

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: P510732

Luminaire Tested: **CST-CA8-230-740-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-230-740-U-T5
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: 36979 lumens
Efficiency: N/A
Efficacy: 161.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

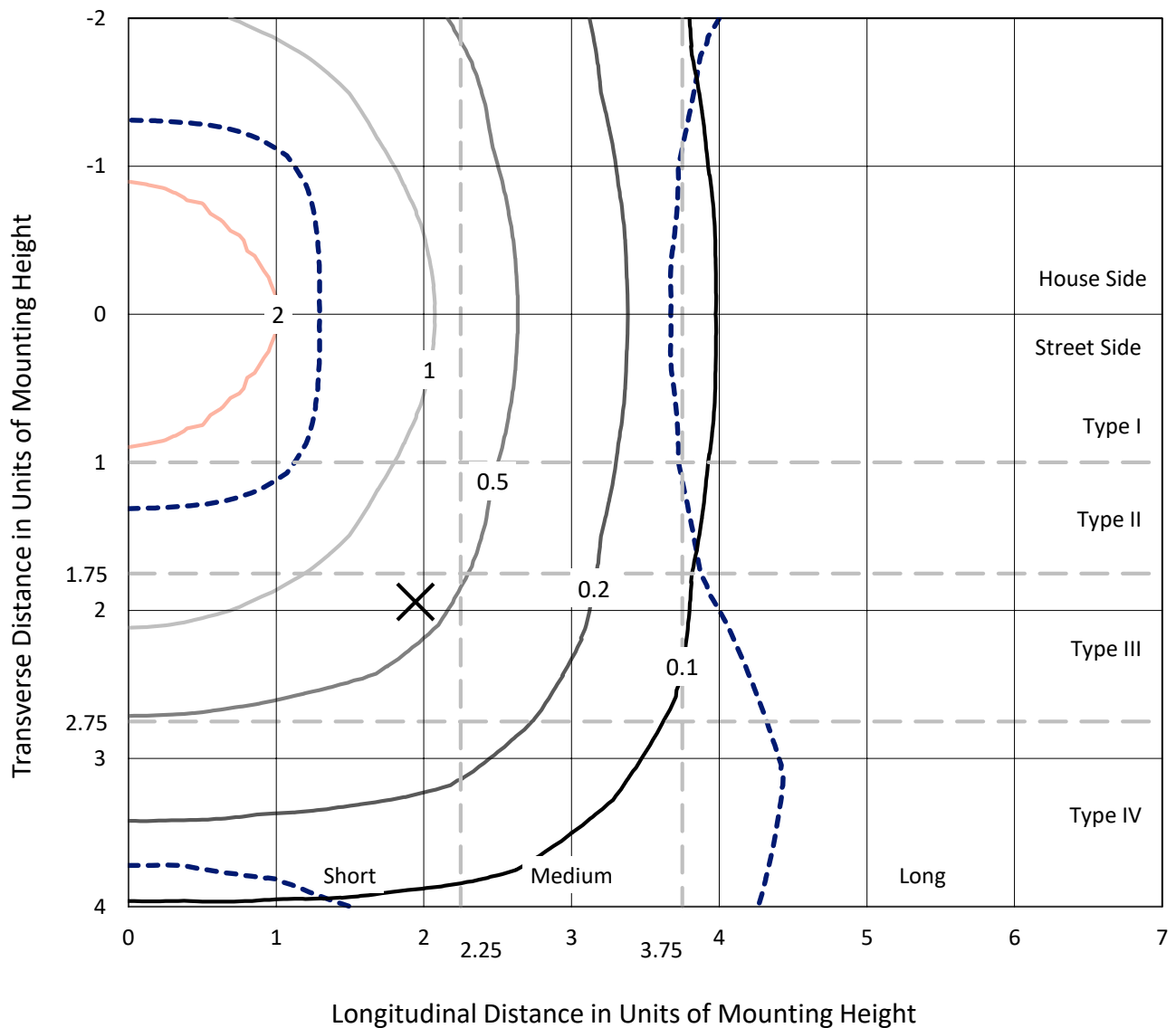
Input Watts (W): 228.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

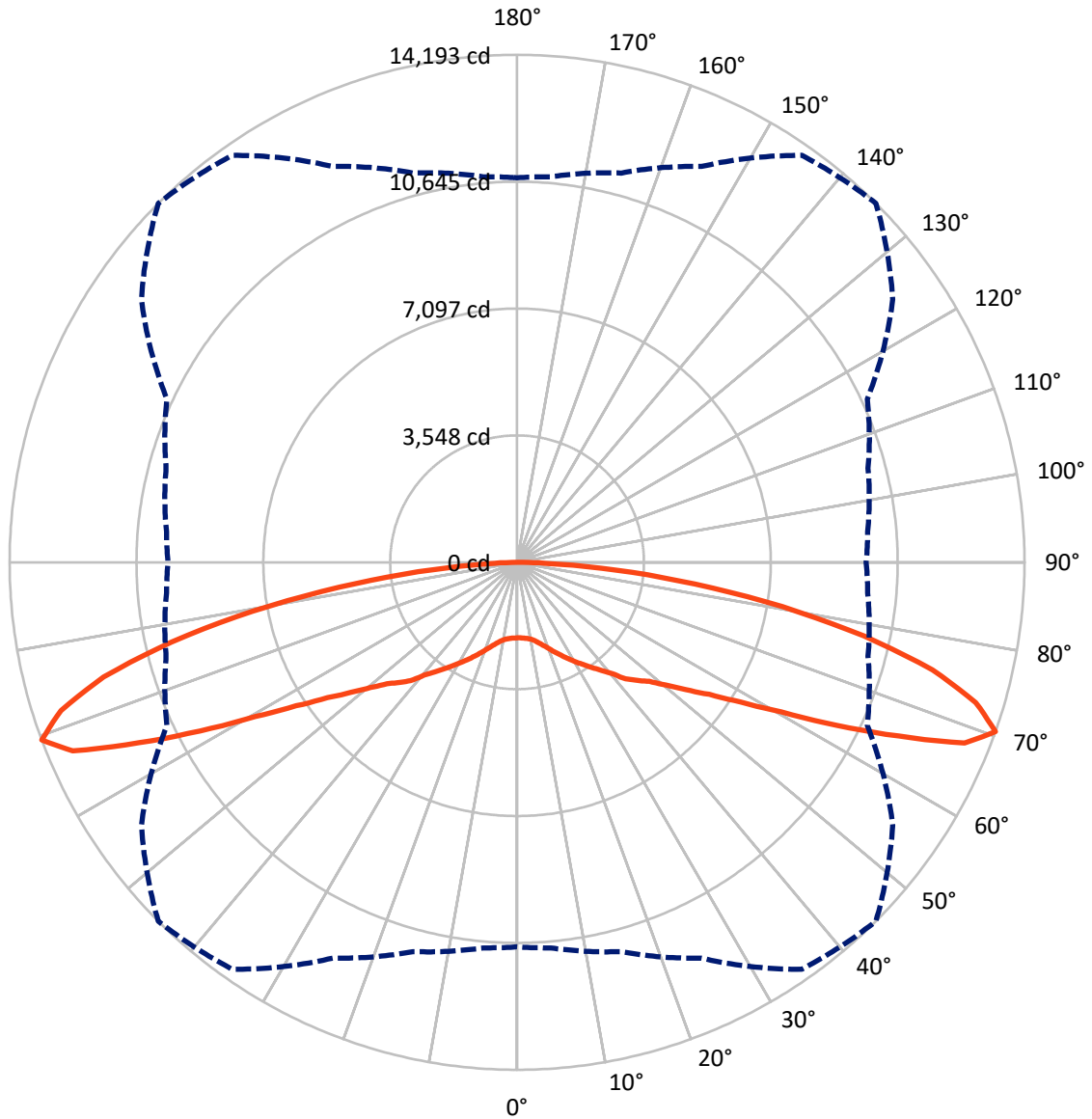
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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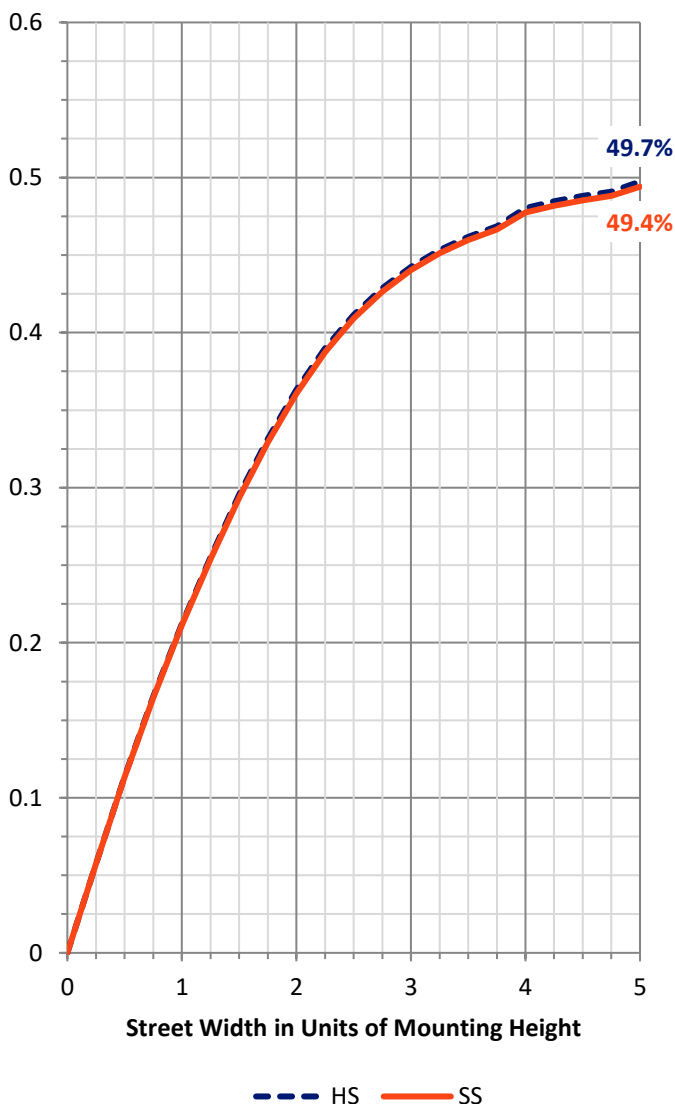
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18489.5	0.0	18489.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18489.5	0.0	18489.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36979.0	0.0	36979.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.4	0.6
10°-20°	669.0	1.8
