

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: P510833

Luminaire Tested: **CST-CA8-480-727-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510833
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-CA8-480-727-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64136 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

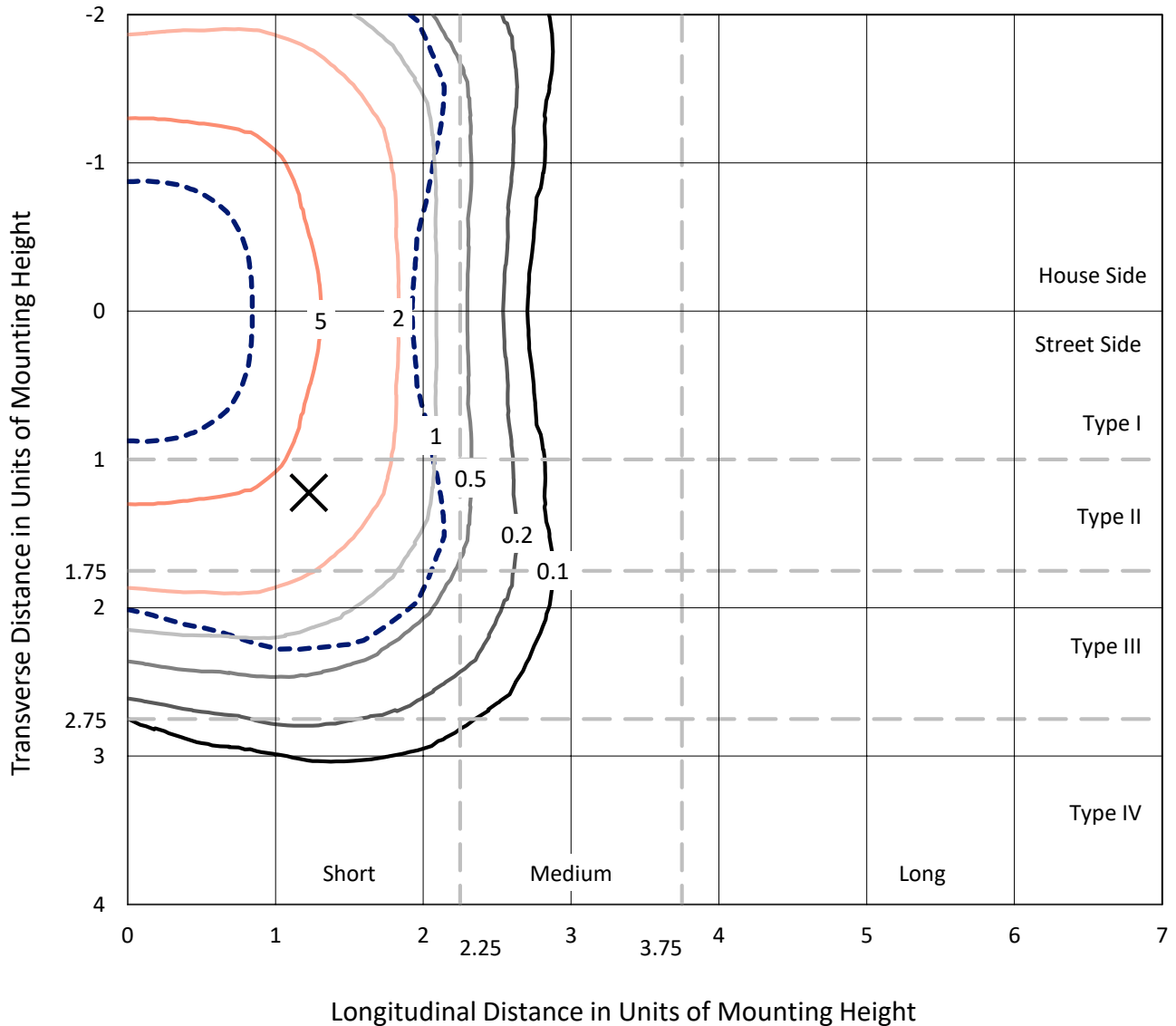
Input Watts (W): 480.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

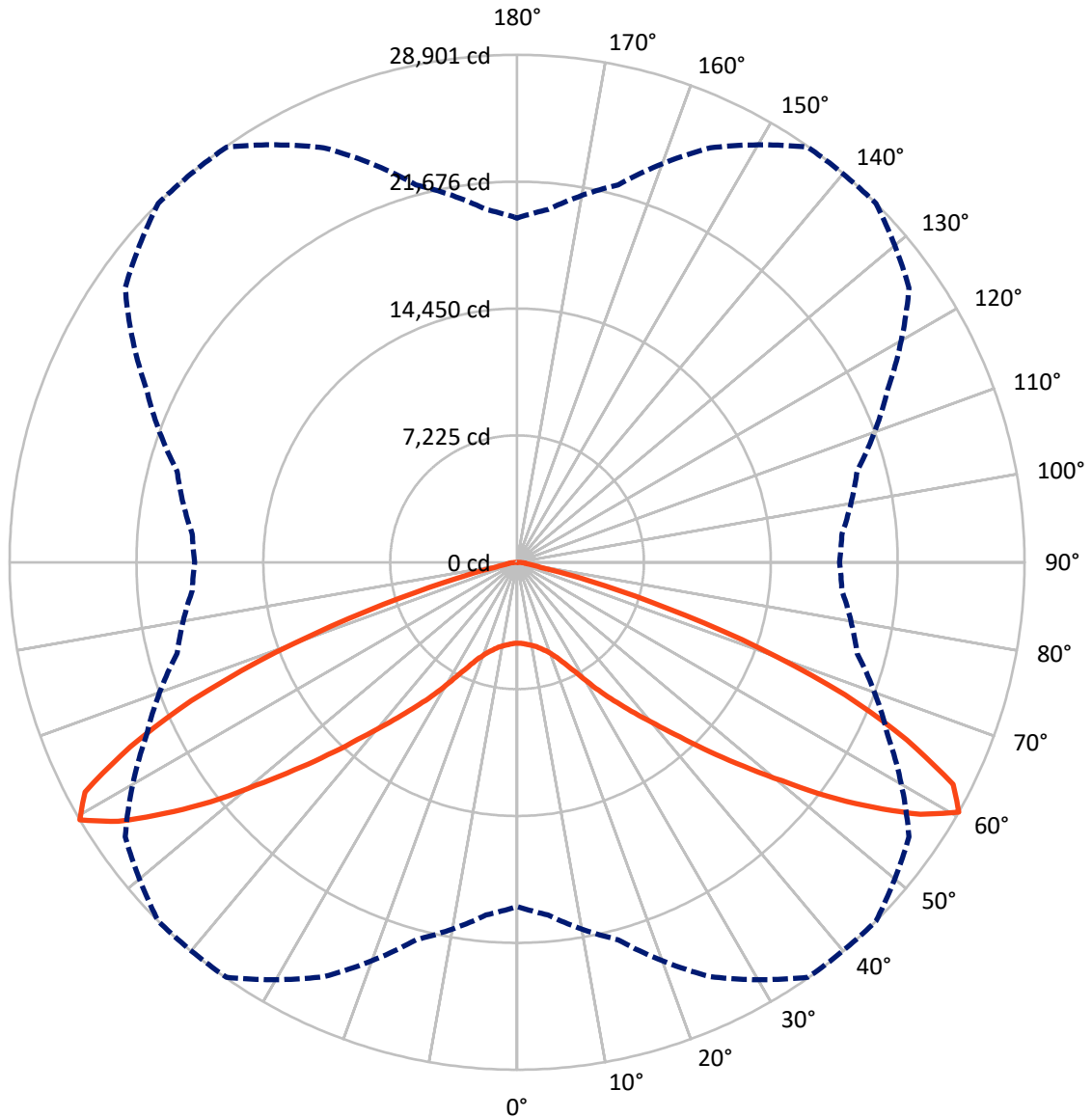
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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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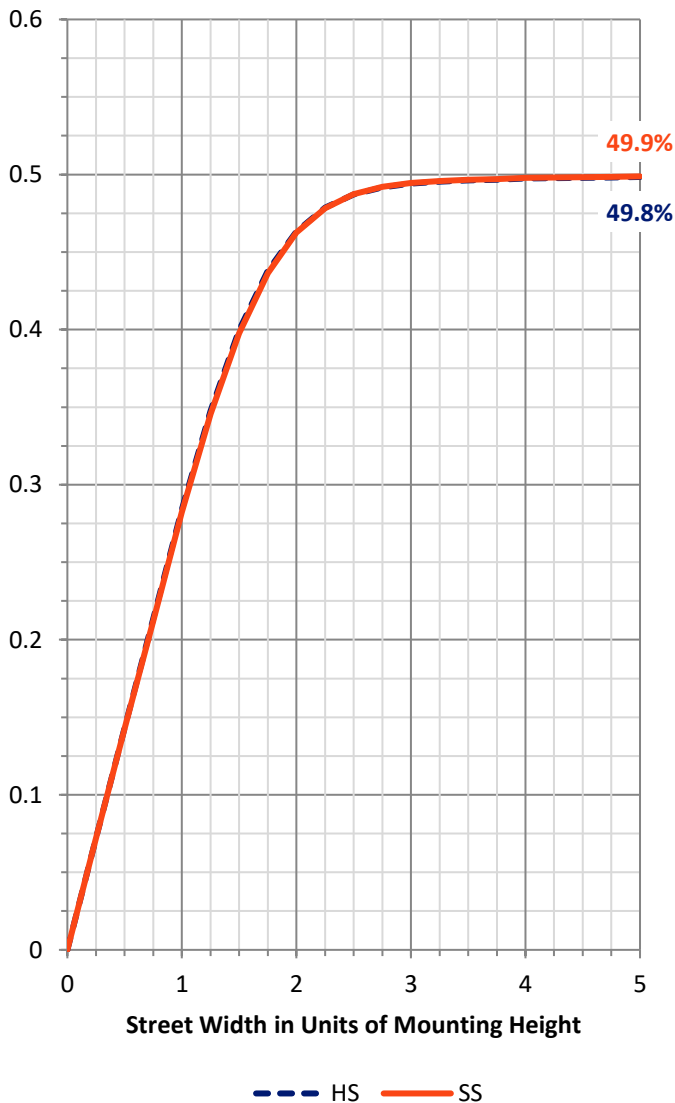
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32068.0	0.0	32068.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	32068.0	0.0	32068.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	64136.0	0.0	64136.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.7	0.7
