

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: P510863

Luminaire Tested: **CST-CA8-480-750-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510863
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-CA8-480-750-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 77129 lumens
Efficiency: N/A
Efficacy: 160.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

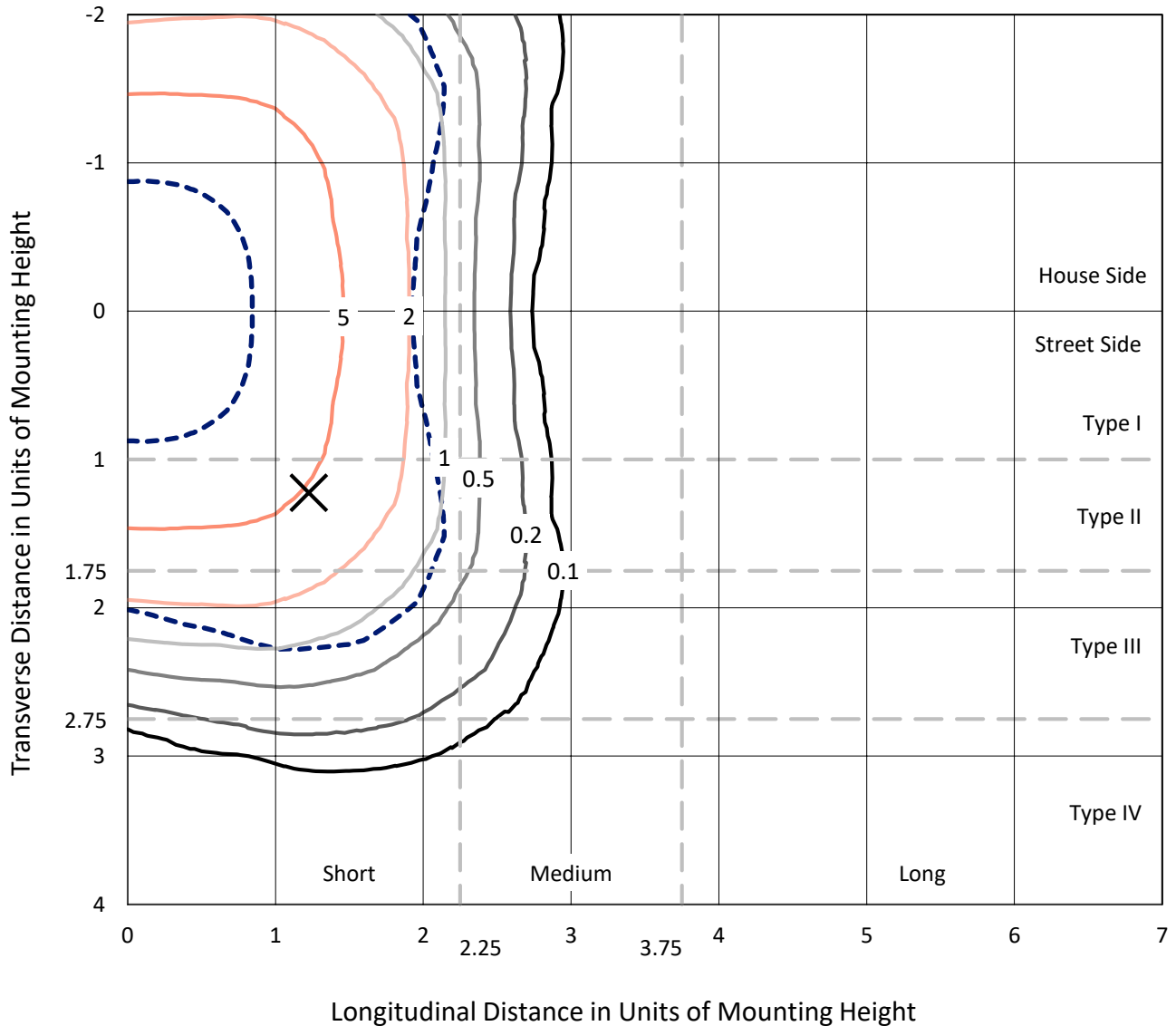
Input Watts (W): 480.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

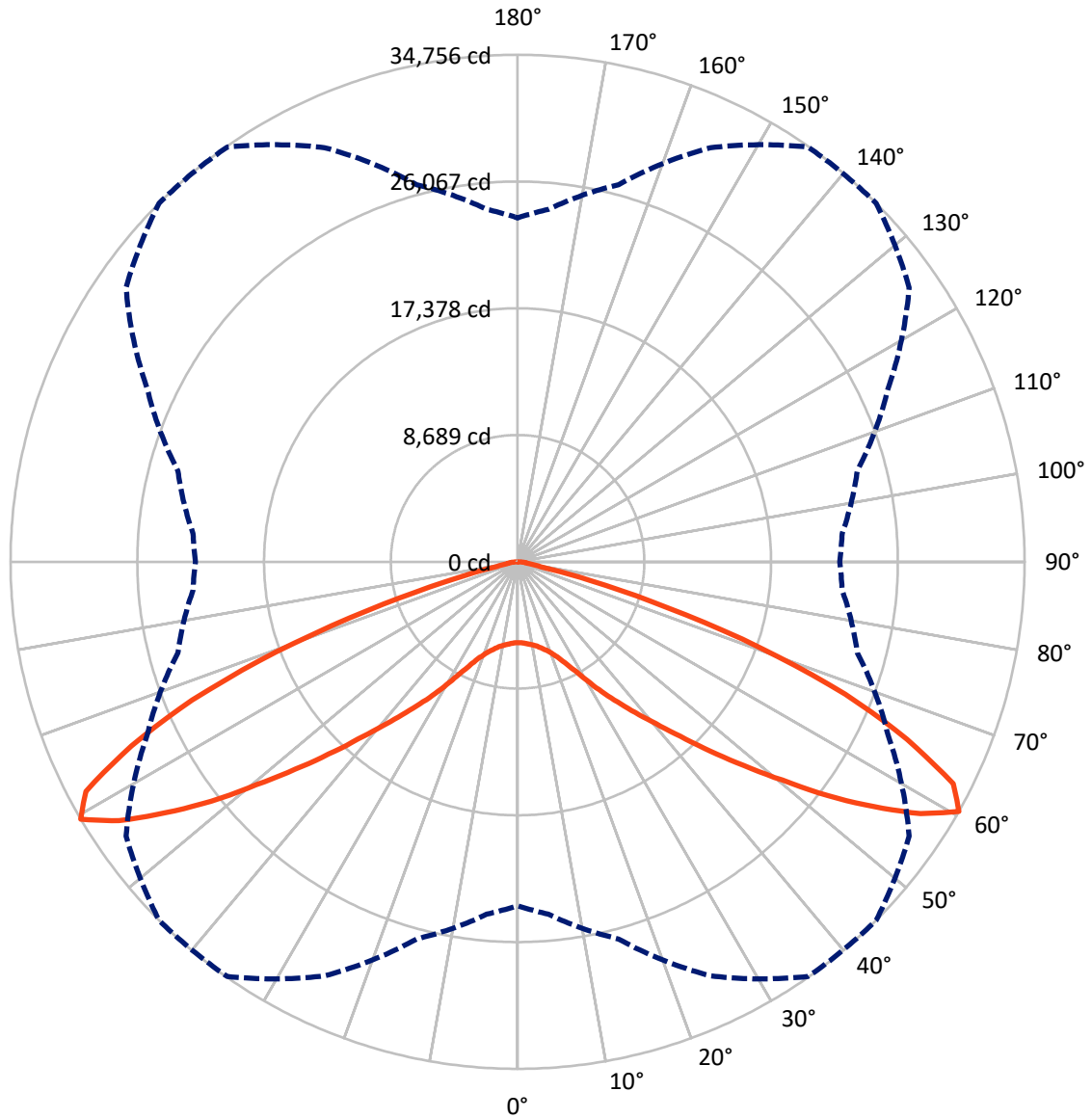
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 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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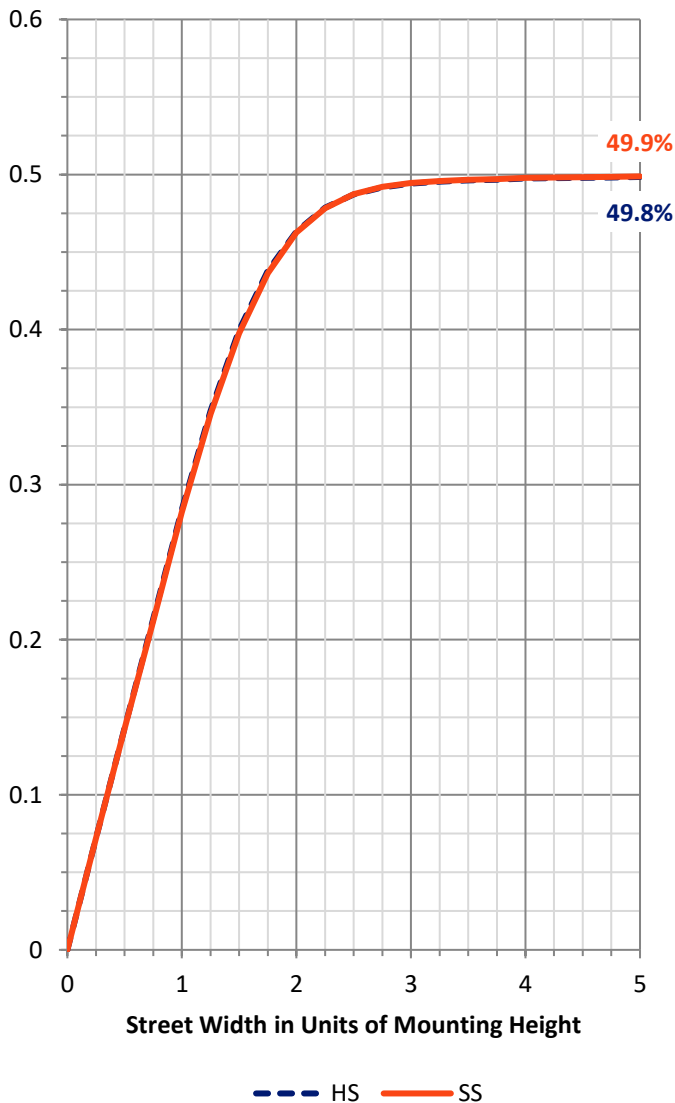
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	38564.5	0.0	38564.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	38564.5	0.0	38564.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	77129.0	0.0	77129.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.0	0.7
