

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: P721924

Luminaire Tested: **CST-CA8-430-740-U-T5**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721924
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-CA8-430-740-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: 67273 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

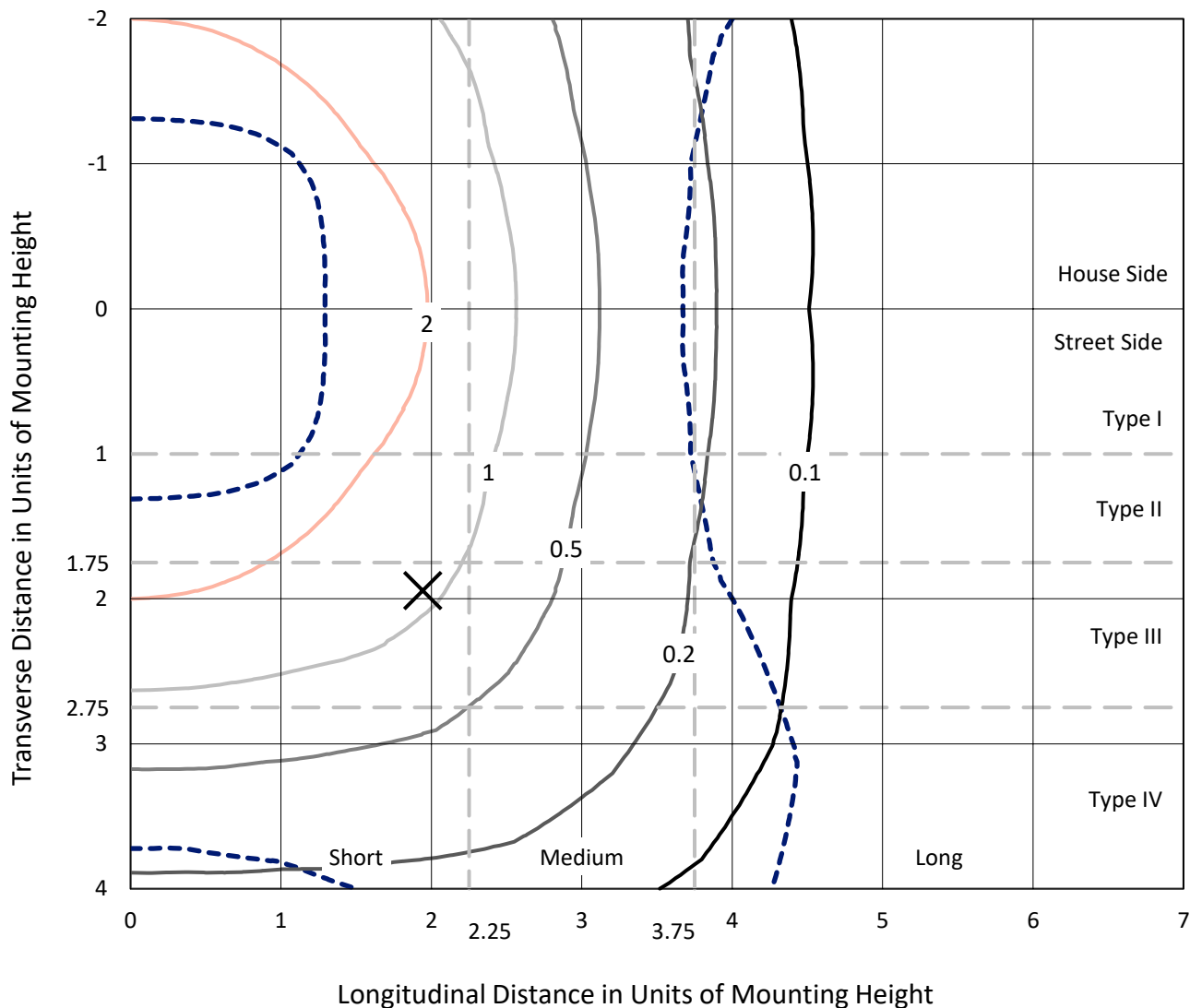
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

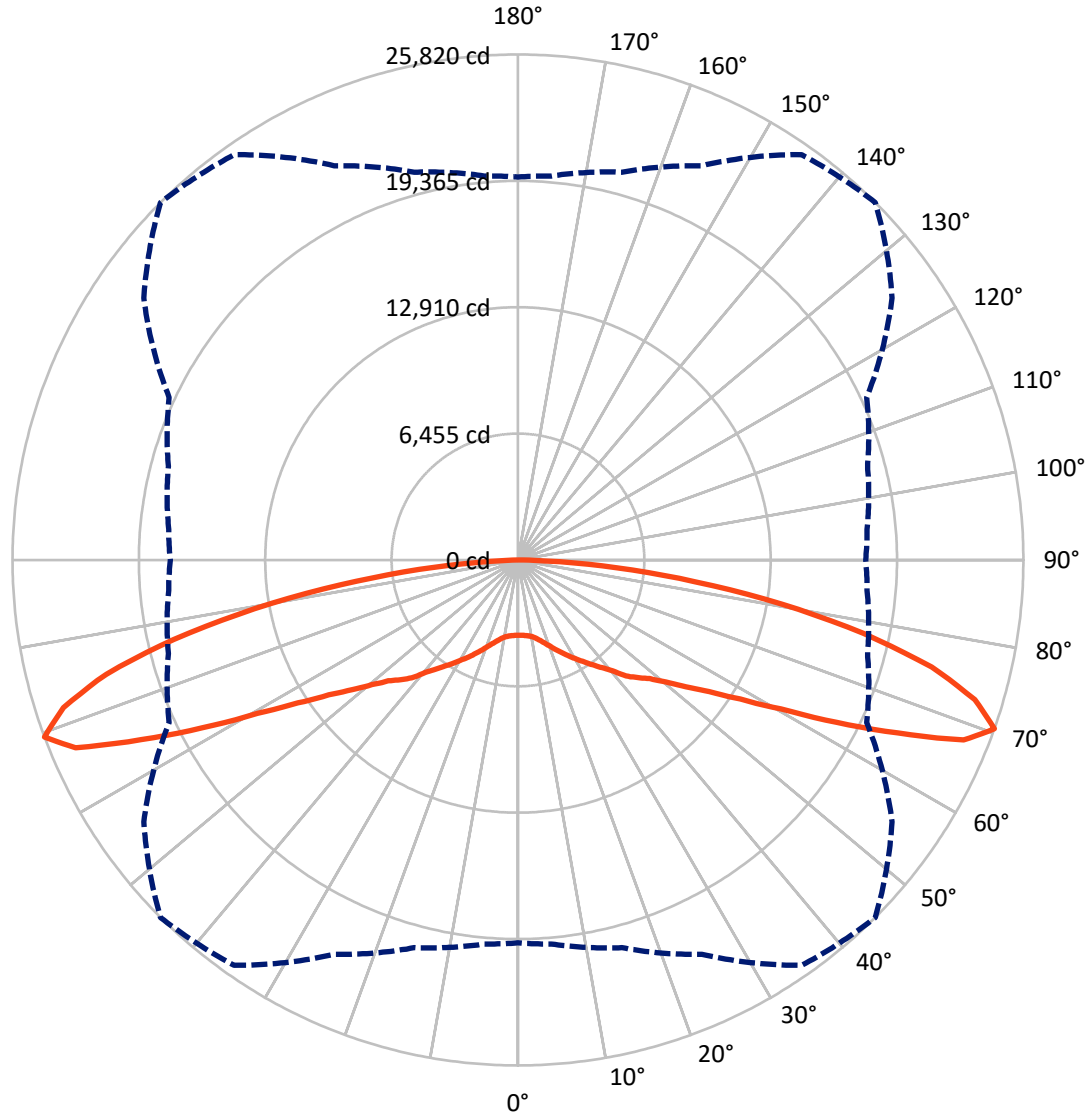
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 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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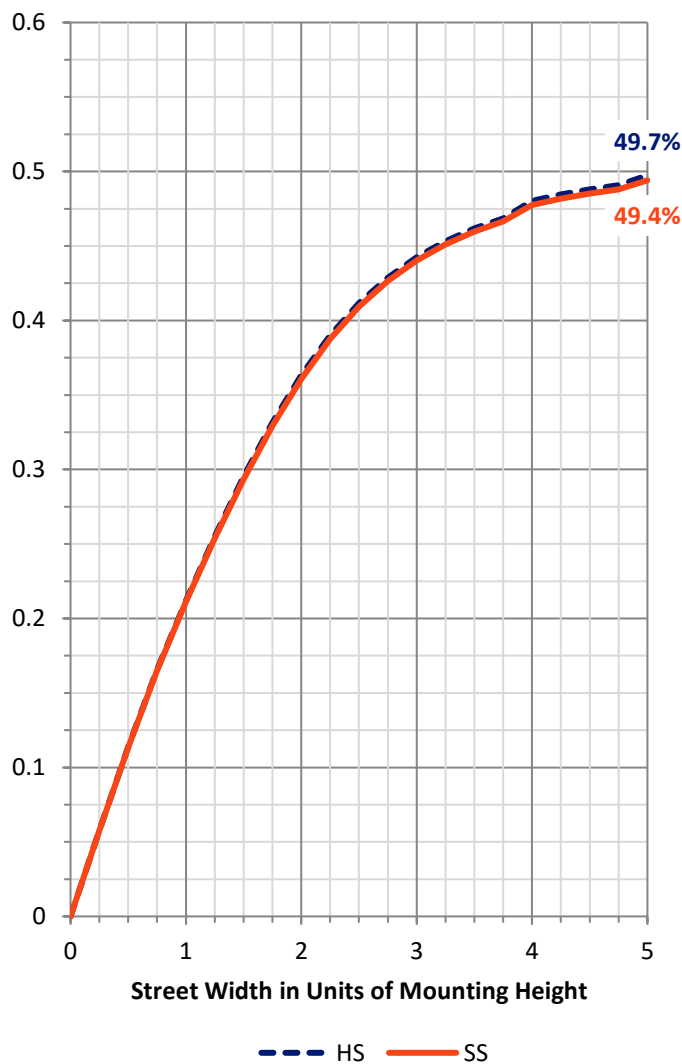
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33636.5	0.0	33636.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33636.5	0.0	33636.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	67273.0	0.0	67273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.7	0.6
