

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: P510783

Luminaire Tested: **CST-CA8-330-730-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510783
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-CA8-330-730-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51222 lumens
Efficiency: N/A
Efficacy: 154.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

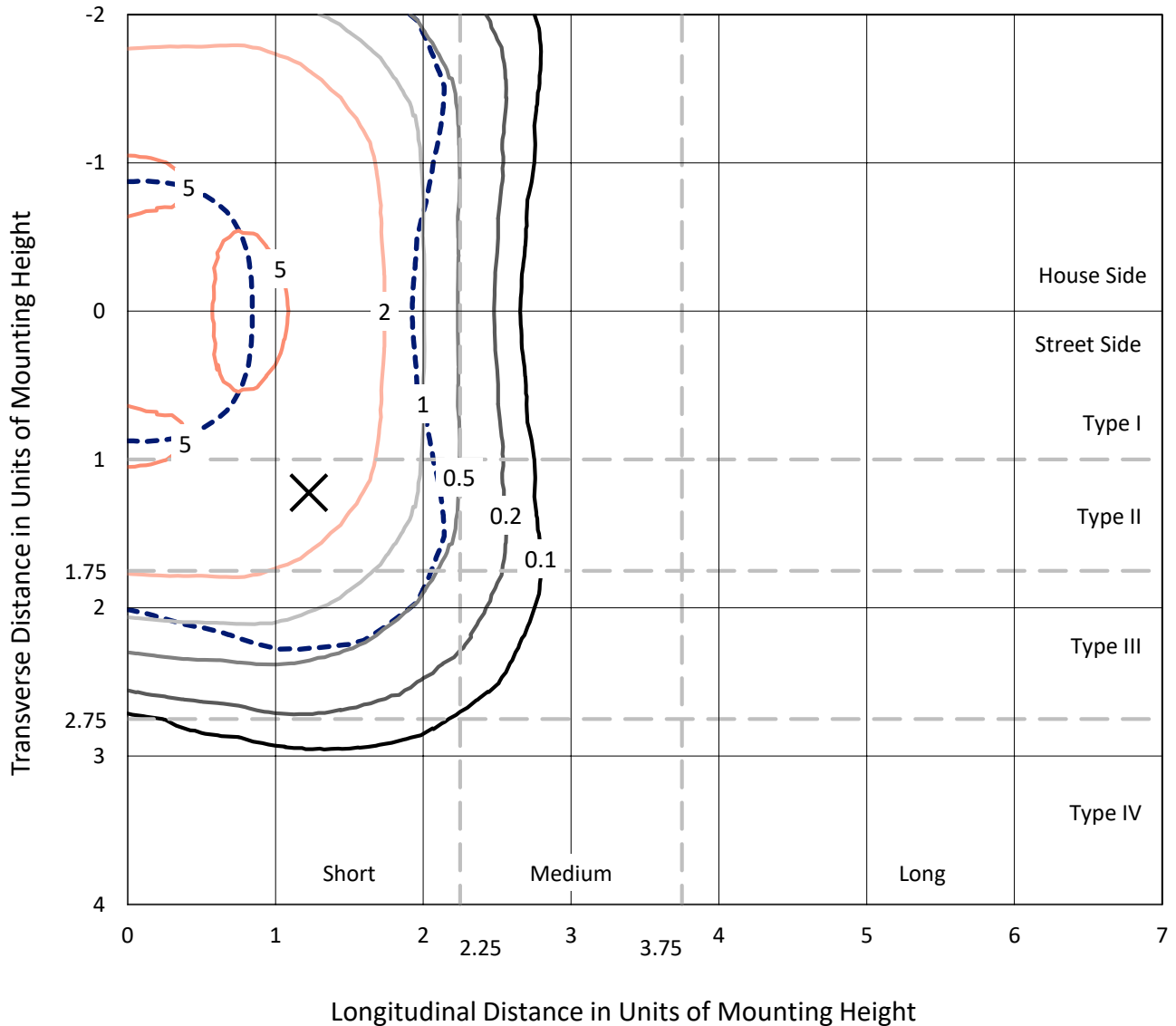
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

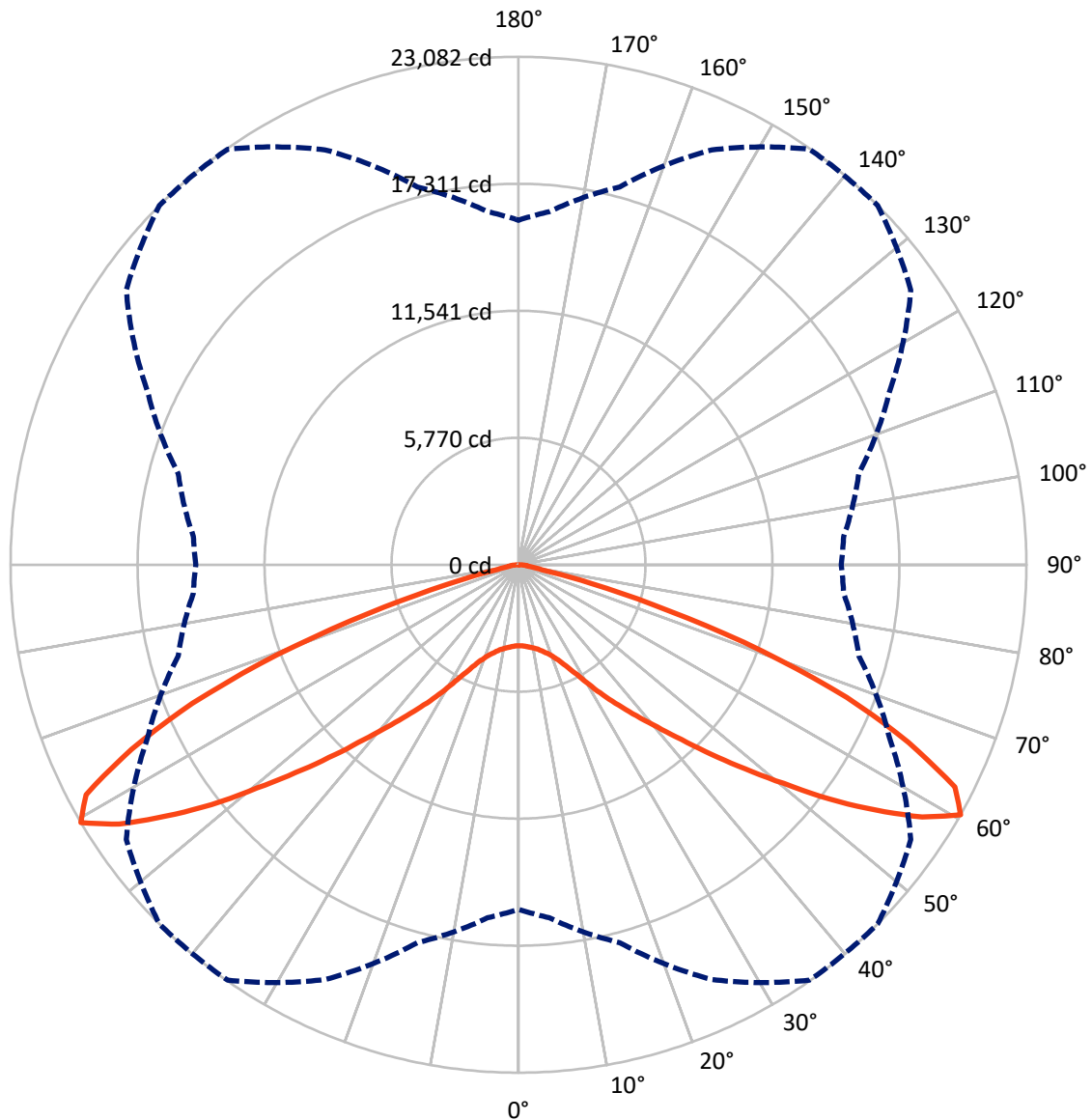
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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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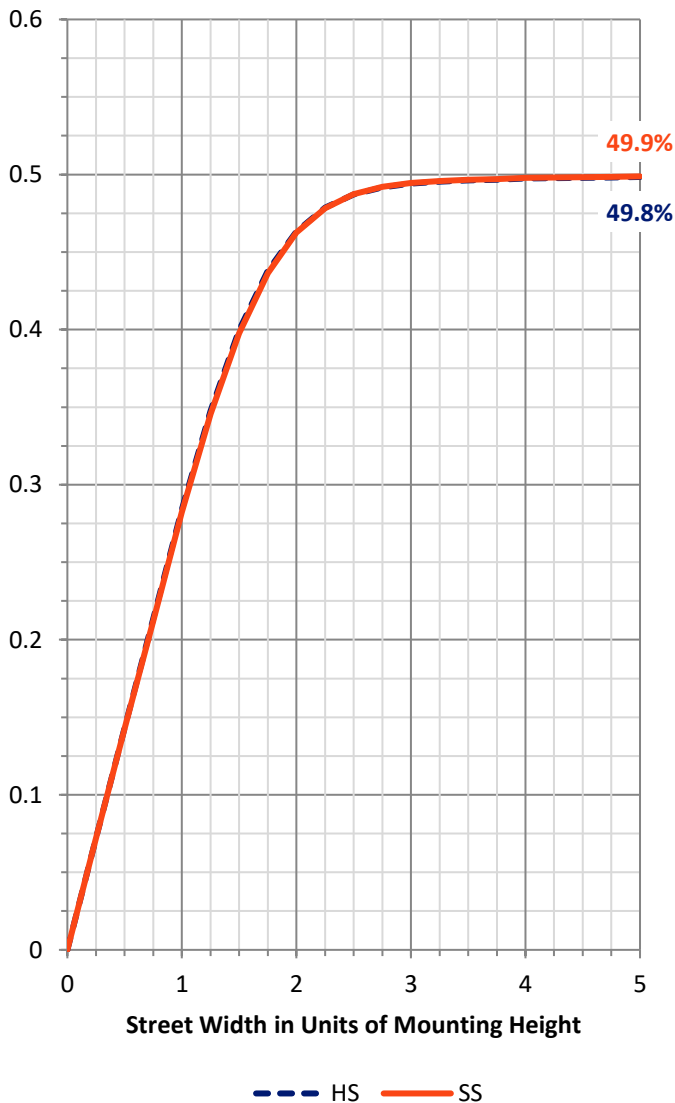
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25611.0	0.0	25611.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25611.0	0.0	25611.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	51222.0	0.0	51222.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.9	0.7
