

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: P510483

Luminaire Tested: **CST-CA10-310-730-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510483
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-CA10-310-730-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50703 lumens
Efficiency: N/A
Efficacy: 162.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

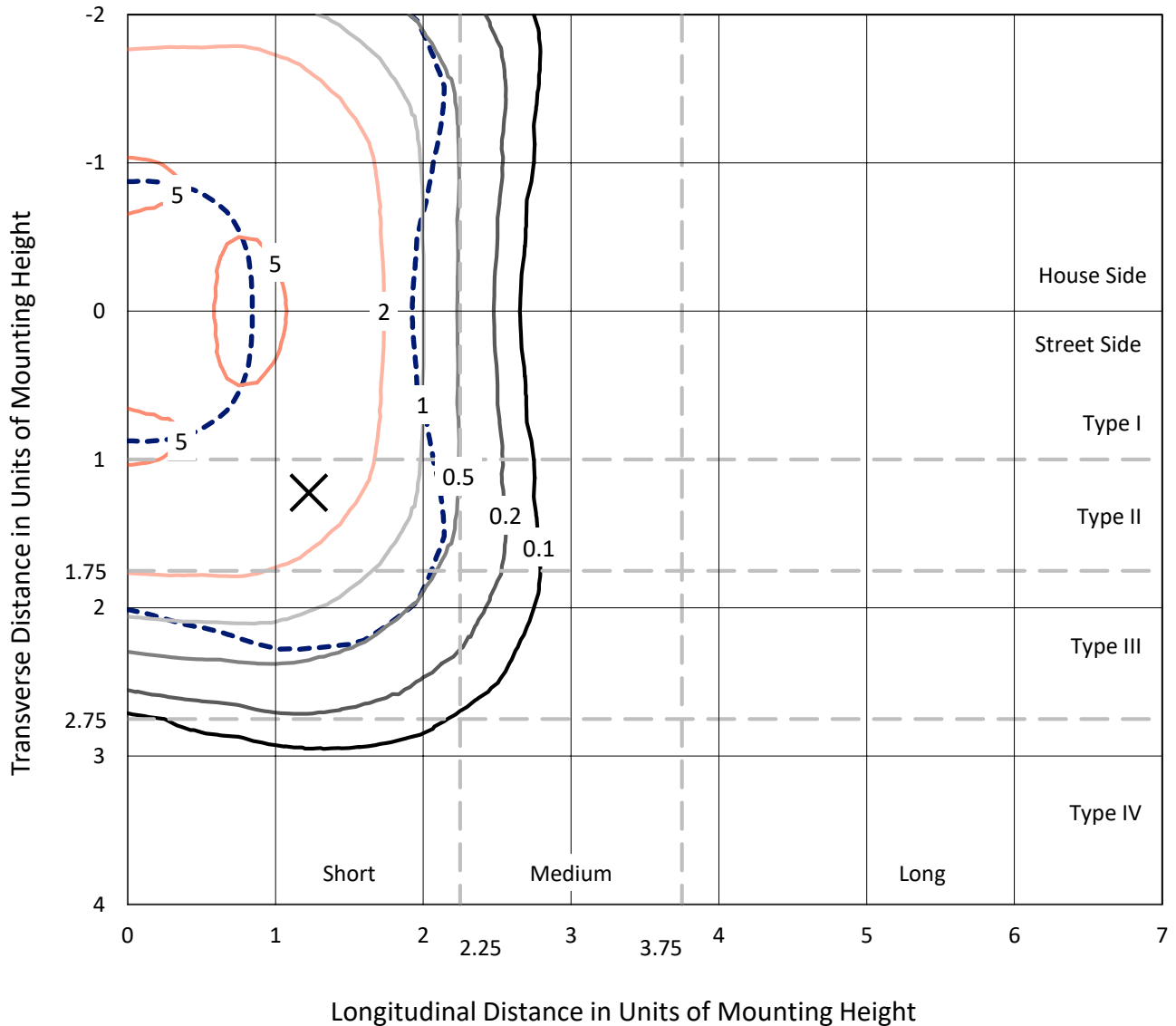
Input Watts (W): 312.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

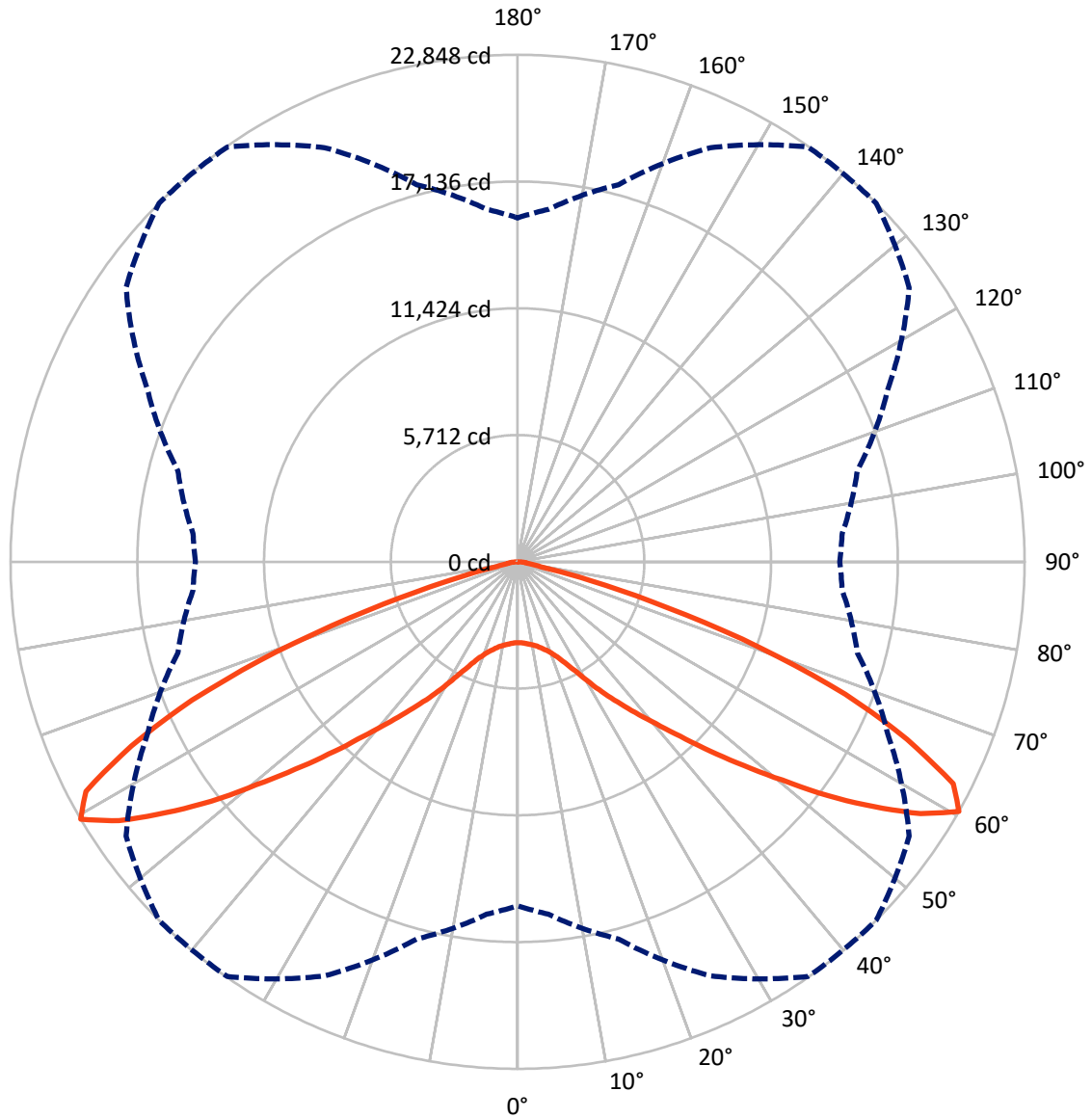
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 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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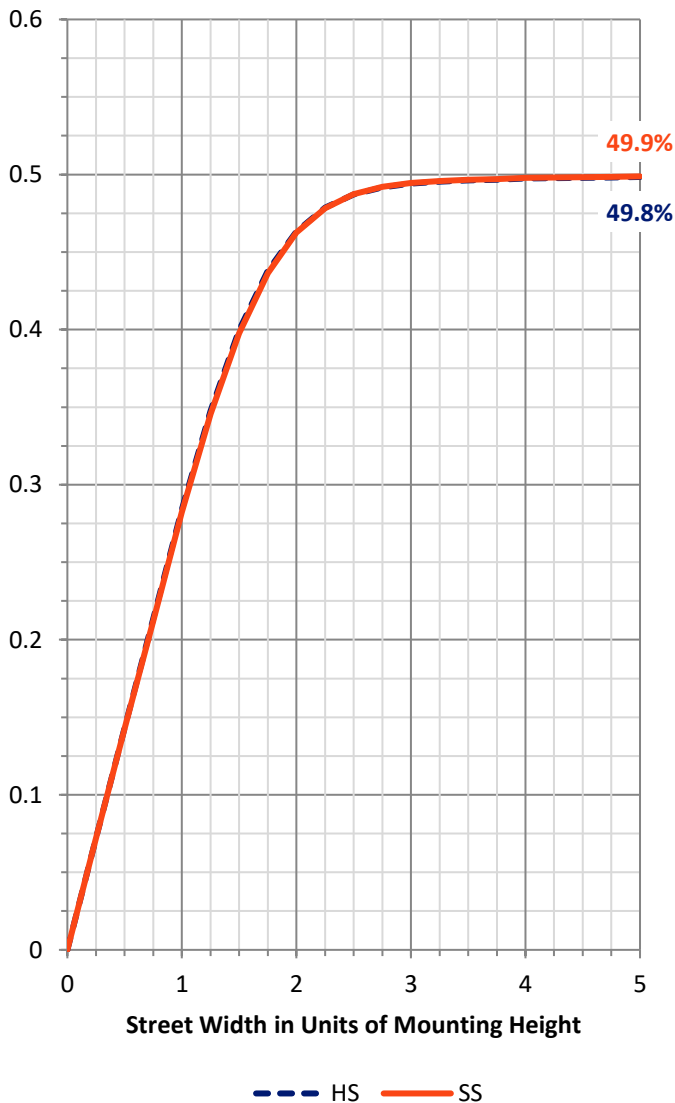
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25351.5	0.0	25351.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25351.5	0.0	25351.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	50703.0	0.0	50703.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.3	0.7
