

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: P510762

Luminaire Tested: **CST-CA8-330-722-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510762
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-CA8-330-722-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41154 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

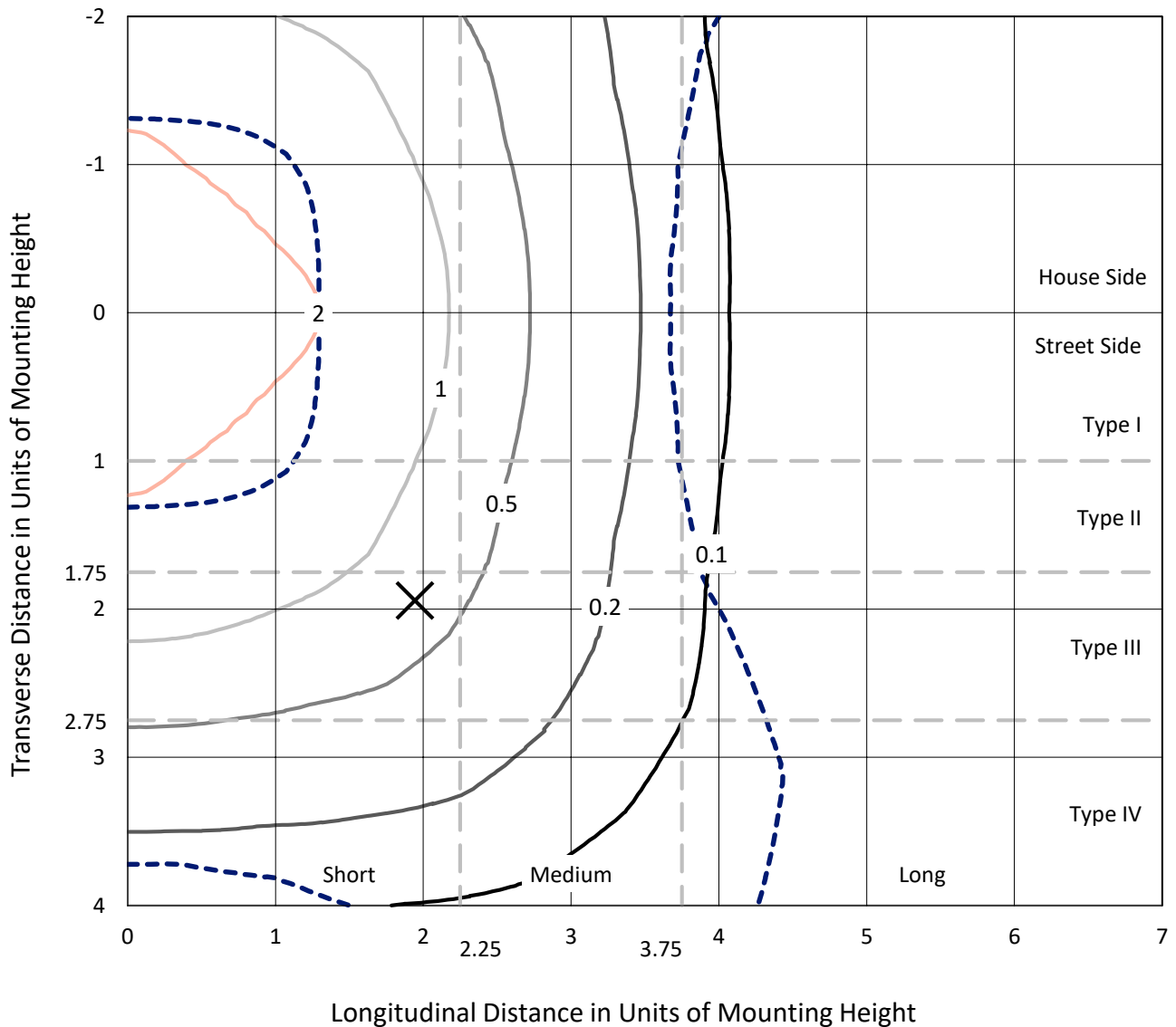
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

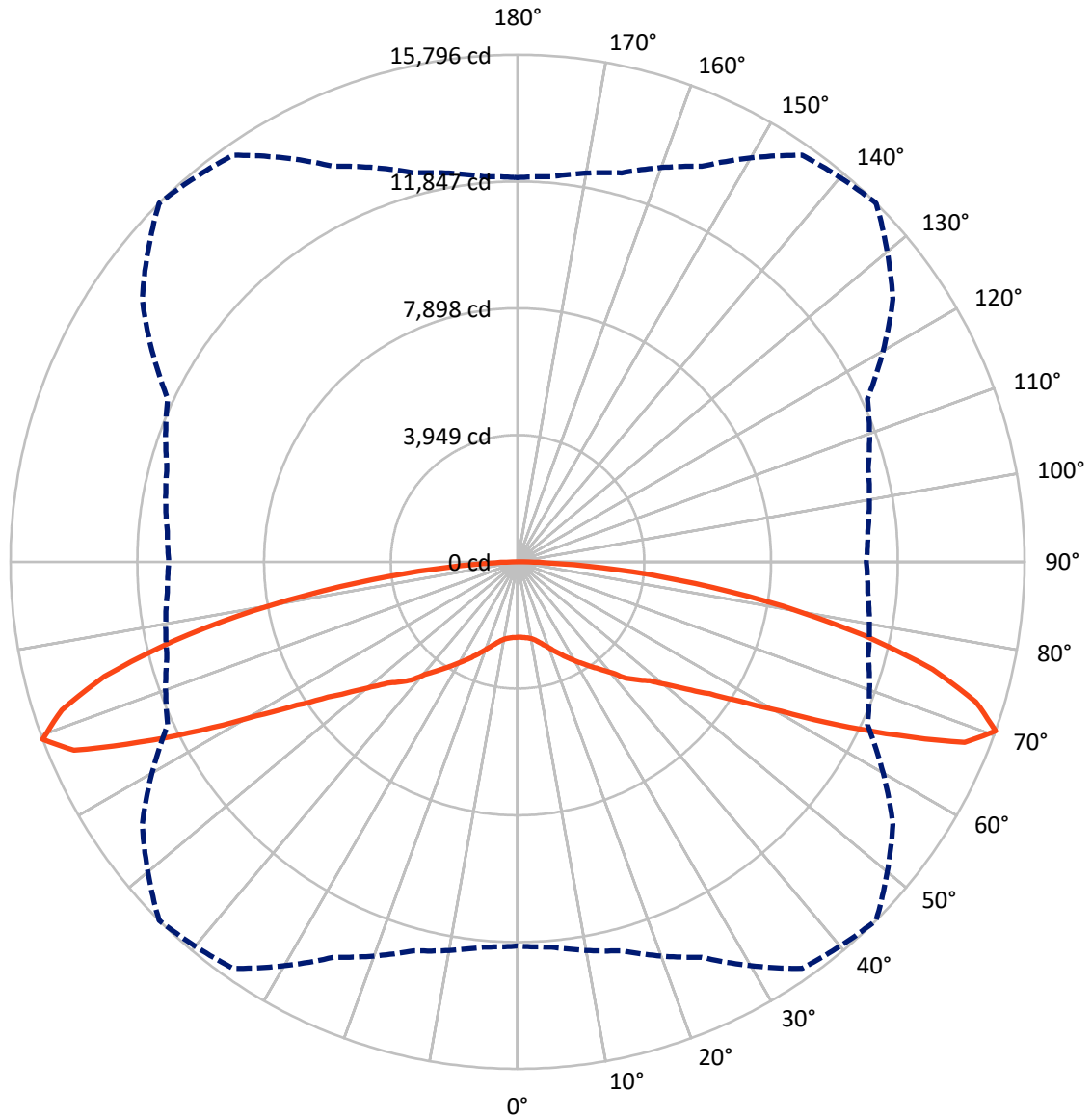
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.7 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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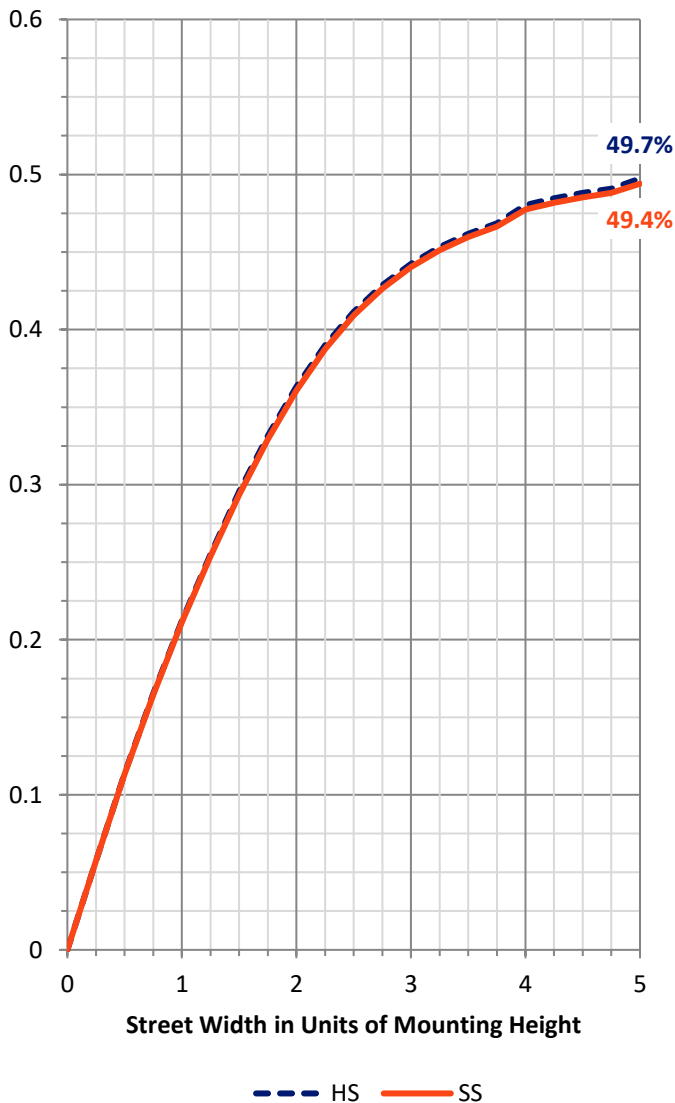
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20577.0	0.0	20577.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20577.0	0.0	20577.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	41154.0	0.0	41154.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.6	0.6
