

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: P510803

Luminaire Tested: **CST-CA8-330-750-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510803
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-CA8-330-750-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: 53124 lumens
Efficiency: N/A
Efficacy: 160.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

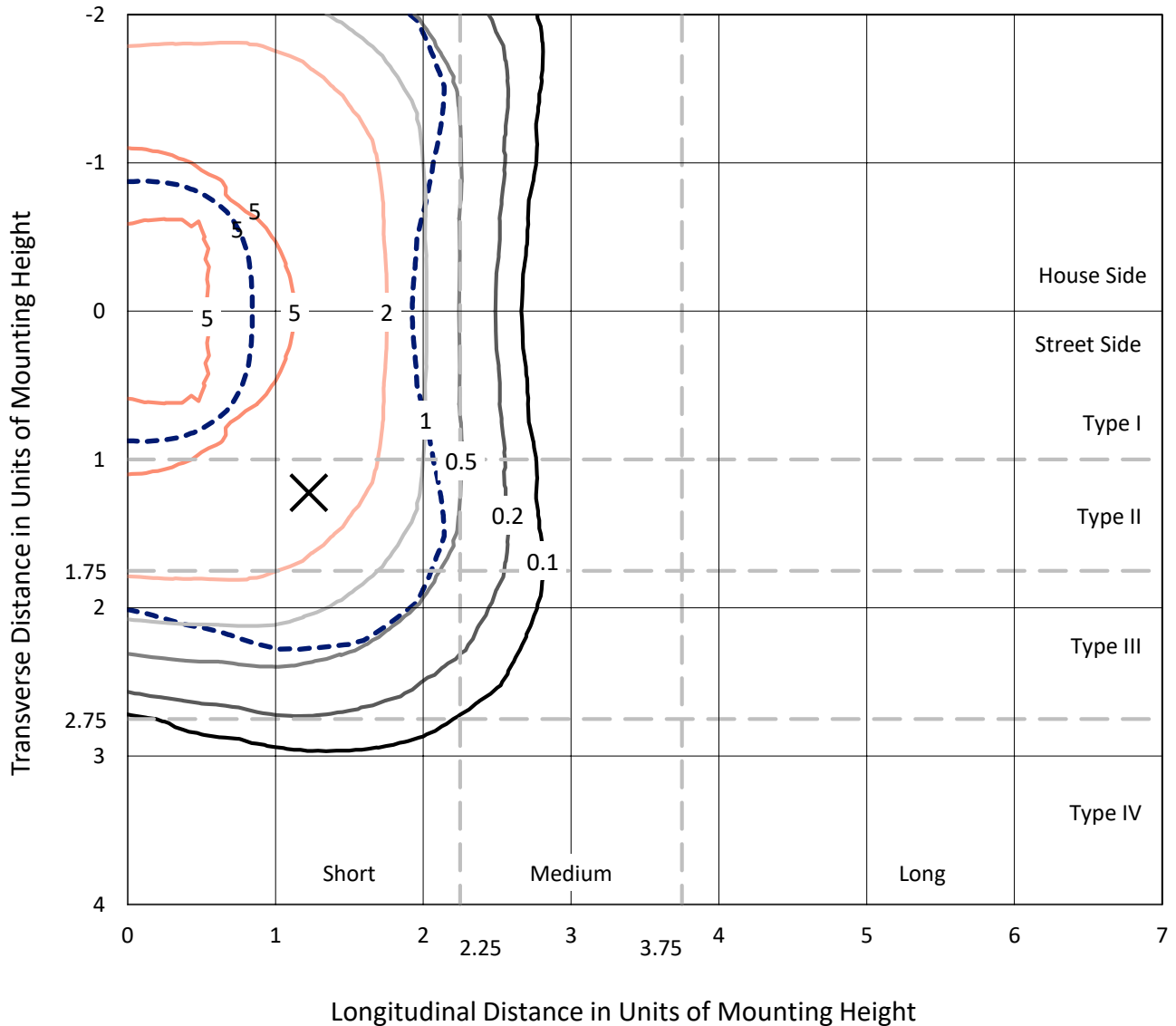
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

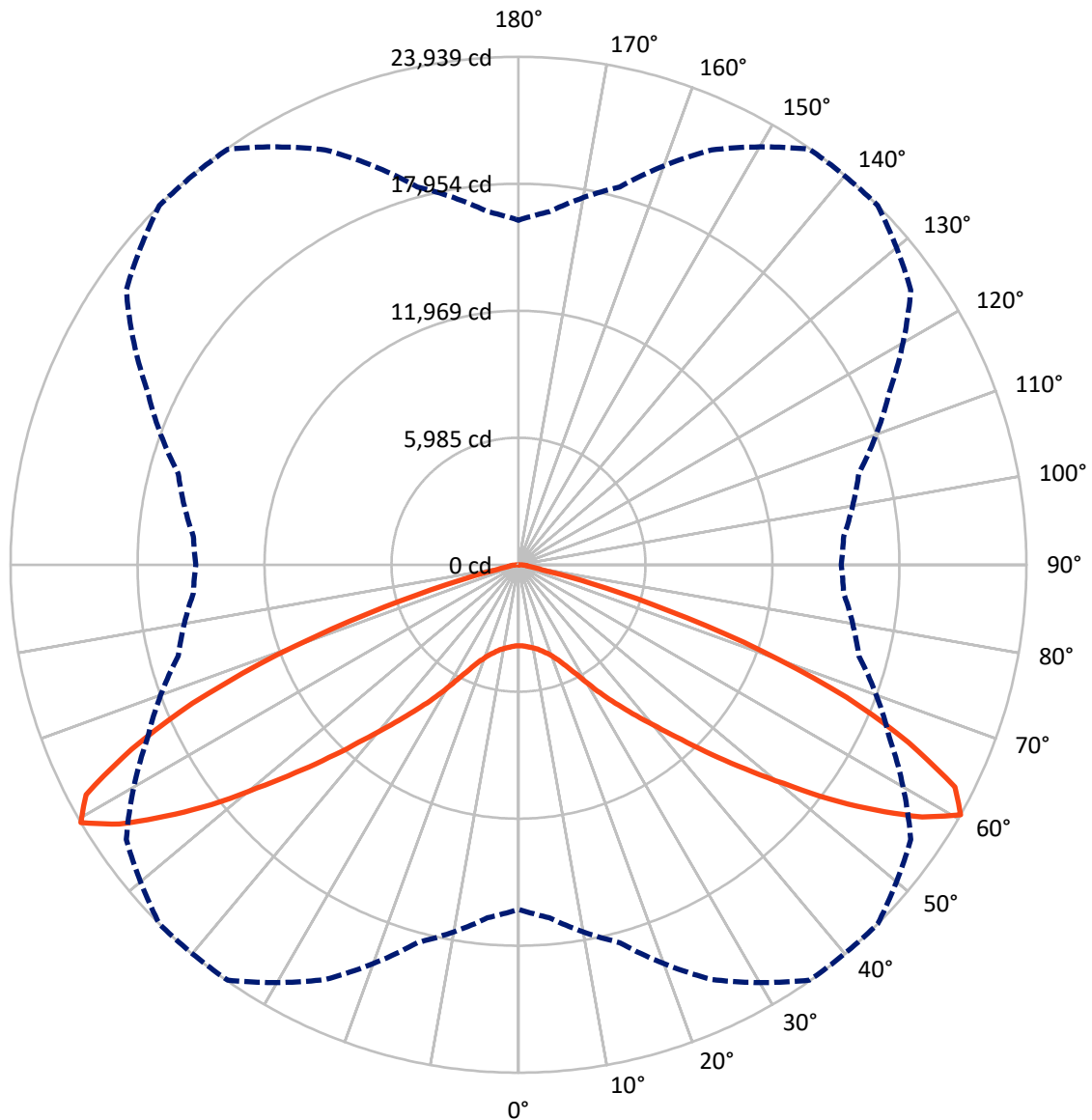
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 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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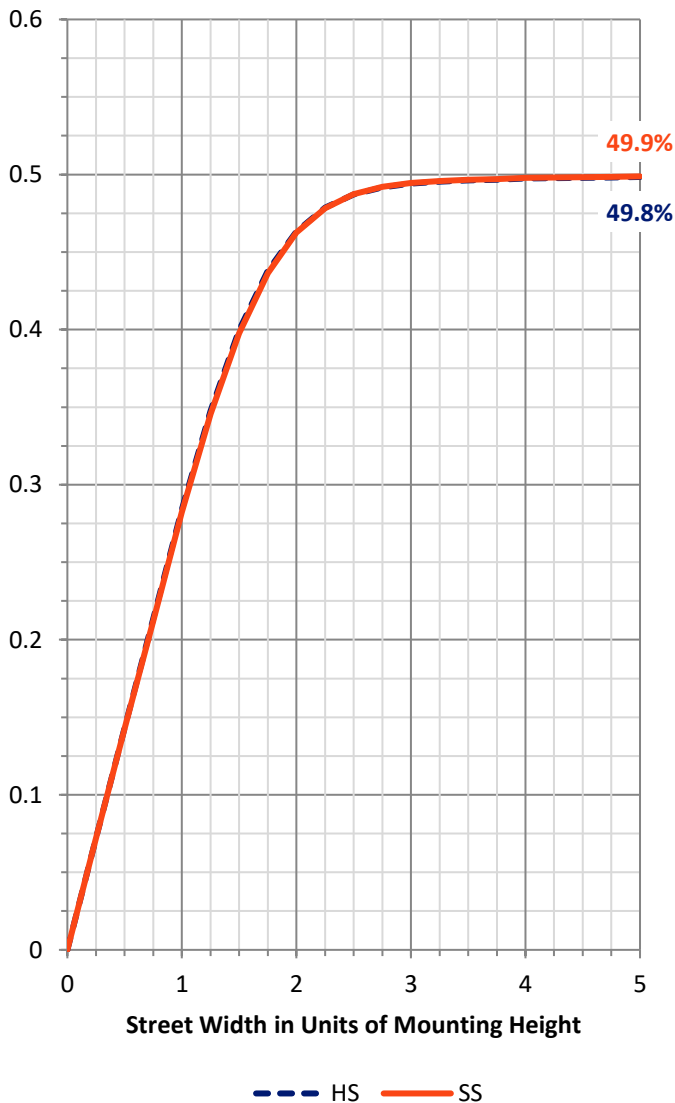
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26562.0	0.0	26562.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26562.0	0.0	26562.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	53124.0	0.0	53124.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.3	0.7
