

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: P721894

Luminaire Tested: **CST-CA8-430-722-U-T5**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721894
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-CA8-430-722-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54828 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

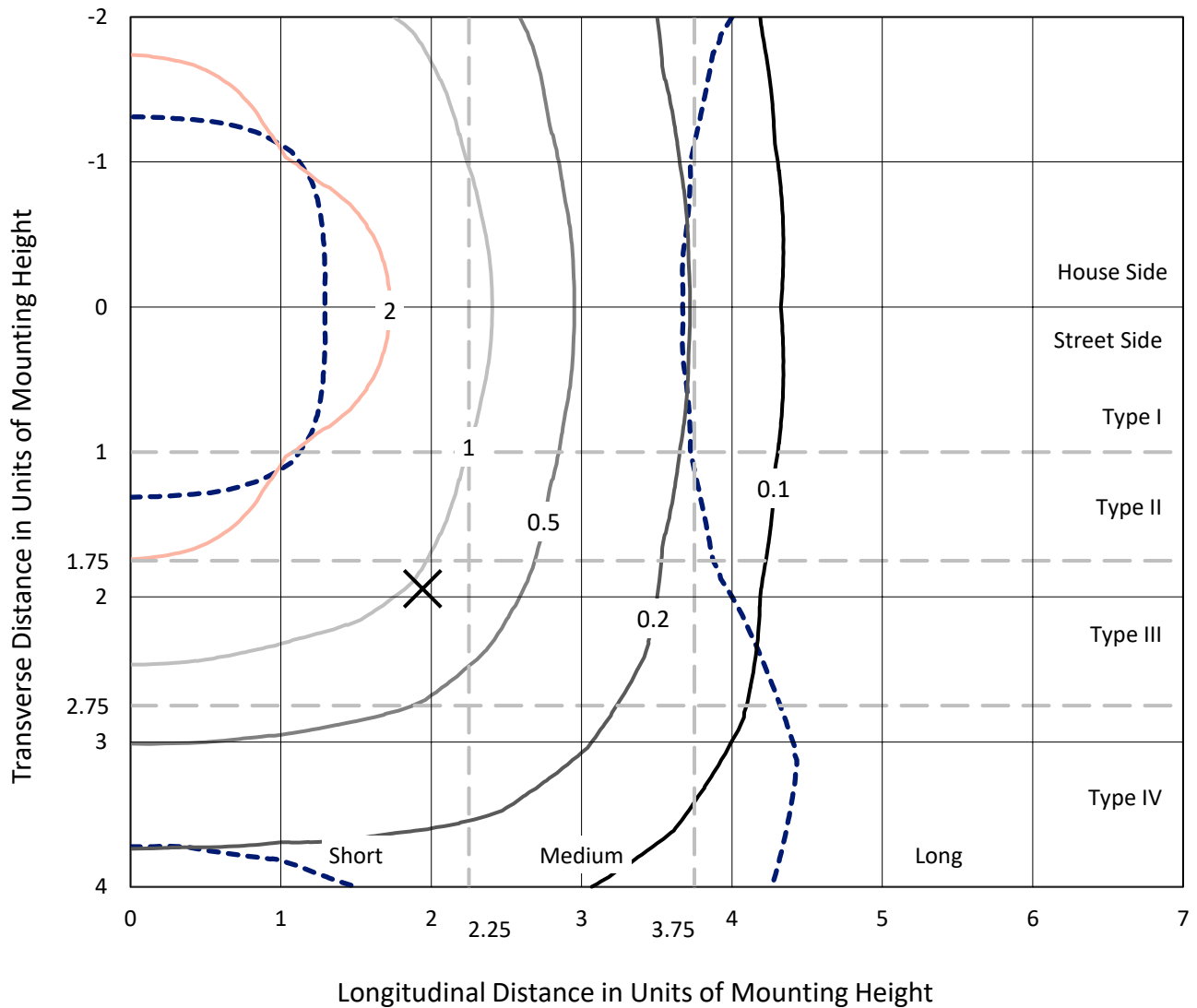
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

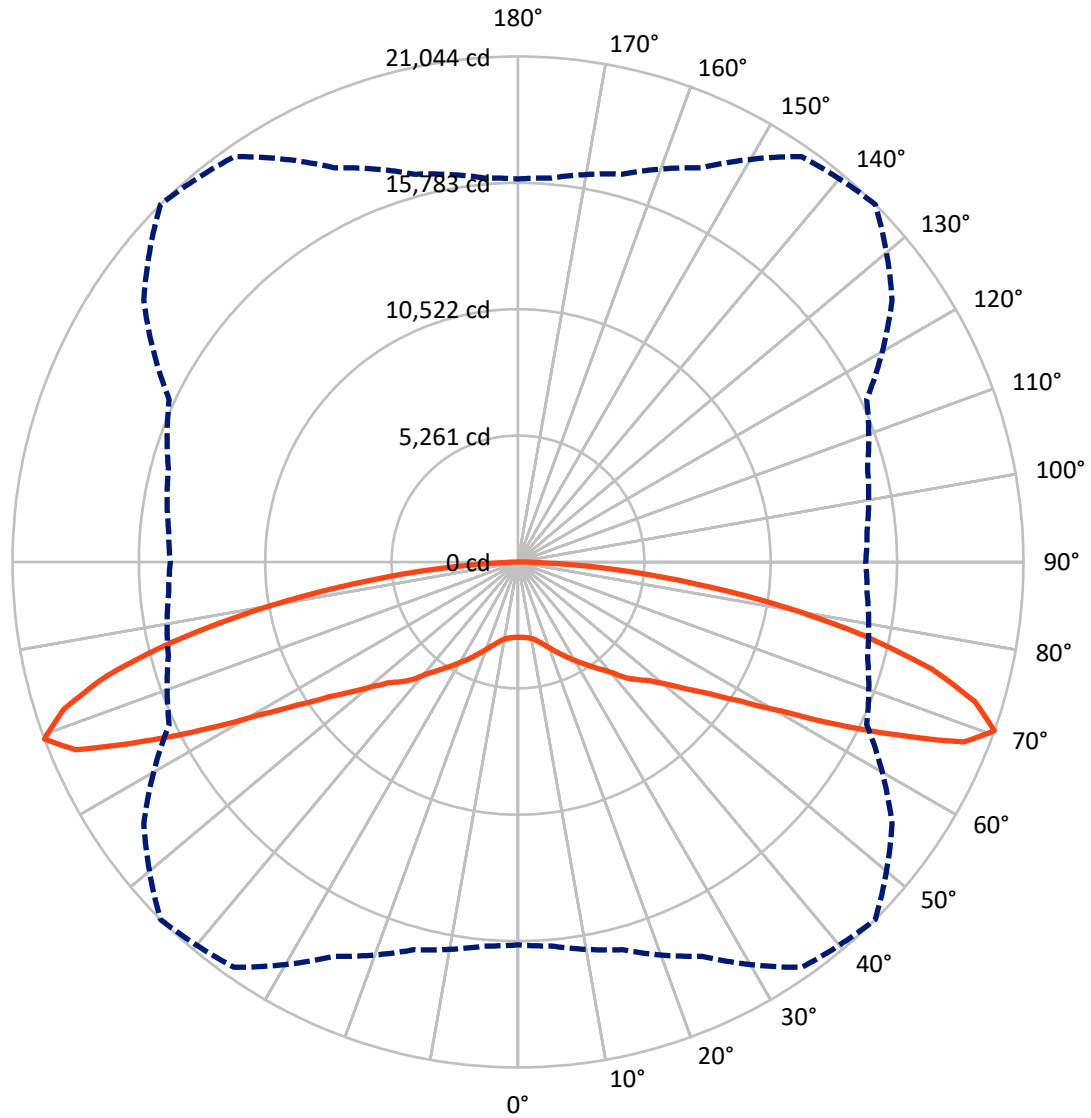
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.5 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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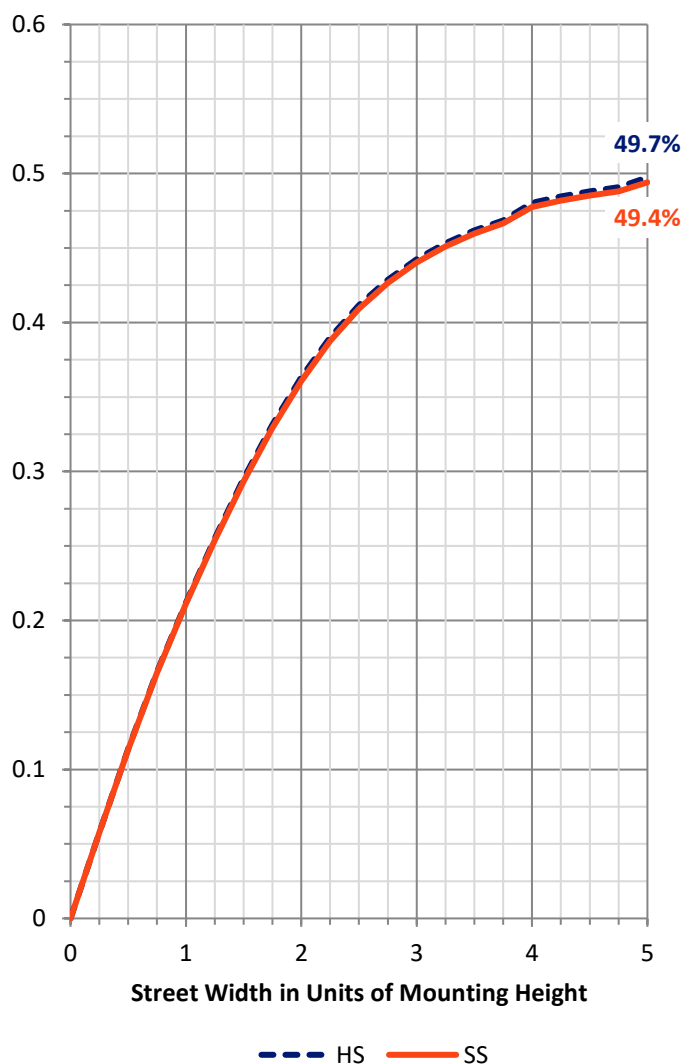
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27414.0	0.0	27414.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27414.0	0.0	27414.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	54828.0	0.0	54828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.6	0.6