10°-20°	1161.5	2.3
20°-30°	2467.0	4.9
30°-40°	5230.8	10.3
40°-50°	9947.5	19.6
50°-60°	15781.2	31.1
60°-70°	13339.3	26.3
70°-80°	2194.5	4.3
80°-90°	225.0	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°	50703.0	100.0
0°-180°	50703.0	100.0



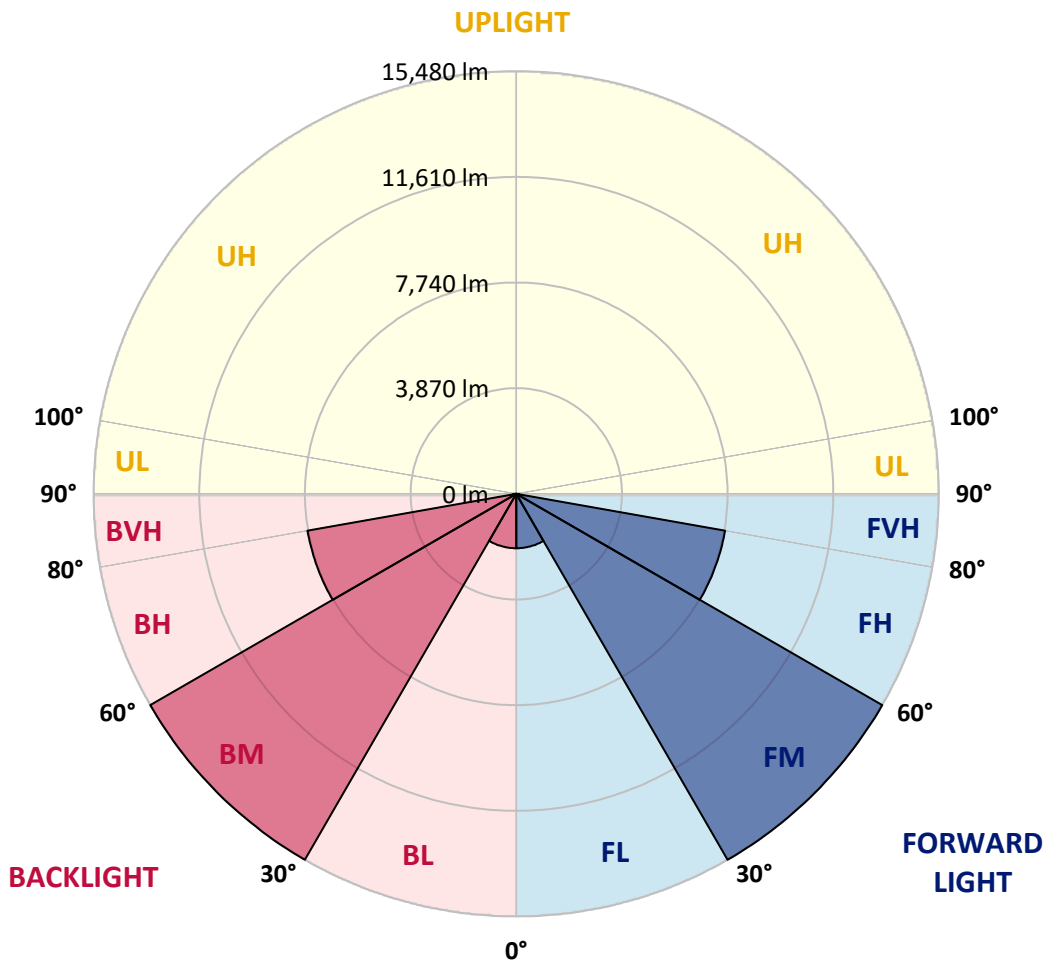
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1992.4	3.9			
FM (30°-60°)	15479.7	30.5			
FH (60°-80°)	7766.9	15.3			G4/12000
FVH (80°-90°)	112.5	0.2			G2/225
BL (0°-30°)	1992.4	3.9	B3/2500		
BM (30°-60°)	15479.7	30.5	B5		
BH (60°-80°)	7766.9	15.3	B5		G4/12000
BVH (80°-90°)	112.5	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°	3640.3	3640.3	3640.3	3640.3	3640.3	3640.3	3640.3	3640.3	3640.3	3640.3	3640.3
2.5°	3666.6	3657.5	3654.6	3650.8	3652.7	3653.7	3658.9	3659.4	3659.4	3664.2	3672.3
5°	3707.7	3695.7	3691.4	3686.6	3689.0	3691.4	3696.2	3699.1	3698.6	3701.5	3708.6
