

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: P232754

Luminaire Tested: **CST-8-4-D-U-T5-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-21)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-8-4-D-U-T5-7050
Description: CELESTEON HIGH MAST LUMINAIRE
(8) 70 CRI, 5000K LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44467 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 325
Input Voltage (V): NR
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: 28.75 FT

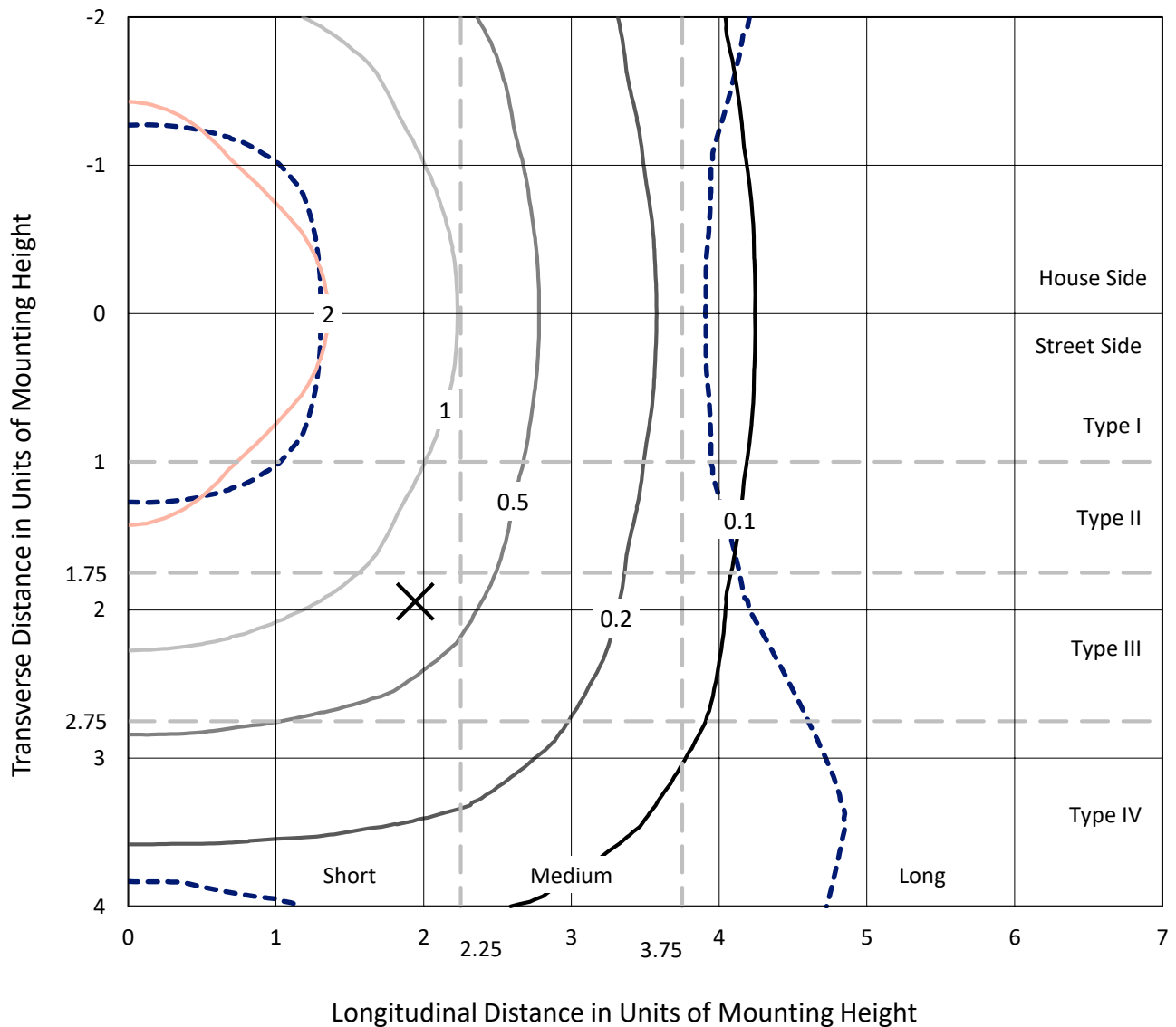


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

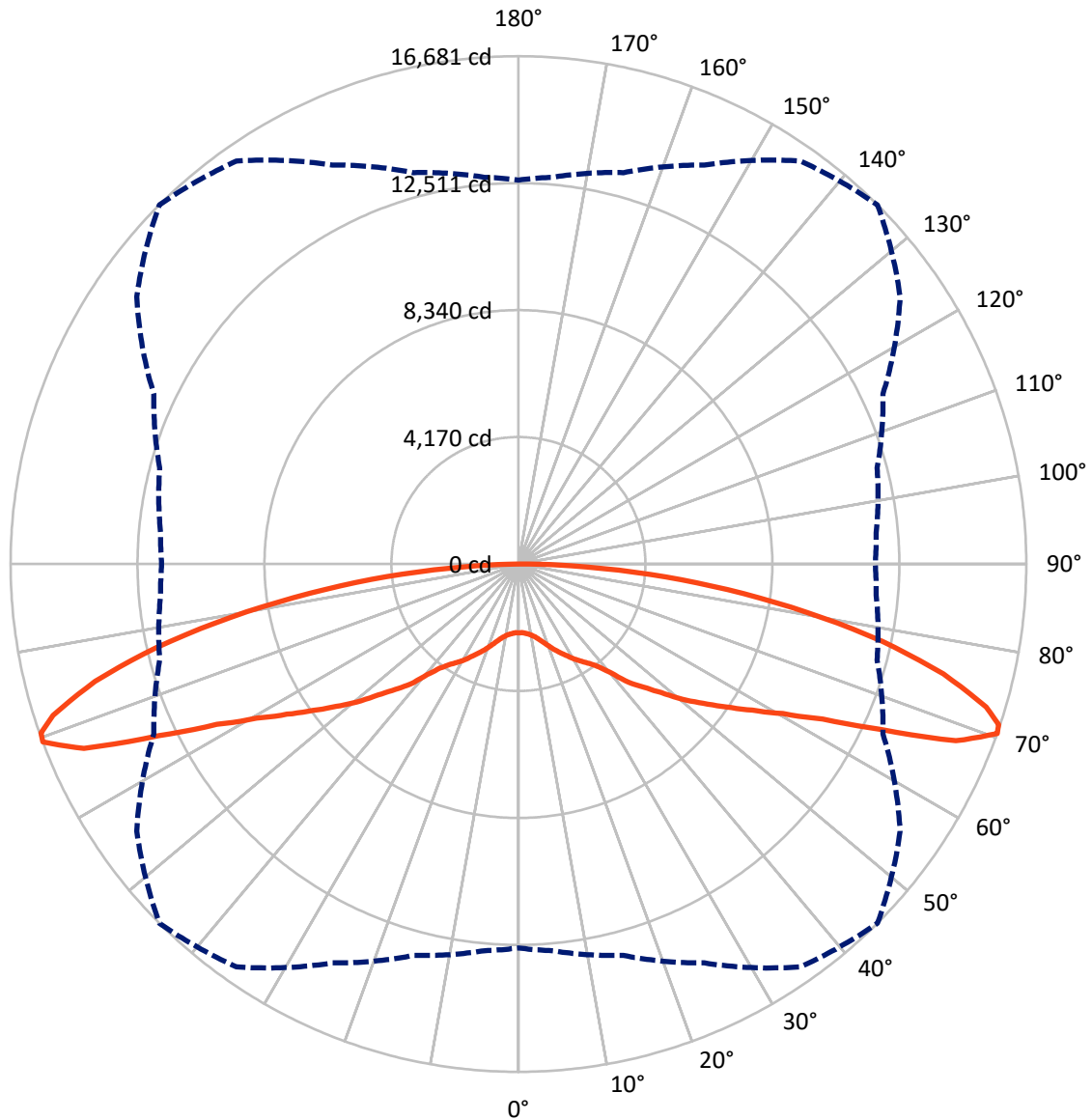


Based on 30 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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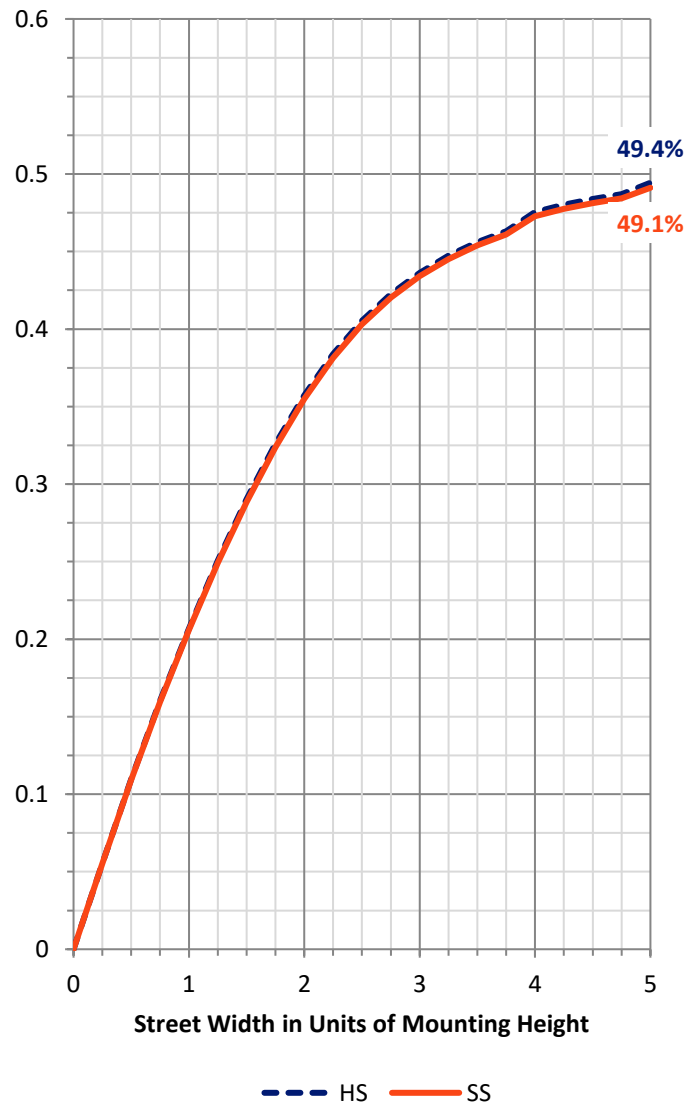
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22233.5	0.0	22233.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22233.5	0.0	22233.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	44467.0	0.0	44467.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.5	0.5