20°-30°	1324.4	3.6
30°-40°	2291.2	6.2
40°-50°	3812.2	10.3
50°-60°	6649.0	18.0
60°-70°	11007.1	29.8
70°-80°	9224.8	24.9
80°-90°	1795.8	4.9
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°	36979.0	100.0
0°-180°	36979.0	100.0

Coefficient of Utilization

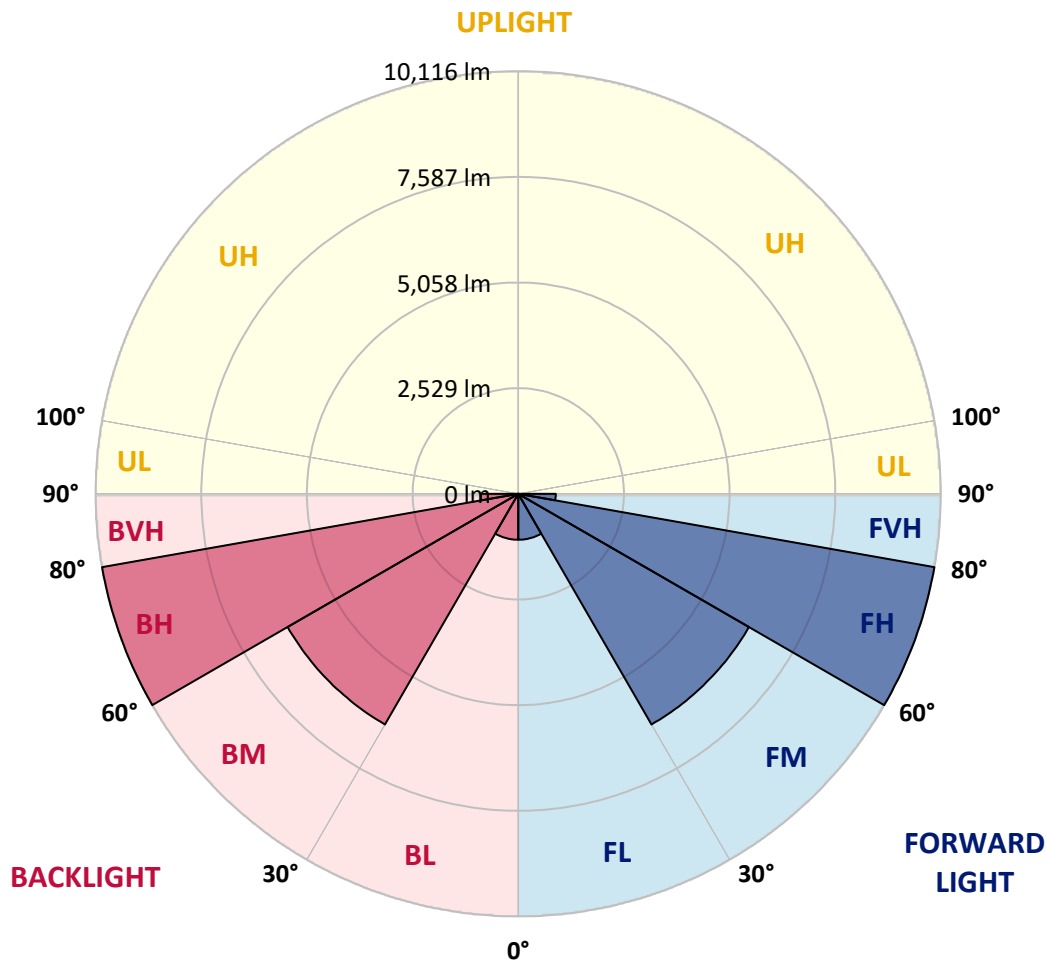


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1099.5	3.0			
FM (30°-60°)	6376.2	17.2			
FH (60°-80°)	10116.0	27.4			G4/12000
FVH (80°-90°)	897.9	2.4			G5
BL (0°-30°)	1099.5	3.0	B3/2500		
BM (30°-60°)	6376.2	17.2	B4/8500		
BH (60°-80°)	10116.0	27.4	B5		G4/12000
BVH (80°-90°)	897.9	2.4			G5
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2113.5	2113.5	2113.5	2113.5	2113.5	2113.5	2113.5	2113.5	2113.5	2113.5	2113.5
2.5°	2126.6	2120.1	2117.9	2115.7	2117.1	2116.4	2120.1	2121.5	2123.0	2129.6	2125.9
5°	2139.8	2134.7	2134.0	2131.0	2130.3	2130.3	2135.4	2136.2	2136.9	2141.3	2136.9