7.5°	3752.1	3747.8	3742.6	3739.7	3739.7	3746.4	3743.0	3748.3	3747.8	3751.2	3755.5
10°	3818.1	3808.5	3808.0	3802.8	3805.2	3810.9	3811.8	3810.9	3811.8	3813.8	3823.8
12.5°	3901.7	3899.3	3900.7	3896.4	3895.0	3901.2	3902.6	3908.8	3910.8	3916.5	3922.7
15°	4036.4	4021.1	4019.2	4018.8	4021.6	4031.2	4034.0	4045.5	4050.8	4058.9	4072.8
17.5°	4188.9	4194.1	4184.6	4183.6	4183.1	4190.8	4198.4	4223.8	4231.9	4250.5	4262.5
20°	4432.1	4422.5	4416.8	4393.9	4388.1	4401.5	4429.2	4462.7	4478.5	4508.1	4530.5
22.5°	4757.0	4740.8	4701.6	4674.4	4662.9	4685.8	4715.9	4769.5	4833.0	4869.8	4879.9
25°	5226.8	5162.7	5114.0	5065.7	5048.5	5082.5	5131.2	5216.3	5296.1	5369.7	5403.6
27.5°	5798.8	5758.1	5661.1	5585.2	5555.1	5583.7	5685.0	5805.0	5951.2	6027.7	6039.1
30°	6525.1	6504.1	6380.3	6237.9	6184.4	6234.1	6353.6	6517.0	6720.5	6877.8	6905.5
32.5°	7424.4	7317.9	7145.8	6982.9	6925.5	6986.2	7106.2	7340.8	7615.1	7789.0	7848.3
