

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: P510772

Luminaire Tested: **CST-CA8-330-727-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510772
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-CA8-330-727-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42760 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

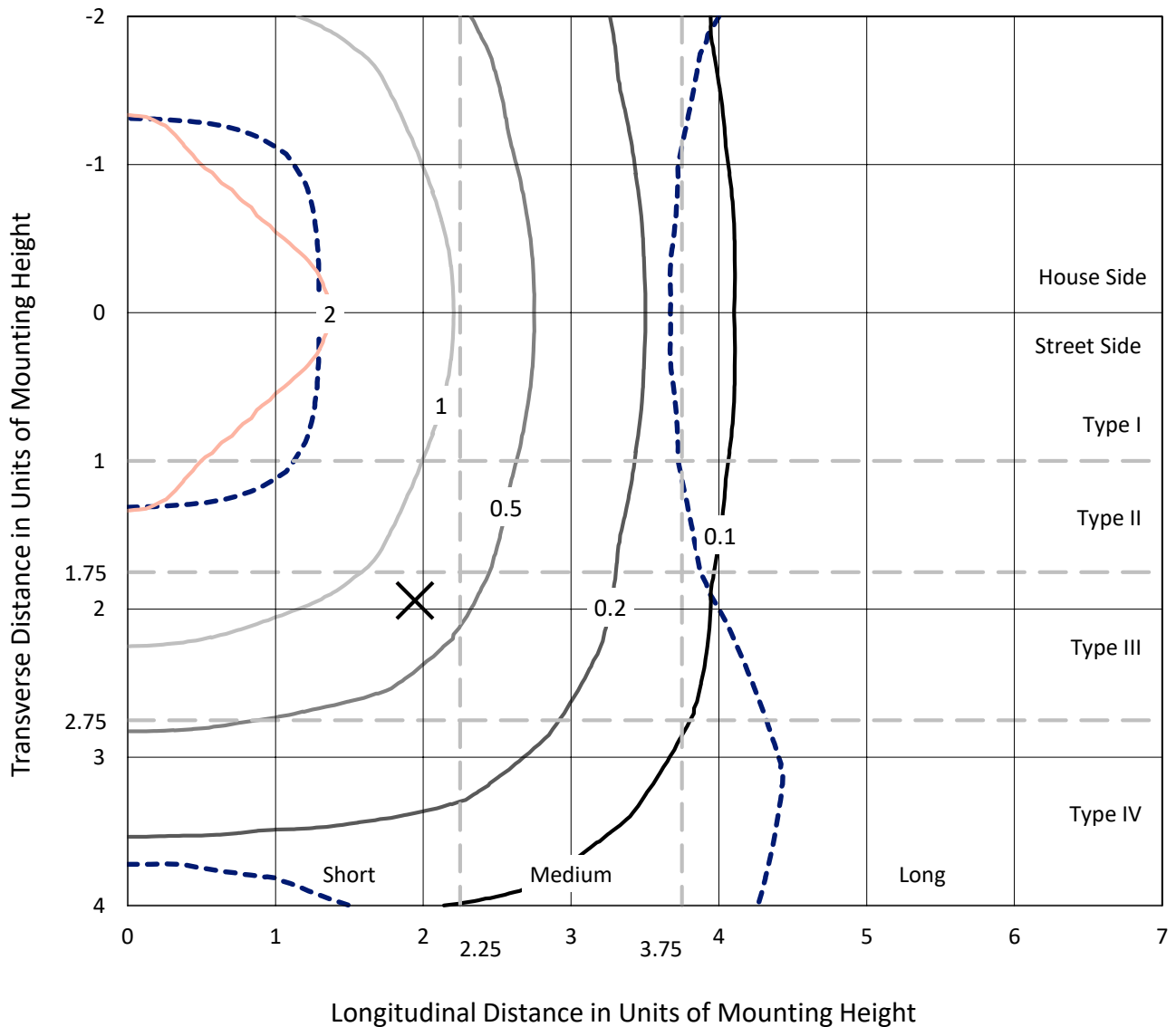
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

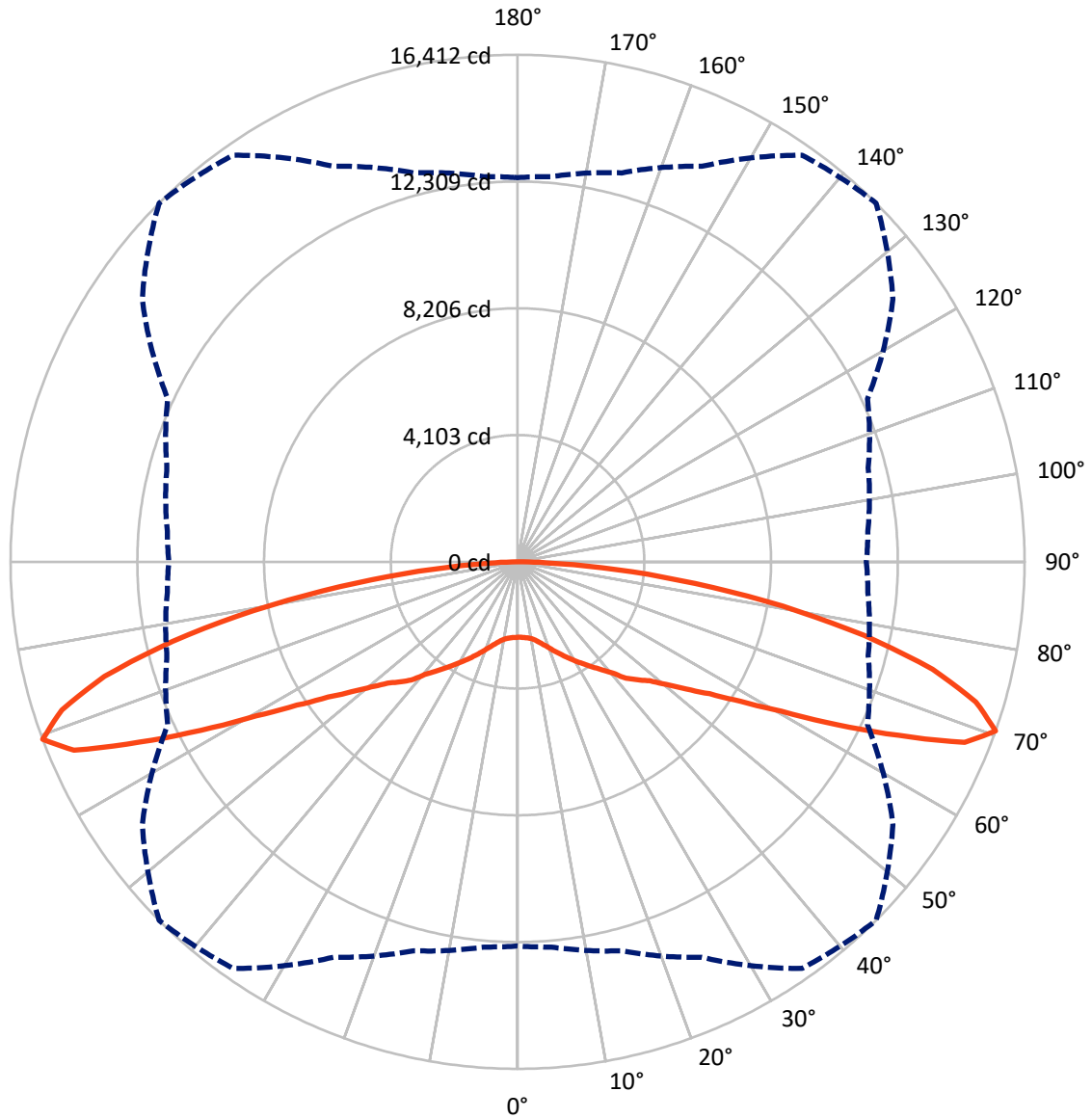
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.8 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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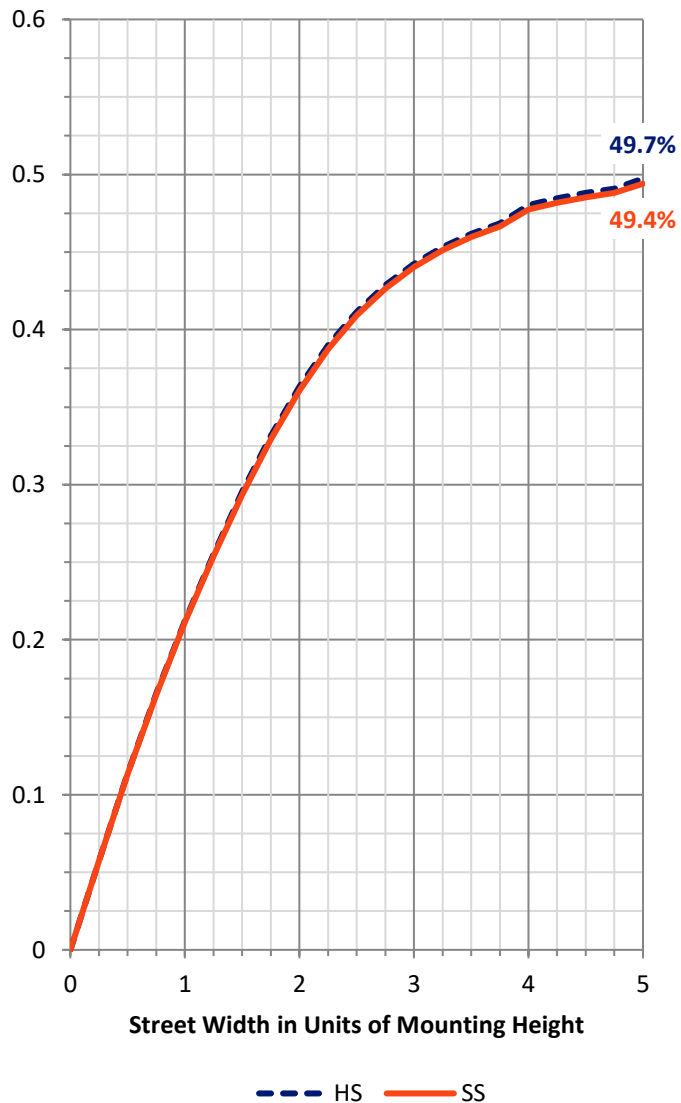
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21380.0	0.0	21380.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21380.0	0.0	21380.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	42760.0	0.0	42760.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.6	0.6
