

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: P510612

Luminaire Tested: **CST-CA10-760-740-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-760-740-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 109898 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

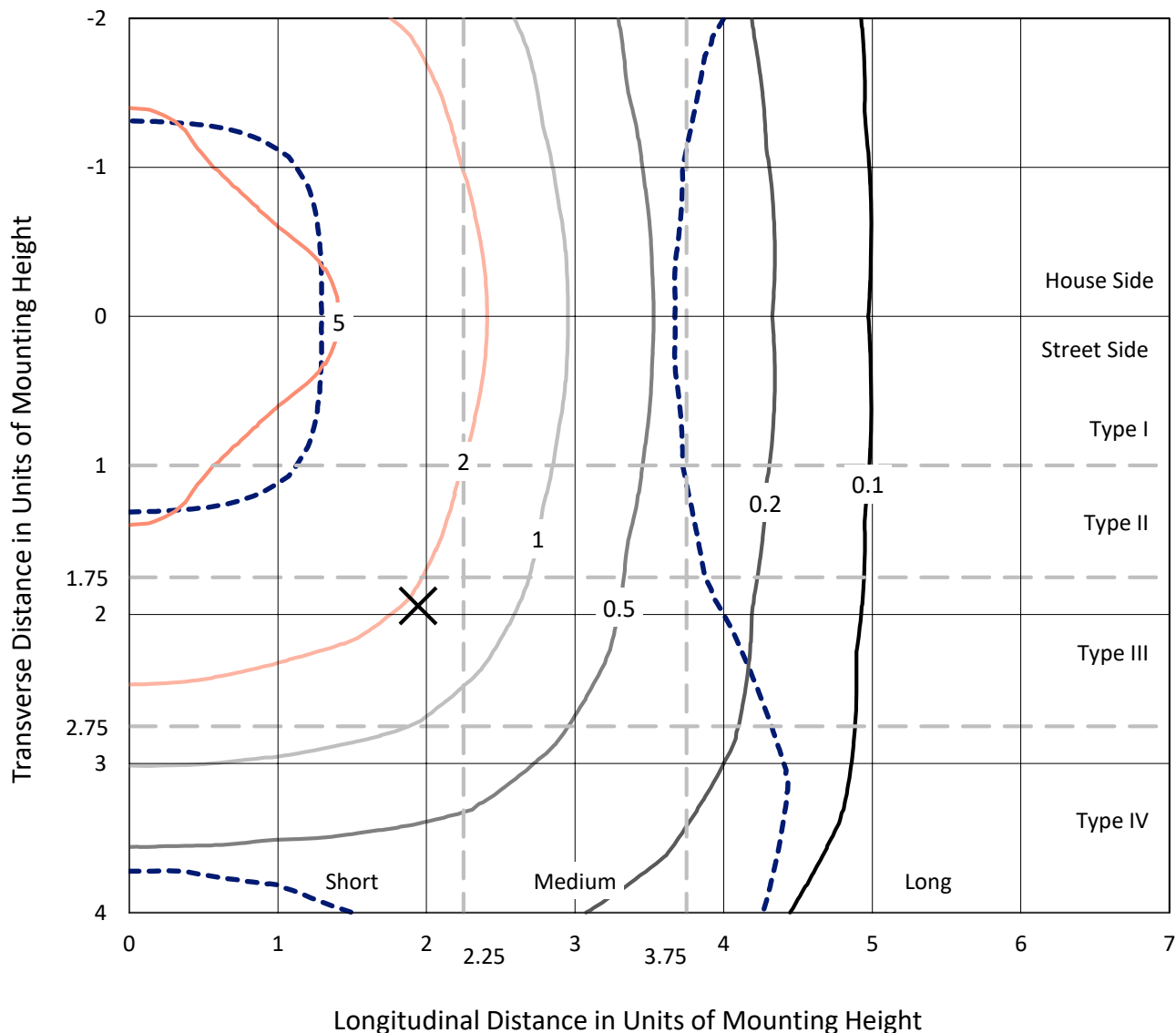
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

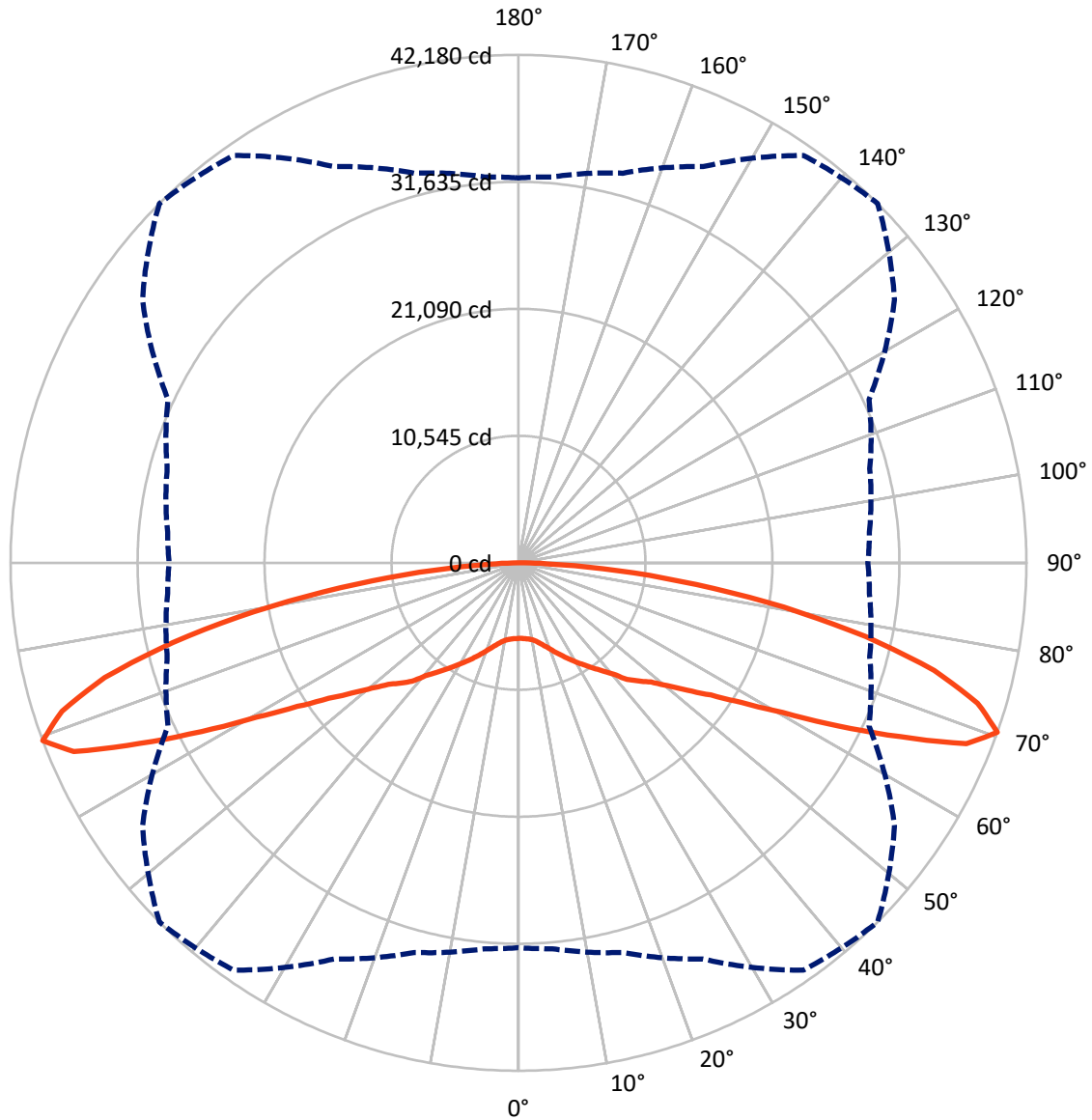
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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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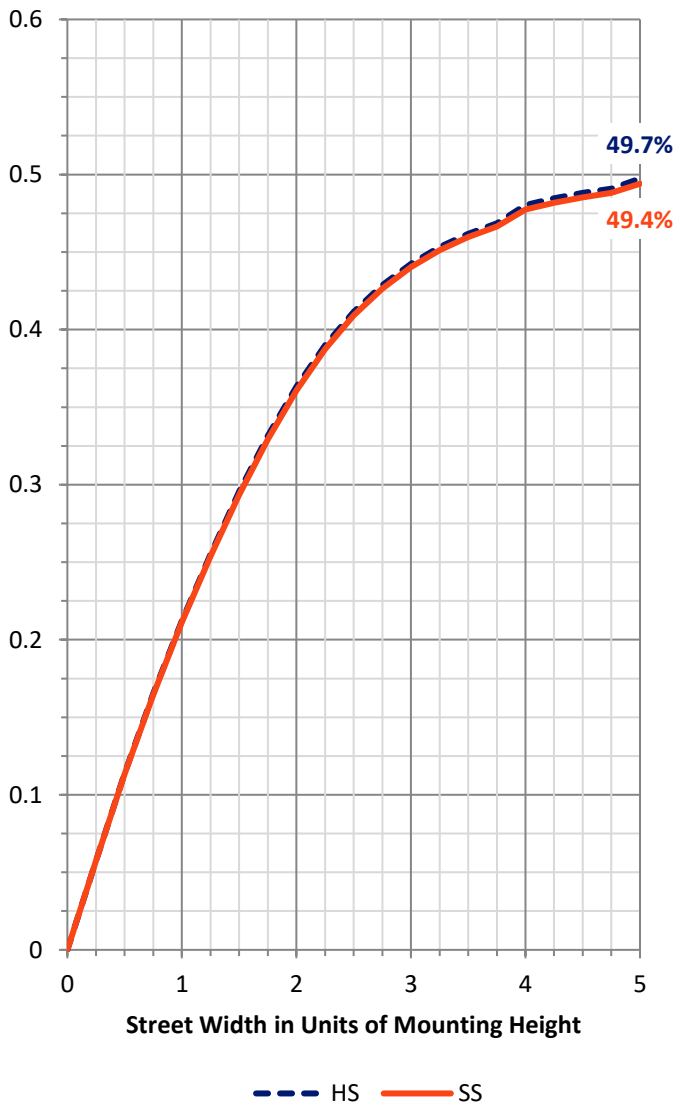
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	54949.0	0.0	54949.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	54949.0	0.0	54949.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	109898.0	0.0	109898.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.5	0.6
10°-20°	1988.3	1.8