35°	8455.6	8335.2	8076.7	7826.3	7752.2	7759.9	7952.0	8282.7	8657.8	8900.5	8966.9
37.5°	9592.9	9470.1	9165.2	8776.8	8605.2	8618.1	8869.5	9299.5	9813.7	10078.4	10166.4
40°	10806.7	10679.6	10365.1	9927.4	9645.5	9588.2	9924.1	10447.8	10970.1	11289.3	11323.2
42.5°	11993.2	11842.7	11589.9	11152.2	10895.1	10741.2	11146.9	11621.4	12148.0	12435.7	12458.1
45°	13053.1	13023.9	12820.8	12503.5	12291.9	12155.7	12445.2	12916.4	13284.4	13466.4	13532.8
47.5°	14077.6	14059.4	13994.4	13883.6	13936.1	13709.6	13848.7	14062.3	14264.4	14398.2	14449.8
50°	14975.5	14994.6	15122.2	15310.9	15691.3	15461.9	15418.5	15188.6	15194.3	15204.9	15258.4
52.5°	15717.1	15818.4	16139.5	16709.1	17530.6	17525.3	16867.3	16260.4	15986.1	15864.3	15875.3
55°	16363.6	16537.1	17067.5	18243.5	19419.1	19477.8	18582.8	17238.6	16724.4	16464.5	16498.4
57.5°	16720.6	16984.9	17882.7	19668.0	21343.4	21414.1	20417.3	18321.9	17144.5	16486.5	16514.7
60°	15495.4	15940.3	17595.6	20586.9	22815.2	22847.7	21538.8	18407.0	15845.7	14681.1	14510.5