10°-20°	744.6	1.8
20°-30°	1474.0	3.6
30°-40°	2549.9	6.2
40°-50°	4242.6	10.3
50°-60°	7399.7	18.0
60°-70°	12249.9	29.8
70°-80°	10266.3	24.9
80°-90°	1998.5	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°	41154.0	100.0
0°-180°	41154.0	100.0



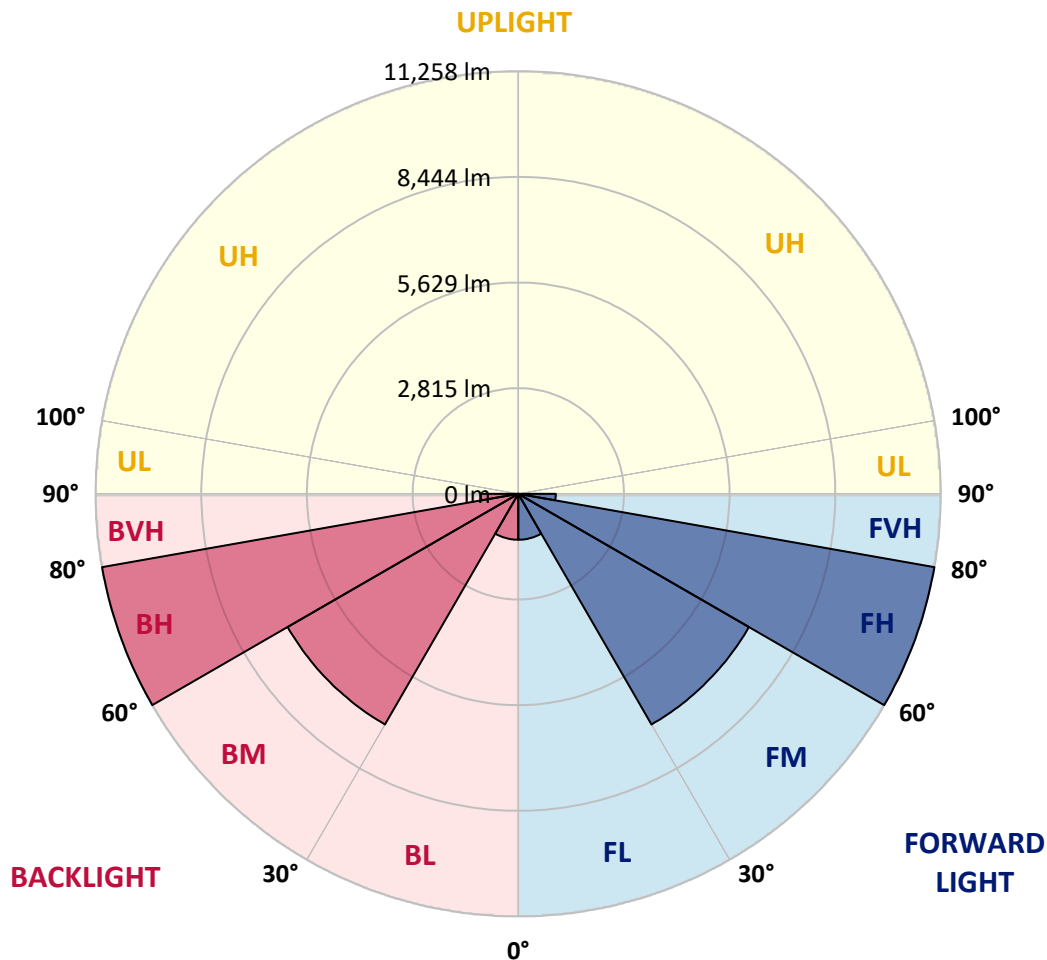
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1223.6	3.0			
FM (30°-60°)	7096.1	17.2			
FH (60°-80°)	11258.1	27.4			G4/12000
FVH (80°-90°)	999.3	2.4			G5
BL (0°-30°)	1223.6	3.0	B3/2500		
BM (30°-60°)	7096.1	17.2	B4/8500		
BH (60°-80°)	11258.1	27.4	B5		G4/12000
BVH (80°-90°)	999.3	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°	2352.1	2352.1	2352.1	2352.1	2352.1	2352.1	2352.1	2352.1	2352.1	2352.1	2352.1
2.5°	2366.8	2359.4	2357.0	2354.5	2356.2	2355.3	2359.4	2361.0	2362.7	2370.0	2365.9
5°	2381.4	2375.7	2374.9	2371.6	2370.8	2370.8	2376.5	2377.3	2378.2	2383.1	2378.2
