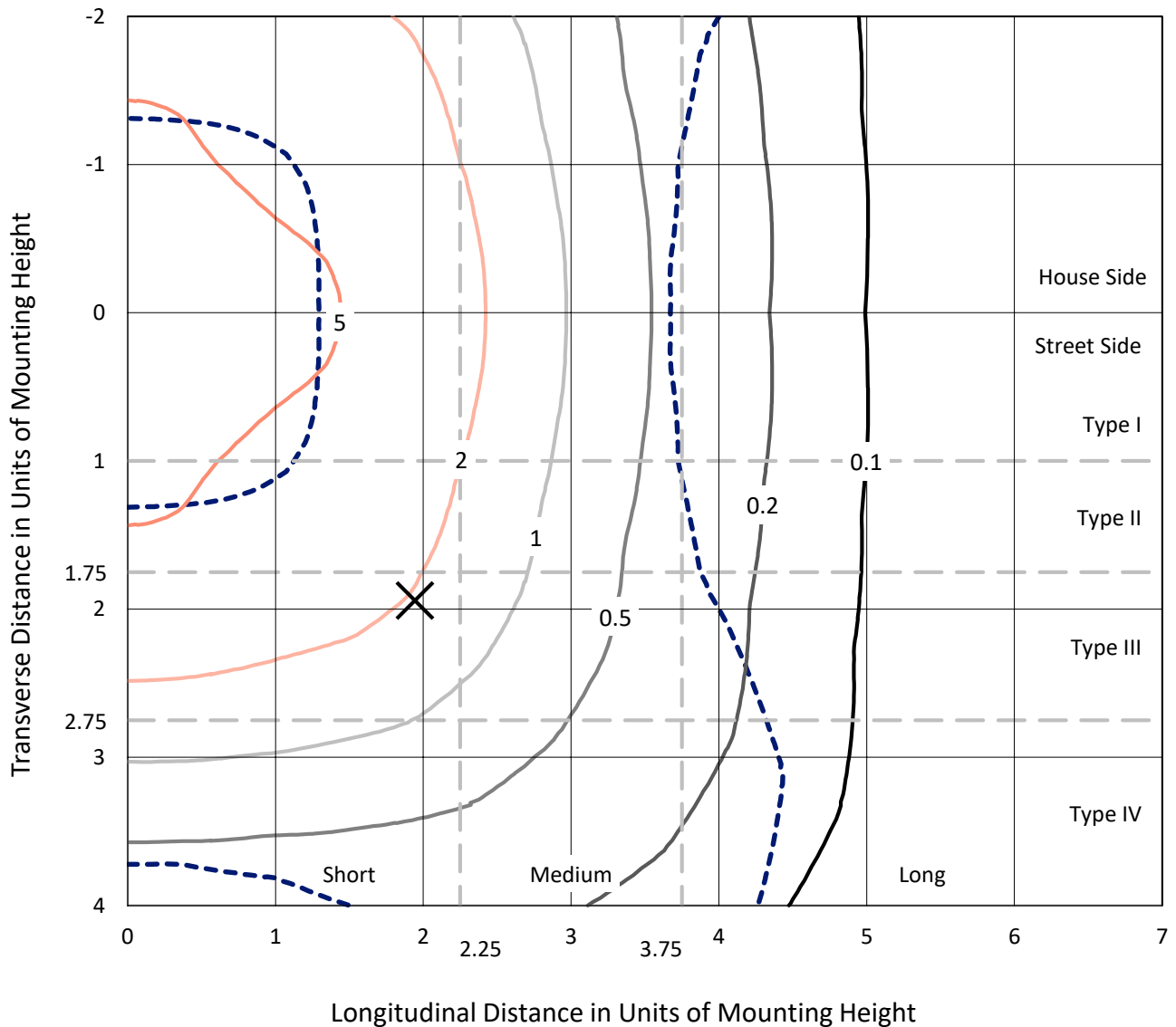
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

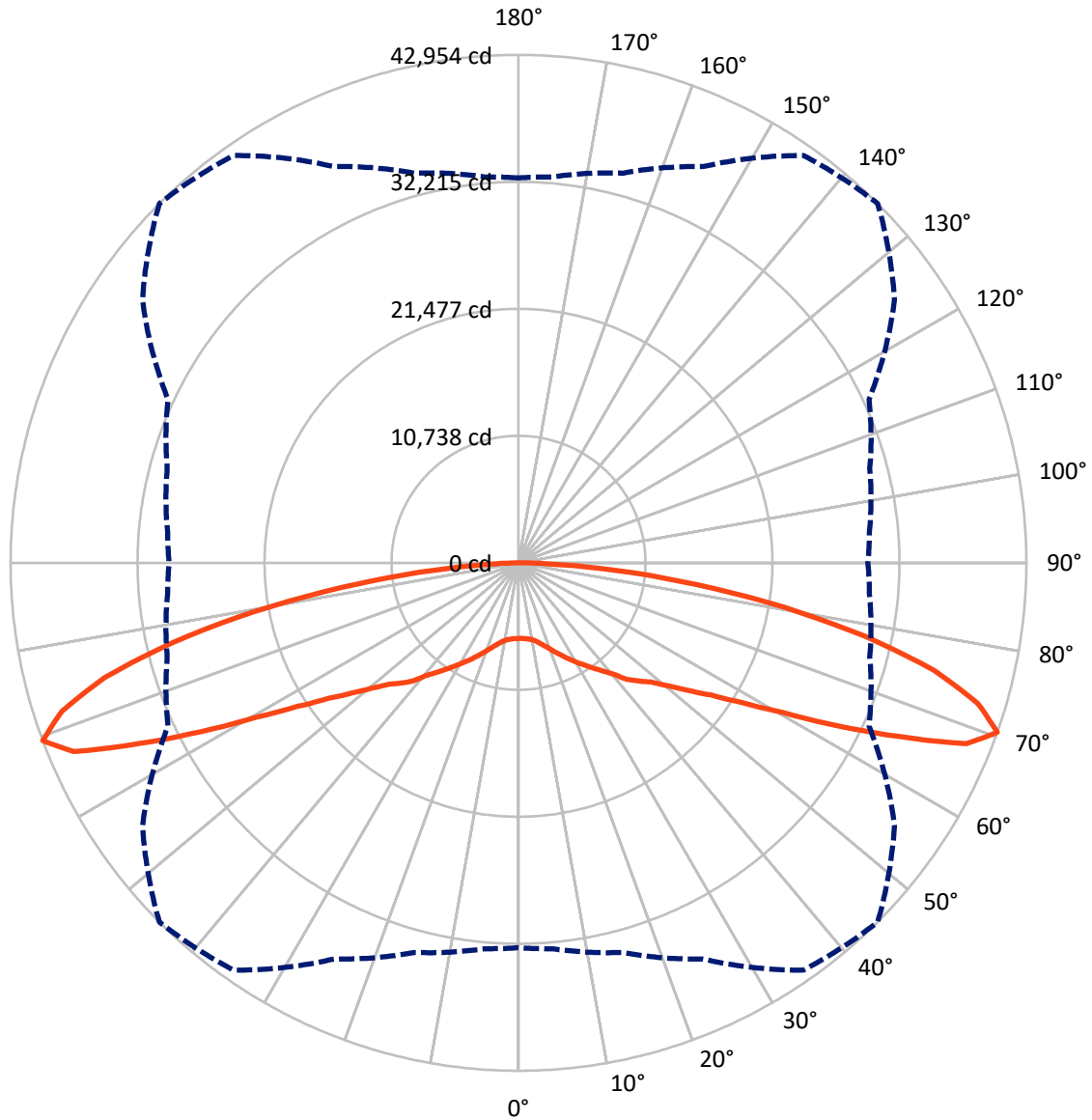
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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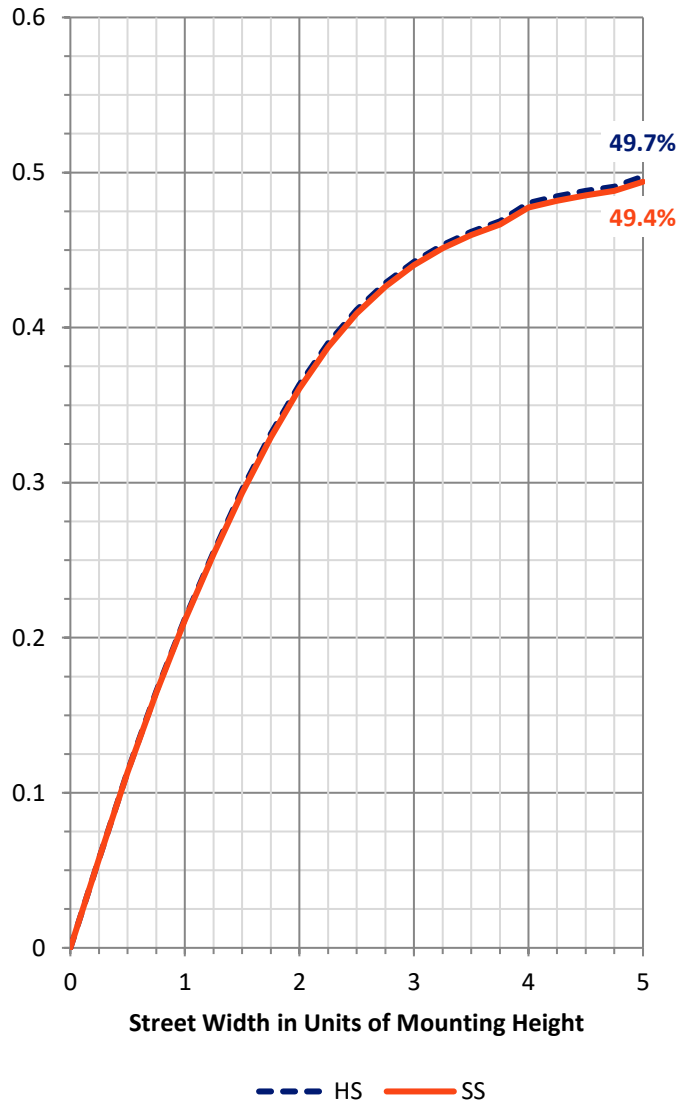
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	55956.5	0.0	55956.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	55956.5	0.0	55956.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	111913.0	0.0	111913.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.7	0.6
10°-20°	2024.8	1.8
20°-30°	4008.3	3.6
30°-40°	6934.0	6.2
40°-50°	11537.1	10.3
50°-60°	20122.5	18.0
60°-70°	33311.9	29.8
70°-80°	27918.0	24.9
80°-90°	5434.7	4.9
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°	111913.0	100.0
0°-180°	111913.0	100.0

Coefficient of Utilization

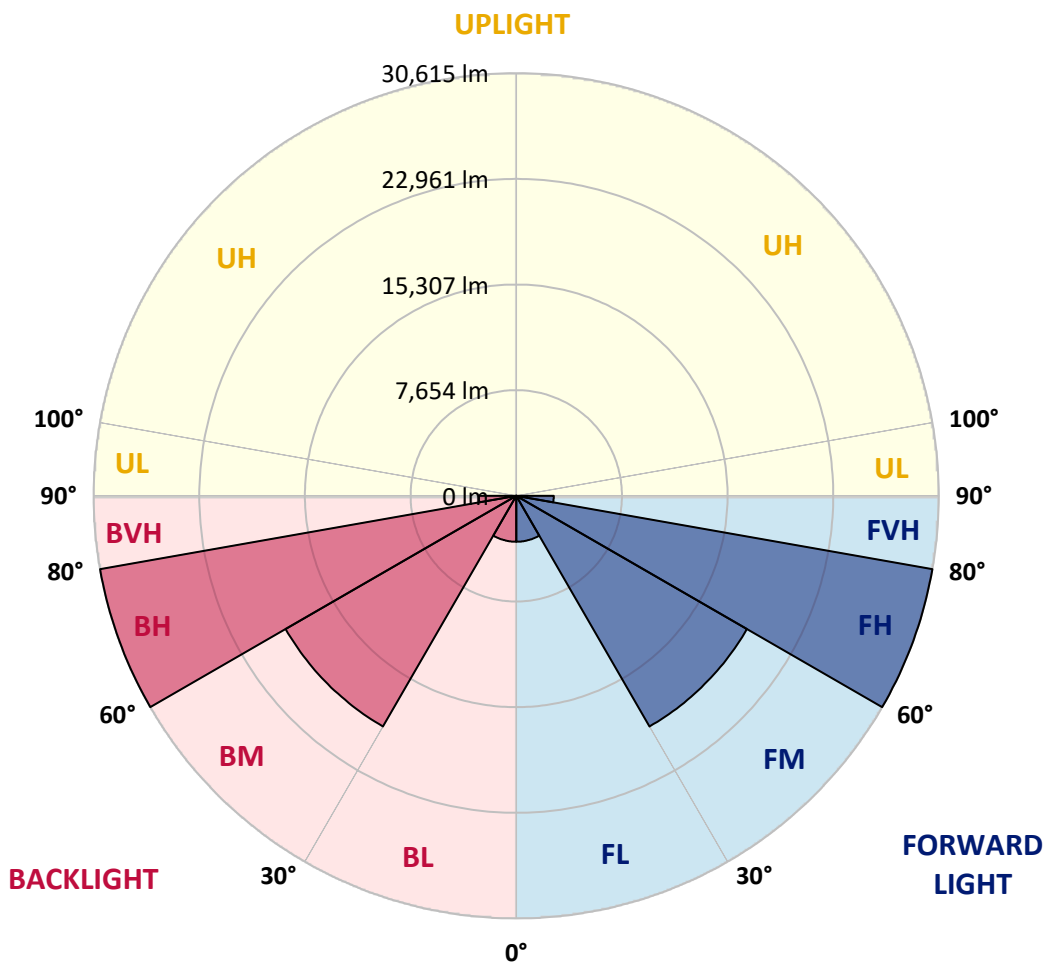