10°-20°	1766.9	2.3
20°-30°	3752.7	4.9
30°-40°	7957.0	10.3
40°-50°	15132.1	19.6
50°-60°	24006.2	31.1
60°-70°	20291.6	26.3
70°-80°	3338.3	4.3
80°-90°	342.3	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°	77129.0	100.0
0°-180°	77129.0	100.0



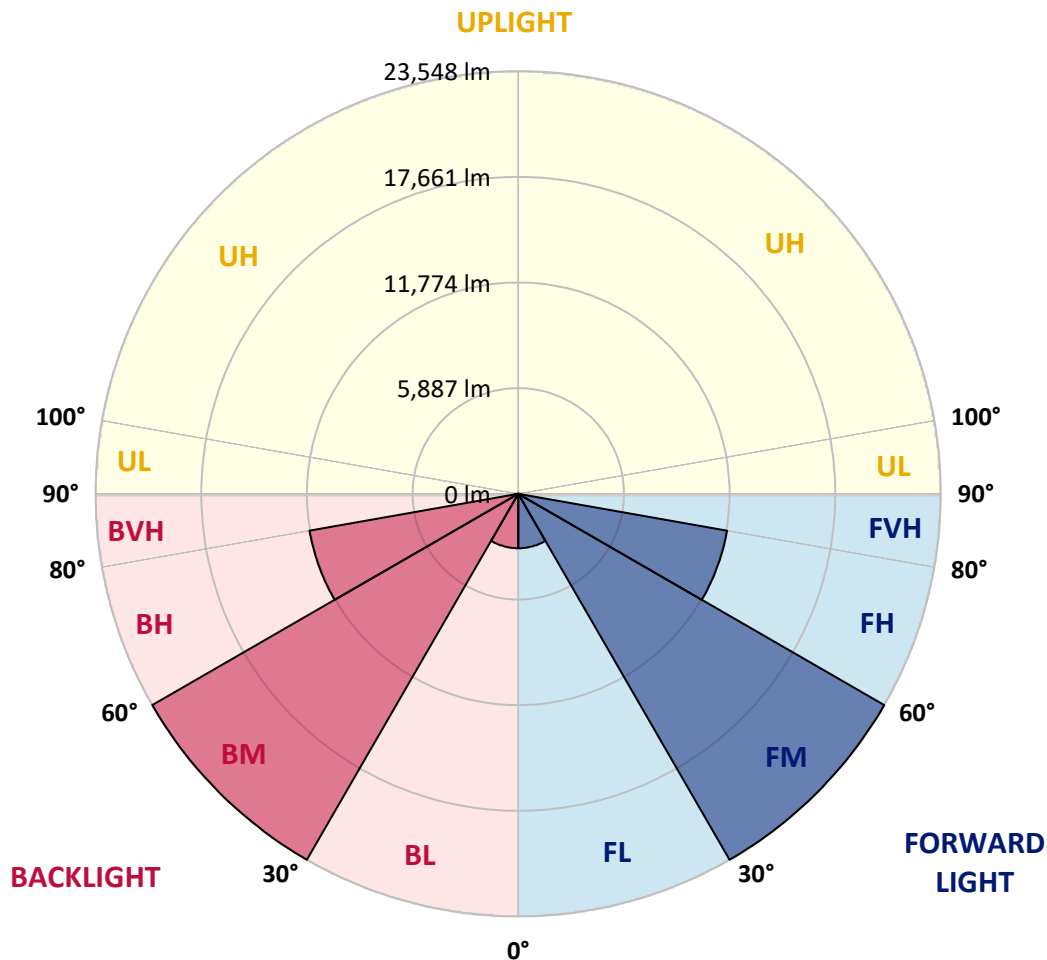
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3030.8	3.9			
FM (30°-60°)	23547.6	30.5			
FH (60°-80°)	11814.9	15.3			G4/12000
FVH (80°-90°)	171.2	0.2			G2/225
BL (0°-30°)	3030.8	3.9	B4/5000		
BM (30°-60°)	23547.6	30.5	B5		
BH (60°-80°)	11814.9	15.3	B5		G4/12000
BVH (80°-90°)	171.2	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°	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6
2.5°	5577.6	5563.8	5559.4	5553.6	5556.5	5557.9	5565.9	5566.7	5566.7	5573.9	5586.3
5°	5640.1	5621.9	5615.4	5608.1	5611.7	5615.4	5622.6	5627.0	5626.3	5630.6	5641.5
