

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: P510813

Luminaire Tested: **CST-CA8-330-760-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-330-760-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51997 lumens
Efficiency: N/A
Efficacy: 156.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

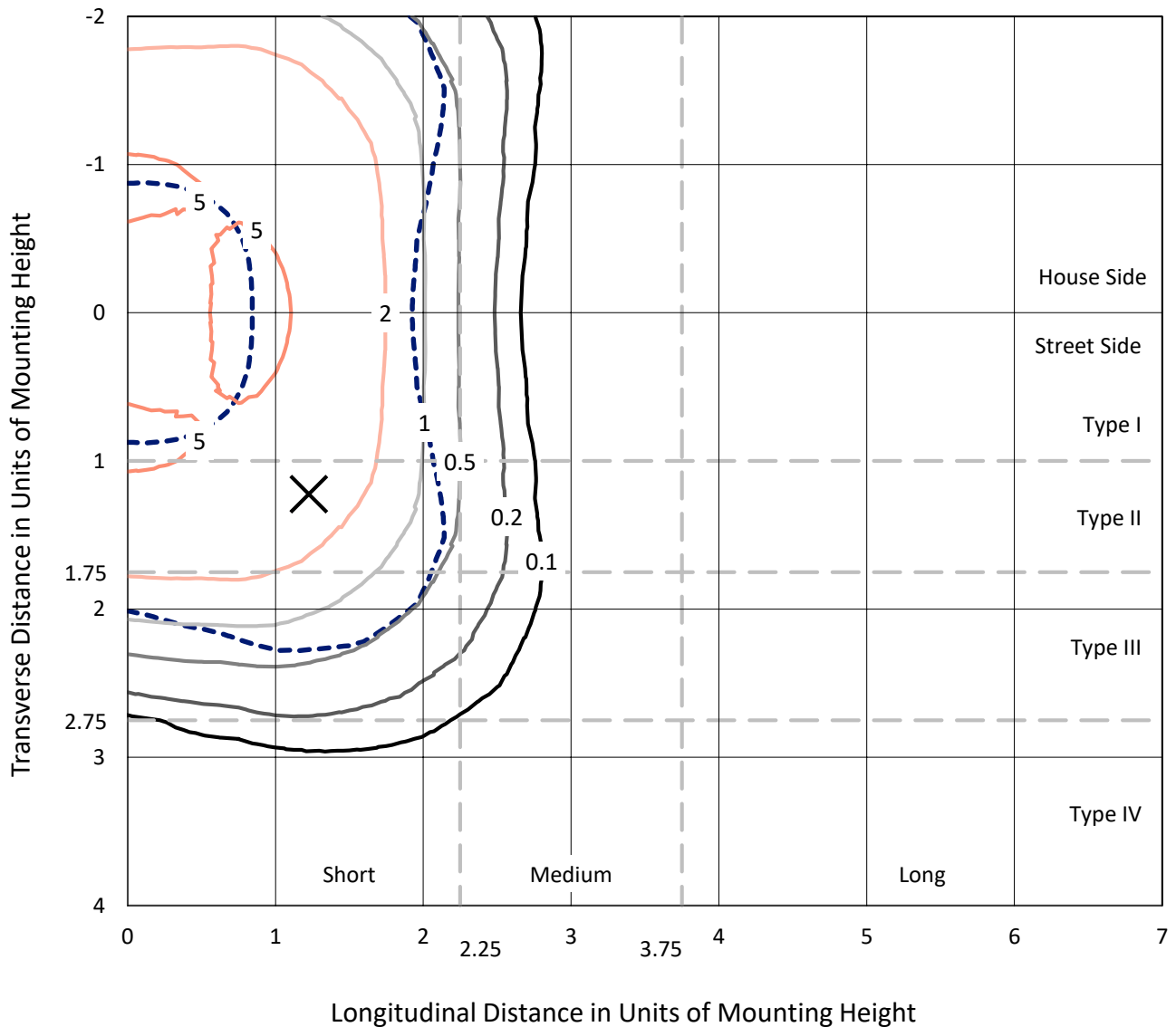
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

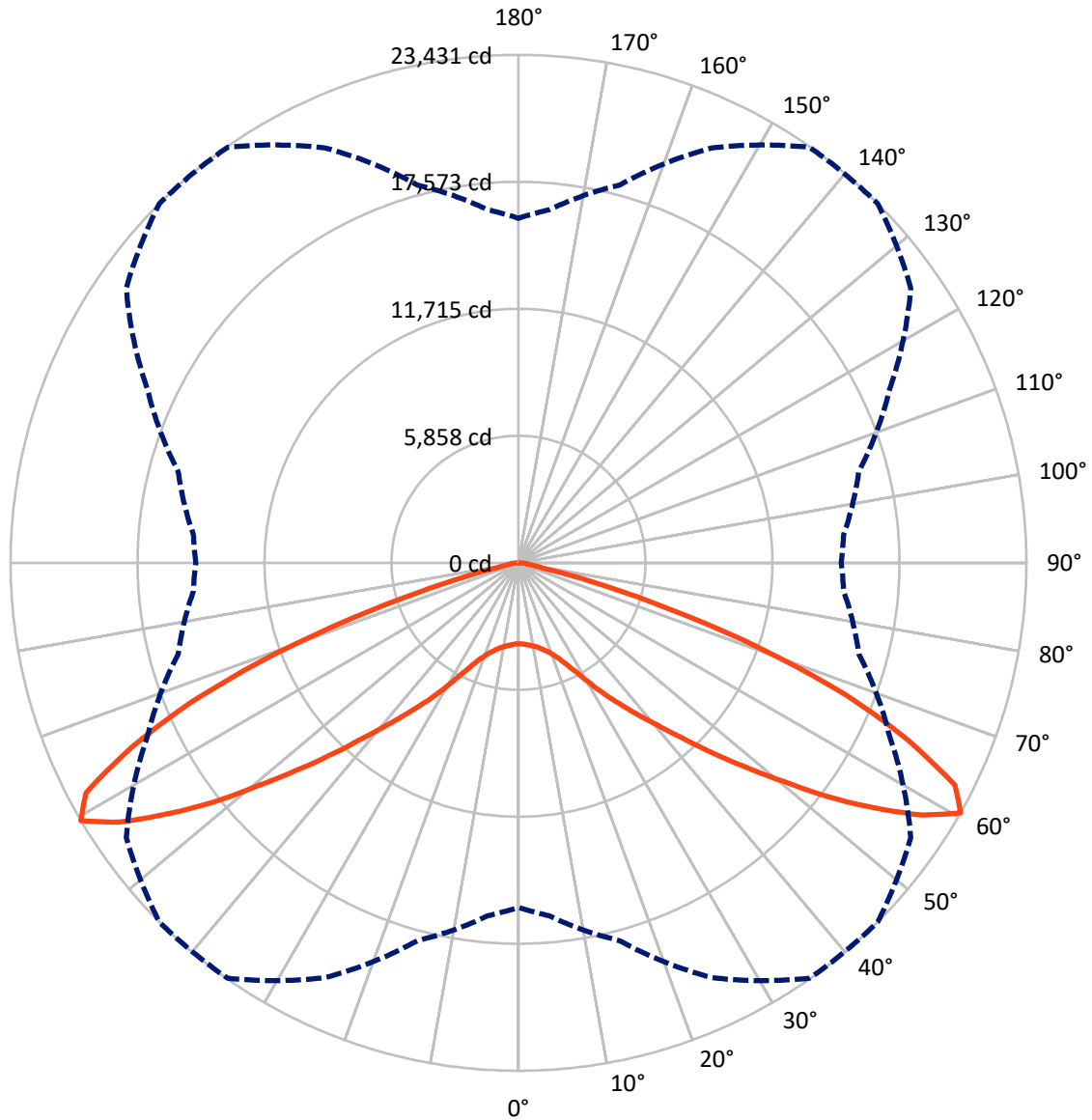
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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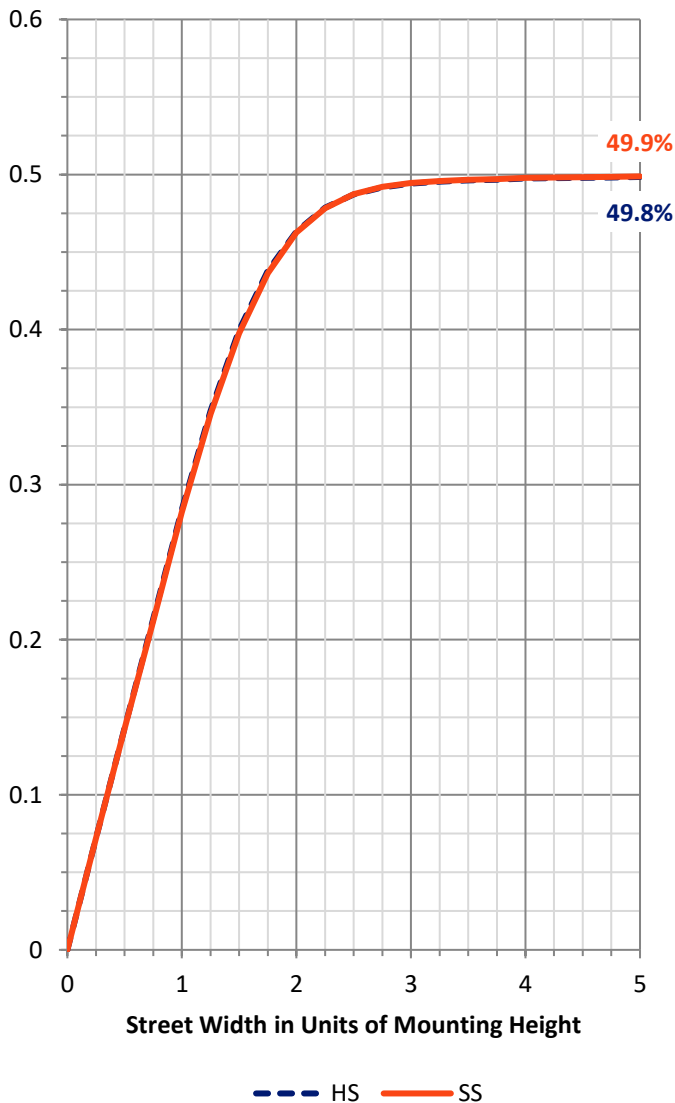
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25998.5	0.0	25998.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25998.5	0.0	25998.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	51997.0	0.0	51997.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.4	0.7
10°-20°	1191.2	2.3
20°-30°	2529.9	4.9
