

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: P721944

Luminaire Tested: **CST-CA8-430-760-U-T5**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721944
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-CA8-430-760-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67055 lumens
Efficiency: N/A
Efficacy: 154.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

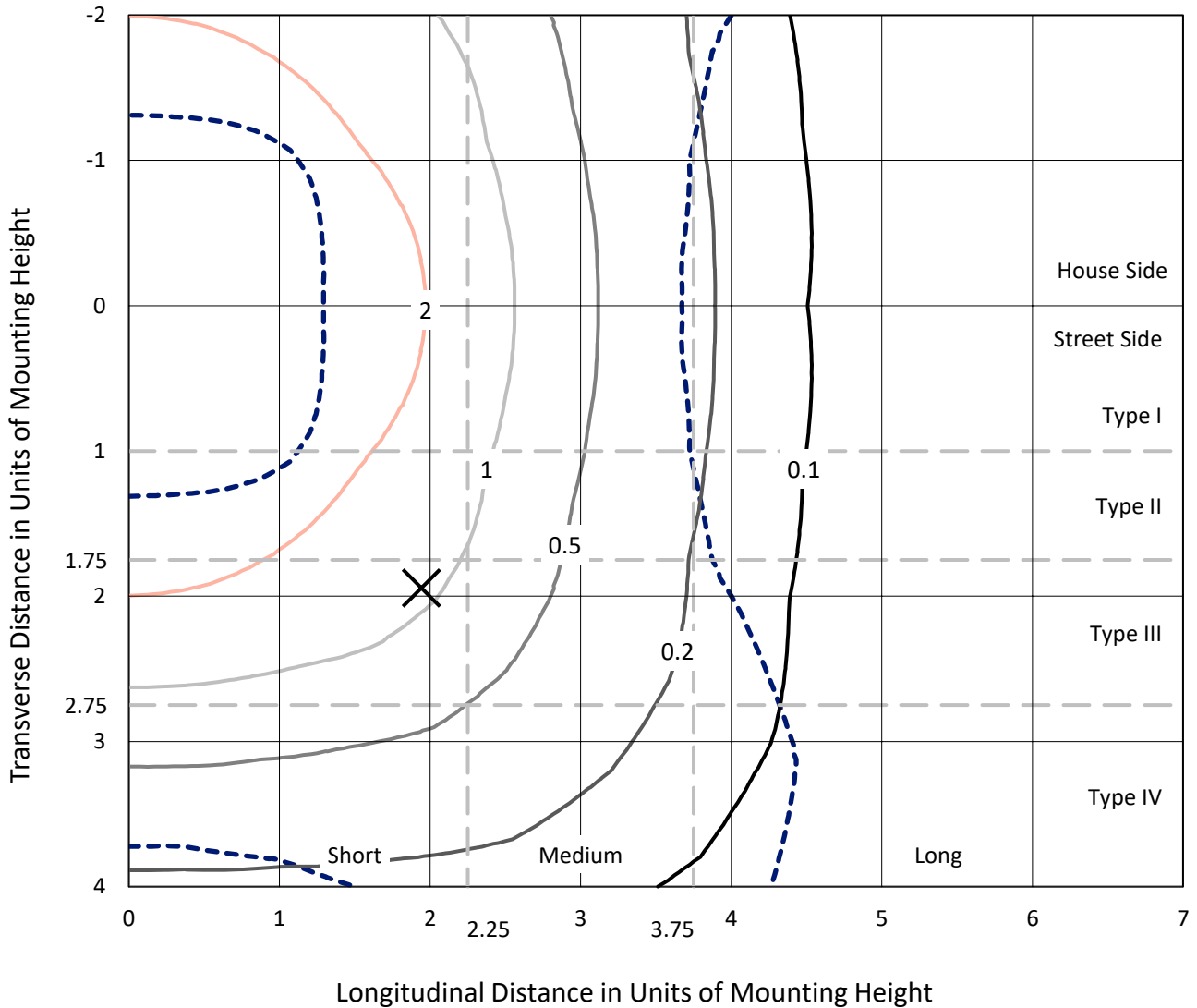
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

