

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: P721864

Luminaire Tested: **CST-CA8-400-740-U-T5**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721864
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-CA8-400-740-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62660 lumens
Efficiency: N/A
Efficacy: 156.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

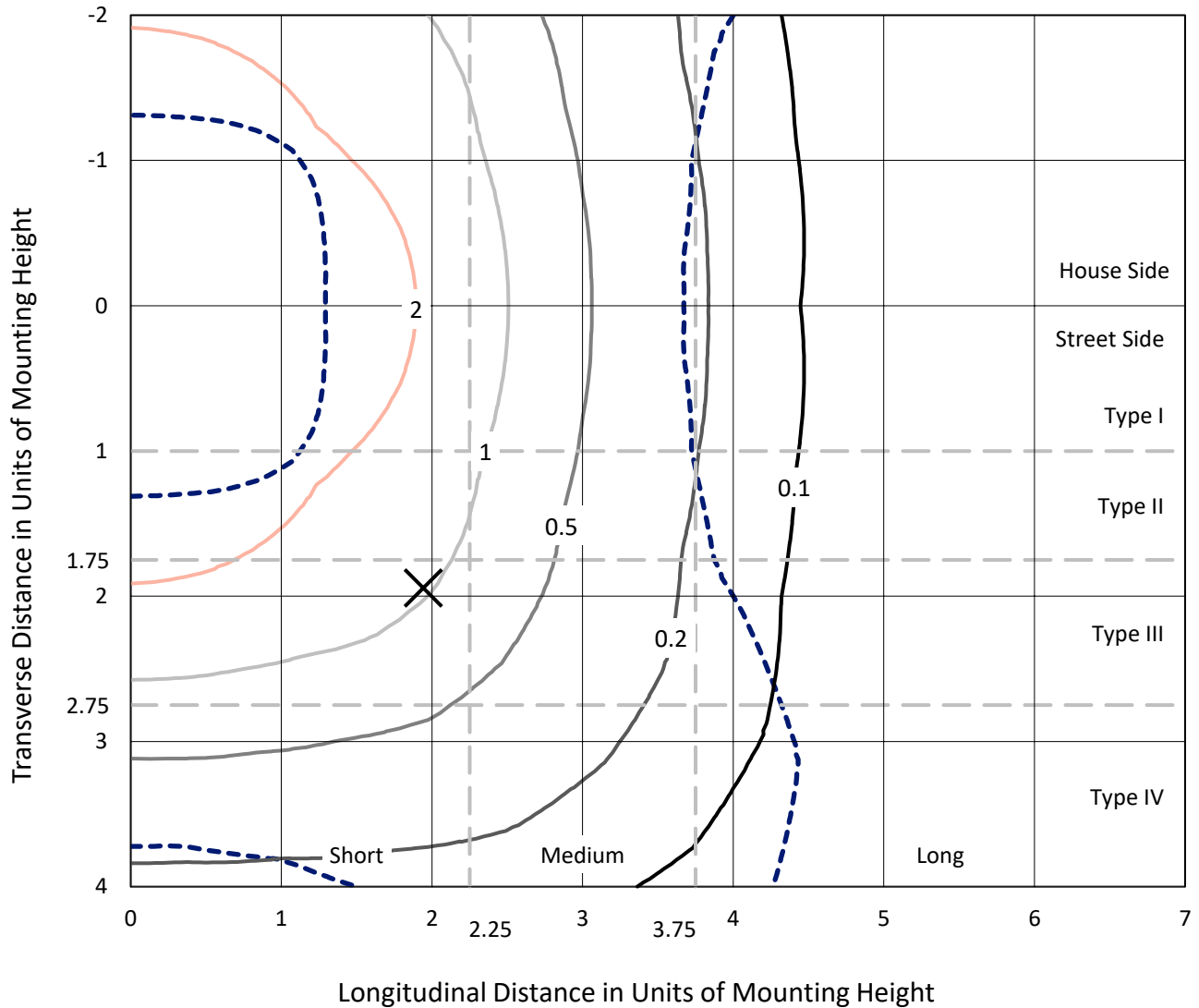
Input Watts (W): 400.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

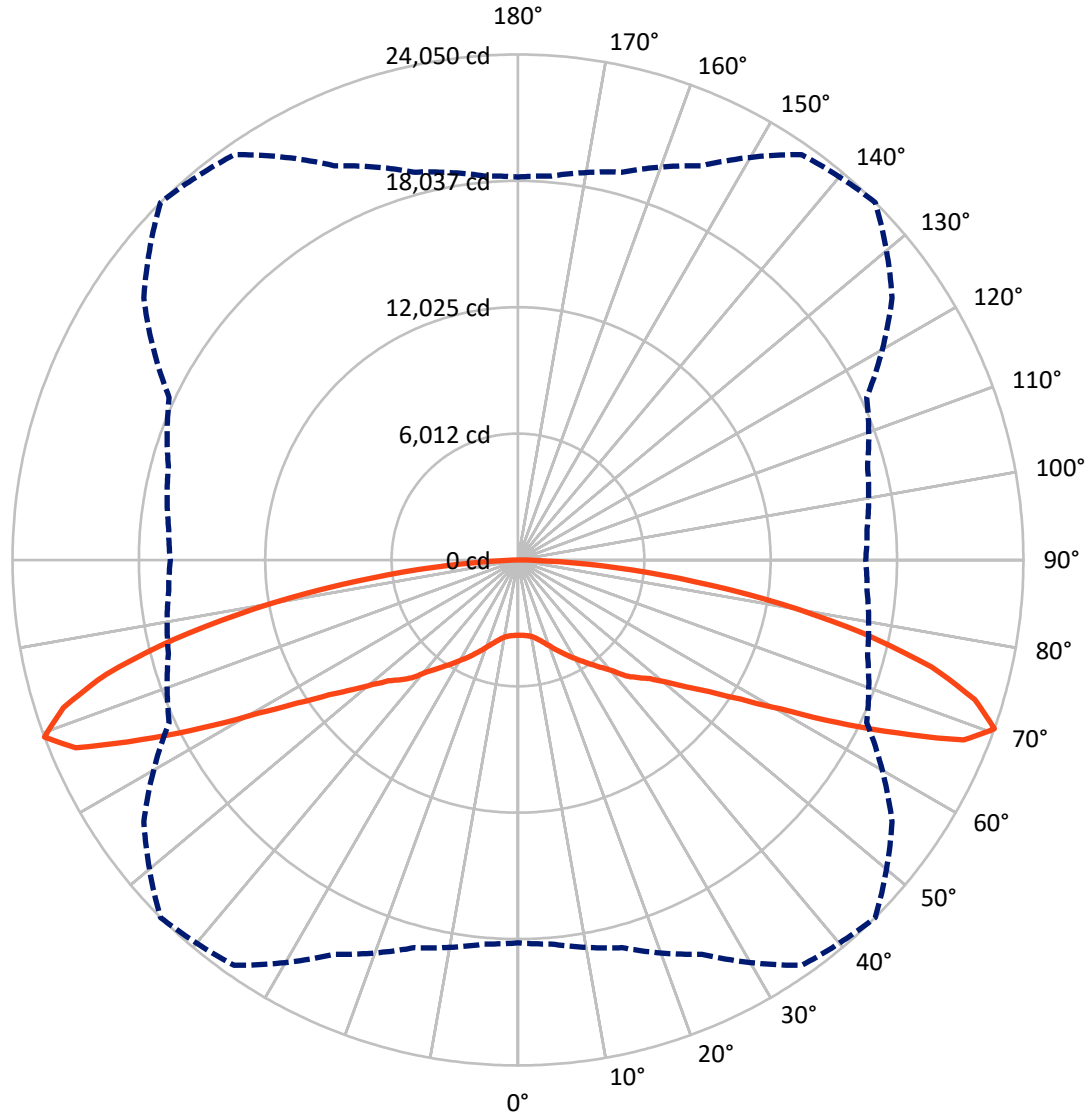
✕ Max cd
 - - - 1/2 Max cd



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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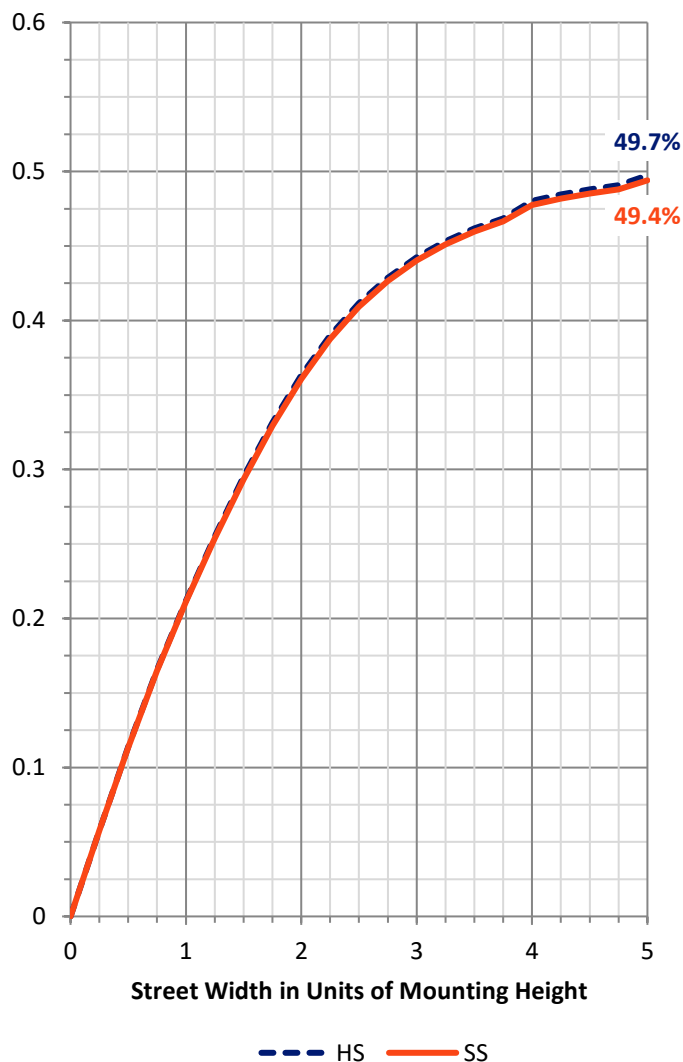
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31330.0	0.0	31330.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	31330.0	0.0	31330.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	62660.0	0.0	62660.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.1	0.6
