

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: P510422

Luminaire Tested: **CST-CA10-210-730-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510422
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-CA10-210-730-U-T5
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: 35353 lumens
Efficiency: N/A
Efficacy: 166.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

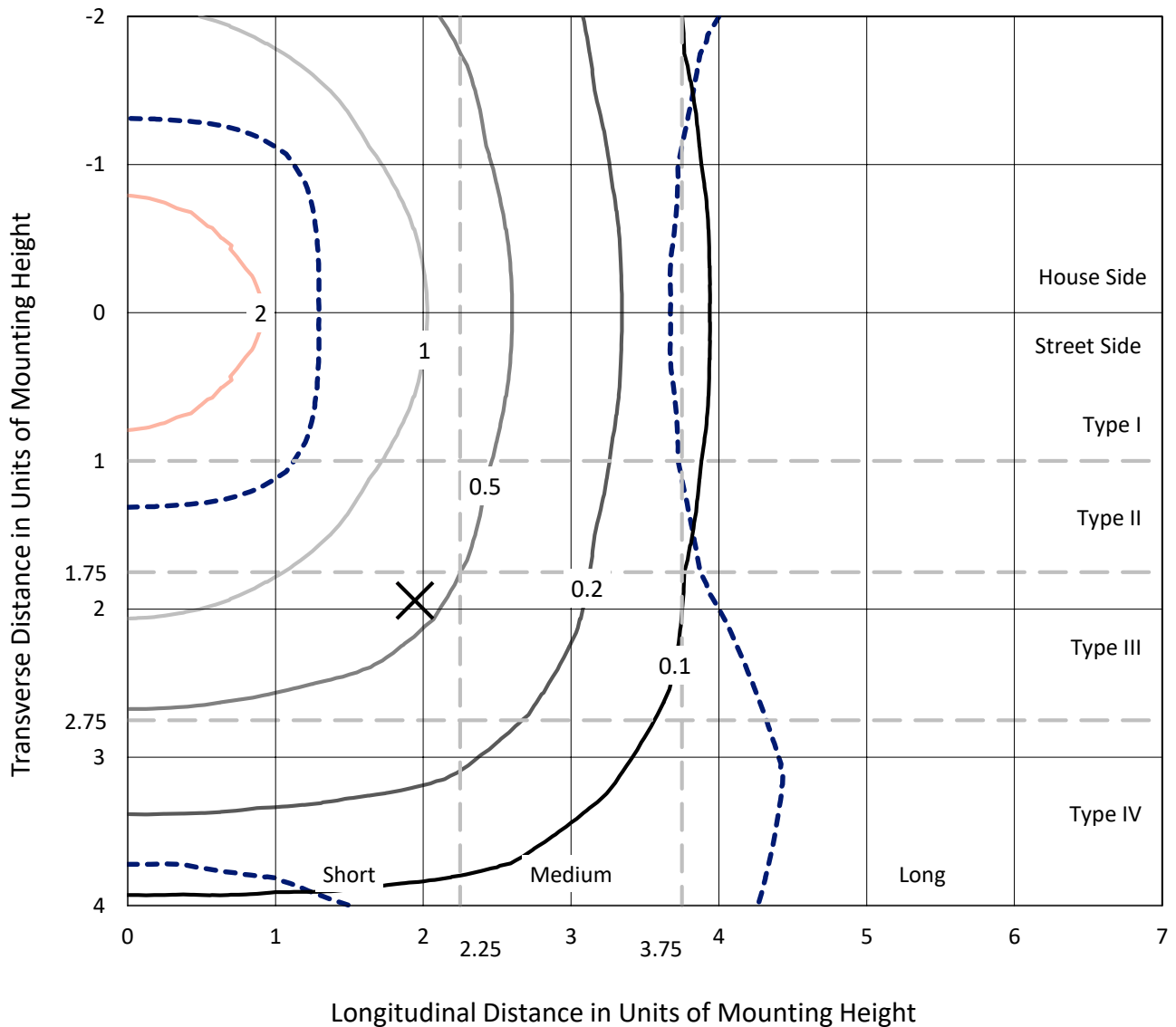
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

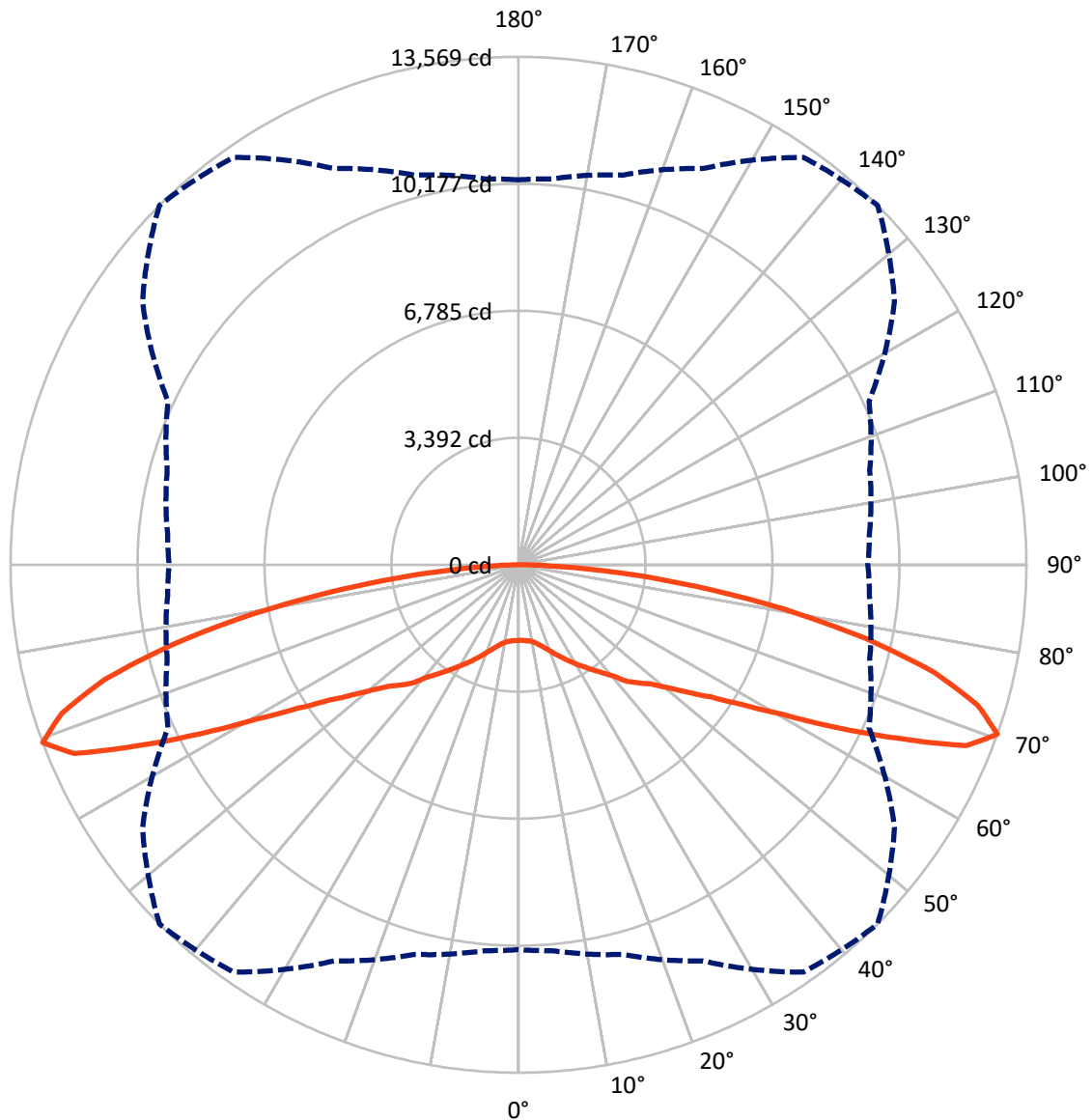
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.3 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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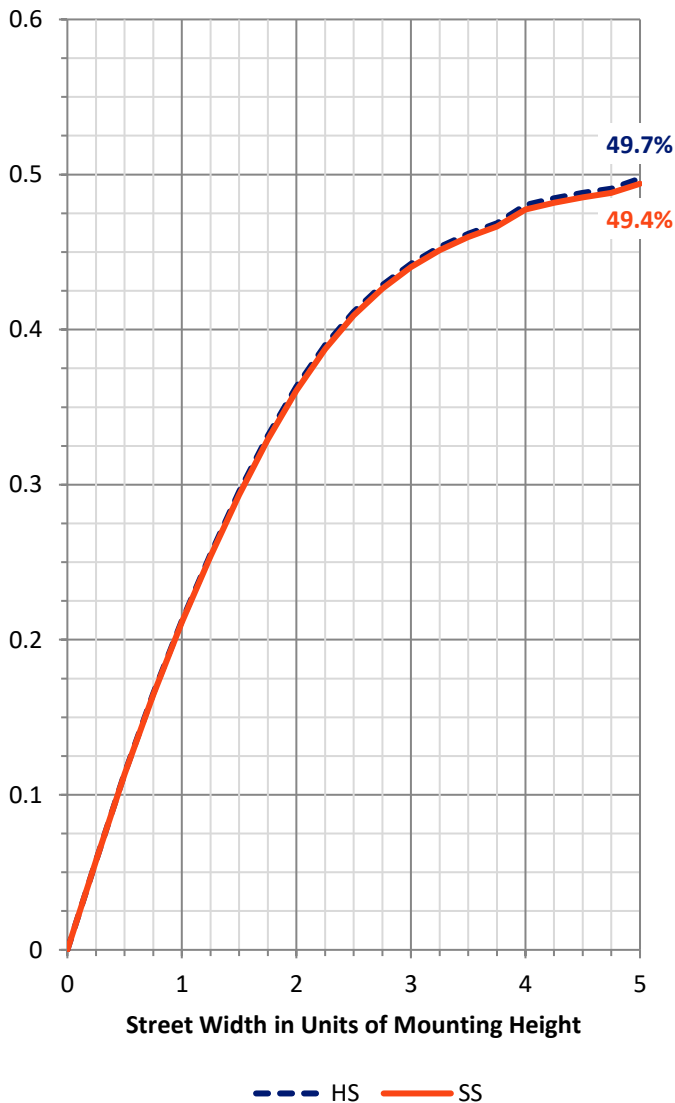
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17676.5	0.0	17676.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17676.5	0.0	17676.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35353.0	0.0	35353.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	0.6
