

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: P233971

Luminaire Tested: **CST-10-3-D-U-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-24)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-10-3-D-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
(10) 70 CRI, 4000K LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33856 lumens
Efficiency: N/A
Efficacy: 159.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Medium - Semi-Cutoff
BUG Rating: B5 - U0 - G3

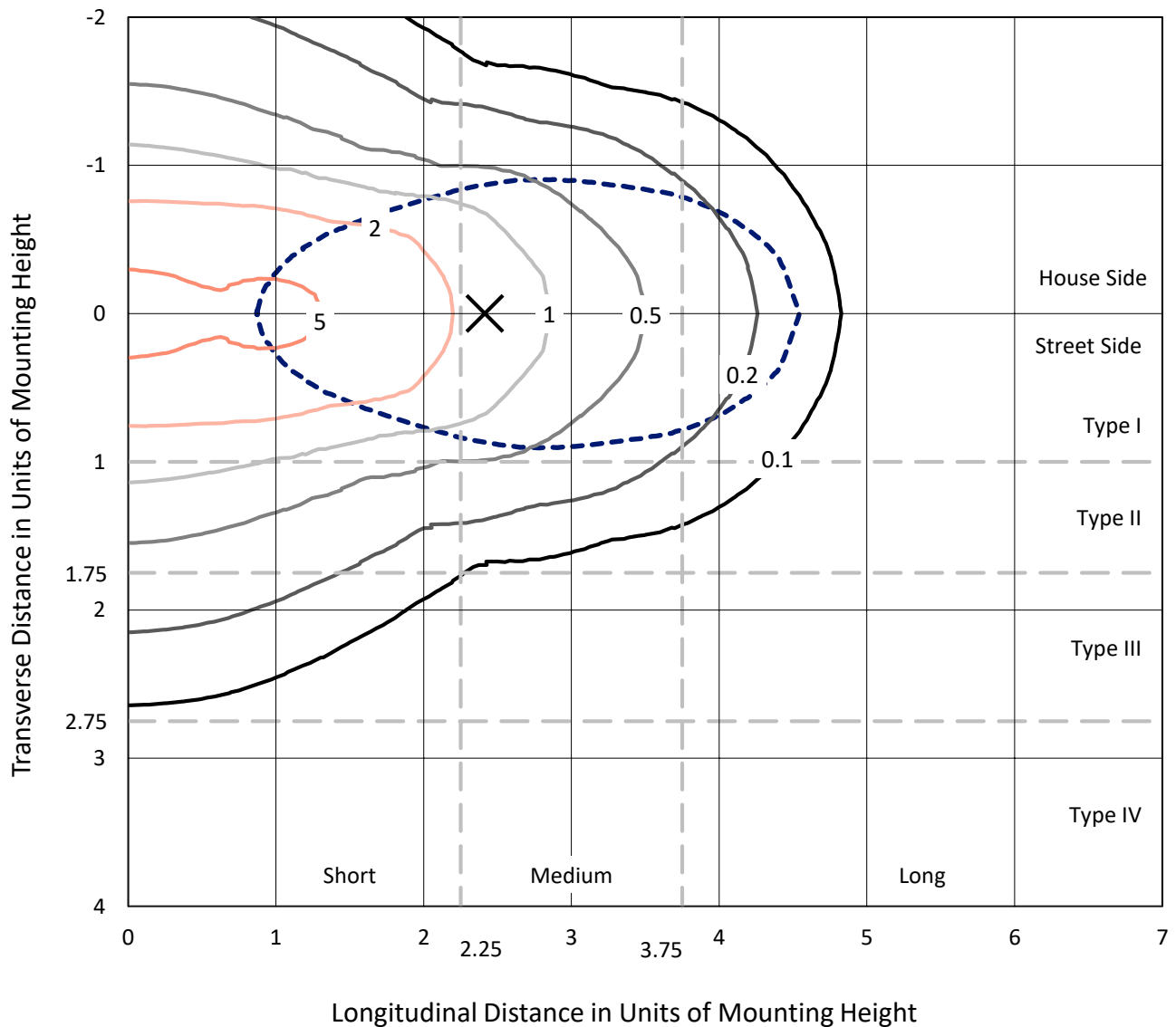
Input Watts (W): 212
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

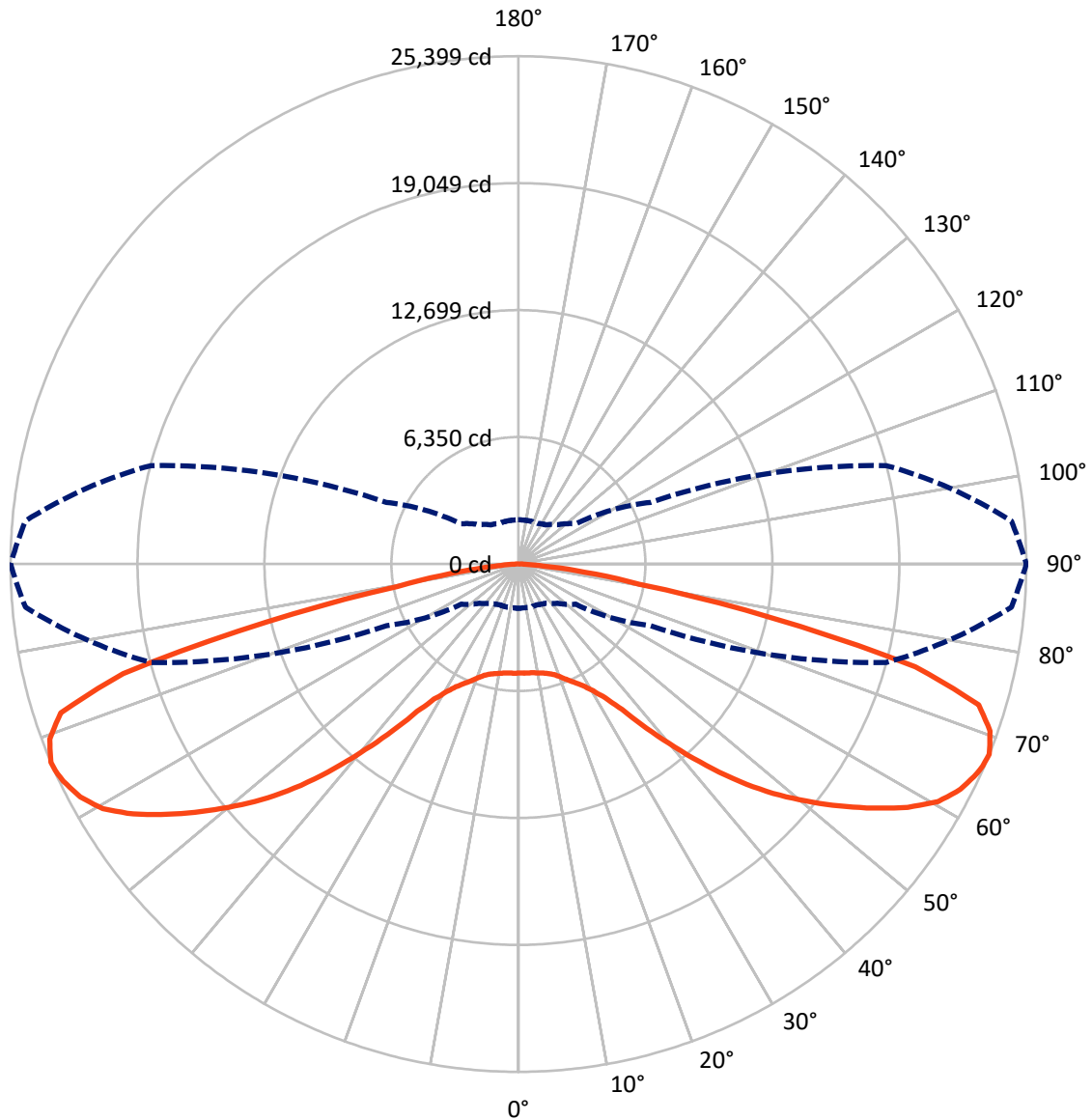
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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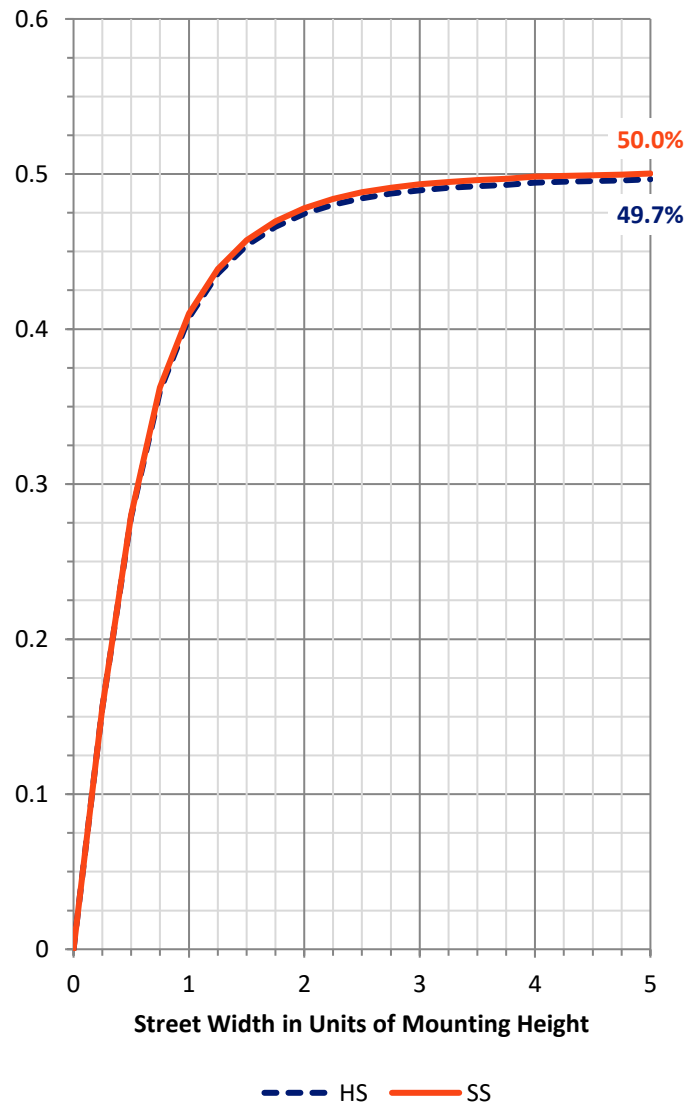
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16928.0	0.0	16928.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16928.0	0.0	16928.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33856.0	0.0	33856.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.2	1.5