7.5°	2164.0	2158.9	2157.4	2155.9	2155.2	2152.3	2155.9	2154.5	2155.9	2158.1	2153.0
10°	2202.1	2196.2	2194.8	2191.1	2193.3	2188.9	2191.8	2188.2	2181.6	2183.0	2175.7
12.5°	2254.1	2248.9	2251.1	2250.4	2259.2	2257.0	2251.1	2243.8	2232.8	2225.5	2217.5
15°	2331.0	2322.9	2328.8	2334.6	2343.4	2347.1	2342.7	2322.9	2306.8	2295.1	2288.5
17.5°	2424.7	2411.5	2423.2	2435.0	2454.0	2457.7	2441.5	2417.4	2399.8	2394.7	2383.7
20°	2533.8	2531.6	2532.4	2551.4	2580.7	2585.8	2564.6	2536.0	2518.4	2519.2	2506.7
22.5°	2665.6	2653.9	2657.6	2676.6	2718.4	2732.3	2697.1	2665.6	2654.6	2657.6	2656.1
25°	2816.5	2805.5	2800.4	2809.2	2863.4	2887.5	2853.8	2817.2	2812.1	2818.7	2808.4
27.5°	2982.0	2971.7	2965.9	2970.3	3012.8	3058.2	3020.8	2990.1	2989.3	2998.8	2993.0
30°	3170.2	3154.8	3148.2	3153.4	3182.7	3226.6	3196.6	3178.3	3193.6	3200.2	3198.0
32.5°	3360.6	3353.3	3351.1	3349.6	3385.5	3410.4	3395.8	3399.4	3411.9	3441.9	3432.4
35°	3577.4	3556.1	3562.0	3566.4	3613.3	3615.4	3616.9	3623.5	3656.5	3698.9	3674.0
