

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: P721854

Luminaire Tested: **CST-CA8-400-730-U-T5**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-400-730-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61525 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

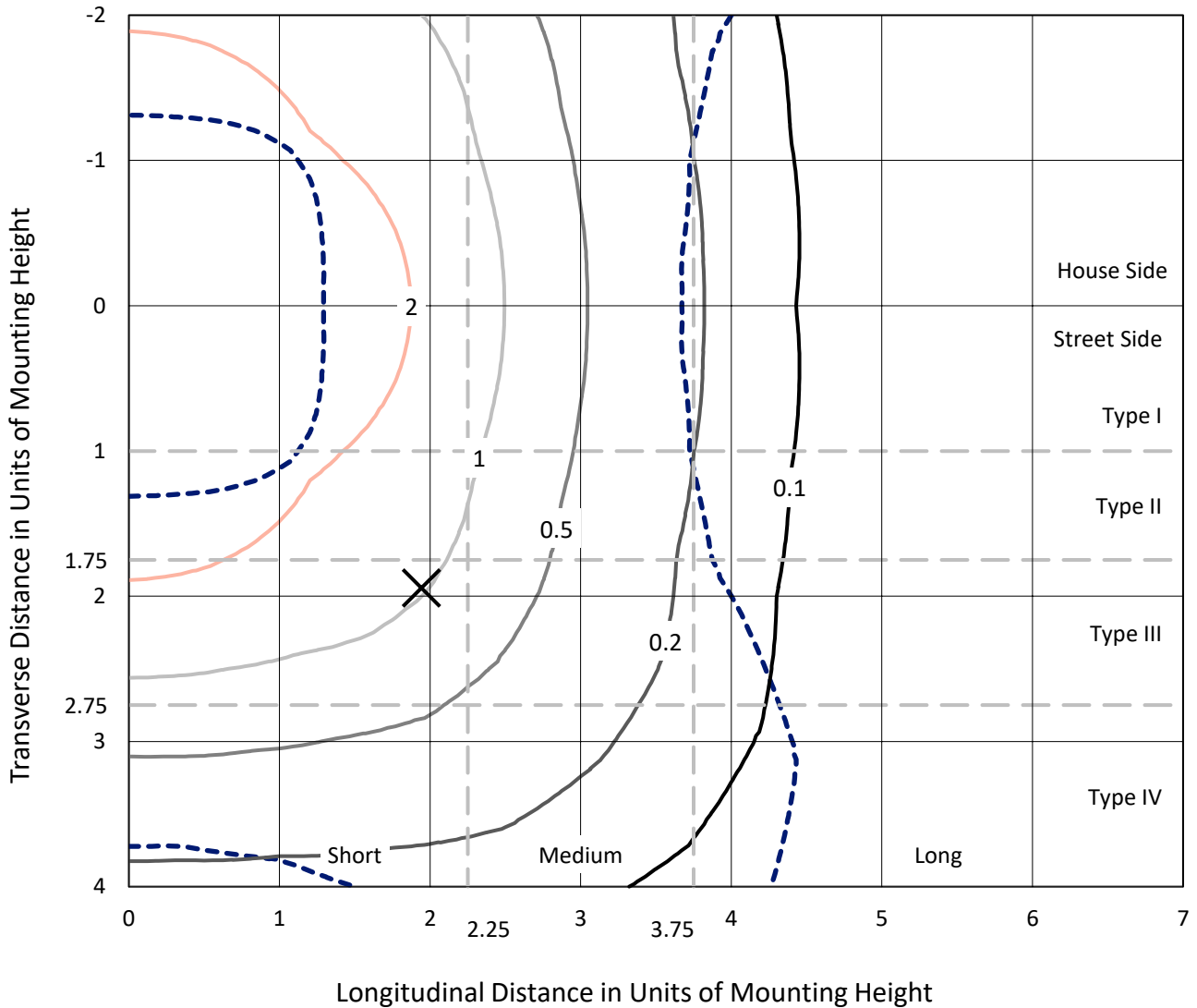
Input Watts (W): 400.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

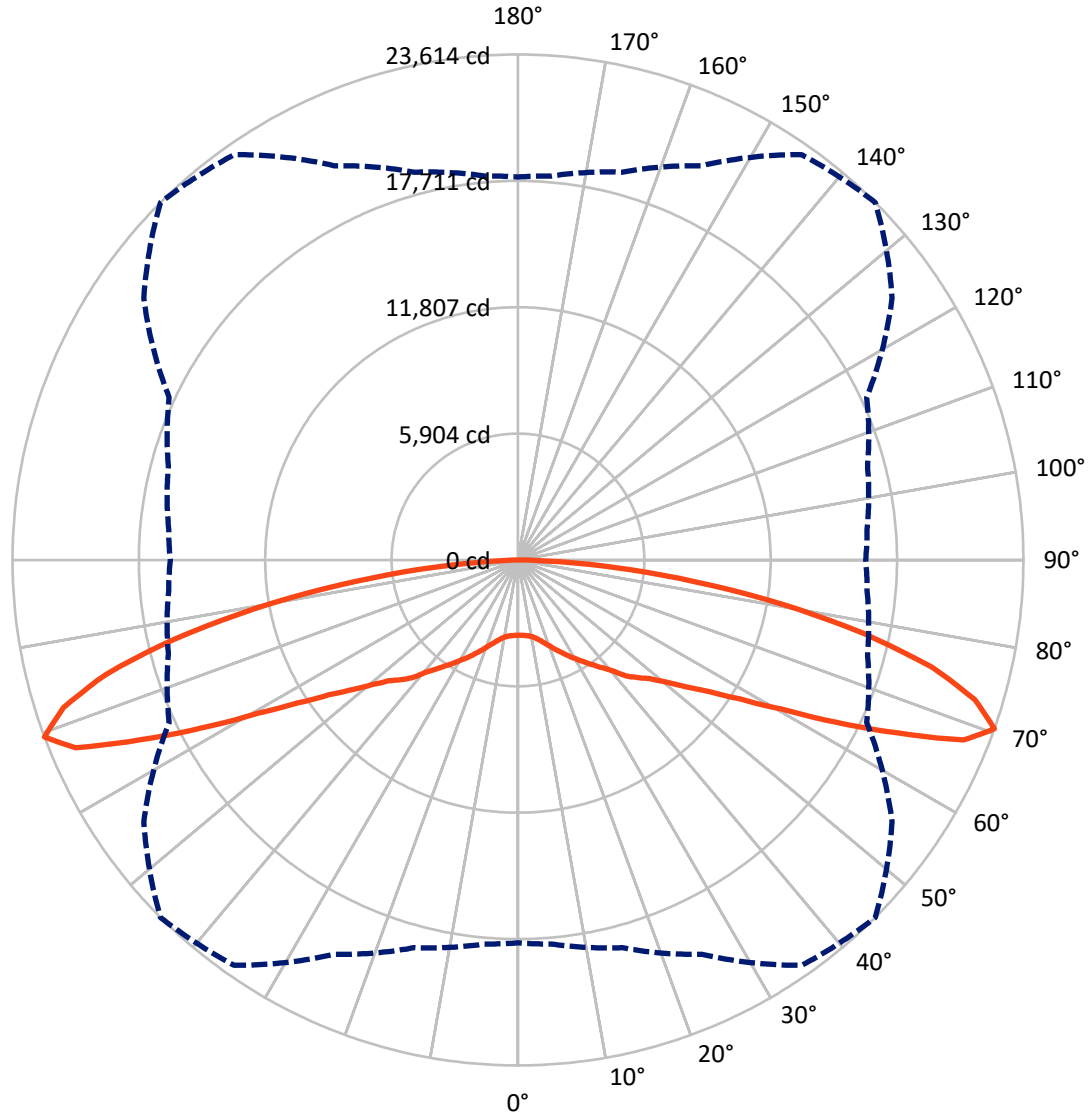
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 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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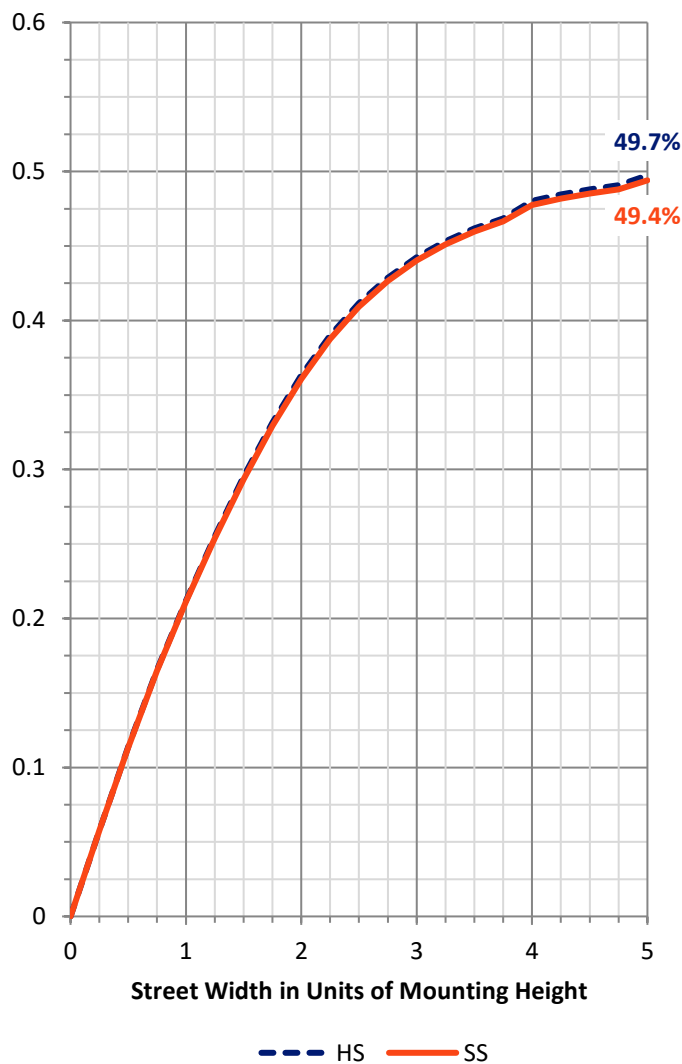
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30762.5	0.0	30762.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30762.5	0.0	30762.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	61525.0	0.0	61525.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.8	0.6
10°-20°	1113.1	1.8