7.5°	5707.7	5701.1	5693.1	5688.8	5688.8	5699.0	5693.9	5701.9	5701.1	5706.2	5712.8
10°	5808.0	5793.5	5792.7	5784.7	5788.4	5797.1	5798.5	5797.1	5798.5	5801.5	5816.7
12.5°	5935.2	5931.6	5933.8	5927.2	5925.0	5934.5	5936.7	5946.1	5949.0	5957.7	5967.2
15°	6140.2	6116.9	6114.0	6113.3	6117.7	6132.2	6136.6	6154.0	6162.0	6174.4	6195.4
17.5°	6372.1	6380.1	6365.5	6364.1	6363.4	6375.0	6386.6	6425.1	6437.5	6465.9	6484.0
20°	6742.1	6727.5	6718.8	6683.9	6675.2	6695.6	6737.7	6788.6	6812.6	6857.7	6891.8
22.5°	7236.4	7211.7	7152.1	7110.6	7093.2	7128.1	7173.9	7255.3	7352.0	7407.9	7423.2
25°	7950.9	7853.5	7779.4	7706.0	7679.8	7731.4	7805.5	7934.9	8056.3	8168.3	8219.9
27.5°	8821.0	8759.2	8611.7	8496.1	8450.3	8493.9	8648.0	8830.5	9052.9	9169.2	9186.7
30°	9925.9	9894.0	9705.7	9489.1	9407.6	9483.2	9665.0	9913.6	10223.2	10462.4	10504.6
32.5°	11294.0	11131.9	10870.2	10622.3	10535.1	10627.4	10809.9	11166.8	11584.0	11848.6	11938.7
35°	12862.6	12679.5	12286.2	11905.3	11792.6	11804.3	12096.5	12599.5	13170.1	13539.4	13640.4