20°-30°	3936.1	3.6
30°-40°	6809.1	6.2
40°-50°	11329.3	10.3
50°-60°	19760.2	18.0
60°-70°	32712.1	29.8
70°-80°	27415.3	24.9
80°-90°	5336.9	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°	109898.0	100.0
0°-180°	109898.0	100.0

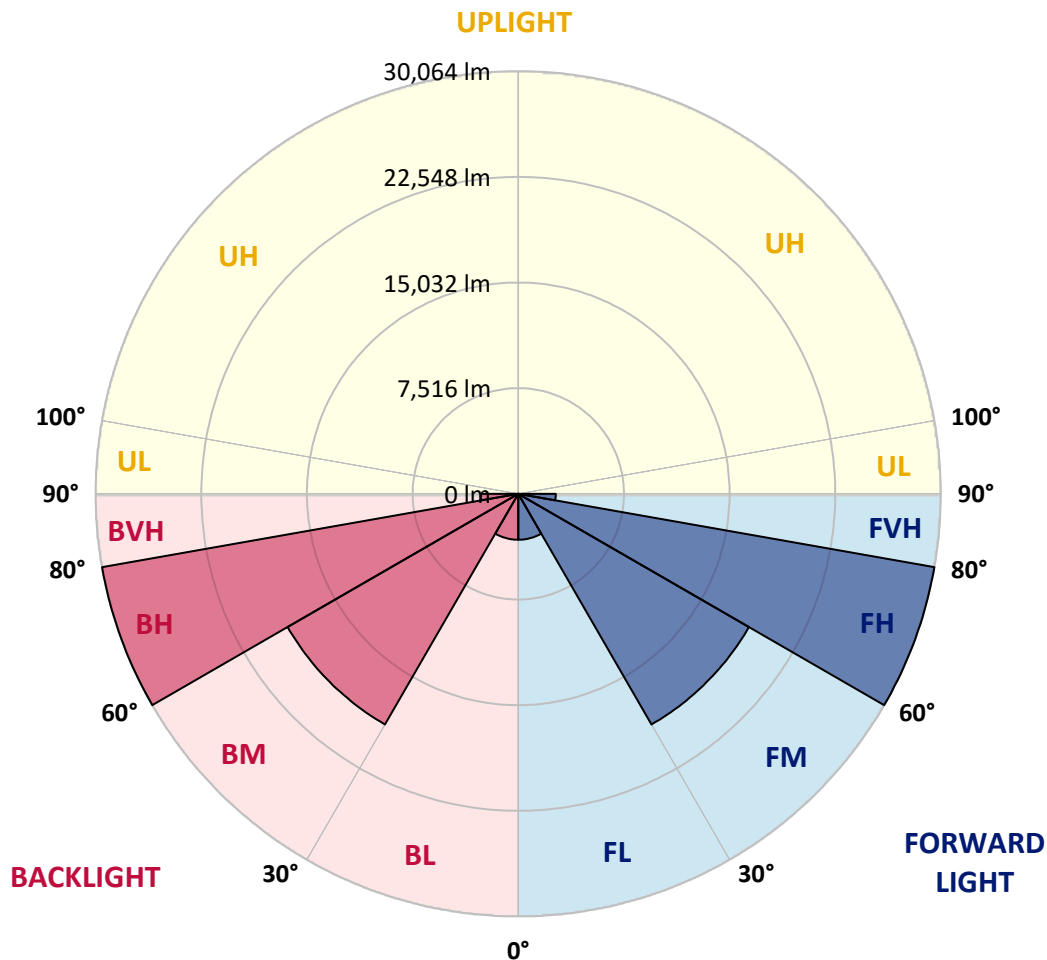


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3267.5	3.0			
FM (30°-60°)	18949.4	17.2			
FH (60°-80°)	30063.7	27.4			G5
FVH (80°-90°)	2668.4	2.4			G5
BL (0°-30°)	3267.5	3.0	B4/5000		
BM (30°-60°)	18949.4	17.2	B5		
BH (60°-80°)	30063.7	27.4	B5		G5
BVH (80°-90°)	2668.4	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°	6281.0	6281.0	6281.0	6281.0	6281.0	6281.0	6281.0	6281.0	6281.0	6281.0	6281.0
2.5°	6320.2	6300.6	6294.1	6287.5	6291.9	6289.7	6300.6	6305.0	6309.3	6328.9	6318.0
5°	6359.4	6344.1	6342.0	6333.3	6331.1	6331.1	6346.3	6348.5	6350.7	6363.7	6350.7
7.5°	6431.2	6416.0	6411.6	6407.2	6405.1	6396.4	6407.2	6402.9	6407.2	6413.8	6398.5