10°-20°	639.6	1.8
20°-30°	1266.2	3.6
30°-40°	2190.4	6.2
40°-50°	3644.5	10.3
50°-60°	6356.7	18.0
60°-70°	10523.1	29.8
70°-80°	8819.2	24.9
80°-90°	1716.8	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°	35353.0	100.0
0°-180°	35353.0	100.0

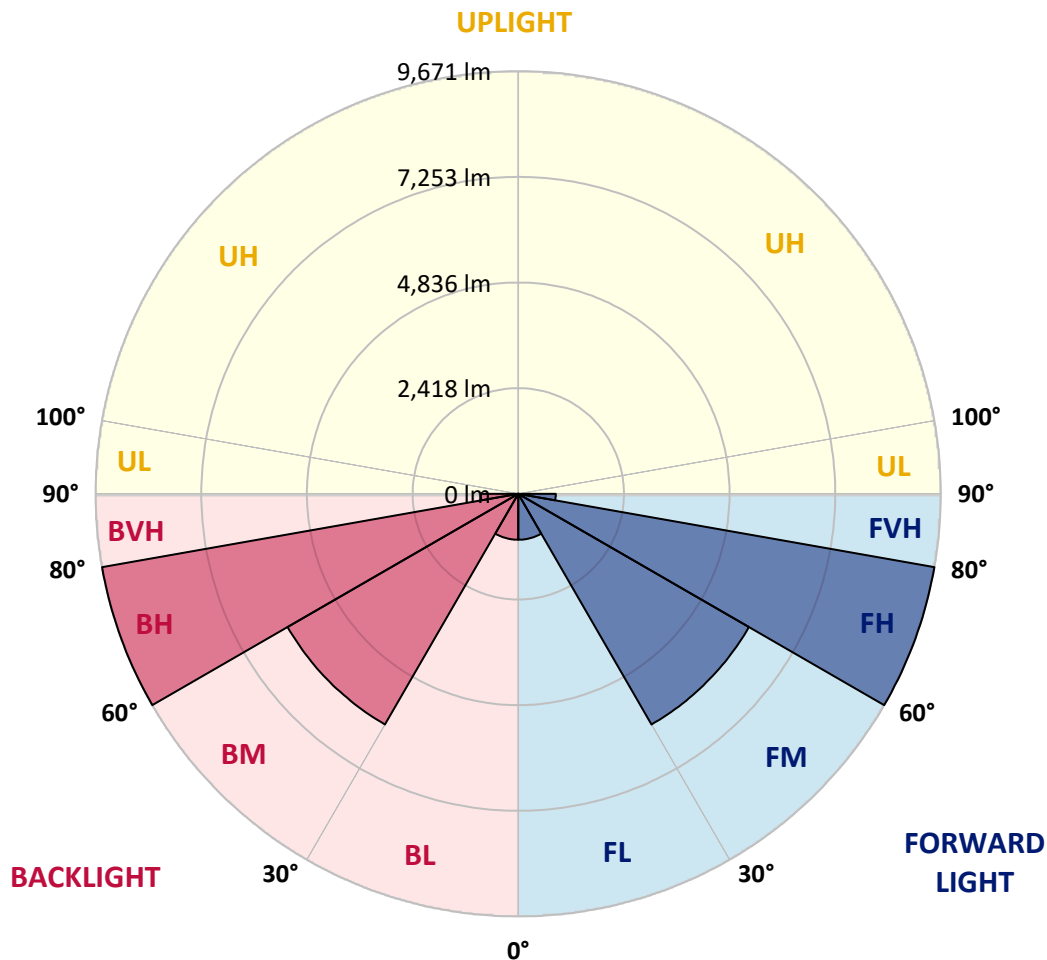


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1051.1	3.0			
FM (30°-60°)	6095.8	17.2			
FH (60°-80°)	9671.2	27.4			G4/12000
FVH (80°-90°)	858.4	2.4			G5
BL (0°-30°)	1051.1	3.0	B3/2500		
BM (30°-60°)	6095.8	17.2	B4/8500		
BH (60°-80°)	9671.2	27.4	B5		G4/12000
BVH (80°-90°)	858.4	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°	2020.5	2020.5	2020.5	2020.5	2020.5	2020.5	2020.5	2020.5	2020.5	2020.5	2020.5
2.5°	2033.1	2026.8	2024.7	2022.6	2024.0	2023.3	2026.8	2028.2	2029.6	2035.9	2032.4
5°	2045.7	2040.8	2040.1	2037.3	2036.6	2036.6	2041.5	2042.2	2042.9	2047.1	2042.9