37.5°	14592.7	14405.9	13942.1	13351.1	13090.2	13109.8	13492.1	14146.4	14928.5	15331.2	15465.0
40°	16439.0	16245.7	15767.4	15101.5	14672.6	14585.4	15096.4	15893.1	16687.6	17173.2	17224.8
42.5°	18243.9	18015.0	17630.4	16964.6	16573.5	16339.4	16956.6	17678.4	18479.5	18917.1	18951.2
45°	19856.2	19811.9	19503.0	19020.3	18698.3	18491.1	18931.6	19648.3	20208.1	20485.0	20586.0
47.5°	21414.7	21387.1	21288.2	21119.6	21199.6	20855.0	21066.5	21391.5	21698.9	21902.5	21981.0
50°	22780.6	22809.7	23003.7	23290.9	23869.5	23520.6	23454.4	23104.8	23113.5	23129.5	23210.9
52.5°	23908.7	24062.9	24551.3	25417.8	26667.4	26659.4	25658.4	24735.2	24318.0	24132.6	24149.4
55°	24892.3	25156.1	25963.0	27751.9	29540.1	29629.5	28268.0	26223.2	25441.1	25045.6	25097.2
57.5°	25435.3	25837.2	27203.1	29918.8	32467.4	32574.9	31058.6	27871.1	26080.0	25079.1	25122.0
60°	23571.5	24248.2	26766.2	31316.7	34706.2	34755.7	32764.7	28000.5	24104.3	22332.8	22073.3