30°-40°	5364.3	10.3
40°-50°	10201.4	19.6
50°-60°	16183.9	31.1
60°-70°	13679.7	26.3
70°-80°	2250.5	4.3
80°-90°	230.8	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°	51997.0	100.0
0°-180°	51997.0	100.0



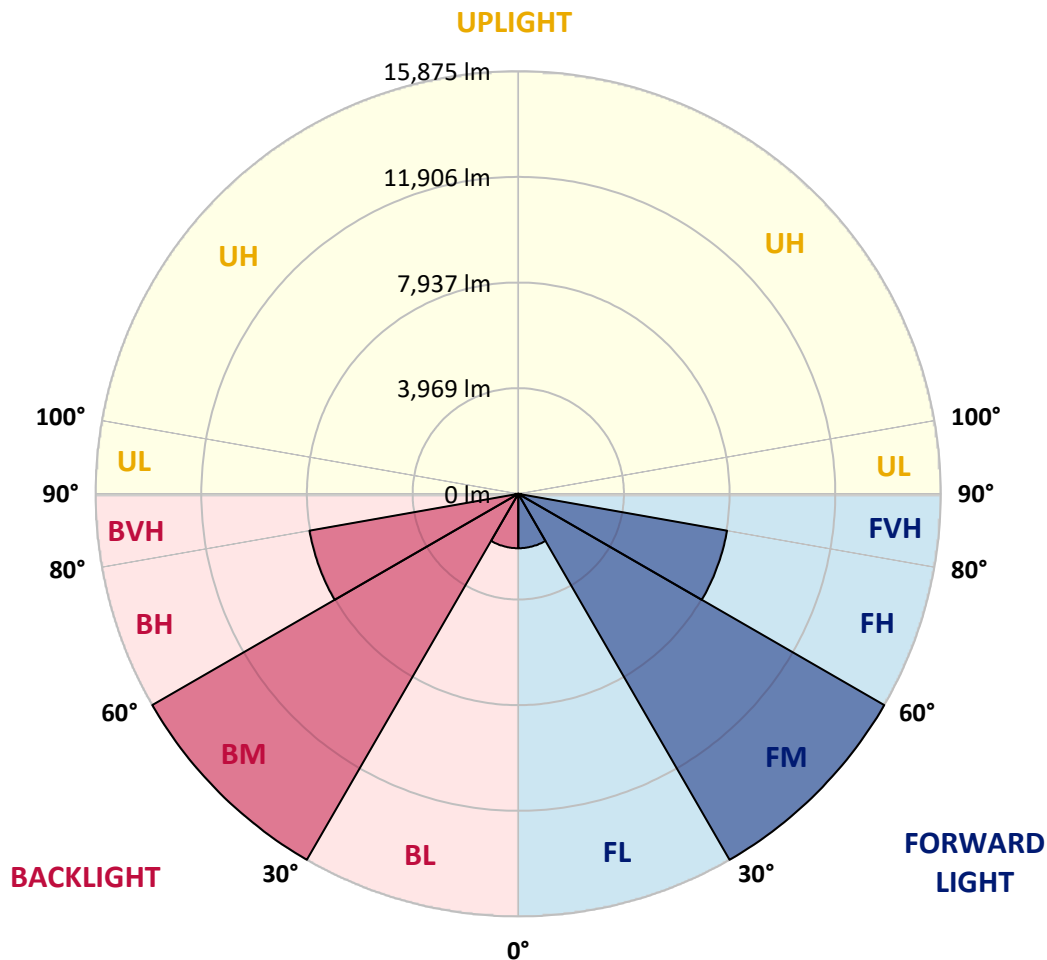
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2043.2	3.9			
FM (30°-60°)	15874.8	30.5			
FH (60°-80°)	7965.1	15.3			G4/12000
FVH (80°-90°)	115.4	0.2			G2/225
BL (0°-30°)	2043.2	3.9	B3/2500		
BM (30°-60°)	15874.8	30.5	B5		
BH (60°-80°)	7965.1	15.3	B5		G4/12000
BVH (80°-90°)	115.4	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°	3733.2	3733.2	3733.2	3733.2	3733.2	3733.2	3733.2	3733.2	3733.2	3733.2	3733.2
2.5°	3760.2	3750.8	3747.9	3744.0	3745.9	3746.9	3752.3	3752.8	3752.8	3757.7	3766.0
5°	3802.3	3790.0	3785.6	3780.7	3783.2	3785.6	3790.5	3793.5	3793.0	3795.9	3803.3
7.5°	3847.9	3843.5	3838.1	3835.1	3835.1	3842.0	3838.6	3844.0	3843.5	3846.9	3851.3