7.5°	2408.3	2402.6	2401.0	2399.4	2398.5	2395.3	2399.4	2397.7	2399.4	2401.8	2396.1
10°	2450.7	2444.2	2442.5	2438.5	2440.9	2436.0	2439.3	2435.2	2427.9	2429.5	2421.4
12.5°	2508.6	2502.9	2505.3	2504.5	2514.3	2511.8	2505.3	2497.2	2484.9	2476.8	2467.8
15°	2594.1	2585.2	2591.7	2598.2	2608.0	2612.1	2607.2	2585.2	2567.2	2554.2	2546.9
17.5°	2698.5	2683.8	2696.8	2709.9	2731.1	2735.1	2717.2	2690.3	2670.7	2665.0	2652.8
20°	2819.9	2817.4	2818.3	2839.5	2872.1	2877.8	2854.1	2822.3	2802.8	2803.6	2789.7
22.5°	2966.6	2953.5	2957.6	2978.8	3025.3	3040.8	3001.6	2966.6	2954.4	2957.6	2956.0
25°	3134.5	3122.3	3116.5	3126.3	3186.6	3213.5	3176.0	3135.3	3129.6	3136.9	3125.5
27.5°	3318.7	3307.3	3300.7	3305.6	3352.9	3403.4	3361.9	3327.6	3326.8	3337.4	3330.9
30°	3528.1	3511.0	3503.7	3509.4	3542.0	3590.9	3557.5	3537.1	3554.2	3561.5	3559.1
32.5°	3740.0	3731.9	3729.4	3727.8	3767.7	3795.4	3779.1	3783.2	3797.1	3830.5	3819.9
35°	3981.3	3957.6	3964.1	3969.0	4021.2	4023.6	4025.3	4032.6	4069.3	4116.6	4088.8