10°-20°	1217.0	2.3
20°-30°	2584.7	4.9
30°-40°	5480.5	10.3
40°-50°	10422.5	19.6
50°-60°	16534.7	31.1
60°-70°	13976.2	26.3
70°-80°	2299.3	4.3
80°-90°	235.8	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°	53124.0	100.0
0°-180°	53124.0	100.0

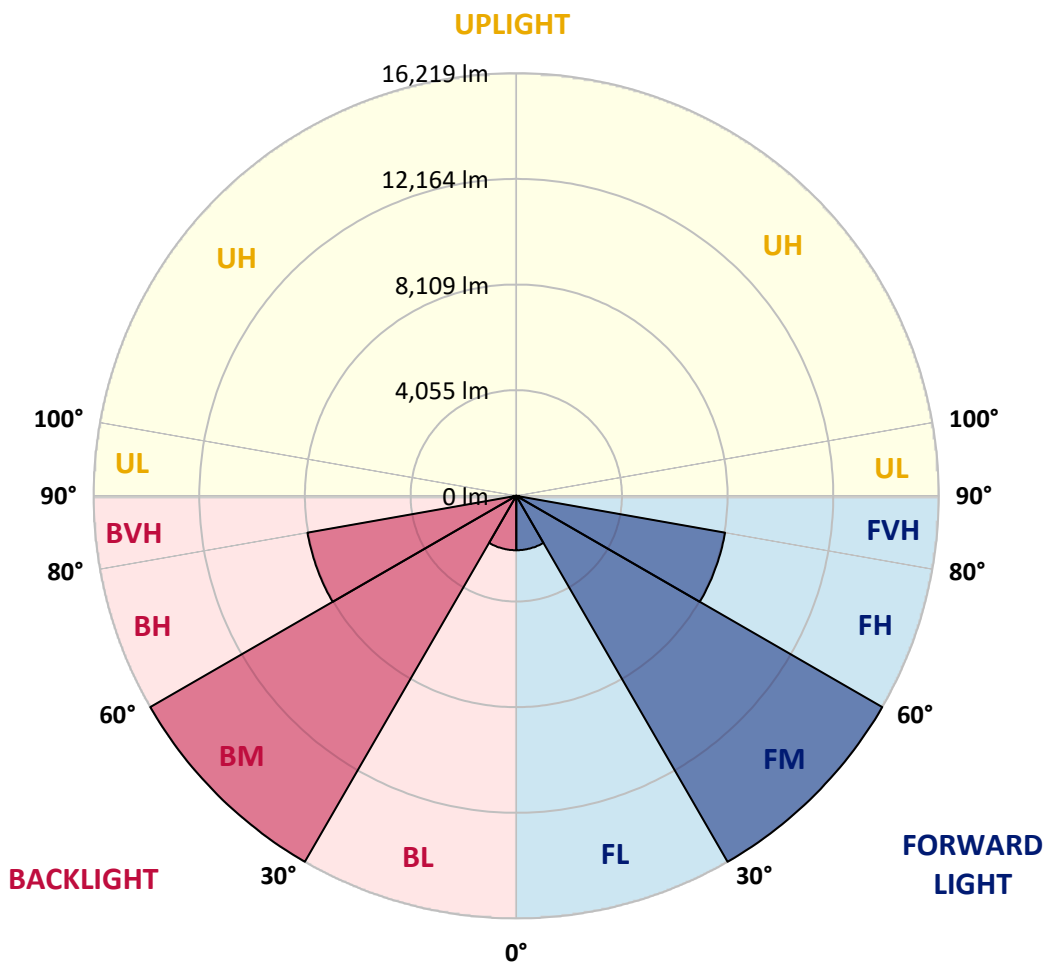


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2087.5	3.9			
FM (30°-60°)	16218.9	30.5			
FH (60°-80°)	8137.7	15.3			G4/12000
FVH (80°-90°)	117.9	0.2			G2/225
BL (0°-30°)	2087.5	3.9	B3/2500		
BM (30°-60°)	16218.9	30.5	B5		
BH (60°-80°)	8137.7	15.3	B5		G4/12000
BVH (80°-90°)	117.9	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°	3814.1	3814.1	3814.1	3814.1	3814.1	3814.1	3814.1	3814.1	3814.1	3814.1	3814.1
2.5°	3841.7	3832.1	3829.1	3825.1	3827.1	3828.1	3833.6	3834.1	3834.1	3839.1	3847.7
5°	3884.7	3872.2	3867.7	3862.7	3865.2	3867.7	3872.7	3875.7	3875.2	3878.2	3885.7