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3327.4	3.0			
FM (30°-60°)	19296.8	17.2			
FH (60°-80°)	30614.9	27.4			G5
FVH (80°-90°)	2717.4	2.4			G5
BL (0°-30°)	3327.4	3.0	B4/5000		
BM (30°-60°)	19296.8	17.2	B5		
BH (60°-80°)	30614.9	27.4	B5		G5
BVH (80°-90°)	2717.4	2.4			G5
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°	6396.2	6396.2	6396.2	6396.2	6396.2	6396.2	6396.2	6396.2	6396.2	6396.2	6396.2
2.5°	6436.1	6416.1	6409.5	6402.8	6407.3	6405.0	6416.1	6420.6	6425.0	6444.9	6433.9
5°	6476.0	6460.5	6458.2	6449.4	6447.2	6447.2	6462.7	6464.9	6467.1	6480.4	6467.1
7.5°	6549.1	6533.6	6529.2	6524.7	6522.5	6513.6	6524.7	6520.3	6524.7	6531.4	6515.9
10°	6664.4	6646.6	6642.2	6631.1	6637.8	6624.5	6633.3	6622.2	6602.3	6606.7	6584.6
12.5°	6821.7	6806.2	6812.8	6810.6	6837.2	6830.6	6812.8	6790.7	6757.4	6735.3	6710.9
15°	7054.4	7030.0	7047.8	7065.5	7092.1	7103.2	7089.9	7030.0	6981.3	6945.8	6925.9
