

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: P721935

Luminaire Tested: **CST-CA8-430-750-U-T5N**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-430-750-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70774 lumens
Efficiency: N/A
Efficacy: 163.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

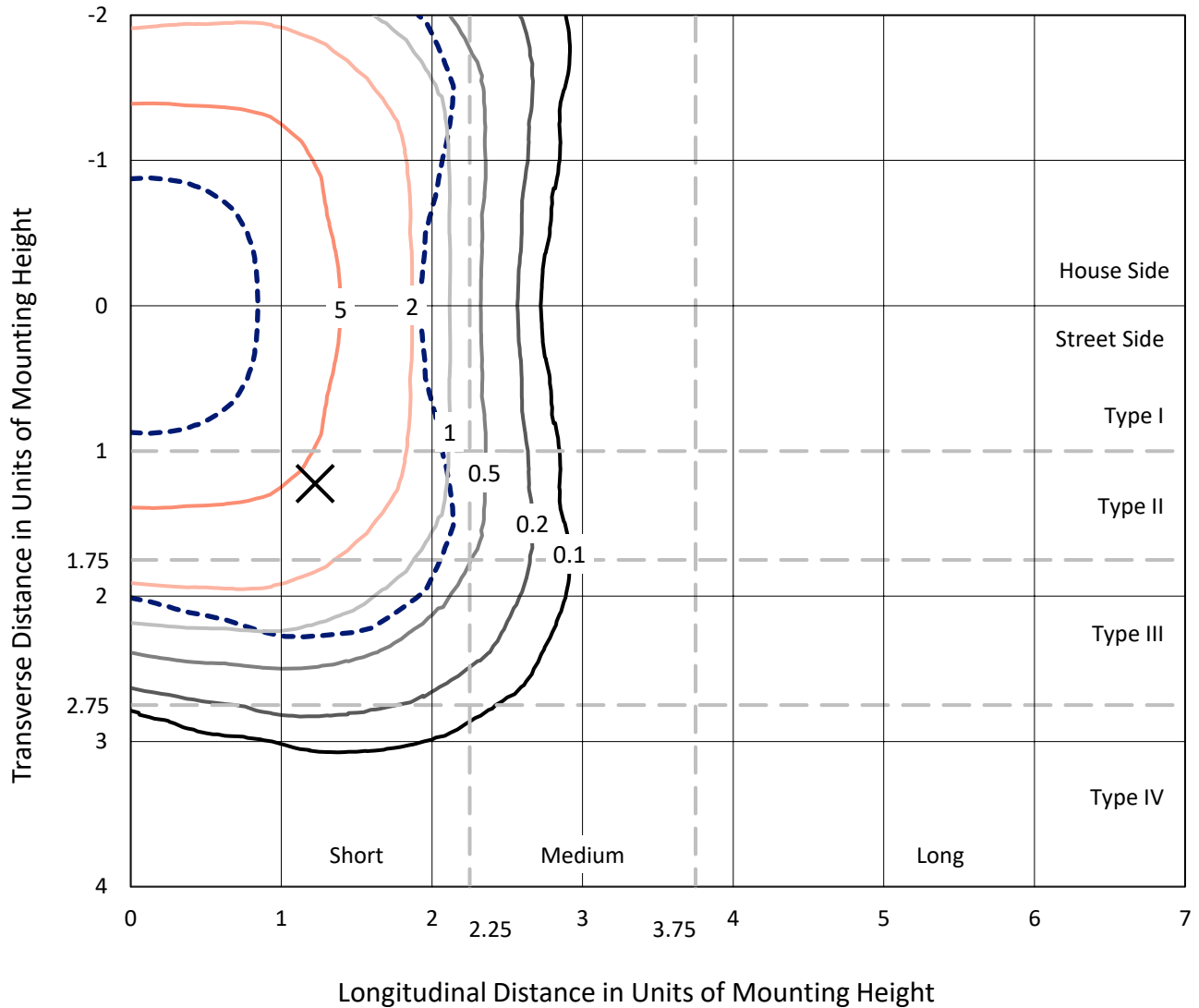
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

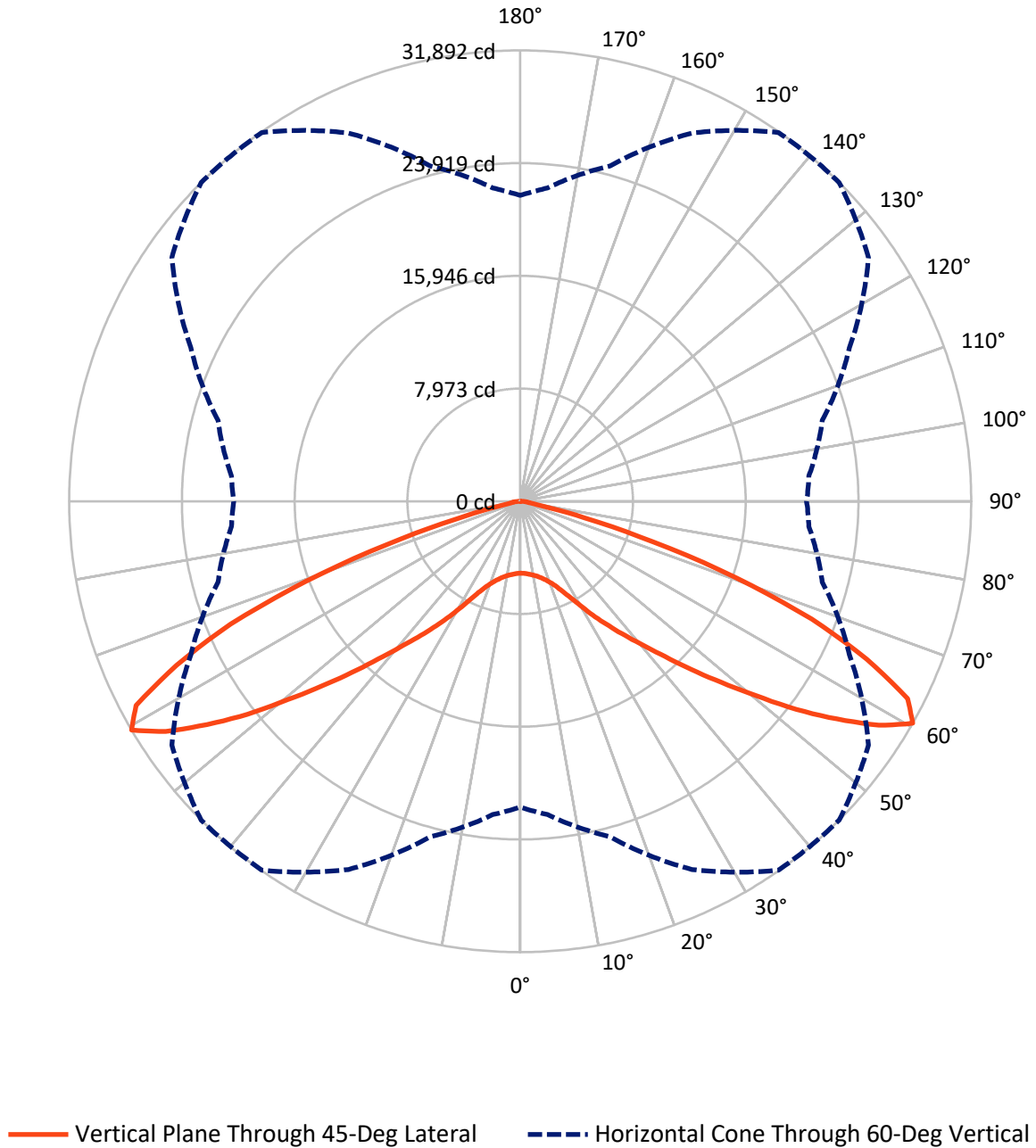
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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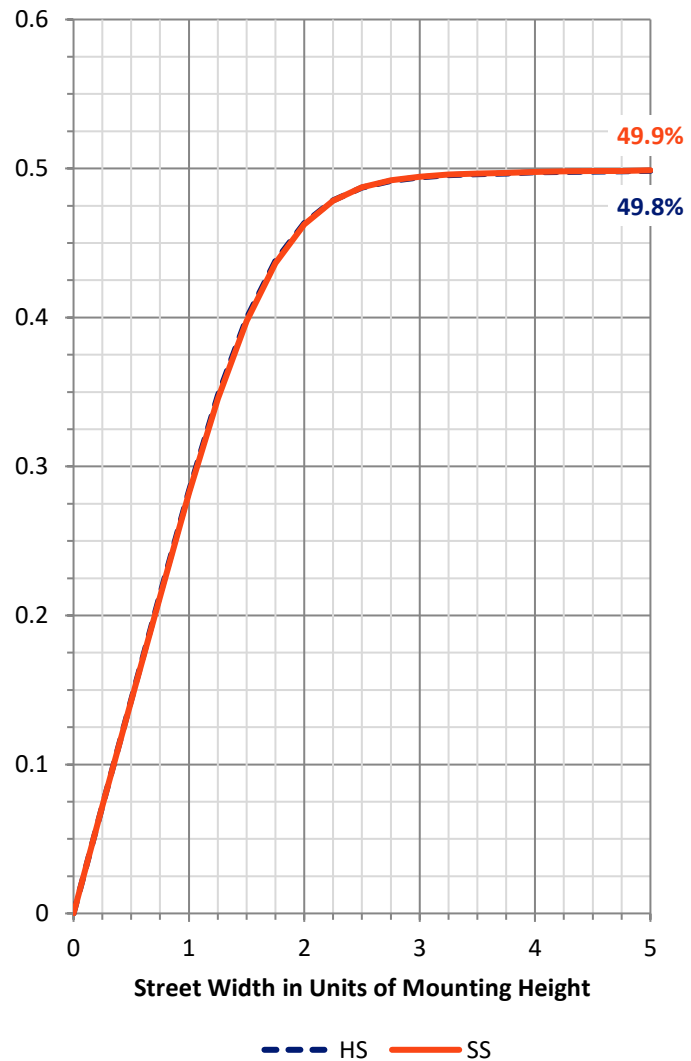
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	35387.0	0.0	35387.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	35387.0	0.0	35387.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	70774.0	0.0	70774.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.3	0.7
10°-20°	1621.3	2.3
20°-30°	3443.5	4.9
