

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: P510793

Luminaire Tested: **CST-CA8-330-740-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510793
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-CA8-330-740-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52167 lumens
Efficiency: N/A
Efficacy: 157.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

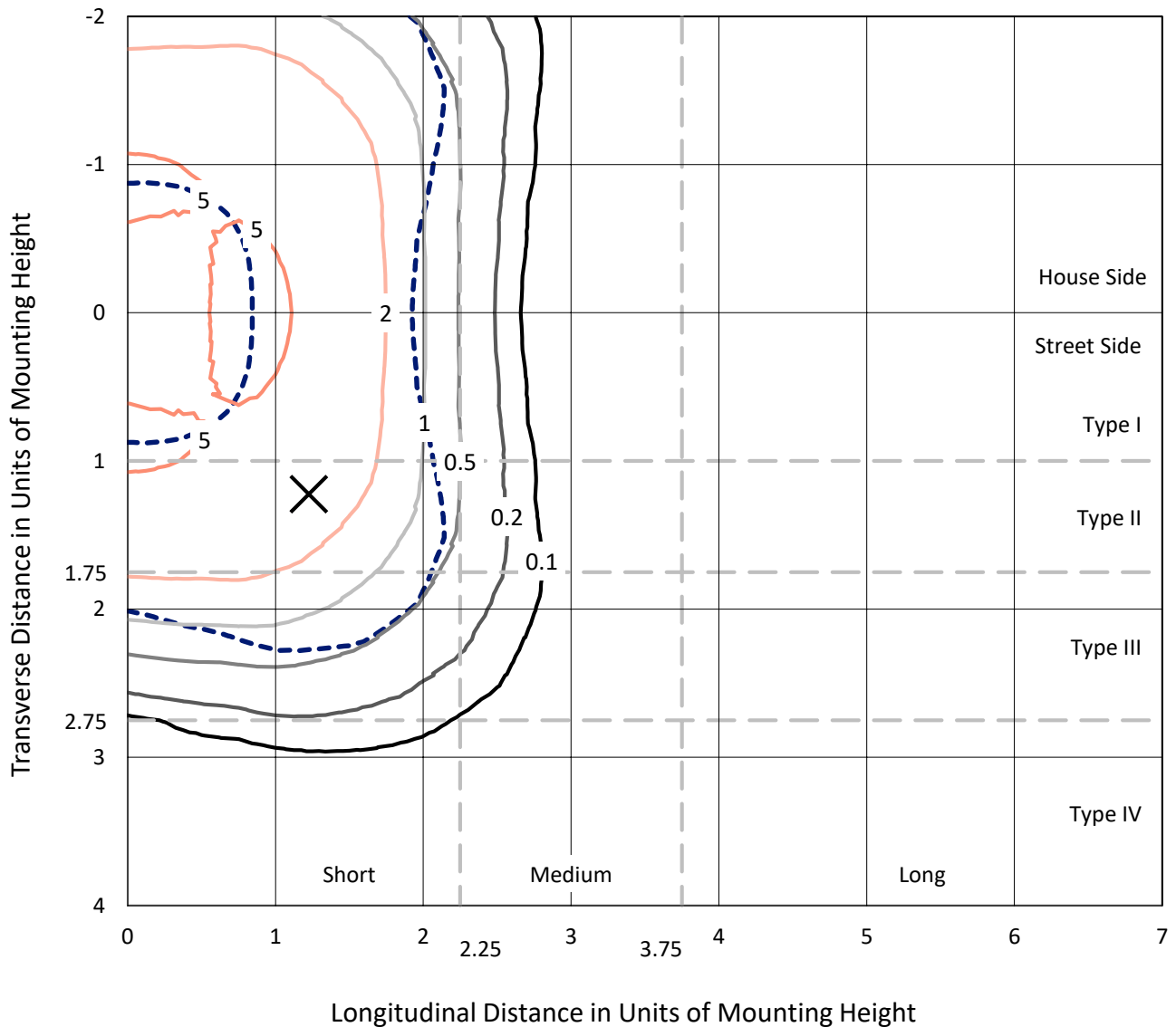
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

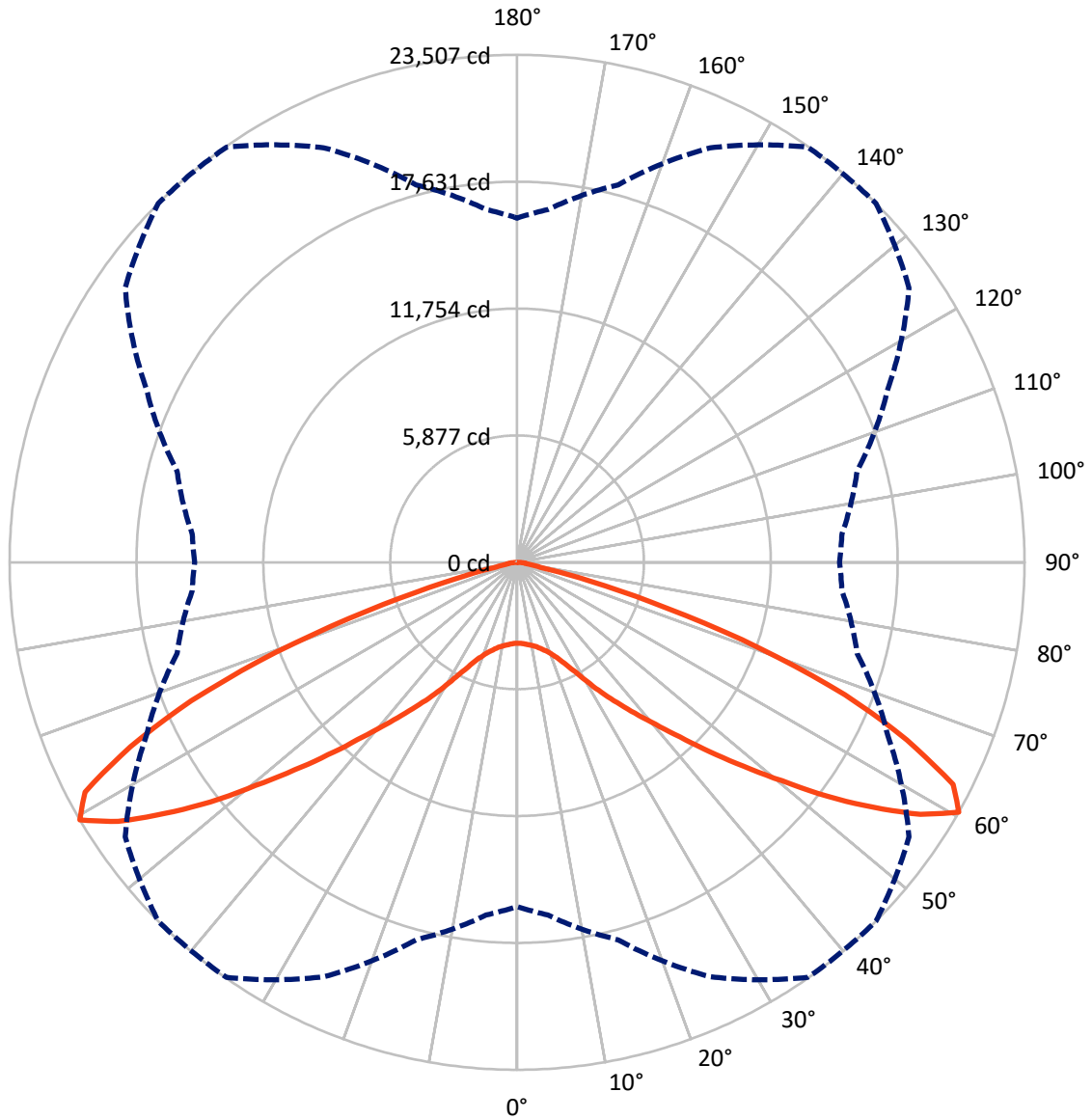
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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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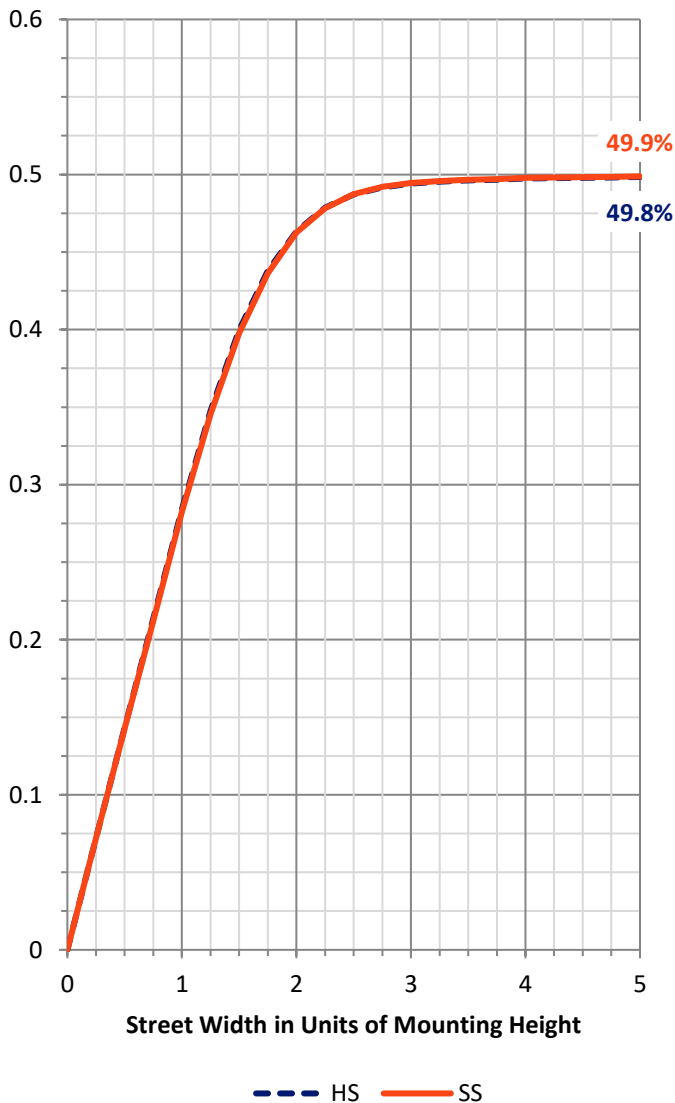
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26083.5	0.0	26083.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26083.5	0.0	26083.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	52167.0	0.0	52167.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.6	0.7