10°-20°	737.4	1.7
20°-30°	1473.5	3.3
30°-40°	2533.9	5.7
40°-50°	4687.6	10.5
50°-60°	7967.5	17.9
60°-70°	12842.7	28.9
70°-80°	11350.7	25.5
80°-90°	2652.2	6.0
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°	44467.0	100.0
0°-180°	44467.0	100.0



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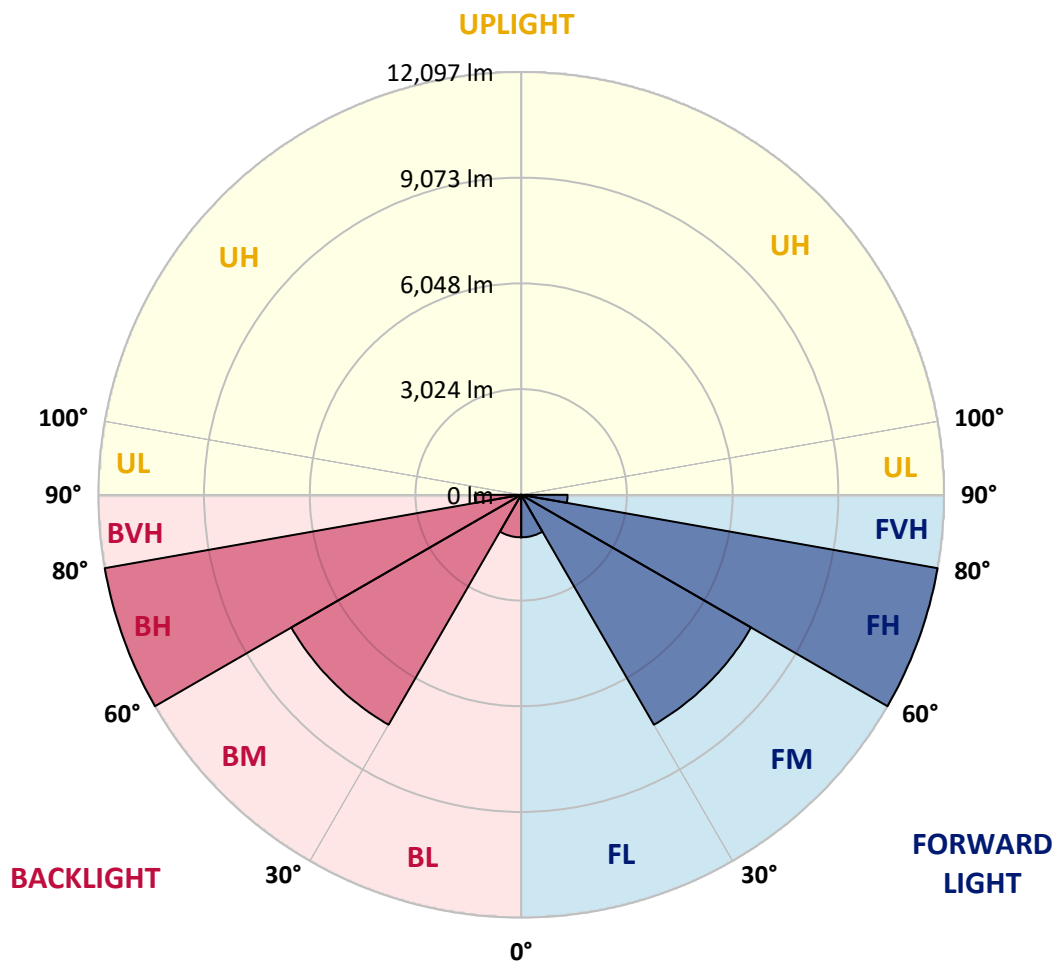
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1216.2	2.7			
FM	(30°-60°)	7594.5	17.1			
FH	(60°-80°)	12096.7	27.2			G5
FVH	(80°-90°)	1326.1	3.0			G5
BL	(0°-30°)	1216.2	2.7	B3/2500		
BM	(30°-60°)	7594.5	17.1	B4/8500		
BH	(60°-80°)	12096.7	27.2	B5		G5
BVH	(80°-90°)	1326.1	3.0			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°	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3
2.5°	2278.8	2274.6	2276.0	2276.0	2250.9	2256.5	2257.9	2273.3	2273.3	2280.2	2281.6
5°	2301.2	2294.2	2295.6	2301.2	2277.4	2281.6	2281.6	2297.0	2294.2	2302.6	2306.8