37.5°	3802.9	3797.8	3801.5	3789.0	3823.4	3837.3	3857.8	3879.8	3931.8	3980.9	3970.6
40°	4081.9	4072.4	4076.1	4061.4	4078.3	4089.3	4131.0	4178.6	4245.2	4298.0	4273.8
42.5°	4451.8	4427.6	4427.6	4432.0	4467.1	4455.4	4544.8	4557.9	4640.7	4685.4	4671.5
45°	4886.8	4878.0	4831.8	4754.2	4710.3	4709.5	4781.3	4888.2	5025.2	5118.2	5117.4
47.5°	5439.7	5412.6	5302.0	5115.2	5003.9	4976.8	5052.3	5260.2	5512.2	5657.2	5655.0
50°	6164.6	6130.2	5962.5	5672.5	5455.8	5389.1	5510.0	5779.4	6118.5	6311.8	6328.0
52.5°	6976.1	6979.0	6789.3	6350.7	6029.9	5909.8	6038.0	6423.2	6845.7	7110.8	7142.3
55°	7918.5	7895.8	7716.4	7219.2	6777.6	6519.8	6713.9	7224.3	7709.8	7912.0	7967.6
57.5°	8899.9	8811.2	8673.6	8208.5	7692.3	7362.7	7595.6	8095.0	8560.1	8817.8	8809.0
60°	9769.8	9711.3	9632.2	9261.6	8865.4	8489.0	8668.4	9091.0	9489.4	9645.3	9651.9
62.5°	10720.4	10671.3	10600.3	10397.4	10179.2	10039.3	9876.8	10072.3	10383.5	10554.2	10609.8