10°-20°	773.6	1.8
20°-30°	1531.5	3.6
30°-40°	2649.4	6.2
40°-50°	4408.1	10.3
50°-60°	7688.5	18.0
60°-70°	12727.9	29.8
70°-80°	10667.0	24.9
80°-90°	2076.5	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°	42760.0	100.0
0°-180°	42760.0	100.0

Coefficient of Utilization

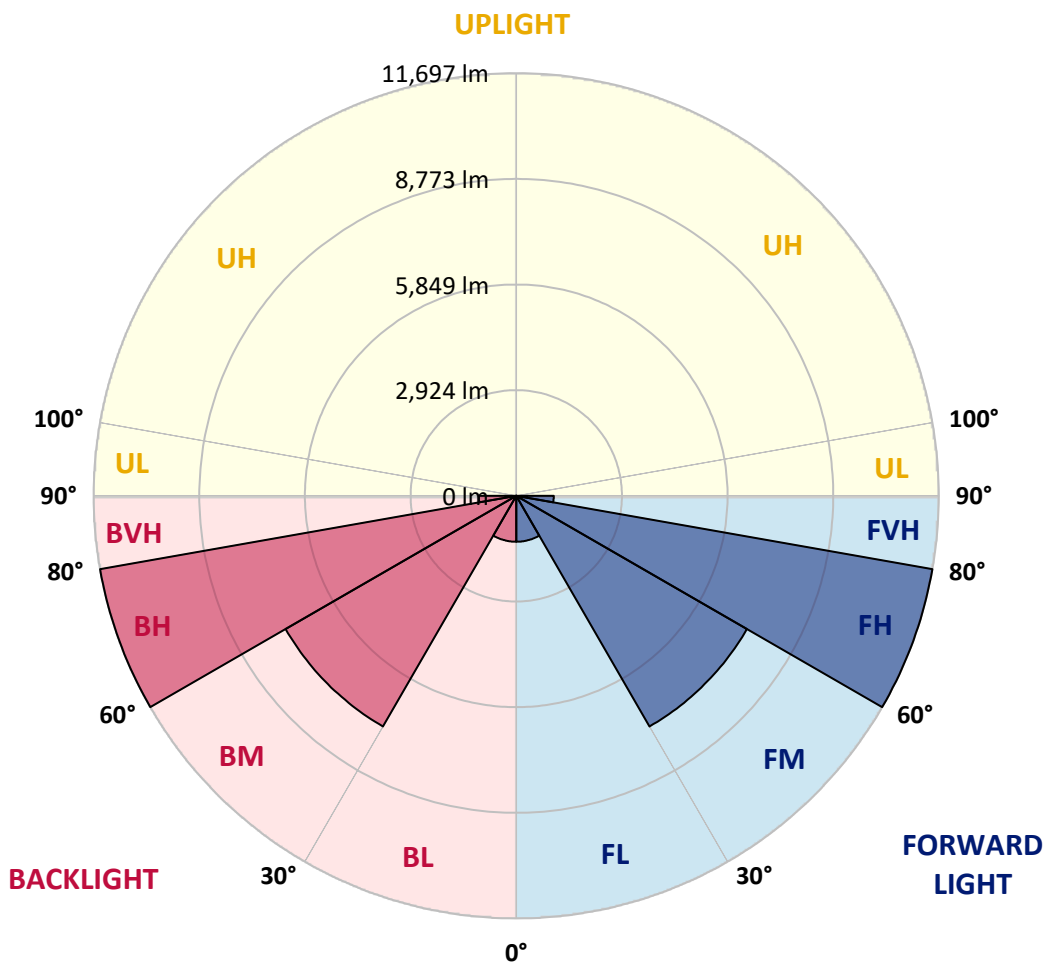


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1271.3	3.0			
FM (30°-60°)	7373.0	17.2			
FH (60°-80°)	11697.4	27.4			G4/12000
FVH (80°-90°)	1038.3	2.4			G5
BL (0°-30°)	1271.3	3.0	B3/2500		
BM (30°-60°)	7373.0	17.2	B4/8500		
BH (60°-80°)	11697.4	27.4	B5		G4/12000
BVH (80°-90°)	1038.3	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°	2443.9	2443.9	2443.9	2443.9	2443.9	2443.9	2443.9	2443.9	2443.9	2443.9	2443.9
2.5°	2459.1	2451.5	2449.0	2446.4	2448.1	2447.3	2451.5	2453.2	2454.9	2462.5	2458.3
5°	2474.4	2468.4	2467.6	2464.2	2463.3	2463.3	2469.3	2470.1	2471.0	2476.0	2471.0