7.5°	2340.4	2334.8	2334.8	2340.4	2312.4	2319.4	2315.2	2329.2	2323.6	2327.8	2336.2
10°	2403.3	2402.0	2397.8	2400.6	2369.8	2374.0	2365.6	2381.0	2369.8	2371.2	2386.6
12.5°	2476.1	2474.7	2474.7	2478.9	2452.3	2459.3	2445.3	2450.9	2431.3	2434.1	2446.7
15°	2565.6	2568.4	2571.2	2583.8	2567.0	2574.0	2553.0	2550.2	2527.9	2527.9	2543.2
17.5°	2688.7	2688.7	2690.1	2718.1	2708.3	2719.5	2690.1	2670.5	2648.2	2651.0	2653.8
20°	2842.6	2837.0	2839.8	2873.4	2876.2	2884.6	2838.4	2811.8	2788.1	2789.5	2786.7
22.5°	3006.3	2995.1	2993.7	3039.9	3059.4	3062.2	2997.9	2972.7	2941.9	2946.1	2943.3
25°	3163.0	3151.8	3146.2	3183.9	3235.7	3232.9	3163.0	3126.6	3112.6	3112.6	3115.4
27.5°	3318.2	3304.3	3298.7	3321.0	3402.2	3416.2	3323.8	3291.7	3277.7	3290.3	3295.9
30°	3474.9	3463.7	3460.9	3467.9	3560.3	3621.8	3479.1	3465.1	3463.7	3474.9	3487.5
32.5°	3665.2	3663.8	3652.6	3651.2	3719.7	3809.3	3665.2	3673.6	3696.0	3721.1	3737.9
35°	3910.0	3907.2	3876.4	3890.4	3924.0	4007.9	3925.4	3931.0	3991.1	4028.9	4049.9