62.5°	19289.2	20227.0	23779.4	30233.6	33668.9	33515.6	31696.8	25576.3	19801.0	17652.2	17434.2
65°	14489.5	15371.2	19090.8	25887.4	29542.3	29340.2	27488.0	20213.9	14517.1	12236.0	11967.8
67.5°	7841.9	9173.6	12654.0	19774.8	23550.4	24235.9	21669.9	14088.9	8448.1	6124.9	5889.4
70°	2708.5	3500.1	6452.0	12413.4	16986.4	17674.1	14777.3	7556.2	3697.1	2311.6	2075.3
72.5°	961.7	1108.5	2425.7	5994.8	9670.8	10715.4	7973.5	3039.2	1178.3	858.5	841.0
75°	678.9	700.7	862.1	1954.7	4187.0	5128.3	3143.9	1008.9	734.9	686.9	682.6
77.5°	606.2	618.6	698.6	796.0	1279.4	1637.7	967.5	732.0	638.2	611.3	601.9
80°	576.4	585.9	609.1	652.8	725.5	754.5	652.8	625.9	580.8	569.2	565.5
82.5°	503.7	501.6	508.1	526.3	559.0	566.3	524.1	490.7	491.4	477.6	471.0
85°	340.9	361.3	346.0	327.1	405.6	407.8	380.2	284.9	323.5	316.9	290.0
87.5°	103.2	116.3	92.3	64.0	88.0	68.3	61.8	64.0	61.1	53.1	48.0
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)