10°-20°	1541.7	4.6
20°-30°	2551.1	7.5
30°-40°	3737.7	11.0
40°-50°	5499.0	16.2
50°-60°	7130.8	21.1
60°-70°	7578.6	22.4
70°-80°	4678.3	13.8
80°-90°	620.5	1.8
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°	33856.0	100.0
0°-180°	33856.0	100.0



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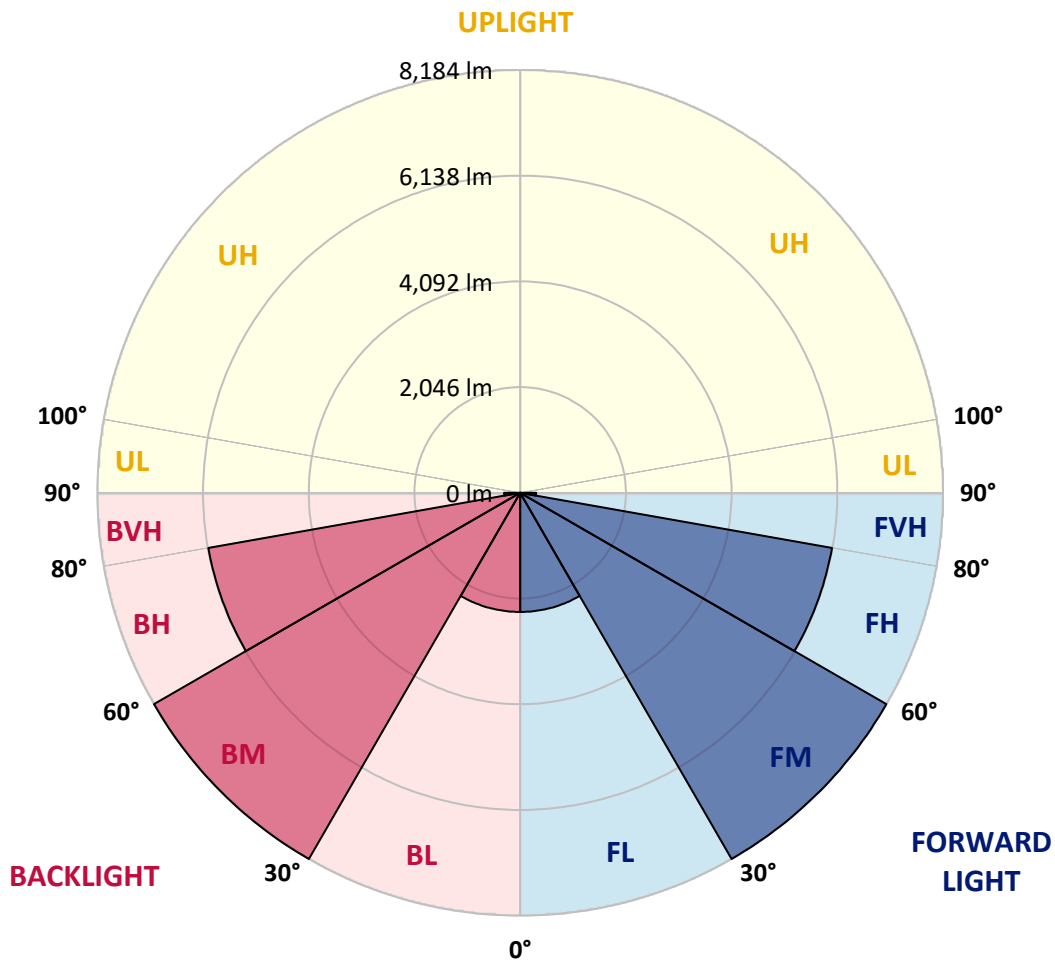
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2305.5	6.8			
FM	(30°-60°)	8183.8	24.2			
FH	(60°-80°)	6128.4	18.1			G3/7500
FVH	(80°-90°)	310.3	0.9			G3/500
BL	(0°-30°)	2305.5	6.8	B3/2500		
BM	(30°-60°)	8183.8	24.2	B4/8500		
BH	(60°-80°)	6128.4	18.1	B5		G3/7500
BVH	(80°-90°)	310.3	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5452.3	5452.3	5452.3	5452.3	5452.3	5452.3	5452.3	5452.3	5452.3	5452.3	5452.3
2.5°	5467.5	5450.2	5457.3	5482.7	5390.4	5436.0	5419.8	5460.4	5439.1	5457.3	5466.5