37.5°	4235.9	4215.0	4175.8	4177.2	4194.0	4279.3	4247.1	4290.5	4399.6	4469.6	4462.6
40°	4697.6	4664.0	4605.3	4588.5	4585.7	4707.4	4738.2	4836.1	5008.1	5111.7	5104.7
42.5°	5357.9	5322.9	5233.4	5209.6	5219.4	5314.5	5404.0	5559.3	5709.0	5829.3	5822.3
45°	6035.0	5990.2	5846.1	5765.0	5695.0	5767.8	5907.7	6151.1	6330.1	6488.2	6485.4
47.5°	6818.4	6748.4	6574.9	6419.7	6279.8	6306.3	6456.0	6734.4	6951.2	7109.3	7099.5
50°	7668.9	7599.0	7408.7	7175.1	6958.2	6976.4	7049.2	7342.9	7558.4	7712.3	7715.1
52.5°	8578.2	8527.8	8309.6	8000.4	7702.5	7600.3	7646.5	7917.9	8165.5	8311.0	8323.6
55°	9558.8	9509.9	9280.5	8923.7	8515.2	8285.8	8284.4	8557.2	8807.6	8934.9	8954.5
57.5°	10542.3	10515.7	10314.3	9925.4	9410.6	9059.4	8979.7	9263.7	9544.9	9676.4	9702.9
60°	11555.1	11518.7	11350.9	11024.9	10459.7	9978.5	9844.2	10128.2	10445.8	10581.5	10598.2
62.5°	12702.2	12665.9	12537.1	12193.0	11776.1	11219.4	11024.9	11286.5	11580.3	11797.1	11774.7
