

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: P510463

Luminaire Tested: **CST-CA10-310-722-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-310-722-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42085 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

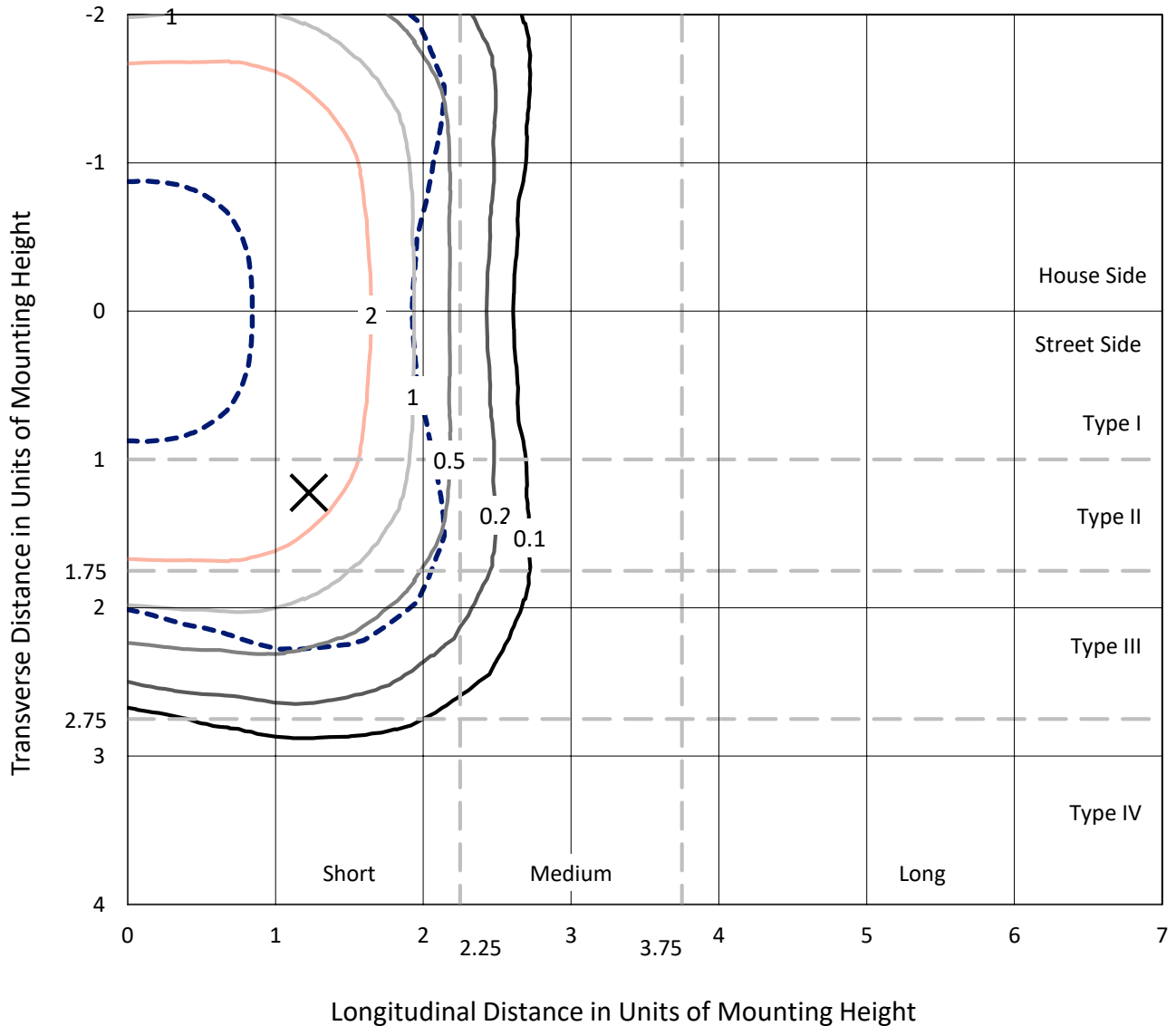
Input Watts (W): 312.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

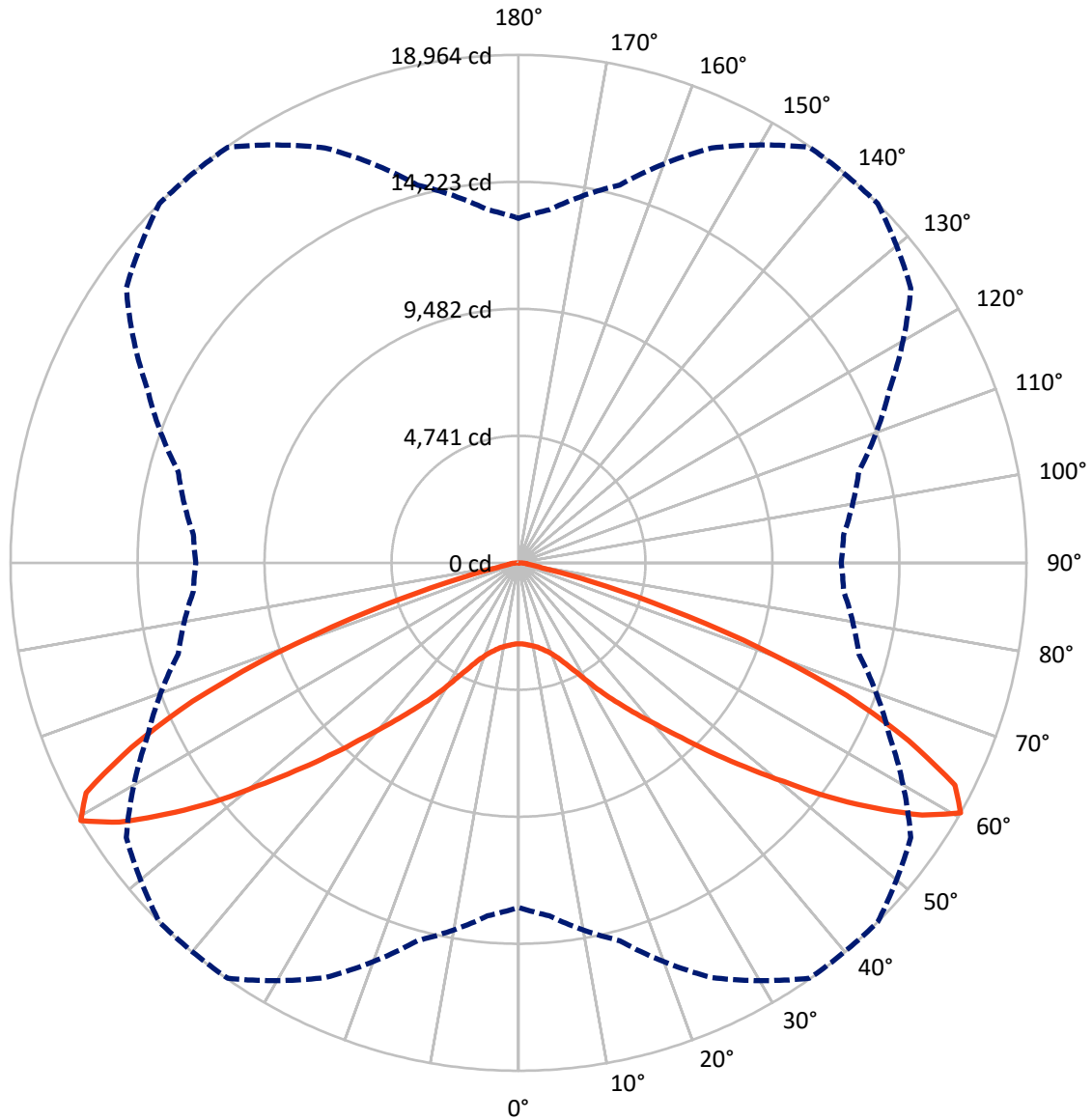
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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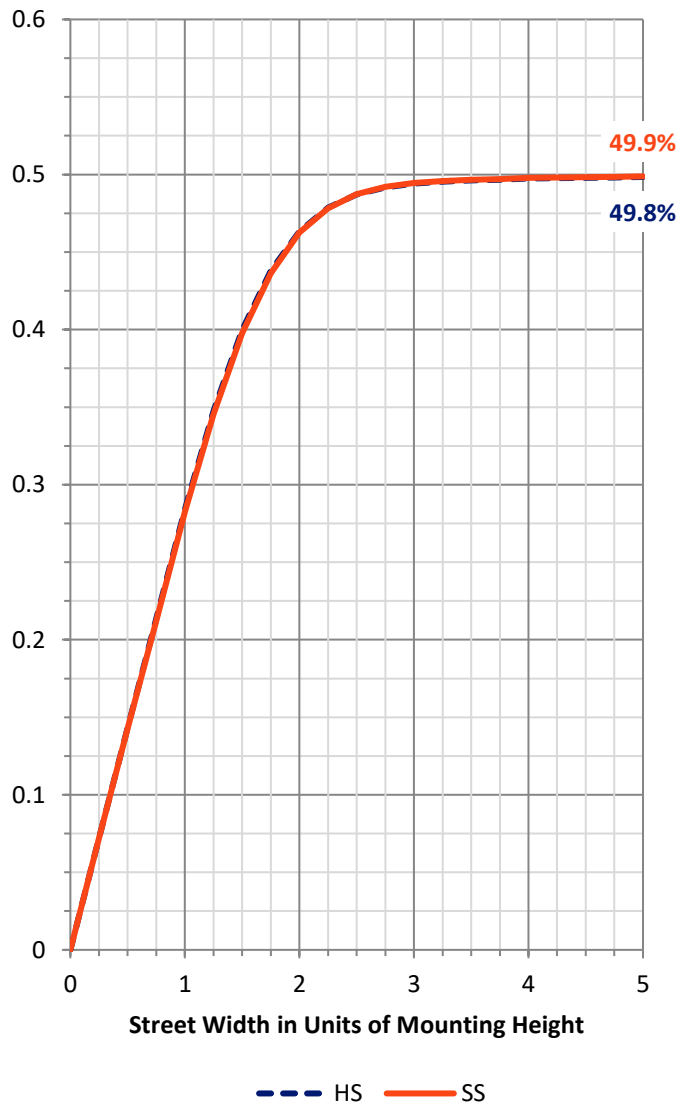
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21042.5	0.0	21042.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21042.5	0.0	21042.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	42085.0	0.0	42085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.7	0.7
10°-20°	964.1	2.3
20°-30°	2047.6	4.9
30°-40°	4341.7	10.3