10°-20°	1217.1	1.8
20°-30°	2409.4	3.6
30°-40°	4168.2	6.2
40°-50°	6935.1	10.3
50°-60°	12096.0	18.0
60°-70°	20024.4	29.8
70°-80°	16782.0	24.9
80°-90°	3266.9	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°	67273.0	100.0
0°-180°	67273.0	100.0

Coefficient of Utilization



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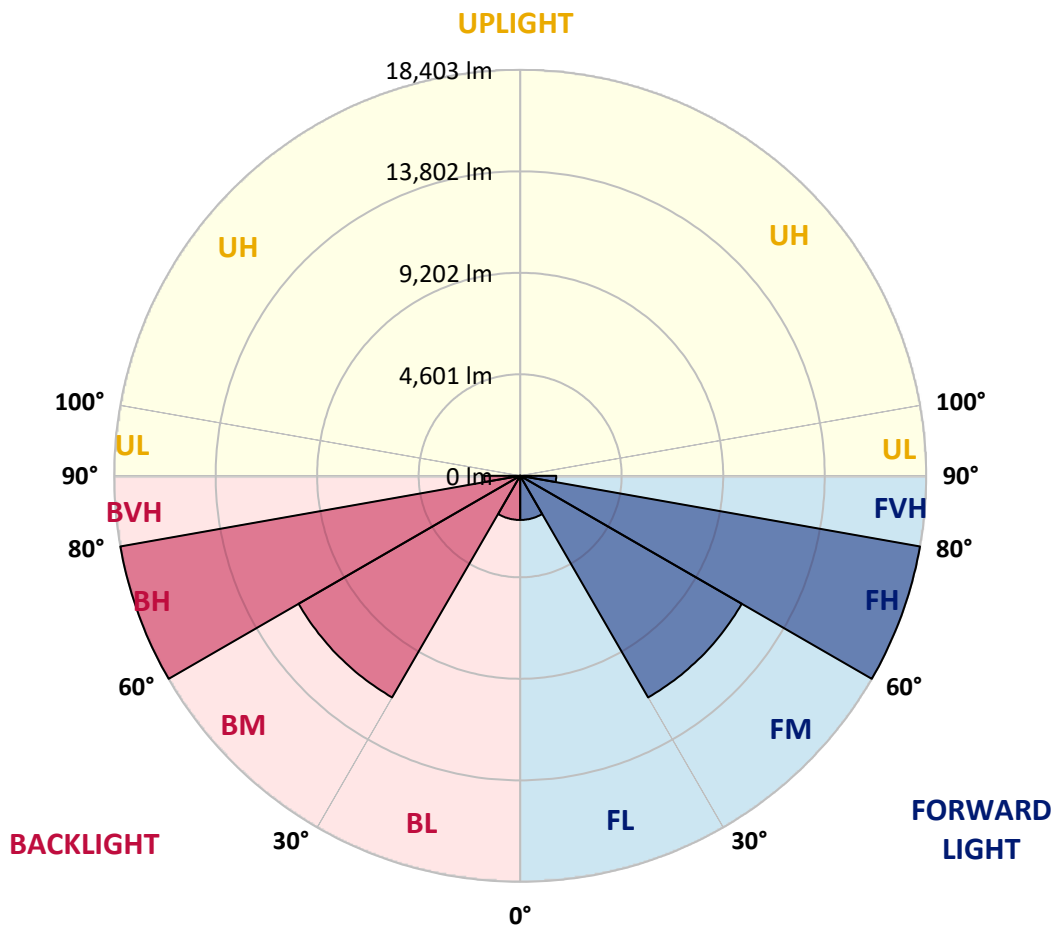
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2000.2	3.0			
FM (30°-60°)	11599.7	17.2			
FH (60°-80°)	18403.2	27.4			G5
FVH (80°-90°)	1633.5	2.4			G5
BL (0°-30°)	2000.2	3.0	B3/2500		
BM (30°-60°)	11599.7	17.2	B5		
BH (60°-80°)	18403.2	27.4	B5		G5
BVH (80°-90°)	1633.5	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°	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9
2.5°	3868.8	3856.9	3852.9	3848.9	3851.5	3850.2	3856.9	3859.5	3862.2	3874.2	3867.5
5°	3892.8	3883.5	3882.2	3876.8	3875.5	3875.5	3884.8	3886.2	3887.5	3895.5	3887.5