10°-20°	1195.0	2.3
20°-30°	2538.2	4.9
30°-40°	5381.8	10.3
40°-50°	10234.7	19.6
50°-60°	16236.8	31.1
60°-70°	13724.4	26.3
70°-80°	2257.9	4.3
80°-90°	231.5	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°	52167.0	100.0
0°-180°	52167.0	100.0



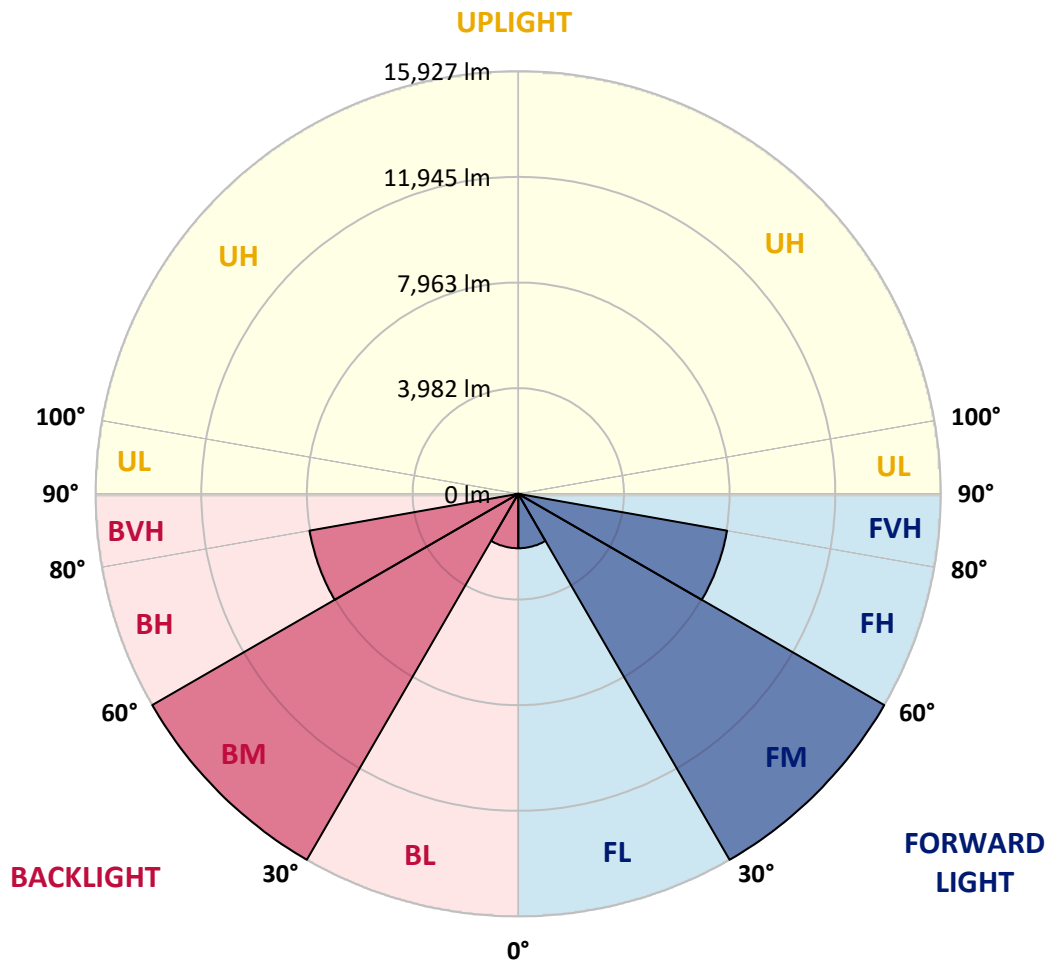
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2049.9	3.9			
FM (30°-60°)	15926.7	30.5			
FH (60°-80°)	7991.2	15.3			G4/12000
FVH (80°-90°)	115.8	0.2			G2/225
BL (0°-30°)	2049.9	3.9	B3/2500		
BM (30°-60°)	15926.7	30.5	B5		
BH (60°-80°)	7991.2	15.3	B5		G4/12000
BVH (80°-90°)	115.8	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°	3745.4	3745.4	3745.4	3745.4	3745.4	3745.4	3745.4	3745.4	3745.4	3745.4	3745.4
2.5°	3772.4	3763.1	3760.2	3756.2	3758.2	3759.2	3764.6	3765.1	3765.1	3770.0	3778.3
5°	3814.7	3802.4	3798.0	3793.1	3795.6	3798.0	3802.9	3805.9	3805.4	3808.3	3815.7