10°-20°	1173.4	2.3
20°-30°	2492.2	4.9
30°-40°	5284.3	10.3
40°-50°	10049.3	19.6
50°-60°	15942.7	31.1
60°-70°	13475.8	26.3
70°-80°	2217.0	4.3
80°-90°	227.3	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°	51222.0	100.0
0°-180°	51222.0	100.0

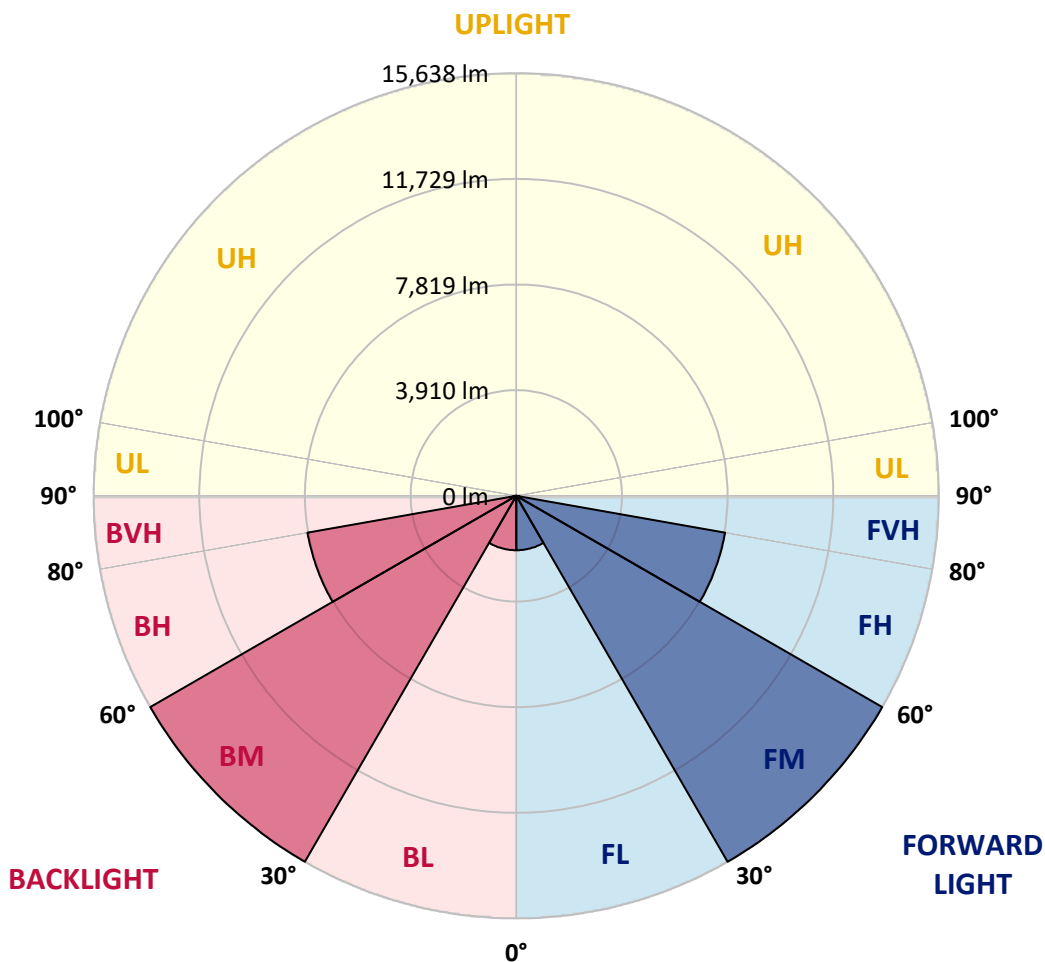


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2012.8	3.9			
FM (30°-60°)	15638.2	30.5			
FH (60°-80°)	7846.4	15.3			G4/12000
FVH (80°-90°)	113.7	0.2			G2/225
BL (0°-30°)	2012.8	3.9	B3/2500		
BM (30°-60°)	15638.2	30.5	B5		
BH (60°-80°)	7846.4	15.3	B5		G4/12000
BVH (80°-90°)	113.7	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°	3677.6	3677.6	3677.6	3677.6	3677.6	3677.6	3677.6	3677.6	3677.6	3677.6	3677.6
2.5°	3704.1	3694.9	3692.0	3688.2	3690.1	3691.1	3696.4	3696.9	3696.9	3701.7	3709.9
5°	3745.6	3733.6	3729.2	3724.4	3726.8	3729.2	3734.0	3736.9	3736.5	3739.3	3746.6