10°	6544.4	6527.0	6522.6	6511.7	6518.2	6505.2	6513.9	6503.0	6483.4	6487.8	6466.0
12.5°	6698.9	6683.6	6690.2	6688.0	6714.1	6707.6	6690.2	6668.4	6635.8	6614.0	6590.1
15°	6927.4	6903.5	6920.9	6938.3	6964.4	6975.3	6962.2	6903.5	6855.6	6820.8	6801.2
17.5°	7206.0	7166.8	7201.6	7236.4	7293.0	7303.9	7256.0	7184.2	7132.0	7116.7	7084.1
20°	7530.3	7523.7	7525.9	7582.5	7669.5	7684.8	7621.7	7536.8	7484.6	7486.7	7449.7
22.5°	7922.0	7887.2	7898.1	7954.7	8078.7	8120.1	8015.6	7922.0	7889.4	7898.1	7893.7
25°	8370.3	8337.7	8322.5	8348.6	8509.6	8581.4	8481.3	8372.5	8357.3	8376.9	8346.4
27.5°	8862.2	8831.7	8814.3	8827.4	8953.6	9088.5	8977.5	8886.1	8884.0	8912.3	8894.8
30°	9421.5	9375.8	9356.2	9371.5	9458.5	9589.1	9499.9	9445.5	9491.2	9510.8	9504.2
32.5°	9987.4	9965.6	9959.1	9954.7	10061.4	10135.4	10091.9	10102.7	10139.7	10229.0	10200.7
35°	10631.6	10568.5	10585.9	10598.9	10738.2	10744.8	10749.1	10768.7	10866.6	10992.9	10918.9