40°-50°	8256.7	19.6
50°-60°	13098.8	31.1
60°-70°	11072.0	26.3
70°-80°	1821.5	4.3
80°-90°	186.8	0.4
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°	42085.0	100.0
0°-180°	42085.0	100.0

Coefficient of Utilization



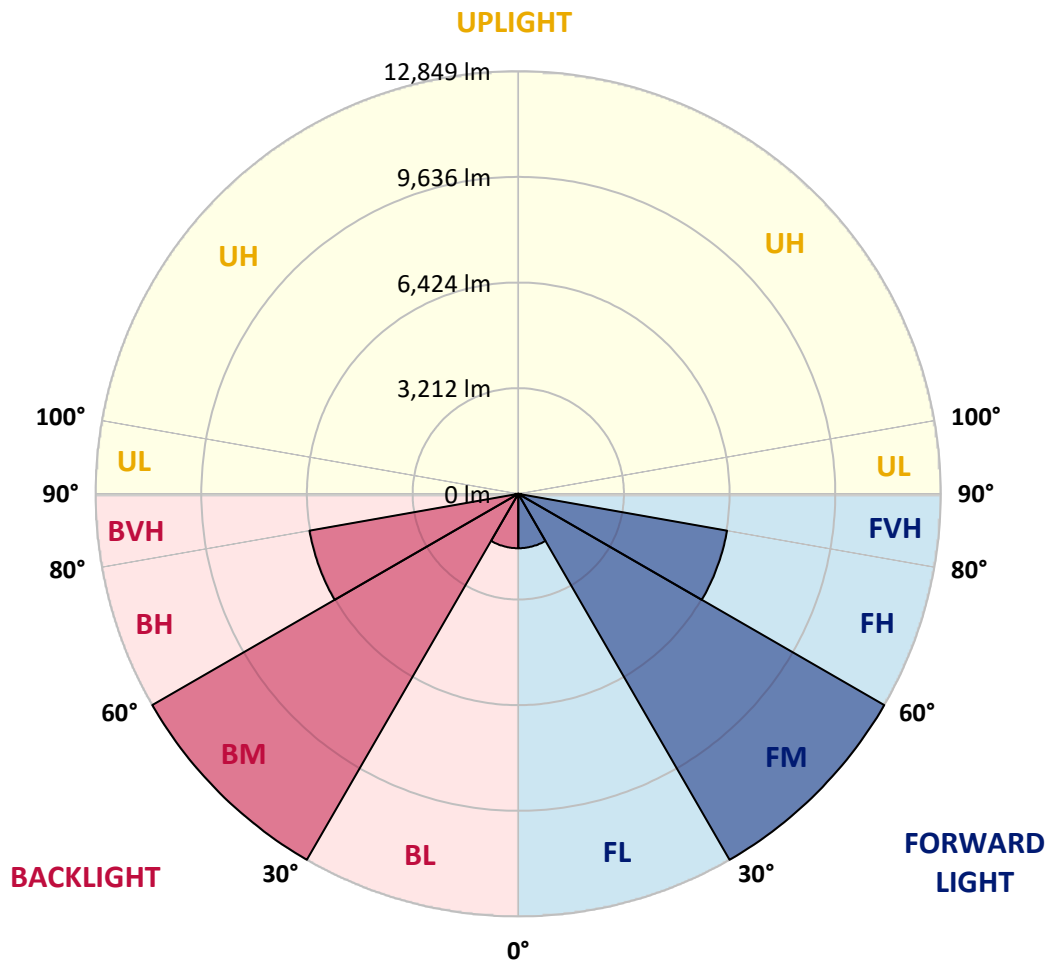
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1653.7	3.9			
FM (30°-60°)	12848.6	30.5			
FH (60°-80°)	6446.7	15.3			G3/7500
FVH (80°-90°)	93.4	0.2			G1/100
BL (0°-30°)	1653.7	3.9	B3/2500		
BM (30°-60°)	12848.6	30.5	B5		
BH (60°-80°)	6446.7	15.3	B5		G3/7500
BVH (80°-90°)	93.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3021.6	3021.6	3021.6	3021.6	3021.6	3021.6	3021.6	3021.6	3021.6	3021.6	3021.6
2.5°	3043.4	3035.8	3033.5	3030.3	3031.9	3032.7	3037.0	3037.4	3037.4	3041.4	3048.1
5°	3077.5	3067.6	3064.0	3060.0	3062.0	3064.0	3068.0	3070.3	3069.9	3072.3	3078.3
7.5°	3114.4	3110.8	3106.4	3104.1	3104.1	3109.6	3106.8	3111.2	3110.8	3113.6	3117.1