10°-20°	992.0	1.8
20°-30°	1963.7	3.6
30°-40°	3397.1	6.2
40°-50°	5652.2	10.3
50°-60°	9858.4	18.0
60°-70°	16320.0	29.8
70°-80°	13677.5	24.9
80°-90°	2662.6	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°	54828.0	100.0
0°-180°	54828.0	100.0

Coefficient of Utilization



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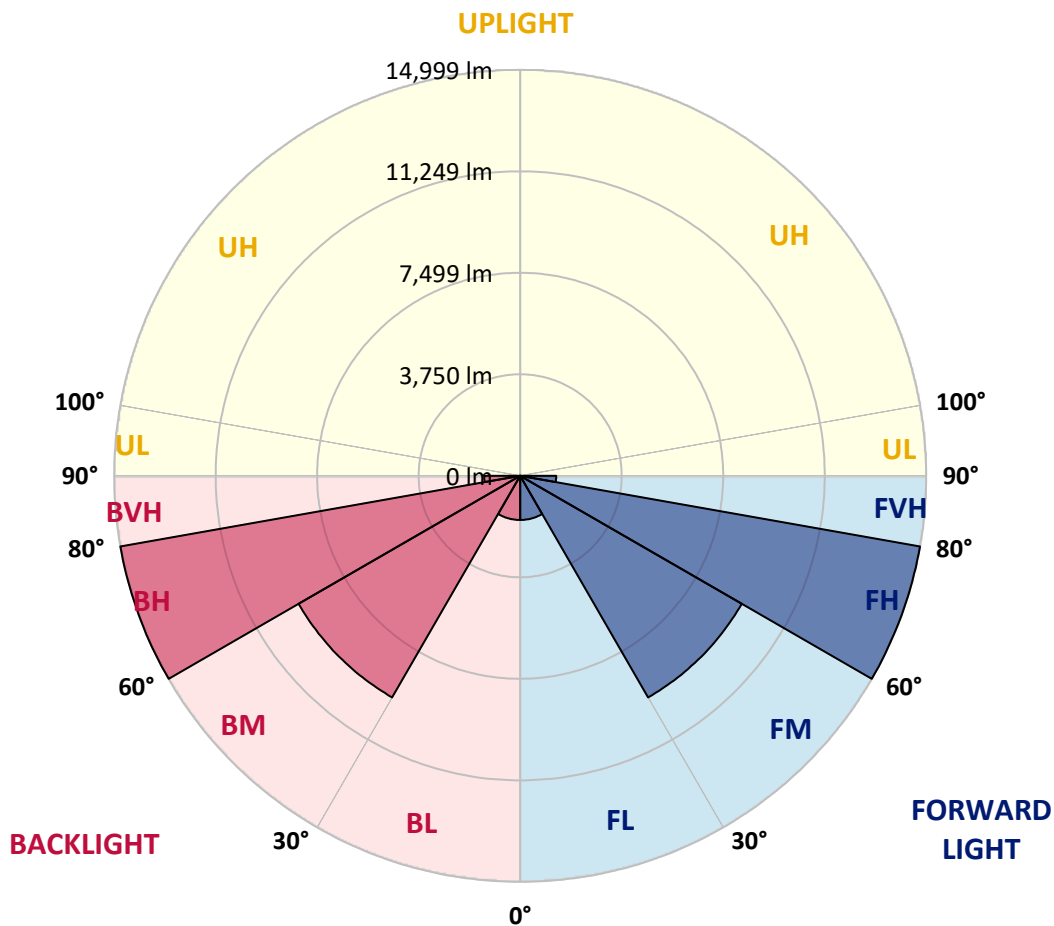
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1630.1	3.0			
FM (30°-60°)	9453.8	17.2			
FH (60°-80°)	14998.8	27.4			G5
FVH (80°-90°)	1331.3	2.4			G5
BL (0°-30°)	1630.1	3.0	B3/2500		
BM (30°-60°)	9453.8	17.2	B5		
BH (60°-80°)	14998.8	27.4	B5		G5
BVH (80°-90°)	1331.3	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°	3133.6	3133.6	3133.6	3133.6	3133.6	3133.6	3133.6	3133.6	3133.6	3133.6	3133.6
2.5°	3153.1	3143.4	3140.1	3136.9	3139.0	3137.9	3143.4	3145.5	3147.7	3157.5	3152.1
5°	3172.7	3165.1	3164.0	3159.7	3158.6	3158.6	3166.2	3167.3	3168.3	3174.9	3168.3