5°	5428.9	5407.6	5417.8	5465.4	5381.3	5427.9	5415.7	5461.4	5434.0	5459.4	5469.5
7.5°	5395.5	5373.1	5391.4	5431.0	5367.1	5418.8	5408.6	5470.5	5448.2	5480.7	5490.8
10°	5374.2	5349.8	5367.1	5410.7	5342.7	5423.9	5414.7	5496.9	5485.7	5530.4	5542.5
12.5°	5321.4	5296.0	5308.2	5366.0	5335.6	5419.8	5442.1	5536.5	5533.4	5587.2	5600.4
15°	5227.1	5201.7	5217.9	5295.0	5306.2	5422.8	5491.8	5603.4	5621.7	5675.4	5686.6
17.5°	5108.4	5090.1	5114.5	5216.9	5286.9	5464.4	5563.8	5705.9	5750.5	5805.3	5820.5
20°	4946.1	4935.9	4979.6	5119.5	5253.4	5494.9	5650.1	5849.9	5931.0	6020.3	6031.5
22.5°	4725.0	4712.8	4804.1	5000.9	5193.6	5502.0	5734.3	5999.0	6149.1	6263.8	6293.2
25°	4476.4	4472.4	4597.1	4855.8	5112.4	5496.9	5816.4	6158.3	6387.5	6538.7	6571.1
27.5°	4232.0	4244.1	4395.3	4700.6	5045.5	5508.0	5910.8	6362.2	6685.7	6874.4	6888.6
30°	4024.0	4034.2	4197.5	4547.4	4981.6	5521.2	6027.4	6605.6	7057.0	7311.6	7353.2
32.5°	3828.2	3851.6	4017.9	4381.1	4910.6	5546.6	6178.5	6923.1	7512.5	7914.1	7965.9