7.5°	3790.5	3786.2	3780.9	3778.0	3778.0	3784.7	3781.3	3786.7	3786.2	3789.6	3793.9
10°	3857.1	3847.5	3847.0	3841.7	3844.1	3849.9	3850.9	3849.9	3850.9	3852.8	3862.9
12.5°	3941.6	3939.2	3940.7	3936.3	3934.9	3941.1	3942.6	3948.9	3950.8	3956.6	3962.9
15°	4077.8	4062.3	4060.4	4059.9	4062.8	4072.4	4075.3	4086.9	4092.2	4100.4	4114.4
17.5°	4231.8	4237.1	4227.4	4226.4	4226.0	4233.7	4241.4	4267.0	4275.2	4294.0	4306.1
20°	4477.5	4467.8	4462.0	4438.8	4433.1	4446.6	4474.6	4508.4	4524.3	4554.2	4576.9
22.5°	4805.7	4789.3	4749.7	4722.2	4710.6	4733.8	4764.2	4818.3	4882.5	4919.7	4929.8
25°	5280.3	5215.6	5166.3	5117.6	5100.2	5134.5	5183.7	5269.7	5350.3	5424.6	5458.9
27.5°	5858.1	5817.1	5719.1	5642.3	5611.9	5640.9	5743.2	5864.4	6012.1	6089.4	6100.9
30°	6591.9	6570.7	6445.6	6301.8	6247.7	6297.9	6418.6	6583.7	6789.3	6948.2	6976.2
32.5°	7500.4	7392.8	7219.0	7054.4	6996.4	7057.7	7178.9	7415.9	7693.0	7868.8	7928.6