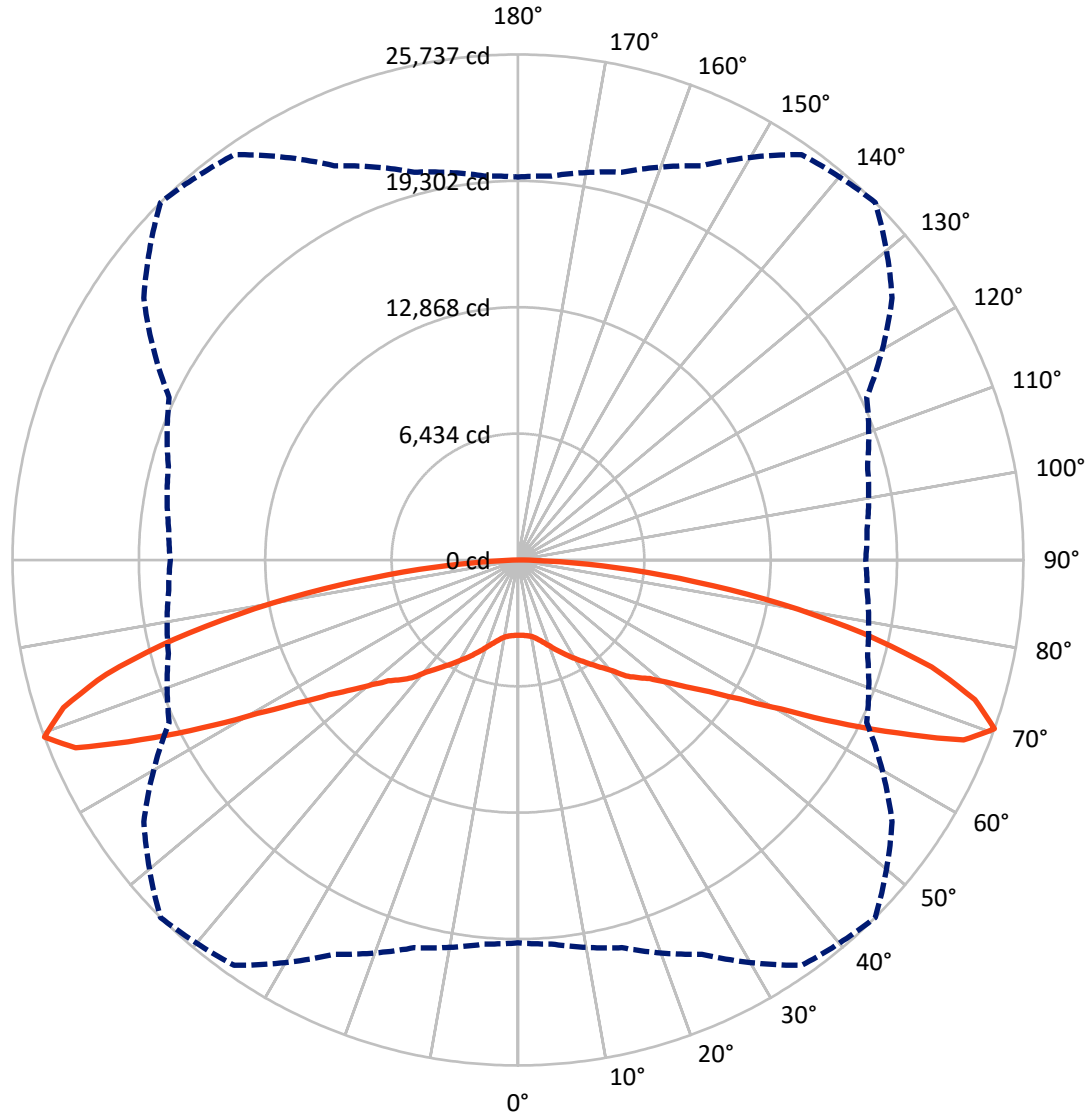
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