7.5°	3931.3	3926.8	3921.3	3918.3	3918.3	3925.3	3921.8	3927.3	3926.8	3930.3	3934.8
10°	4000.4	3990.4	3989.9	3984.3	3986.8	3992.9	3993.9	3992.9	3993.9	3995.9	4006.4
12.5°	4088.0	4085.5	4087.0	4082.5	4081.0	4087.5	4089.0	4095.5	4097.5	4103.5	4110.0
15°	4229.2	4213.1	4211.1	4210.6	4213.7	4223.7	4226.7	4238.7	4244.2	4252.7	4267.2
17.5°	4388.9	4394.4	4384.4	4383.4	4382.9	4390.9	4398.9	4425.4	4433.9	4453.5	4466.0
20°	4643.7	4633.7	4627.7	4603.7	4597.7	4611.7	4640.7	4675.8	4692.3	4723.3	4746.9
22.5°	4984.2	4967.2	4926.1	4897.6	4885.6	4909.6	4941.1	4997.2	5063.8	5102.3	5112.9
25°	5476.3	5409.3	5358.2	5307.6	5289.6	5325.1	5376.2	5465.3	5548.9	5626.0	5661.6
27.5°	6075.6	6033.1	5931.5	5851.8	5820.3	5850.3	5956.5	6082.2	6235.4	6315.5	6327.5
30°	6836.7	6814.6	6685.0	6535.8	6479.7	6531.8	6656.9	6828.2	7041.4	7206.2	7235.2
32.5°	7778.9	7667.3	7487.0	7316.3	7256.2	7319.8	7445.5	7691.3	7978.7	8160.9	8223.0