20°-30°	2203.6	3.6
30°-40°	3812.0	6.2
40°-50°	6342.6	10.3
50°-60°	11062.5	18.0
60°-70°	18313.5	29.8
70°-80°	15348.1	24.9
80°-90°	2987.8	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°	61525.0	100.0
0°-180°	61525.0	100.0

Coefficient of Utilization



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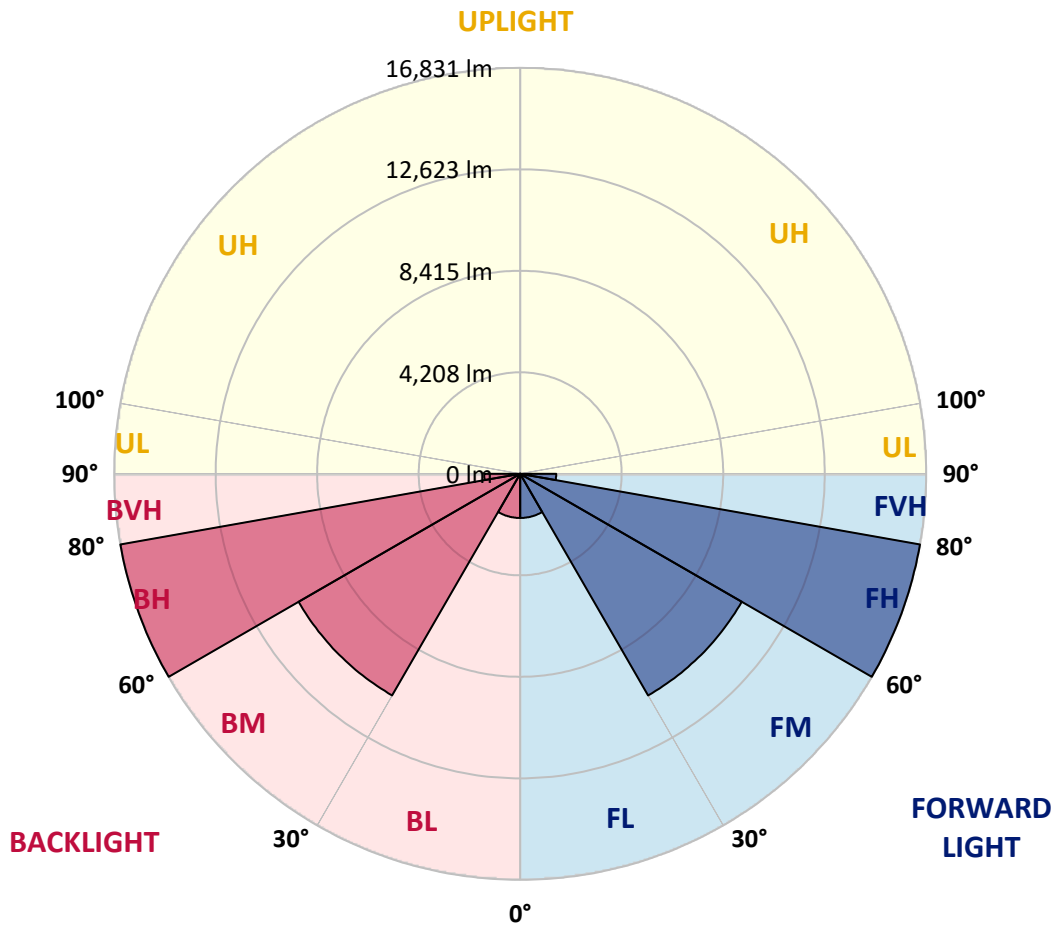
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1829.3	3.0			
FM (30°-60°)	10608.6	17.2			
FH (60°-80°)	16830.8	27.4			G5
FVH (80°-90°)	1493.9	2.4			G5
BL (0°-30°)	1829.3	3.0	B3/2500		
BM (30°-60°)	10608.6	17.2	B5		
BH (60°-80°)	16830.8	27.4	B5		G5
BVH (80°-90°)	1493.9	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°	3516.3	3516.3	3516.3	3516.3	3516.3	3516.3	3516.3	3516.3	3516.3	3516.3	3516.3
2.5°	3538.3	3527.3	3523.7	3520.0	3522.4	3521.2	3527.3	3529.8	3532.2	3543.2	3537.1
5°	3560.2	3551.7	3550.5	3545.6	3544.4	3544.4	3552.9	3554.1	3555.3	3562.6	3555.3