30°-40°	7301.4	10.3
40°-50°	13885.3	19.6
50°-60°	22028.2	31.1
60°-70°	18619.7	26.3
70°-80°	3063.2	4.3
80°-90°	314.1	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°	70774.0	100.0
0°-180°	70774.0	100.0

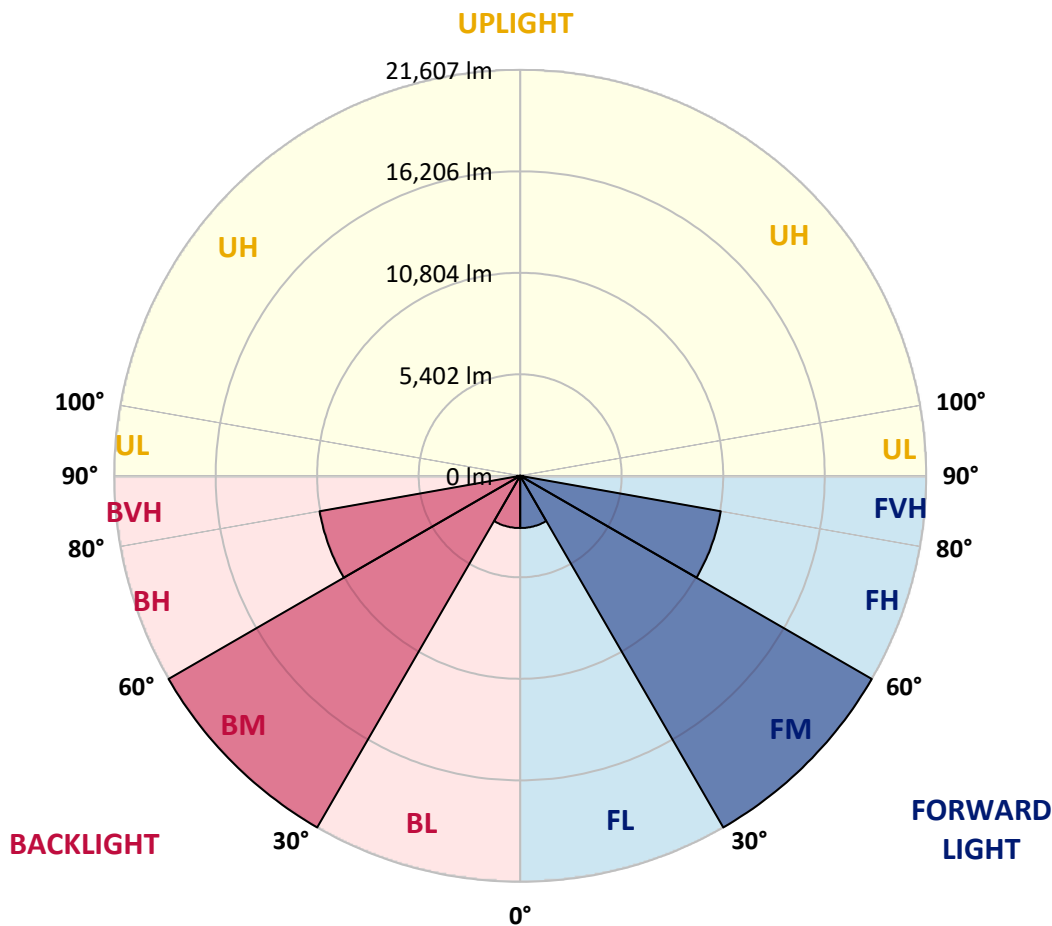


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2781.1	3.9			
FM (30°-60°)	21607.4	30.5			
FH (60°-80°)	10841.4	15.3			G4/12000
FVH (80°-90°)	157.0	0.2			G2/225
BL (0°-30°)	2781.1	3.9	B4/5000		
BM (30°-60°)	21607.4	30.5	B5		
BH (60°-80°)	10841.4	15.3	B5		G4/12000
BVH (80°-90°)	157.0	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5081.3	5081.3	5081.3	5081.3	5081.3	5081.3	5081.3	5081.3	5081.3	5081.3	5081.3
2.5°	5118.0	5105.3	5101.3	5096.0	5098.7	5100.0	5107.3	5108.0	5108.0	5114.7	5126.0
5°	5175.4	5158.7	5152.7	5146.0	5149.4	5152.7	5159.4	5163.4	5162.7	5166.7	5176.7
7.5°	5237.4	5231.4	5224.1	5220.1	5220.1	5229.4	5224.7	5232.1	5231.4	5236.1	5242.1