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CATALOG NUMBER: CST-CA8-430-760-U-T5

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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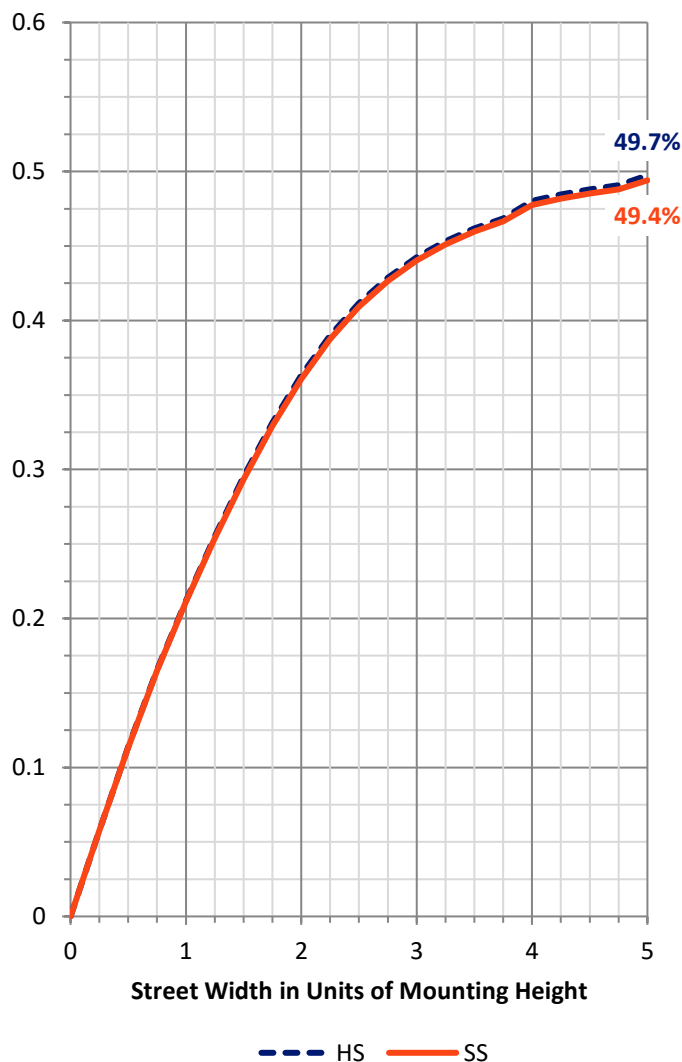
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33527.5	0.0	33527.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33527.5	0.0	33527.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	67055.0	0.0	67055.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.5	0.6
10°-20°	1213.2	1.8
20°-30°	2401.6	3.6
30°-40°	4154.7	6.2
40°-50°	6912.7	10.3
50°-60°	12056.8	18.0
60°-70°	19959.5	29.8
70°-80°	16727.6	24.9
80°-90°	3256.3	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°	67055.0	100.0
0°-180°	67055.0	100.0