10°	3169.1	3161.2	3160.8	3156.4	3158.4	3163.2	3163.9	3163.2	3163.9	3165.5	3173.9
12.5°	3238.5	3236.5	3237.7	3234.1	3233.0	3238.1	3239.3	3244.5	3246.0	3250.8	3256.0
15°	3350.4	3337.7	3336.1	3335.7	3338.1	3346.0	3348.4	3357.9	3362.3	3369.0	3380.5
17.5°	3476.9	3481.3	3473.3	3472.5	3472.1	3478.5	3484.8	3505.8	3512.6	3528.1	3538.0
20°	3678.8	3670.8	3666.1	3647.0	3642.3	3653.4	3676.4	3704.2	3717.2	3741.8	3760.5
22.5°	3948.5	3935.0	3902.5	3879.9	3870.3	3889.4	3914.4	3958.8	4011.6	4042.1	4050.4
25°	4338.4	4285.2	4244.8	4204.7	4190.4	4218.6	4259.1	4329.7	4395.9	4457.0	4485.1
27.5°	4813.1	4779.4	4698.9	4635.9	4610.9	4634.7	4718.7	4818.3	4939.7	5003.1	5012.7
30°	5416.0	5398.6	5295.8	5177.7	5133.2	5174.5	5273.6	5409.3	5578.3	5708.7	5731.8
32.5°	6162.5	6074.0	5931.3	5796.0	5748.4	5798.8	5898.3	6093.1	6320.8	6465.1	6514.3
35°	7018.4	6918.5	6703.9	6496.1	6434.6	6440.9	6600.4	6874.8	7186.2	7387.7	7442.8