62.5°	12680.3	13296.8	15632.1	19874.9	22133.3	22032.4	20836.8	16813.3	13016.8	11604.2	11460.9
65°	9525.1	10104.7	12549.9	17017.8	19420.5	19287.6	18070.1	13288.2	9543.2	8043.7	7867.4
67.5°	5155.1	6030.5	8318.5	12999.6	15481.5	15932.1	14245.3	9261.8	5553.6	4026.4	3871.6
70°	1780.5	2300.9	4241.4	8160.3	11166.5	11618.6	9714.3	4967.3	2430.4	1519.6	1364.3
72.5°	632.2	728.7	1594.6	3940.9	6357.4	7044.1	5241.6	1997.9	774.6	564.3	552.9
75°	446.3	460.7	566.7	1285.0	2752.4	3371.3	2066.7	663.3	483.1	451.6	448.7
77.5°	398.5	406.7	459.2	523.3	841.0	1076.6	636.0	481.2	419.6	401.9	395.7
80°	378.9	385.2	400.4	429.1	476.9	496.0	429.1	411.4	381.8	374.2	371.8
82.5°	331.2	329.7	334.0	346.0	367.5	372.2	344.5	322.6	323.0	314.0	309.6
85°	224.1	237.5	227.5	215.0	266.6	268.1	249.9	187.3	212.6	208.3	190.7
87.5°	67.9	76.5	60.7	42.1	57.8	44.9	40.6	42.1	40.1	34.9	31.5
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)