7.5°	3208.5	3200.9	3198.7	3196.6	3195.5	3191.1	3196.6	3194.4	3196.6	3199.8	3192.2
10°	3265.0	3256.3	3254.1	3248.7	3251.9	3245.4	3249.8	3244.3	3234.6	3236.7	3225.9
12.5°	3342.1	3334.5	3337.7	3336.6	3349.7	3346.4	3337.7	3326.9	3310.6	3299.7	3287.8
15°	3456.1	3444.1	3452.8	3461.5	3474.5	3480.0	3473.4	3444.1	3420.2	3402.9	3393.1
17.5°	3595.1	3575.5	3592.9	3610.3	3638.5	3643.9	3620.0	3584.2	3558.1	3550.5	3534.3
20°	3756.8	3753.6	3754.7	3782.9	3826.3	3833.9	3802.4	3760.1	3734.0	3735.1	3716.7
22.5°	3952.3	3934.9	3940.3	3968.6	4030.5	4051.1	3999.0	3952.3	3936.0	3940.3	3938.2
25°	4176.0	4159.7	4152.1	4165.1	4245.4	4281.3	4231.3	4177.0	4169.4	4179.2	4164.0
27.5°	4421.3	4406.1	4397.5	4404.0	4466.9	4534.3	4478.9	4433.3	4432.2	4446.3	4437.6
30°	4700.4	4677.6	4667.8	4675.4	4718.9	4784.0	4739.5	4712.3	4735.1	4744.9	4741.7
32.5°	4982.7	4971.8	4968.6	4966.4	5019.6	5056.5	5034.8	5040.2	5058.7	5103.2	5089.1
35°	5304.1	5272.6	5281.3	5287.8	5357.3	5360.6	5362.7	5372.5	5421.4	5484.3	5447.4