7.5°	2068.8	2063.9	2062.5	2061.1	2060.4	2057.6	2061.1	2059.7	2061.1	2063.2	2058.3
10°	2105.3	2099.6	2098.2	2094.7	2096.8	2092.6	2095.4	2091.9	2085.6	2087.0	2080.0
12.5°	2155.0	2150.1	2152.2	2151.5	2159.9	2157.8	2152.2	2145.2	2134.7	2127.7	2120.0
15°	2228.5	2220.8	2226.4	2232.0	2240.4	2243.9	2239.7	2220.8	2205.4	2194.2	2187.9
17.5°	2318.1	2305.5	2316.7	2327.9	2346.1	2349.6	2334.2	2311.1	2294.3	2289.4	2278.9
20°	2422.4	2420.3	2421.0	2439.2	2467.2	2472.1	2451.8	2424.5	2407.7	2408.4	2396.5
22.5°	2548.4	2537.2	2540.7	2558.9	2598.8	2612.1	2578.5	2548.4	2537.9	2540.7	2539.3
25°	2692.6	2682.1	2677.2	2685.6	2737.5	2760.6	2728.4	2693.3	2688.4	2694.7	2684.9
27.5°	2850.9	2841.1	2835.5	2839.7	2880.3	2923.7	2888.0	2858.6	2857.9	2867.0	2861.4
30°	3030.8	3016.1	3009.8	3014.7	3042.7	3084.7	3056.0	3038.5	3053.2	3059.5	3057.4
32.5°	3212.8	3205.8	3203.7	3202.3	3236.6	3260.4	3246.4	3249.9	3261.8	3290.5	3281.4