10°-20°	1469.2	2.3
20°-30°	3120.5	4.9
30°-40°	6616.6	10.3
40°-50°	12582.9	19.6
50°-60°	19962.1	31.1
60°-70°	16873.3	26.3
70°-80°	2775.9	4.3
80°-90°	284.6	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°	64136.0	100.0
0°-180°	64136.0	100.0

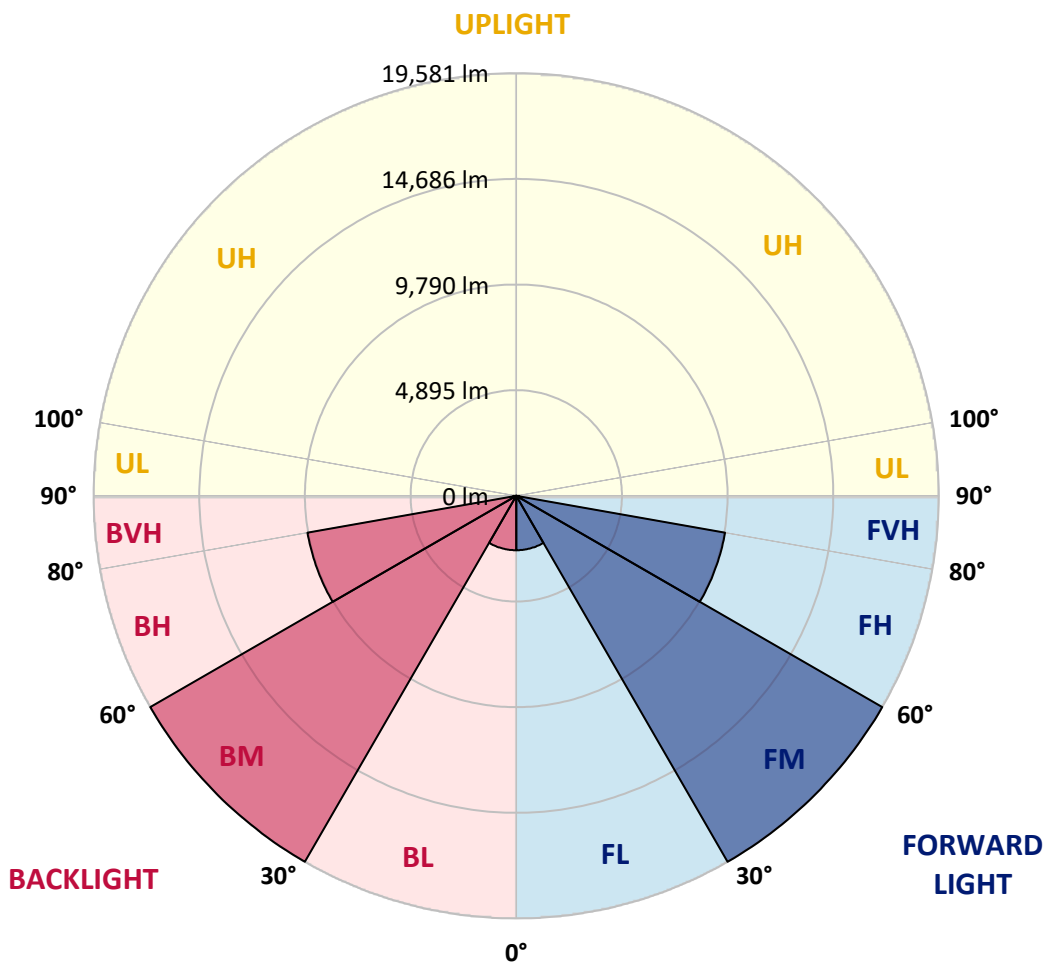


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2520.2	3.9			
FM (30°-60°)	19580.8	30.5			
FH (60°-80°)	9824.6	15.3			G4/12000
FVH (80°-90°)	142.3	0.2			G2/225
BL (0°-30°)	2520.2	3.9	B4/5000		
BM (30°-60°)	19580.8	30.5	B5		
BH (60°-80°)	9824.6	15.3	B5		G4/12000
BVH (80°-90°)	142.3	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-G4
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4604.7	4604.7	4604.7	4604.7	4604.7	4604.7	4604.7	4604.7	4604.7	4604.7	4604.7
2.5°	4638.0	4626.5	4622.9	4618.0	4620.5	4621.7	4628.3	4628.9	4628.9	4635.0	4645.2
5°	4690.0	4674.9	4669.4	4663.4	4666.4	4669.4	4675.5	4679.1	4678.5	4682.1	4691.2