37.5°	5638.5	5630.9	5636.3	5617.9	5668.9	5689.5	5719.9	5752.5	5829.6	5902.4	5887.2
40°	6052.2	6038.1	6043.5	6021.8	6046.8	6063.1	6125.0	6195.5	6294.3	6372.5	6336.7
42.5°	6600.5	6564.7	6564.7	6571.2	6623.3	6606.0	6738.4	6758.0	6880.7	6946.9	6926.3
45°	7245.5	7232.5	7164.1	7049.0	6983.8	6982.7	7089.1	7247.7	7450.7	7588.6	7587.5
47.5°	8065.3	8025.1	7861.1	7584.3	7419.2	7379.0	7490.9	7799.2	8172.8	8387.7	8384.5
50°	9140.2	9089.2	8840.5	8410.5	8089.1	7990.3	8169.5	8569.1	9071.8	9358.4	9382.3
52.5°	10343.3	10347.6	10066.4	9416.0	8940.4	8762.3	8952.4	9523.5	10150.0	10543.0	10589.7
55°	11740.7	11707.0	11441.0	10703.7	10049.0	9666.8	9954.5	10711.3	11431.2	11730.9	11813.4
57.5°	13195.6	13064.2	12860.1	12170.6	11405.2	10916.5	11261.8	12002.3	12691.8	13074.0	13061.0
60°	14485.5	14398.7	14281.4	13732.0	13144.6	12586.5	12852.5	13479.0	14069.7	14301.0	14310.7
62.5°	15894.9	15822.2	15716.8	15416.1	15092.5	14885.1	14644.1	14934.0	15395.4	15648.4	15730.9