65°	11653.4	11635.8	11676.8	11646.0	11738.3	11717.8	11328.2	11205.2	11210.3	11162.0	11137.1
67.5°	11598.4	11591.8	11833.5	12315.4	13235.2	13495.9	12496.3	11383.1	10881.5	10754.1	10735.8
70°	10752.6	10823.6	11271.1	12214.3	13892.8	14193.0	12824.3	10803.9	10162.4	9843.1	9764.0
72.5°	9125.4	9264.5	9950.7	11339.9	13346.5	13415.3	11999.7	9932.4	8987.7	8606.9	8550.5
75°	7041.2	7058.8	7761.1	9526.7	11911.1	11997.6	10704.3	8330.8	7401.5	6927.7	6913.1
77.5°	4288.4	4538.2	5562.7	7143.0	9468.9	9918.5	8952.6	6635.5	5530.5	5110.8	4876.5
80°	2103.9	2218.2	2956.4	4516.2	6768.1	7521.6	6643.6	4589.4	3411.1	2878.7	2820.2
82.5°	957.9	1018.7	1398.7	2361.0	4084.1	5017.8	4100.2	2628.3	1821.3	1424.4	1411.2
85°	372.0	369.8	566.1	990.8	1955.3	2778.4	2076.1	1253.7	833.4	619.5	584.4
87.5°	108.4	115.7	166.2	325.1	579.3	780.7	640.0	433.5	256.3	164.8	151.6
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)