17.5°	7338.1	7298.2	7333.7	7369.1	7426.8	7437.8	7389.1	7315.9	7262.7	7247.2	7214.0
20°	7668.3	7661.7	7663.9	7721.5	7810.2	7825.7	7761.4	7675.0	7621.8	7624.0	7586.3
22.5°	8067.3	8031.8	8042.9	8100.5	8226.8	8268.9	8162.6	8067.3	8034.0	8042.9	8038.4
25°	8523.8	8490.6	8475.1	8501.6	8665.7	8738.8	8636.8	8526.0	8510.5	8530.5	8499.4
27.5°	9024.7	8993.7	8975.9	8989.2	9117.8	9255.2	9142.2	9049.1	9046.9	9075.7	9057.9
30°	9594.3	9547.7	9527.8	9543.3	9632.0	9764.9	9674.1	9618.7	9665.2	9685.1	9678.5
32.5°	10170.5	10148.3	10141.7	10137.3	10245.9	10321.2	10276.9	10288.0	10325.6	10416.5	10387.7
35°	10826.5	10762.3	10780.0	10793.3	10935.1	10941.8	10946.2	10966.2	11065.9	11194.4	11119.1
37.5°	11509.1	11493.6	11504.7	11467.0	11571.2	11613.3	11675.4	11741.9	11899.2	12047.7	12016.7
40°	12353.5	12324.7	12335.8	12291.5	12342.5	12375.7	12502.0	12646.1	12847.8	13007.3	12934.2