10°	5329.5	5316.1	5315.4	5308.1	5311.4	5319.4	5320.8	5319.4	5320.8	5323.4	5337.5
12.5°	5446.2	5442.8	5444.8	5438.8	5436.8	5445.5	5447.5	5456.2	5458.9	5466.9	5475.5
15°	5634.3	5612.9	5610.3	5609.6	5613.6	5626.9	5630.9	5647.0	5654.3	5665.6	5685.0
17.5°	5847.1	5854.4	5841.1	5839.7	5839.1	5849.7	5860.4	5895.7	5907.1	5933.1	5949.8
20°	6186.6	6173.2	6165.2	6133.2	6125.2	6143.9	6182.6	6229.3	6251.3	6292.6	6324.0
22.5°	6640.1	6617.5	6562.8	6524.7	6508.7	6540.8	6582.8	6657.5	6746.2	6797.6	6811.6
25°	7295.8	7206.4	7138.4	7071.0	7047.0	7094.4	7162.4	7281.1	7392.5	7495.3	7542.6
27.5°	8094.2	8037.5	7902.1	7796.1	7754.1	7794.1	7935.5	8102.9	8307.0	8413.7	8429.7
30°	9108.1	9078.7	8906.0	8707.2	8632.5	8701.9	8868.6	9096.8	9380.9	9600.4	9639.0
32.5°	10363.4	10214.7	9974.5	9747.1	9667.1	9751.8	9919.2	10246.7	10629.6	10872.3	10955.1
35°	11802.8	11634.7	11273.9	10924.4	10821.0	10831.7	11099.8	11561.4	12085.0	12423.8	12516.5