65°	17278.2	17252.1	17312.9	17267.3	17404.2	17373.8	16796.1	16613.7	16621.3	16549.6	16512.7
67.5°	17196.8	17187.0	17545.3	18259.8	19623.5	20010.1	18527.9	16877.5	16133.8	15944.8	15917.7
70°	15942.7	16048.0	16711.4	18109.9	20598.6	21043.7	19014.4	16018.7	15067.5	14594.1	14476.9
72.5°	13530.0	13736.3	14753.7	16813.5	19788.6	19890.6	17791.8	14726.6	13325.9	12761.3	12677.7
75°	10439.9	10465.9	11507.2	14125.1	17660.4	17788.5	15871.0	12352.0	10974.1	10271.6	10249.9
77.5°	6358.4	6728.7	8247.7	10590.8	14039.3	14706.0	13273.8	9838.4	8199.9	7577.7	7230.3
80°	3119.5	3288.9	4383.3	6696.1	10034.9	11152.2	9850.3	6804.7	5057.6	4268.2	4181.4
82.5°	1420.2	1510.3	2073.9	3500.6	6055.5	7439.8	6079.3	3896.9	2700.4	2111.9	2092.3
85°	551.6	548.3	839.3	1469.1	2899.1	4119.5	3078.2	1858.9	1235.6	918.6	866.5
87.5°	160.7	171.6	246.5	482.1	858.9	1157.5	949.0	642.8	380.0	244.3	224.8
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)