35°	8859.4	8733.2	8462.3	8200.0	8122.4	8130.4	8331.7	8678.1	9071.2	9325.5	9395.1
37.5°	10051.0	9922.3	9602.9	9195.8	9016.1	9029.6	9293.0	9743.6	10282.3	10559.7	10651.8
40°	11322.7	11189.5	10860.1	10401.4	10106.1	10046.0	10397.9	10946.7	11493.9	11828.4	11863.9
42.5°	12565.9	12408.1	12143.3	11684.7	11415.3	11254.1	11679.2	12176.3	12728.1	13029.5	13053.0
45°	13676.3	13645.8	13433.0	13100.6	12878.8	12736.1	13039.5	13533.1	13918.7	14109.4	14179.0
47.5°	14749.8	14730.8	14662.7	14546.5	14601.6	14364.3	14510.0	14733.8	14945.5	15085.7	15139.8
50°	15690.5	15710.6	15844.2	16042.0	16440.5	16200.2	16154.7	15913.8	15919.8	15930.9	15986.9
52.5°	16467.6	16573.7	16910.2	17507.0	18367.6	18362.1	17672.7	17036.8	16749.5	16621.8	16633.3
55°	17145.0	17326.7	17882.5	19114.6	20346.3	20407.9	19470.1	18061.7	17523.0	17250.6	17286.2
57.5°	17519.0	17795.9	18736.6	20607.1	22362.5	22436.6	21392.2	19196.7	17963.1	17273.7	17303.2
60°	16235.3	16701.4	18435.7	21569.9	23904.6	23938.6	22567.3	19285.9	16602.3	15382.1	15203.4