35°	3420.1	3399.8	3405.4	3409.6	3454.4	3456.5	3457.9	3464.2	3495.7	3536.3	3512.5
37.5°	3635.7	3630.8	3634.3	3622.4	3655.3	3668.6	3688.2	3709.2	3758.9	3805.8	3796.0
40°	3902.4	3893.3	3896.8	3882.8	3898.9	3909.5	3949.4	3994.9	4058.6	4109.0	4085.9
42.5°	4256.0	4232.9	4232.9	4237.1	4270.7	4259.5	4344.9	4357.5	4436.6	4479.3	4466.0
45°	4671.9	4663.5	4619.4	4545.2	4503.1	4502.4	4571.1	4673.3	4804.2	4893.1	4892.4
47.5°	5200.5	5174.6	5068.8	4890.3	4783.9	4758.0	4830.1	5028.9	5269.8	5408.4	5406.3
50°	5893.6	5860.7	5700.3	5423.1	5215.9	5152.2	5267.7	5525.3	5849.5	6034.3	6049.7
52.5°	6669.3	6672.1	6490.8	6071.4	5764.8	5649.9	5772.5	6140.7	6544.7	6798.1	6828.2
55°	7570.4	7548.7	7377.1	6901.7	6479.6	6233.1	6418.7	6906.6	7370.8	7564.1	7617.3
57.5°	8508.5	8423.8	8292.2	7847.6	7354.0	7039.0	7261.6	7739.1	8183.7	8430.1	8421.7
60°	9340.3	9284.2	9208.6	8854.4	8475.6	8115.8	8287.3	8691.2	9072.1	9221.2	9227.5
62.5°	10249.0	10202.1	10134.2	9940.3	9731.6	9597.9	9442.5	9629.4	9927.0	10090.1	10143.3