37.5°	4232.3	4226.6	4230.7	4216.8	4255.1	4270.6	4293.4	4317.9	4375.7	4430.3	4418.9
40°	4542.8	4532.2	4536.3	4520.0	4538.7	4550.9	4597.4	4650.4	4724.5	4783.2	4756.3
42.5°	4954.4	4927.5	4927.5	4932.4	4971.5	4958.4	5057.9	5072.5	5164.6	5214.4	5198.9
45°	5438.5	5428.7	5377.4	5291.0	5242.1	5241.2	5321.1	5440.1	5592.5	5696.0	5695.2
47.5°	6053.8	6023.6	5900.6	5692.8	5568.9	5538.7	5622.7	5854.1	6134.5	6295.9	6293.4
50°	6860.6	6822.3	6635.7	6313.0	6071.7	5997.6	6132.0	6432.0	6809.3	7024.5	7042.4
52.5°	7763.7	7766.9	7555.8	7067.7	6710.7	6577.0	6719.7	7148.3	7618.6	7913.6	7948.7
55°	8812.6	8787.3	8587.6	8034.2	7542.8	7255.9	7471.9	8039.9	8580.3	8805.2	8867.2
57.5°	9904.7	9806.0	9652.8	9135.3	8560.7	8194.0	8453.2	9009.0	9526.5	9813.4	9803.6
60°	10872.9	10807.7	10719.7	10307.3	9866.4	9447.4	9647.1	10117.4	10560.7	10734.3	10741.7
62.5°	11930.7	11876.1	11797.1	11571.3	11328.5	11172.8	10991.9	11209.5	11555.8	11745.7	11807.7