10°	3915.5	3905.7	3905.2	3899.8	3902.3	3908.1	3909.1	3908.1	3909.1	3911.1	3921.4
12.5°	4001.3	3998.8	4000.3	3995.9	3994.4	4000.8	4002.2	4008.6	4010.6	4016.4	4022.8
15°	4139.5	4123.8	4121.8	4121.3	4124.3	4134.1	4137.0	4148.8	4154.2	4162.5	4176.7
17.5°	4295.8	4301.2	4291.4	4290.4	4289.9	4297.7	4305.6	4331.6	4339.9	4359.0	4371.2
20°	4545.2	4535.4	4529.5	4506.0	4500.1	4513.8	4542.3	4576.6	4592.7	4623.1	4646.2
22.5°	4878.4	4861.8	4821.6	4793.7	4781.9	4805.4	4836.3	4891.2	4956.4	4994.1	5004.4
25°	5360.2	5294.5	5244.5	5195.0	5177.4	5212.2	5262.2	5349.4	5431.2	5506.7	5541.5
27.5°	5946.8	5905.1	5805.6	5727.7	5696.8	5726.2	5830.1	5953.1	6103.1	6181.5	6193.3
30°	6691.6	6670.1	6543.1	6397.1	6342.2	6393.2	6515.7	6683.3	6892.1	7053.3	7081.7
32.5°	7613.9	7504.6	7328.2	7161.1	7102.3	7164.5	7287.5	7528.1	7809.4	7987.8	8048.6
35°	8671.4	8547.9	8282.8	8026.0	7950.1	7957.9	8154.9	8494.0	8878.7	9127.7	9195.8