7.5°	3860.5	3856.0	3850.6	3847.7	3847.7	3854.6	3851.1	3856.5	3856.0	3859.5	3863.9
10°	3928.3	3918.5	3918.0	3912.6	3915.0	3920.9	3921.9	3920.9	3921.9	3923.9	3934.2
12.5°	4014.3	4011.9	4013.4	4008.9	4007.5	4013.8	4015.3	4021.7	4023.7	4029.6	4036.0
15°	4153.0	4137.3	4135.3	4134.8	4137.7	4147.6	4150.5	4162.3	4167.7	4176.1	4190.4
17.5°	4309.8	4315.2	4305.4	4304.4	4303.9	4311.8	4319.7	4345.7	4354.1	4373.2	4385.5
20°	4560.1	4550.2	4544.3	4520.7	4514.8	4528.6	4557.1	4591.5	4607.8	4638.2	4661.4
22.5°	4894.4	4877.7	4837.4	4809.3	4797.5	4821.1	4852.1	4907.2	4972.6	5010.4	5020.8
25°	5377.7	5311.8	5261.7	5212.0	5194.3	5229.2	5279.4	5366.9	5449.0	5524.7	5559.6
27.5°	5966.2	5924.4	5824.6	5746.4	5715.5	5745.0	5849.2	5972.6	6123.0	6201.7	6213.5
30°	6713.5	6691.9	6564.5	6418.0	6363.0	6414.1	6537.0	6705.2	6914.6	7076.3	7104.9
32.5°	7638.8	7529.2	7352.2	7184.5	7125.5	7188.0	7311.4	7552.8	7835.0	8013.9	8074.9