37.5°	13390.3	13218.9	12793.4	12251.1	12011.6	12029.6	12380.5	12980.8	13698.5	14068.0	14190.7
40°	15084.5	14907.1	14468.2	13857.2	13463.7	13383.7	13852.6	14583.6	15312.7	15758.2	15805.6
42.5°	16740.7	16530.6	16177.8	15566.8	15207.9	14993.2	15559.5	16221.8	16956.9	17358.4	17389.8
45°	18220.2	18179.5	17896.0	17453.1	17157.6	16967.5	17371.7	18029.4	18543.0	18797.2	18889.9
47.5°	19650.3	19624.9	19534.2	19379.5	19452.8	19136.7	19330.8	19628.9	19911.1	20097.8	20169.9
50°	20903.6	20930.3	21108.4	21371.8	21902.8	21582.6	21521.9	21201.1	21209.1	21223.8	21298.5
52.5°	21938.8	22080.2	22528.4	23323.5	24470.1	24462.8	23544.3	22697.2	22314.3	22144.2	22159.6
55°	22841.3	23083.4	23823.8	25465.3	27106.2	27188.2	25938.9	24062.6	23344.9	22982.0	23029.4
57.5°	23339.5	23708.4	24961.7	27453.7	29792.2	29891.0	28499.6	25574.7	23931.2	23012.7	23052.0
60°	21629.3	22250.3	24560.8	28736.4	31846.6	31892.0	30065.0	25693.4	22118.2	20492.7	20254.6