65°	11141.0	11124.2	11163.4	11134.0	11222.2	11202.6	10830.1	10712.5	10717.4	10671.2	10647.4
67.5°	11088.4	11082.1	11313.2	11773.9	12653.2	12902.4	11946.8	10882.6	10403.0	10281.2	10263.7
70°	10279.8	10347.7	10775.5	11677.2	13281.9	13569.0	12260.4	10328.8	9715.5	9410.3	9334.7
72.5°	8724.2	8857.2	9513.2	10841.3	12759.6	12825.4	11472.1	9495.7	8592.5	8228.5	8174.6
75°	6731.6	6748.4	7419.8	9107.8	11387.4	11470.0	10233.6	7964.5	7076.1	6623.1	6609.1
77.5°	4099.9	4338.6	5318.1	6828.9	9052.5	9482.4	8558.9	6343.8	5287.3	4886.1	4662.1
80°	2011.4	2120.7	2826.4	4317.6	6470.5	7190.9	6351.5	4387.6	3261.1	2752.2	2696.1
82.5°	915.8	973.9	1337.2	2257.2	3904.5	4797.2	3920.0	2512.7	1741.2	1361.7	1349.1
85°	355.7	353.6	541.2	947.3	1869.3	2656.2	1984.8	1198.6	796.7	592.3	558.7
87.5°	103.6	110.6	158.9	310.9	553.8	746.3	611.9	414.5	245.0	157.5	144.9
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)