10°-20°	1133.7	1.8
20°-30°	2244.2	3.6
30°-40°	3882.3	6.2
40°-50°	6459.6	10.3
50°-60°	11266.6	18.0
60°-70°	18651.3	29.8
70°-80°	15631.3	24.9
80°-90°	3042.9	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°	62660.0	100.0
0°-180°	62660.0	100.0

Coefficient of Utilization



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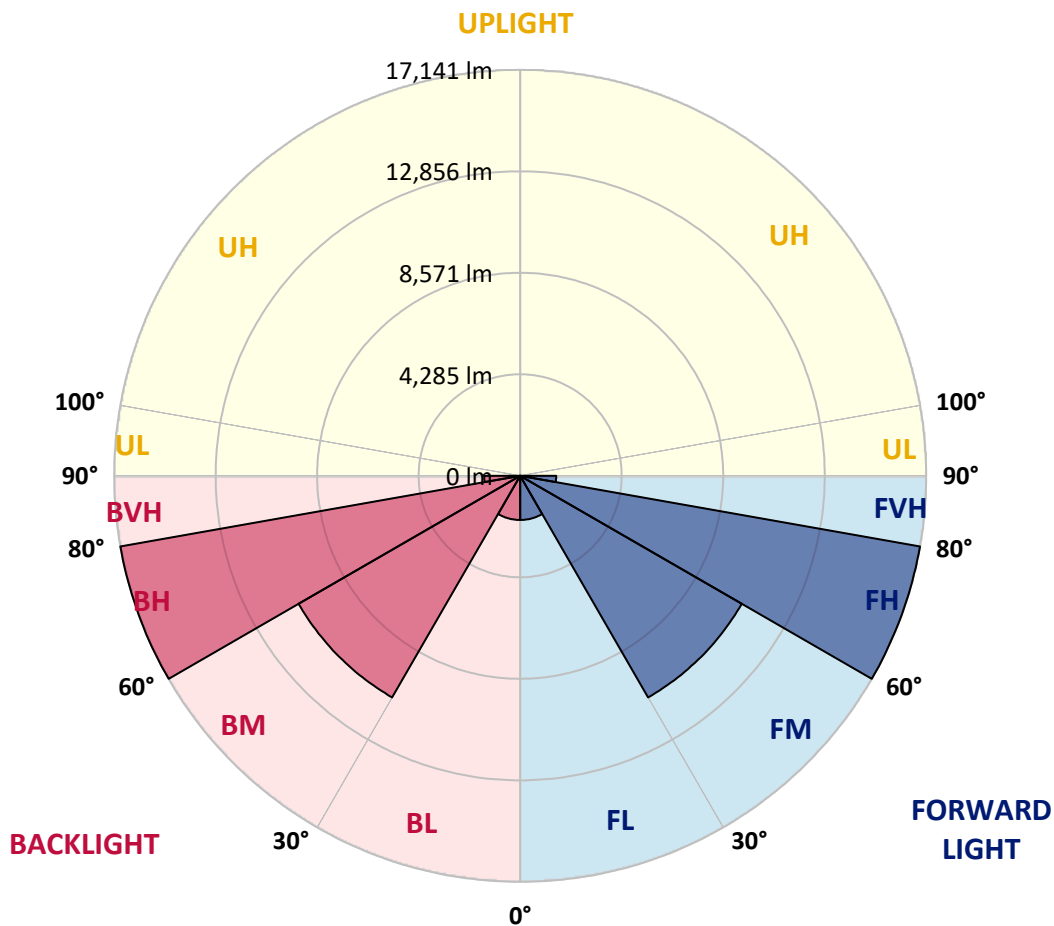
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1863.0	3.0			
FM (30°-60°)	10804.3	17.2			
FH (60°-80°)	17141.3	27.4			G5
FVH (80°-90°)	1521.4	2.4			G5
BL (0°-30°)	1863.0	3.0	B3/2500		
BM (30°-60°)	10804.3	17.2	B5		
BH (60°-80°)	17141.3	27.4	B5		G5
BVH (80°-90°)	1521.4	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°	3581.2	3581.2	3581.2	3581.2	3581.2	3581.2	3581.2	3581.2	3581.2	3581.2	3581.2
2.5°	3603.6	3592.4	3588.7	3584.9	3587.4	3586.2	3592.4	3594.9	3597.3	3608.5	3602.3
5°	3625.9	3617.2	3616.0	3611.0	3609.8	3609.8	3618.4	3619.7	3620.9	3628.4	3620.9