37.5°	9837.8	9711.8	9399.2	9000.7	8824.8	8838.0	9095.8	9536.9	10064.2	10335.6	10425.8
40°	11082.5	10952.1	10629.7	10180.8	9891.7	9832.9	10177.4	10714.5	11250.1	11577.4	11612.2
42.5°	12299.3	12144.9	11885.7	11436.8	11173.1	11015.3	11431.4	11918.0	12458.0	12753.1	12776.1
45°	13386.2	13356.3	13148.0	12822.6	12605.6	12465.9	12762.9	13246.0	13623.4	13810.1	13878.2
47.5°	14436.9	14418.2	14351.6	14237.9	14291.8	14059.5	14202.1	14421.2	14628.5	14765.7	14818.6
50°	15357.7	15377.3	15508.1	15701.7	16091.8	15856.5	15812.0	15576.2	15582.1	15592.9	15647.8
52.5°	16118.2	16222.1	16551.4	17135.6	17978.0	17972.6	17297.8	16675.4	16394.1	16269.2	16280.4
55°	16781.3	16959.2	17503.1	18709.1	19914.6	19974.9	19057.1	17678.6	17151.3	16884.7	16919.5
57.5°	17147.3	17418.3	18339.1	20170.0	21888.1	21960.6	20938.4	18789.5	17582.0	16907.2	16936.1
60°	15890.8	16347.1	18044.6	21112.3	23397.4	23430.8	22088.5	18876.7	16250.1	15055.8	14880.9