7.5°	3600.4	3591.9	3589.5	3587.0	3585.8	3580.9	3587.0	3584.6	3587.0	3590.7	3582.1
10°	3663.8	3654.0	3651.6	3645.5	3649.2	3641.8	3646.7	3640.6	3629.7	3632.1	3619.9
12.5°	3750.3	3741.8	3745.4	3744.2	3758.8	3755.2	3745.4	3733.2	3715.0	3702.8	3689.4
15°	3878.2	3864.8	3874.6	3884.3	3898.9	3905.0	3897.7	3864.8	3838.0	3818.5	3807.6
17.5°	4034.2	4012.2	4031.7	4051.2	4082.9	4089.0	4062.2	4022.0	3992.8	3984.2	3965.9
20°	4215.7	4212.1	4213.3	4245.0	4293.7	4302.2	4266.9	4219.4	4190.1	4191.4	4170.6
22.5°	4435.0	4415.5	4421.6	4453.3	4522.8	4545.9	4487.4	4435.0	4416.8	4421.6	4419.2
25°	4686.0	4667.8	4659.2	4673.8	4764.0	4804.2	4748.2	4687.2	4678.7	4689.7	4672.6
27.5°	4961.4	4944.3	4934.6	4941.9	5012.6	5088.1	5026.0	4974.8	4973.6	4989.4	4979.7
30°	5274.5	5248.9	5238.0	5246.5	5295.2	5368.3	5318.4	5287.9	5313.5	5324.5	5320.8
32.5°	5591.3	5579.1	5575.5	5573.0	5632.7	5674.2	5649.8	5655.9	5676.6	5726.6	5710.7
35°	5952.0	5916.6	5926.4	5933.7	6011.7	6015.3	6017.8	6028.7	6083.6	6154.2	6112.8