7.5°	3666.8	3658.2	3655.7	3653.2	3651.9	3647.0	3653.2	3650.7	3653.2	3656.9	3648.2
10°	3731.4	3721.4	3719.0	3712.8	3716.5	3709.0	3714.0	3707.8	3696.6	3699.1	3686.7
12.5°	3819.5	3810.8	3814.5	3813.3	3828.2	3824.4	3814.5	3802.1	3783.5	3771.1	3757.4
15°	3949.8	3936.1	3946.0	3956.0	3970.9	3977.1	3969.6	3936.1	3908.8	3889.0	3877.8
17.5°	4108.6	4086.3	4106.1	4126.0	4158.2	4164.4	4137.1	4096.2	4066.4	4057.7	4039.1
20°	4293.5	4289.8	4291.0	4323.3	4372.9	4381.6	4345.6	4297.2	4267.4	4268.7	4247.6
22.5°	4516.9	4497.0	4503.2	4535.5	4606.2	4629.8	4570.2	4516.9	4498.2	4503.2	4500.7
25°	4772.5	4753.9	4745.2	4760.1	4851.9	4892.8	4835.8	4773.7	4765.0	4776.2	4758.8
27.5°	5052.9	5035.5	5025.6	5033.1	5105.0	5182.0	5118.7	5066.6	5065.3	5081.5	5071.5
30°	5371.8	5345.8	5334.6	5343.3	5392.9	5467.4	5416.5	5385.5	5411.5	5422.7	5419.0
32.5°	5694.5	5682.1	5678.3	5675.8	5736.6	5778.8	5754.0	5760.2	5781.3	5832.2	5816.1
35°	6061.8	6025.8	6035.7	6043.2	6122.6	6126.3	6128.8	6139.9	6195.8	6267.8	6225.6