65°	12969.1	12949.5	12995.1	12960.9	13063.6	13040.8	12607.2	12470.3	12476.0	12422.2	12394.5
67.5°	12907.9	12900.6	13169.5	13705.8	14729.4	15019.6	13907.1	12668.3	12110.0	11968.2	11947.9
70°	11966.6	12045.7	12543.6	13593.3	15461.3	15795.5	14272.2	12023.7	11309.7	10954.4	10866.4
72.5°	10155.7	10310.5	11074.2	12620.2	14853.3	14929.9	13354.5	11053.8	10002.5	9578.7	9515.9
75°	7836.2	7855.8	8637.3	10602.3	13255.9	13352.1	11912.8	9271.4	8237.2	7709.9	7693.6
77.5°	4772.6	5050.5	6190.7	7949.5	10537.9	11038.3	9963.3	7384.7	6154.9	5687.9	5427.1
80°	2341.5	2468.6	3290.1	5026.1	7532.2	8370.8	7393.7	5107.6	3796.3	3203.8	3138.6
82.5°	1066.0	1133.7	1556.6	2627.6	4545.2	5584.4	4563.2	2925.0	2026.9	1585.2	1570.5
85°	414.0	411.6	630.0	1102.7	2176.0	3092.1	2310.5	1395.3	927.5	689.5	650.4
87.5°	120.6	128.8	185.0	361.9	644.7	868.8	712.3	482.5	285.2	183.4	168.7
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)