62.5°	13004.0	13636.1	16031.0	20382.2	22698.1	22594.7	21368.6	17242.4	13349.0	11900.4	11753.4
65°	9768.2	10362.6	12870.2	17452.1	19916.1	19779.9	18531.2	13627.3	9786.8	8249.0	8068.2
67.5°	5286.7	6184.4	8530.8	13331.3	15876.6	16338.8	14608.9	9498.1	5695.4	4129.2	3970.4
70°	1825.9	2359.6	4349.7	8368.6	11451.5	11915.1	9962.2	5094.1	2492.4	1558.4	1399.1
72.5°	648.3	747.3	1635.3	4041.4	6519.6	7223.8	5375.4	2048.9	794.4	578.7	567.0
75°	457.7	472.4	581.2	1317.7	2822.7	3457.3	2119.5	680.2	495.4	463.1	460.2
77.5°	408.7	417.0	470.9	536.6	862.5	1104.1	652.3	493.5	430.3	412.1	405.8
80°	388.6	395.0	410.7	440.1	489.1	508.7	440.1	421.9	391.5	383.7	381.3
82.5°	339.6	338.1	342.5	354.8	376.8	381.7	353.3	330.8	331.3	322.0	317.6
85°	229.8	243.6	233.3	220.5	273.4	274.9	256.3	192.1	218.1	213.7	195.5
87.5°	69.6	78.4	62.2	43.1	59.3	46.1	41.7	43.1	41.2	35.8	32.3
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)