37.5°	6444.0	6435.3	6441.5	6420.4	6478.7	6502.3	6537.0	6574.3	6662.4	6745.5	6728.1
40°	6916.7	6900.6	6906.8	6882.0	6910.5	6929.1	6999.9	7080.5	7193.5	7282.8	7241.9
42.5°	7543.4	7502.4	7502.4	7509.9	7569.4	7549.6	7701.0	7723.3	7863.5	7939.2	7915.7
45°	8280.5	8265.6	8187.4	8055.9	7981.4	7980.2	8101.8	8283.0	8515.0	8672.6	8671.4
47.5°	9217.4	9171.4	8984.1	8667.6	8479.0	8433.1	8560.9	8913.3	9340.2	9585.9	9582.2
50°	10445.8	10387.5	10103.4	9612.0	9244.7	9131.7	9336.5	9793.1	10367.7	10695.3	10722.6
52.5°	11820.7	11825.7	11504.3	10761.0	10217.5	10014.0	10231.2	10883.9	11599.9	12049.1	12102.4
55°	13417.8	13379.3	13075.3	12232.7	11484.5	11047.7	11376.5	12241.4	13064.1	13406.6	13500.9
57.5°	15080.6	14930.4	14697.1	13909.2	13034.3	12475.9	12870.5	13716.8	14504.8	14941.6	14926.7
60°	16554.8	16455.5	16321.5	15693.6	15022.3	14384.4	14688.5	15404.4	16079.5	16343.8	16355.0
62.5°	18165.4	18082.3	17961.9	17618.2	17248.4	17011.4	16735.9	17067.2	17594.6	17883.8	17978.1