7.5°	4746.2	4740.7	4734.1	4730.5	4730.5	4738.9	4734.7	4741.3	4740.7	4745.0	4750.4
10°	4829.6	4817.5	4816.9	4810.3	4813.3	4820.5	4821.7	4820.5	4821.7	4824.2	4836.8
12.5°	4935.4	4932.4	4934.2	4928.7	4926.9	4934.8	4936.6	4944.4	4946.9	4954.1	4962.0
15°	5105.8	5086.5	5084.1	5083.5	5087.1	5099.2	5102.8	5117.3	5124.0	5134.2	5151.8
17.5°	5298.7	5305.3	5293.2	5292.0	5291.4	5301.1	5310.7	5342.8	5353.1	5376.6	5391.7
20°	5606.3	5594.2	5587.0	5558.0	5550.7	5567.6	5602.7	5645.0	5665.0	5702.4	5730.8
22.5°	6017.3	5996.8	5947.2	5912.8	5898.3	5927.3	5965.4	6033.1	6113.5	6160.0	6172.7
25°	6611.5	6530.5	6468.9	6407.8	6386.1	6429.0	6490.6	6598.2	6699.2	6792.3	6835.2
27.5°	7335.1	7283.7	7161.0	7064.9	7026.8	7063.1	7191.2	7342.9	7527.9	7624.6	7639.1
30°	8253.8	8227.2	8070.7	7890.6	7822.9	7885.7	8036.8	8243.6	8501.1	8699.9	8735.0
32.5°	9391.4	9256.6	9039.0	8832.9	8760.4	8837.1	8988.8	9285.6	9632.6	9852.6	9927.6