42.5°	13472.8	13399.6	13399.6	13412.9	13519.3	13483.8	13754.2	13794.1	14044.6	14179.8	14137.6
45°	14789.2	14762.6	14623.0	14388.1	14255.1	14252.9	14470.1	14793.7	15208.1	15489.6	15487.4
47.5°	16462.5	16380.5	16045.9	15480.7	15143.8	15061.8	15290.1	15919.5	16681.9	17120.8	17114.1
50°	18656.6	18552.5	18045.0	17167.3	16511.3	16309.6	16675.3	17490.9	18517.0	19102.1	19150.9
52.5°	21112.3	21121.1	20547.1	19219.6	18248.8	17885.4	18273.2	19439.0	20717.8	21520.1	21615.4
55°	23964.6	23895.9	23352.9	21848.1	20511.7	19731.5	20318.9	21863.6	23333.0	23944.7	24113.1
57.5°	26934.4	26666.3	26249.6	24842.3	23279.8	22282.5	22987.3	24498.8	25906.1	26686.2	26659.6
60°	29567.4	29390.1	29150.7	28029.3	26830.3	25691.1	26234.1	27512.9	28718.6	29190.6	29210.6
62.5°	32444.1	32295.6	32080.7	31466.7	30806.3	30383.0	29891.0	30482.7	31424.6	31941.0	32109.5
65°	35267.7	35214.5	35338.6	35245.5	35524.7	35462.7	34283.6	33911.3	33926.8	33780.5	33705.2