65°	19746.3	19716.6	19786.0	19733.9	19890.3	19855.5	19195.4	18986.9	18995.6	18913.7	18871.5
67.5°	19653.3	19642.1	20051.6	20868.1	22426.7	22868.4	21174.6	19288.4	18438.4	18222.5	18191.5
70°	18220.0	18340.4	19098.6	20696.9	23541.0	24049.8	21730.5	18306.9	17219.9	16678.8	16544.8
72.5°	15462.8	15698.5	16861.3	19215.2	22615.3	22731.9	20333.3	16830.2	15229.5	14584.2	14488.7
75°	11931.2	11961.0	13151.0	16142.8	20183.1	20329.6	18138.1	14116.4	12541.7	11738.9	11714.0
77.5°	7266.7	7689.8	9425.8	12103.7	16044.8	16806.7	15169.9	11243.7	9371.2	8660.2	8263.1
80°	3565.1	3758.7	5009.5	7652.6	11468.3	12745.2	11257.4	7776.7	5780.1	4878.0	4778.7
82.5°	1623.1	1726.1	2370.1	4000.6	6920.5	8502.6	6947.8	4453.6	3086.1	2413.5	2391.2
85°	630.4	626.7	959.2	1678.9	3313.2	4707.9	3517.9	2124.4	1412.1	1049.8	990.2
87.5°	183.7	196.1	281.7	551.0	981.5	1322.8	1084.5	734.6	434.3	279.2	256.9
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)