62.5°	13285.8	13931.7	16378.5	20823.9	23190.1	23084.5	21831.8	17616.1	13638.3	12158.3	12008.1
65°	9979.9	10587.2	13149.1	17830.4	20347.8	20208.6	18932.9	13922.7	9998.9	8427.8	8243.1
67.5°	5401.2	6318.5	8715.7	13620.3	16220.8	16692.9	14925.5	9704.0	5818.8	4218.7	4056.4
70°	1865.5	2410.7	4444.0	8550.0	11699.7	12173.3	10178.1	5204.5	2546.4	1592.1	1429.4
72.5°	662.4	763.5	1670.7	4129.0	6660.9	7380.4	5491.9	2093.3	811.6	591.3	579.3
75°	467.6	482.6	593.8	1346.3	2883.9	3532.2	2165.4	694.9	506.2	473.1	470.1
77.5°	417.6	426.1	481.1	548.2	881.2	1128.0	666.4	504.2	439.6	421.1	414.6
80°	397.0	403.5	419.6	449.6	499.7	519.7	449.6	431.1	400.0	392.0	389.5
82.5°	347.0	345.5	350.0	362.5	385.0	390.0	361.0	338.0	338.5	328.9	324.4
85°	234.8	248.8	238.3	225.3	279.4	280.9	261.9	196.3	222.8	218.3	199.8
87.5°	71.1	80.1	63.6	44.1	60.6	47.1	42.6	44.1	42.1	36.5	33.0
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)