67.5°	35101.4	35081.5	35812.9	37271.2	40054.8	40843.8	37818.6	34449.9	32931.7	32546.1	32490.7
70°	32541.6	32756.6	34110.8	36965.3	42045.0	42953.7	38811.5	32696.8	30755.3	29789.0	29549.7
72.5°	27617.1	28038.2	30114.8	34319.1	40391.7	40600.0	36316.0	30059.4	27200.4	26047.9	25877.3
75°	21309.5	21362.7	23488.1	28831.6	36047.8	36309.3	32395.4	25212.4	22399.9	20966.0	20921.7
77.5°	12978.5	13734.3	16834.9	21617.6	28656.5	30017.3	27094.0	20081.7	16737.3	15467.4	14758.2
80°	6367.4	6713.1	8947.1	13667.8	20482.9	22763.4	20106.1	13889.4	10323.4	8712.2	8534.9
82.5°	2898.9	3082.8	4233.1	7145.3	12360.2	15185.9	12409.0	7954.2	5511.9	4310.7	4270.8
85°	1125.9	1119.2	1713.2	2998.6	5917.5	8408.6	6283.2	3794.3	2522.1	1875.0	1768.6
87.5°	328.0	350.2	503.1	984.0	1753.1	2362.6	1937.0	1312.0	775.7	498.7	458.8
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)