7.5°	3936.8	3927.5	3924.8	3922.1	3920.8	3915.5	3922.1	3919.5	3922.1	3926.1	3916.8
10°	4006.1	3995.4	3992.7	3986.1	3990.1	3982.1	3987.4	3980.8	3968.8	3971.4	3958.1
12.5°	4100.7	4091.3	4095.3	4094.0	4110.0	4106.0	4095.3	4082.0	4062.0	4048.7	4034.0
15°	4240.5	4225.9	4236.5	4247.2	4263.2	4269.9	4261.9	4225.9	4196.6	4175.3	4163.3
17.5°	4411.1	4387.1	4408.4	4429.7	4464.4	4471.0	4441.7	4397.7	4365.8	4356.4	4336.5
20°	4609.6	4605.6	4606.9	4641.5	4694.8	4704.2	4665.5	4613.6	4581.6	4582.9	4560.3
22.5°	4849.4	4828.1	4834.7	4869.4	4945.3	4970.6	4906.7	4849.4	4829.4	4834.7	4832.1
25°	5123.8	5103.8	5094.5	5110.5	5209.1	5253.1	5191.8	5125.2	5115.8	5127.8	5109.2
27.5°	5424.9	5406.3	5395.6	5403.6	5480.9	5563.5	5495.5	5439.6	5438.2	5455.6	5444.9
30°	5767.3	5739.3	5727.3	5736.7	5789.9	5869.9	5815.3	5782.0	5809.9	5821.9	5817.9
32.5°	6113.7	6100.4	6096.4	6093.7	6159.0	6204.3	6177.6	6184.3	6206.9	6261.6	6244.2
35°	6508.0	6469.4	6480.1	6488.0	6573.3	6577.3	6580.0	6592.0	6651.9	6729.2	6683.9