62.5°	17699.9	18560.4	21820.1	27742.5	30894.8	30754.1	29085.2	23468.9	18169.5	16197.8	15997.7
65°	13295.6	14104.7	17517.8	23754.4	27108.2	26922.7	25223.2	18548.4	13321.0	11227.9	10981.7
67.5°	7195.8	8417.7	11611.4	18145.5	21610.0	22239.0	19884.4	12928.1	7752.1	5620.3	5404.2
70°	2485.3	3211.7	5920.4	11390.6	15586.8	16217.8	13559.8	6933.6	3392.4	2121.1	1904.3
72.5°	882.5	1017.2	2225.8	5500.9	8874.0	9832.5	7316.5	2788.8	1081.2	787.7	771.7
75°	623.0	643.0	791.1	1793.6	3842.0	4705.8	2884.8	925.8	674.4	630.3	626.3
77.5°	556.3	567.6	641.0	730.4	1173.9	1502.8	887.8	671.7	585.6	561.0	552.3
80°	528.9	537.6	559.0	599.0	665.7	692.4	599.0	574.3	532.9	522.3	518.9
82.5°	462.2	460.2	466.2	482.9	512.9	519.6	480.9	450.2	450.9	438.2	432.2
85°	312.8	331.5	317.5	300.2	372.2	374.2	348.8	261.5	296.8	290.8	266.1
87.5°	94.7	106.7	84.7	58.7	80.7	62.7	56.7	58.7	56.0	48.7	44.0
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)