37.5°	7962.4	7860.5	7607.4	7285.0	7142.6	7153.3	7361.9	7718.9	8145.7	8365.4	8438.4
40°	8969.9	8864.4	8603.4	8240.1	8006.0	7958.5	8237.3	8672.0	9105.5	9370.5	9398.6
42.5°	9954.7	9829.8	9619.9	9256.6	9043.2	8915.5	9252.3	9646.1	10083.2	10322.0	10340.6
45°	10834.4	10810.2	10641.7	10378.3	10202.6	10089.6	10329.9	10721.0	11026.4	11177.5	11232.7
47.5°	11684.8	11669.7	11615.8	11523.8	11567.4	11379.4	11494.8	11672.1	11839.9	11951.0	11993.8
50°	12430.1	12446.0	12551.9	12708.5	13024.3	12833.9	12797.8	12607.0	12611.8	12620.5	12664.9
52.5°	13045.7	13129.8	13396.3	13869.1	14550.9	14546.5	14000.4	13496.6	13269.0	13167.8	13177.0
55°	13582.3	13726.3	14166.6	15142.7	16118.4	16167.2	15424.3	14308.6	13881.8	13666.0	13694.2
57.5°	13878.6	14097.9	14843.2	16325.0	17715.6	17774.3	16947.0	15207.7	14230.4	13684.3	13707.7
60°	12861.6	13230.9	14604.8	17087.8	18937.3	18964.2	17877.9	15278.3	13152.4	12185.8	12044.2