37.5°	6918.4	6909.0	6915.7	6893.0	6955.7	6981.0	7018.3	7058.2	7152.8	7242.1	7223.4
40°	7425.9	7408.6	7415.3	7388.6	7419.3	7439.3	7515.2	7601.8	7723.0	7819.0	7775.0
42.5°	8098.7	8054.8	8054.8	8062.8	8126.7	8105.4	8267.9	8291.9	8442.5	8523.7	8498.4
45°	8890.1	8874.1	8790.2	8648.9	8569.0	8567.7	8698.2	8892.8	9141.9	9311.1	9309.7
47.5°	9895.9	9846.6	9645.5	9305.7	9103.2	9054.0	9191.2	9569.5	10027.8	10291.6	10287.6
50°	11214.9	11152.2	10847.2	10319.6	9925.2	9804.0	10023.8	10514.1	11130.9	11482.6	11511.9
52.5°	12691.0	12696.3	12351.3	11553.2	10969.7	10751.2	10984.4	11685.1	12453.8	12936.1	12993.4
55°	14405.6	14364.3	14037.9	13133.3	12329.9	11861.0	12214.0	13142.6	14025.9	14393.6	14494.9
57.5°	16190.8	16029.6	15779.1	14933.2	13993.9	13394.4	13818.1	14726.7	15572.6	16041.6	16025.6
60°	17773.5	17666.9	17523.0	16848.9	16128.2	15443.4	15769.8	16538.5	17263.3	17547.0	17559.0
62.5°	19502.8	19413.5	19284.3	18915.2	18518.2	18263.8	17968.0	18323.7	18889.9	19200.3	19301.6