35°	10695.8	10543.5	10216.5	9899.8	9806.1	9815.7	10058.7	10477.0	10951.5	11258.6	11342.6
37.5°	12134.4	11979.1	11593.4	11102.0	10885.0	10901.3	11219.3	11763.3	12413.7	12748.6	12859.8
40°	13669.7	13509.0	13111.2	12557.6	12200.9	12128.4	12553.3	13215.8	13876.5	14280.2	14323.2
42.5°	15170.6	14980.2	14660.4	14106.8	13781.6	13586.9	14100.1	14700.3	15366.5	15730.3	15758.7
45°	16511.3	16474.4	16217.5	15816.2	15548.4	15376.1	15742.4	16338.4	16803.8	17034.1	17118.2
47.5°	17807.2	17784.3	17702.1	17561.8	17628.3	17341.8	17517.7	17787.9	18043.6	18212.8	18278.1
50°	18943.0	18967.2	19128.6	19367.3	19848.5	19558.3	19503.3	19212.6	19219.9	19233.1	19300.8
52.5°	19881.1	20009.3	20415.5	21136.0	22175.0	22168.4	21336.0	20568.4	20221.4	20067.3	20081.2
55°	20699.0	20918.4	21589.3	23076.9	24563.8	24638.2	23506.0	21805.7	21155.3	20826.5	20869.4
57.5°	21150.5	21484.7	22620.5	24878.8	26998.0	27087.4	25826.5	23176.0	21686.6	20854.3	20890.0
60°	19600.7	20163.4	22257.2	26041.1	28859.7	28900.8	27245.2	23283.6	20043.7	18570.7	18354.9