7.5°	2502.3	2496.4	2494.7	2493.0	2492.1	2488.8	2493.0	2491.3	2493.0	2495.5	2489.6
10°	2546.3	2539.6	2537.9	2533.6	2536.2	2531.1	2534.5	2530.2	2522.6	2524.3	2515.8
12.5°	2606.5	2600.5	2603.1	2602.2	2612.4	2609.8	2603.1	2594.6	2581.9	2573.4	2564.1
15°	2695.4	2686.1	2692.8	2699.6	2709.8	2714.0	2708.9	2686.1	2667.4	2653.9	2646.3
17.5°	2803.8	2788.5	2802.1	2815.6	2837.6	2841.9	2823.2	2795.3	2775.0	2769.0	2756.3
20°	2929.9	2927.4	2928.2	2950.3	2984.1	2990.1	2965.5	2932.5	2912.2	2913.0	2898.6
22.5°	3082.4	3068.8	3073.0	3095.1	3143.3	3159.4	3118.8	3082.4	3069.7	3073.0	3071.3
25°	3256.8	3244.1	3238.2	3248.3	3311.0	3338.9	3300.0	3257.6	3251.7	3259.3	3247.5
27.5°	3448.2	3436.3	3429.5	3434.6	3483.7	3536.2	3493.1	3457.5	3456.6	3467.7	3460.9
30°	3665.8	3648.0	3640.4	3646.3	3680.2	3731.0	3696.3	3675.1	3692.9	3700.5	3698.0
32.5°	3886.0	3877.5	3875.0	3873.3	3914.8	3943.6	3926.6	3930.9	3945.2	3980.0	3969.0
35°	4136.6	4112.1	4118.8	4123.9	4178.1	4180.7	4182.4	4190.0	4228.1	4277.2	4248.4