62.5°	10525.1	11036.7	12975.1	16496.8	18371.3	18287.6	17295.2	13955.5	10804.3	9631.8	9512.9
65°	7906.1	8387.2	10416.8	14125.3	16119.6	16009.3	14998.7	11029.6	7921.2	6676.5	6530.2
67.5°	4278.9	5005.5	6904.6	10790.0	12850.1	13224.2	11824.0	7687.5	4609.7	3342.0	3213.5
70°	1477.9	1909.8	3520.5	6773.3	9268.5	9643.7	8063.2	4123.0	2017.3	1261.3	1132.4
72.5°	524.7	604.9	1323.6	3271.0	5276.8	5846.8	4350.7	1658.3	642.9	468.4	458.9
75°	370.5	382.4	470.4	1066.5	2284.6	2798.2	1715.4	550.5	401.0	374.8	372.4
77.5°	330.8	337.5	381.2	434.3	698.1	893.6	527.9	399.4	348.2	333.6	328.4
80°	314.5	319.7	332.4	356.2	395.8	411.7	356.2	341.5	316.9	310.6	308.6
82.5°	274.9	273.7	277.2	287.2	305.0	309.0	286.0	267.7	268.1	260.6	257.0
85°	186.0	197.1	188.8	178.5	221.3	222.5	207.4	155.5	176.5	172.9	158.3
87.5°	56.3	63.5	50.4	34.9	48.0	37.3	33.7	34.9	33.3	29.0	26.2
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)