62.5°	16039.8	16819.6	19773.5	25140.5	27997.1	27869.6	26357.3	21267.7	16465.4	14678.6	14497.2
65°	12048.6	12781.8	15874.8	21526.5	24565.7	24397.6	22857.5	16808.7	12071.6	10174.8	9951.7
67.5°	6520.9	7628.2	10522.4	16443.6	19583.1	20153.1	18019.4	11715.5	7025.0	5093.1	4897.3
70°	2252.2	2910.5	5365.1	10322.3	14124.9	14696.7	12288.0	6283.3	3074.3	1922.2	1725.7
72.5°	799.7	921.8	2017.1	4984.9	8041.7	8910.3	6630.3	2527.2	979.8	713.9	699.4
75°	564.6	582.7	716.9	1625.4	3481.7	4264.4	2614.3	839.0	611.1	571.2	567.6
77.5°	504.1	514.4	580.9	661.9	1063.8	1361.8	804.5	608.7	530.7	508.3	500.5
80°	479.3	487.2	506.5	542.8	603.2	627.4	542.8	520.4	483.0	473.3	470.3
82.5°	418.9	417.1	422.5	437.6	464.8	470.9	435.8	408.0	408.6	397.1	391.7
85°	283.5	300.4	287.7	272.0	337.3	339.1	316.1	236.9	269.0	263.5	241.2
87.5°	85.8	96.7	76.8	53.2	73.1	56.8	51.4	53.2	50.8	44.1	39.9
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)