37.5°	4397.4	4391.5	4395.7	4381.4	4421.2	4437.2	4461.0	4486.4	4546.5	4603.2	4591.4
40°	4720.1	4709.1	4713.3	4696.4	4715.8	4728.5	4776.8	4831.9	4908.9	4969.9	4941.9
42.5°	5147.7	5119.8	5119.8	5124.8	5165.5	5151.9	5255.3	5270.5	5366.2	5417.8	5401.7
45°	5650.7	5640.5	5587.2	5497.4	5446.6	5445.8	5528.8	5652.4	5810.8	5918.3	5917.5
47.5°	6290.0	6258.7	6130.8	5914.9	5786.2	5754.9	5842.1	6082.6	6373.9	6541.5	6539.0
50°	7128.4	7088.6	6894.7	6559.3	6308.7	6231.6	6371.3	6683.0	7075.0	7298.6	7317.2
52.5°	8066.6	8070.0	7850.7	7343.5	6972.6	6833.7	6981.9	7427.3	7915.9	8222.4	8258.9
55°	9156.5	9130.2	8922.8	8347.8	7837.2	7539.1	7763.5	8353.7	8915.1	9148.8	9213.2
57.5°	10291.2	10188.7	10029.5	9491.8	8894.8	8513.7	8783.0	9360.5	9898.3	10196.3	10186.2
60°	11297.2	11229.4	11138.0	10709.5	10251.4	9816.1	10023.6	10512.2	10972.9	11153.2	11160.8
62.5°	12396.3	12339.6	12257.5	12022.9	11770.5	11608.8	11420.8	11646.9	12006.8	12204.1	12268.5