35°	3667.0	3687.2	3849.5	4211.7	4798.0	5566.9	6378.4	7324.8	8191.1	8859.5	8939.7
37.5°	3523.9	3548.3	3688.3	4055.5	4664.1	5574.0	6577.2	7819.8	9110.1	10174.2	10423.7
40°	3420.5	3439.7	3560.5	3899.3	4520.0	5541.5	6804.4	8373.7	10142.7	11743.4	12017.3
42.5°	3335.3	3351.5	3450.9	3746.1	4357.7	5477.6	7016.4	8925.5	11234.2	13406.0	13763.0
45°	3249.0	3253.1	3348.4	3614.2	4193.4	5376.2	7175.7	9454.0	12383.5	15102.0	15519.9
47.5°	3171.9	3166.9	3241.9	3484.4	4016.9	5205.8	7237.6	9892.2	13500.3	16691.5	17148.0
50°	3099.9	3078.6	3143.5	3360.6	3845.5	4961.3	7159.4	10195.5	14674.9	18227.3	18632.0
52.5°	2992.4	2982.3	3044.1	3238.9	3674.1	4669.2	6901.8	10355.7	15927.7	19681.9	20104.9
55°	2896.0	2888.9	2952.8	3115.1	3505.7	4371.9	6457.5	10312.1	17162.2	21084.8	21553.4
57.5°	2789.5	2784.5	2844.3	2980.2	3320.0	4096.0	5907.7	10030.1	18264.8	22295.9	22958.3
60°	2685.0	2688.1	2726.6	2843.3	3131.4	3791.7	5280.8	9539.2	19144.3	23392.5	24115.7
62.5°	2563.3	2560.3	2588.7	2686.1	2915.3	3463.1	4663.1	8858.5	19659.6	24350.0	24812.6