35°	8699.8	8575.9	8309.9	8052.3	7976.1	7983.9	8181.6	8521.8	8907.8	9157.5	9225.9
37.5°	9869.9	9743.6	9429.9	9030.2	8853.7	8866.9	9125.6	9568.0	10097.1	10369.4	10459.9
40°	11118.7	10987.9	10664.4	10214.1	9924.0	9865.0	10210.6	10749.5	11286.9	11615.3	11650.2
42.5°	12339.5	12184.6	11924.5	11474.2	11209.7	11051.4	11468.8	11957.0	12498.8	12794.8	12817.9
45°	13430.0	13400.0	13191.0	12864.6	12646.8	12506.6	12804.6	13289.4	13667.9	13855.2	13923.6
47.5°	14484.1	14465.4	14398.5	14284.5	14338.5	14105.5	14248.6	14468.3	14676.3	14814.0	14867.1
50°	15407.9	15427.6	15558.8	15753.0	16144.4	15908.4	15863.6	15627.2	15633.1	15643.9	15698.9
52.5°	16170.9	16275.2	16605.5	17191.6	18036.7	18031.3	17354.3	16729.9	16447.7	16322.4	16333.7
55°	16836.1	17014.6	17560.3	18770.3	19979.8	20040.2	19119.4	17736.3	17207.3	16939.9	16974.8
57.5°	17203.4	17475.3	18399.1	20235.9	21959.6	22032.4	21006.8	18850.9	17639.5	16962.5	16991.5
60°	15942.8	16400.5	18103.6	21181.4	23473.9	23507.4	22160.7	18938.4	16303.2	15105.0	14929.5