65°	21200.1	21168.1	21242.7	21186.7	21354.6	21317.3	20608.5	20384.7	20394.0	20306.1	20260.8
67.5°	21100.1	21088.1	21527.8	22404.4	24077.7	24552.0	22733.5	20708.5	19795.9	19564.1	19530.7
70°	19561.4	19690.6	20504.6	22220.6	25274.1	25820.3	23330.3	19654.6	18487.6	17906.7	17762.9
72.5°	16601.1	16854.3	18102.6	20629.8	24280.2	24405.4	21830.2	18069.3	16350.7	15657.9	15555.3
75°	12809.6	12841.5	14119.2	17331.2	21669.0	21826.2	19473.5	15155.6	13465.0	12603.1	12576.4
77.5°	7801.6	8255.9	10119.8	12994.7	17226.0	18044.0	16286.7	12071.5	10061.1	9297.8	8871.4
80°	3827.5	4035.4	5378.3	8216.0	12312.6	13683.5	12086.1	8349.2	6205.6	5237.1	5130.5
82.5°	1742.6	1853.2	2544.6	4295.2	7429.9	9128.6	7459.3	4781.4	3313.3	2591.2	2567.2
85°	676.8	672.8	1029.8	1802.5	3557.1	5054.5	3776.9	2280.8	1516.1	1127.1	1063.1
87.5°	197.2	210.5	302.4	591.5	1053.8	1420.2	1164.4	788.7	466.3	299.8	275.8
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)