35°	8542.2	8420.5	8159.4	7906.4	7831.6	7839.3	8033.4	8367.4	8746.4	8991.6	9058.7
37.5°	9691.1	9567.1	9259.1	8866.6	8693.3	8706.3	8960.2	9394.7	9914.2	10181.6	10270.4
40°	10917.3	10788.9	10471.2	10029.0	9744.2	9686.3	10025.7	10554.8	11082.4	11404.9	11439.1
42.5°	12116.0	11963.9	11708.5	11266.3	11006.6	10851.2	11261.0	11740.4	12272.4	12563.0	12585.7
45°	13186.7	13157.2	12952.1	12631.5	12417.7	12280.1	12572.6	13048.6	13420.3	13604.3	13671.4
47.5°	14221.7	14203.3	14137.7	14025.7	14078.8	13850.0	13990.5	14206.2	14410.4	14545.6	14597.8
50°	15128.8	15148.1	15277.0	15467.7	15851.9	15620.2	15576.3	15344.1	15349.9	15360.5	15414.6
52.5°	15878.0	15980.3	16304.7	16880.2	17710.0	17704.7	17040.0	16426.9	16149.8	16026.7	16037.8
55°	16531.1	16706.4	17242.2	18430.3	19617.8	19677.2	18773.0	17415.1	16895.6	16633.0	16667.3
57.5°	16891.8	17158.7	18065.8	19869.3	21561.8	21633.3	20626.3	18509.4	17320.0	16655.2	16683.7
60°	15654.0	16103.4	17775.7	20797.7	23048.7	23081.5	21759.3	18595.4	16007.9	14831.4	14659.1