65°	13475.2	13454.8	13502.3	13466.7	13573.4	13549.7	13099.2	12956.9	12962.8	12907.0	12878.2
67.5°	13411.6	13404.0	13683.5	14240.7	15304.2	15605.7	14449.8	13162.7	12582.6	12435.3	12414.1
70°	12433.6	12515.7	13033.1	14123.8	16064.7	16411.9	14829.2	12492.9	11751.1	11381.9	11290.4
72.5°	10552.0	10712.9	11506.3	13112.7	15433.0	15512.6	13875.7	11485.2	10392.8	9952.5	9887.3
75°	8142.0	8162.3	8974.4	11016.0	13773.2	13873.2	12377.7	9633.2	8558.6	8010.7	7993.8
77.5°	4958.9	5247.6	6432.3	8259.7	10949.1	11469.1	10352.2	7672.9	6395.0	5909.8	5638.9
80°	2432.9	2565.0	3418.5	5222.2	7826.1	8697.5	7682.2	5306.9	3944.4	3328.8	3261.0
82.5°	1107.6	1177.9	1617.4	2730.1	4722.6	5802.3	4741.2	3039.2	2106.0	1647.0	1631.8
85°	430.2	427.6	654.6	1145.7	2261.0	3212.8	2400.7	1449.7	963.7	716.4	675.7
87.5°	125.3	133.8	192.2	376.0	669.8	902.7	740.1	501.3	296.4	190.5	175.3
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)