62.5°	13046.5	13680.7	16083.4	20448.8	22772.3	22668.6	21438.5	17298.8	13392.6	11939.3	11791.8
65°	9800.1	10396.5	12912.3	17509.2	19981.2	19844.6	18591.8	13671.9	9818.8	8276.0	8094.6
67.5°	5303.9	6204.6	8558.7	13374.9	15928.5	16392.2	14656.6	9529.2	5714.0	4142.7	3983.4
70°	1831.9	2367.3	4363.9	8395.9	11488.9	11954.0	9994.8	5110.7	2500.5	1563.5	1403.7
72.5°	650.5	749.8	1640.6	4054.7	6540.9	7247.4	5392.9	2055.6	797.0	580.6	568.8
75°	459.2	474.0	583.1	1322.1	2831.9	3468.6	2126.4	682.4	497.1	464.6	461.7
77.5°	410.0	418.4	472.5	538.4	865.3	1107.7	654.4	495.1	431.7	413.5	407.1
80°	389.9	396.3	412.0	441.5	490.7	510.3	441.5	423.3	392.8	385.0	382.5
82.5°	340.7	339.2	343.7	356.0	378.1	383.0	354.5	331.9	332.4	323.0	318.6
85°	230.6	244.4	234.0	221.2	274.3	275.8	257.1	192.7	218.8	214.4	196.2
87.5°	69.8	78.7	62.4	43.3	59.5	46.2	41.8	43.3	41.3	35.9	32.4
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)