62.5°	12810.1	13432.9	15792.1	20078.4	22359.8	22258.0	21050.1	16985.4	13150.0	11723.0	11578.2
65°	9622.6	10208.1	12678.4	17192.0	19619.3	19485.1	18255.0	13424.2	9640.9	8126.1	7947.9
67.5°	5207.9	6092.3	8403.6	13132.6	15640.0	16095.2	14391.1	9356.6	5610.5	4067.6	3911.2
70°	1798.7	2324.4	4284.9	8243.9	11280.8	11737.5	9813.7	5018.1	2455.2	1535.1	1378.2
72.5°	638.7	736.2	1610.9	3981.2	6422.5	7116.2	5295.2	2018.4	782.5	570.1	558.5
75°	450.9	465.4	572.5	1298.1	2780.6	3405.8	2087.9	670.1	488.1	456.2	453.3
77.5°	402.6	410.8	463.9	528.6	849.6	1087.6	642.5	486.1	423.9	406.0	399.7
80°	382.8	389.1	404.5	433.5	481.8	501.1	433.5	415.6	385.7	378.0	375.6
82.5°	334.5	333.1	337.4	349.5	371.2	376.1	348.1	325.9	326.3	317.2	312.8
85°	226.4	239.9	229.8	217.2	269.4	270.8	252.5	189.2	214.8	210.5	192.6
87.5°	68.5	77.2	61.3	42.5	58.4	45.4	41.0	42.5	40.6	35.2	31.9
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)