37.5°	6327.2	6318.7	6324.8	6304.1	6361.4	6384.5	6418.6	6455.2	6541.7	6623.3	6606.3
40°	6791.5	6775.6	6781.7	6757.3	6785.4	6803.6	6873.1	6952.3	7063.2	7150.9	7110.7
42.5°	7406.8	7366.5	7366.5	7373.9	7432.3	7412.8	7561.5	7583.4	7721.1	7795.4	7772.3
45°	8130.5	8115.9	8039.1	7910.0	7836.9	7835.6	7955.0	8132.9	8360.8	8515.5	8514.3
47.5°	9050.4	9005.3	8821.3	8510.6	8325.4	8280.4	8405.9	8751.9	9171.0	9412.3	9408.6
50°	10256.6	10199.4	9920.3	9437.9	9077.2	8966.3	9167.4	9615.7	10179.9	10501.5	10528.3
52.5°	11606.6	11611.5	11295.9	10566.1	10032.4	9832.6	10045.8	10686.7	11389.8	11830.8	11883.2
55°	13174.7	13137.0	12838.5	12011.1	11276.4	10847.6	11170.4	12019.7	12827.5	13163.8	13256.4
57.5°	14807.4	14660.0	14430.9	13657.2	12798.2	12250.0	12637.4	13468.4	14242.1	14670.9	14656.3
60°	16254.9	16157.4	16025.8	15409.3	14750.1	14123.9	14422.4	15125.4	15788.2	16047.8	16058.7
62.5°	17836.4	17754.8	17636.6	17299.1	16936.0	16703.3	16432.8	16758.1	17275.9	17559.8	17652.4