Coefficient of Utilization



REPORT NUMBER: P721944

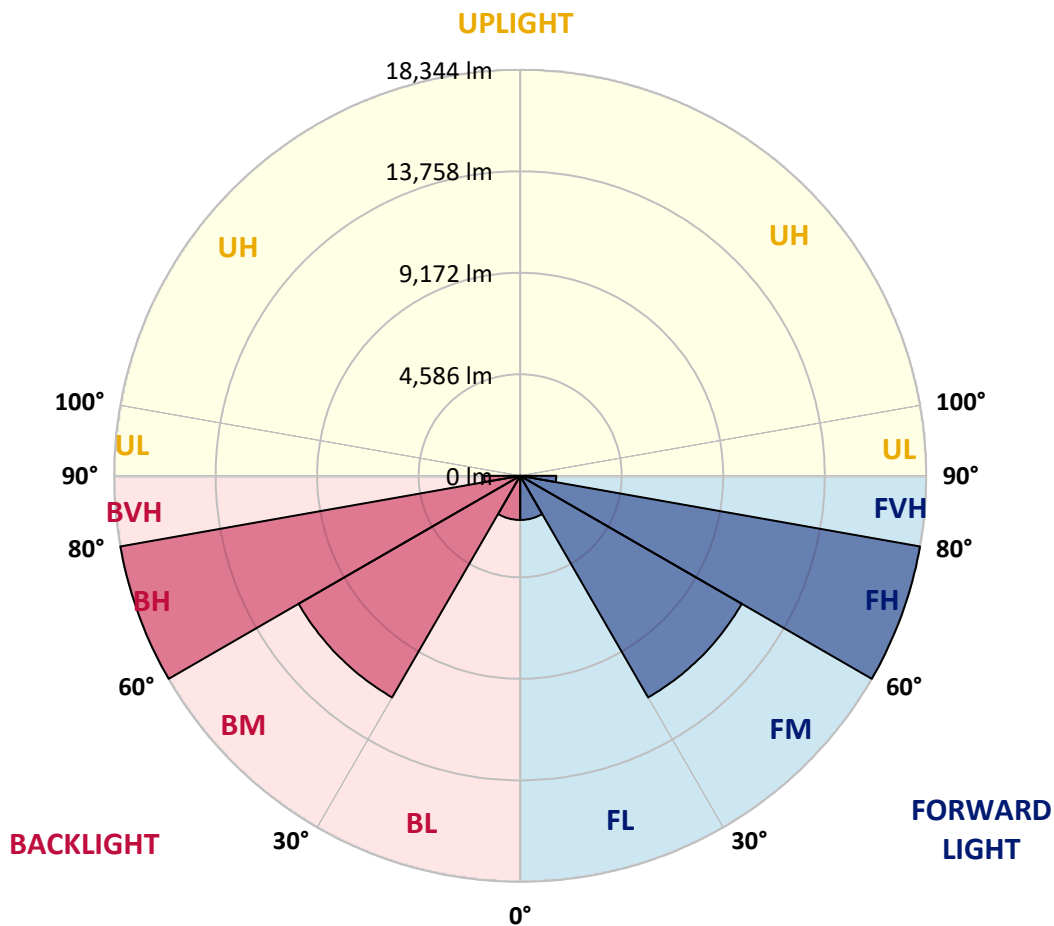
CATALOG NUMBER: CST-CA8-430-760-U-T5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1993.7	3.0			
FM (30°-60°)	11562.1	17.2			
FH (60°-80°)	18343.6	27.4			G5
FVH (80°-90°)	1628.2	2.4			G5
BL (0°-30°)	1993.7	3.0	B3/2500		
BM (30°-60°)	11562.1	17.2	B5		
BH (60°-80°)	18343.6	27.4	B5		G5
BVH (80°-90°)	1628.2	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°	3832.4	3832.4	3832.4	3832.4	3832.4	3832.4	3832.4	3832.4	3832.4	3832.4	3832.4
2.5°	3856.3	3844.4	3840.4	3836.4	3839.0	3837.7	3844.4	3847.0	3849.7	3861.6	3855.0
5°	3880.2	3870.9	3869.6	3864.3	3862.9	3862.9	3872.2	3873.6	3874.9	3882.9	3874.9
7.5°	3924.0	3914.7	3912.1	3909.4	3908.1	3902.8	3909.4	3906.8	3909.4	3913.4	3904.1
10°	3993.1	3982.5	3979.8	3973.2	3977.2	3969.2	3974.5	3967.9	3955.9	3958.6	3945.3
12.5°	4087.4	4078.1	4082.1	4080.7	4096.7	4092.7	4082.1	4068.8	4048.9	4035.6	4021.0
15°	4226.8	4212.2	4222.8	4233.4	4249.4	4256.0	4248.0	4212.2	4183.0	4161.7	4149.8
17.5°	4396.8	4372.9	4394.1	4415.4	4449.9	4456.5	4427.3	4383.5	4351.6	4342.3	4322.4
20°	4594.6	4590.7	4592.0	4626.5	4679.6	4688.9	4650.4	4598.6	4566.8	4568.1	4545.5
22.5°	4833.7	4812.4	4819.1	4853.6	4929.3	4954.5	4890.8	4833.7	4813.7	4819.1	4816.4
25°	5107.2	5087.3	5078.0	5093.9	5192.2	5236.0	5174.9	5108.5	5099.3	5111.2	5092.6
27.5°	5407.3	5388.7	5378.1	5386.1	5463.1	5545.4	5477.7	5421.9	5420.6	5437.9	5427.3
30°	5748.6	5720.7	5708.8	5718.1	5771.2	5850.9	5796.4	5763.2	5791.1	5803.1	5799.1
32.5°	6093.9	6080.6	6076.6	6074.0	6139.0	6184.2	6157.6	6164.3	6186.8	6241.3	6224.0
35°	6486.9	6448.4	6459.1	6467.0	6552.0	6556.0	6558.6	6570.6	6630.4	6707.4	6662.2
37.5°	6895.9	6886.6	6893.3	6870.7	6933.1	6958.4	6995.5	7035.4	7129.7	7218.6	7200.0