65°	2399.0	2387.8	2420.3	2482.2	2653.6	3126.3	4054.5	8034.9	19672.8	24825.8	25219.4
66°	2329.0	2316.8	2346.2	2389.9	2551.1	2990.4	3830.3	7685.9	19470.9	24840.0	25328.9
67.5°	2220.5	2206.3	2225.5	2245.8	2390.9	2773.3	3501.6	7290.3	19028.6	24750.7	25398.9
70°	1950.6	1952.7	1973.0	1965.9	2039.9	2290.5	2892.0	6555.9	16895.4	24389.6	25023.6
72.5°	1518.5	1501.3	1471.9	1443.5	1479.0	1699.1	2190.0	5502.0	13835.0	22832.5	24065.0
75°	979.9	976.8	975.8	1010.3	1015.4	1164.5	1692.0	4438.9	10784.8	18737.5	20511.6
77.5°	612.7	607.6	651.2	735.4	748.6	752.7	1109.7	3373.8	7796.5	11989.9	12920.1
80°	439.2	439.2	442.3	453.4	524.4	535.6	766.9	2118.0	4433.8	5844.8	6141.0
82.5°	332.7	327.6	328.7	333.7	339.8	365.2	461.5	940.3	1771.1	2962.0	3351.5
85°	240.4	247.5	259.7	250.6	226.2	229.2	261.7	323.6	680.6	1147.3	1240.6
87.5°	87.2	100.4	103.5	107.5	103.5	104.5	107.5	101.4	138.0	283.0	326.6
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)