65°	13849.3	13840.9	13895.5	13740.2	13421.3	13102.3	12719.0	13005.8	13222.6	13201.6	13194.6
67.5°	13666.1	13719.2	14096.9	14635.5	15308.4	15498.7	14613.2	13810.2	13337.3	13063.1	12976.4
70°	12611.3	12748.4	13308.0	14456.5	16153.4	16680.8	15304.2	13211.4	12195.8	11795.7	11718.8
71°	12029.3	12137.1	12782.0	14185.1	16159.0	16634.6	15140.5	12761.0	11728.6	11180.2	11127.0
72.5°	10896.2	11062.7	11774.7	13442.3	15667.9	16068.0	14427.1	11921.6	10840.3	10305.9	10276.5
75°	8711.1	8761.5	9680.5	11574.7	14108.1	14425.7	12807.1	10345.0	9230.1	8865.0	8844.0
77.5°	6148.3	6149.7	7031.0	9023.1	11696.4	12211.2	11092.1	8529.2	7403.1	6944.3	6842.1
80°	3256.7	3389.6	4263.9	6201.4	8761.5	9609.2	8814.6	6449.0	5205.4	4535.3	4441.6
82.5°	1484.3	1579.4	2145.9	3515.5	5762.2	6920.5	6047.5	4187.0	2789.5	2066.2	2006.1
85°	576.4	590.3	885.5	1670.3	3221.7	4340.9	3521.1	1962.7	970.9	593.1	549.8
87.5°	188.9	201.4	288.2	643.5	1370.9	1733.3	1361.2	590.3	188.9	117.5	113.3
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)