40°	7401.9	7384.6	7391.3	7364.7	7395.2	7415.2	7490.9	7577.2	7698.0	7793.6	7749.8
42.5°	8072.5	8028.7	8028.7	8036.6	8100.4	8079.1	8241.1	8265.0	8415.1	8496.1	8470.9
45°	8861.3	8845.3	8761.7	8620.9	8541.2	8539.9	8670.1	8863.9	9112.3	9280.9	9279.6
47.5°	9863.9	9814.7	9614.2	9275.6	9073.7	9024.6	9161.4	9538.5	9995.3	10258.3	10254.3
50°	11178.5	11116.1	10812.0	10286.1	9893.1	9772.2	9991.3	10480.0	11094.9	11445.4	11474.6
52.5°	12649.9	12655.2	12311.2	11515.8	10934.2	10716.4	10948.8	11647.3	12413.5	12894.2	12951.3
55°	14358.9	14317.7	13992.4	13090.7	12290.0	11822.6	12174.5	13100.0	13980.4	14347.0	14447.9
57.5°	16138.3	15977.7	15728.0	14884.8	13948.6	13351.0	13773.3	14678.9	15522.2	15989.6	15973.7
60°	17715.9	17609.7	17466.3	16794.3	16075.9	15393.4	15718.7	16484.9	17207.3	17490.2	17502.1
62.5°	19439.6	19350.6	19221.8	18854.0	18458.2	18204.6	17909.8	18264.4	18828.7	19138.1	19239.1
65°	21131.4	21099.5	21173.8	21118.1	21285.4	21248.2	20541.8	20318.7	20328.0	20240.3	20195.2
67.5°	21031.8	21019.8	21458.0	22331.8	23999.7	24472.4	22659.8	20641.3	19731.7	19500.7	19467.5
70°	19498.0	19626.8	20438.2	22148.5	25192.2	25736.6	23254.7	19591.0	18427.7	17848.7	17705.3
72.5°	16547.3	16799.6	18043.9	20563.0	24201.5	24326.4	21759.5	18010.7	16297.7	15607.2	15504.9
75°	12768.0	12799.9	14073.4	17275.0	21598.8	21755.5	19410.4	15106.5	13421.4	12562.2	12535.7
77.5°	7776.4	8229.2	10087.0	12952.6	17170.1	17985.5	16233.9	12032.4	10028.5	9267.6	8842.7
80°	3815.1	4022.3	5360.9	8189.3	12272.7	13639.2	12047.0	8322.1	6185.5	5220.1	5113.9
82.5°	1736.9	1847.2	2536.3	4281.2	7405.9	9099.0	7435.1	4765.9	3302.6	2582.8	2558.9
85°	674.6	670.6	1026.5	1796.7	3545.6	5038.2	3764.7	2273.4	1511.2	1123.4	1059.7
87.5°	196.5	209.8	301.4	589.6	1050.4	1415.6	1160.6	786.1	464.8	298.8	274.9
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)