65°	19388.7	19359.4	19427.6	19376.5	19530.0	19495.9	18847.7	18643.0	18651.5	18571.1	18529.7
67.5°	19297.3	19286.3	19688.4	20490.1	22020.4	22454.2	20791.1	18939.1	18104.4	17892.4	17862.0
70°	17890.0	18008.2	18752.6	20322.0	23114.6	23614.1	21336.9	17975.3	16908.0	16376.7	16245.1
72.5°	15182.7	15414.2	16555.8	18867.2	22205.6	22320.2	19965.0	16525.4	14953.6	14320.0	14226.2
75°	11715.1	11744.3	12912.8	15850.4	19817.5	19961.3	17809.6	13860.7	12314.5	11526.2	11501.8
77.5°	7135.0	7550.5	9255.1	11884.4	15754.1	16502.2	14895.1	11040.1	9201.5	8503.3	8113.4
80°	3500.5	3690.6	4918.7	7514.0	11260.6	12514.4	11053.5	7635.8	5675.4	4789.6	4692.1
82.5°	1593.7	1694.8	2327.2	3928.2	6795.1	8348.6	6821.9	4372.9	3030.2	2369.8	2347.9
85°	619.0	615.3	941.8	1648.5	3253.2	4622.7	3454.2	2085.9	1386.6	1030.8	972.3
87.5°	180.3	192.5	276.6	541.0	963.8	1298.8	1064.9	721.3	426.4	274.1	252.2
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)