37.5°	11301.9	11286.7	11297.6	11260.6	11362.9	11404.2	11465.1	11530.4	11685.0	11830.8	11800.3
40°	12131.1	12102.8	12113.7	12070.2	12120.2	12152.9	12276.9	12418.4	12616.4	12773.1	12701.3
42.5°	13230.2	13158.4	13158.4	13171.4	13275.9	13241.1	13506.6	13545.8	13791.7	13924.5	13883.1
45°	14523.0	14496.8	14359.7	14129.0	13998.4	13996.3	14209.6	14527.3	14934.3	15210.7	15208.5
47.5°	16166.1	16085.6	15757.0	15202.0	14871.2	14790.6	15014.8	15632.9	16381.6	16812.5	16806.0
50°	18320.7	18218.4	17720.0	16858.2	16214.0	16015.9	16375.0	17176.0	18183.6	18758.2	18806.1
52.5°	20732.2	20740.9	20177.2	18873.5	17920.3	17563.4	17944.2	19089.0	20344.8	21132.6	21226.2
55°	23533.1	23465.7	22932.5	21454.7	20142.4	19376.3	19953.0	21469.9	22912.9	23513.6	23679.0
57.5°	26449.5	26186.2	25777.0	24395.0	22860.6	21881.3	22573.4	24057.7	25439.7	26205.7	26179.6
60°	29035.0	28860.9	28625.9	27524.6	26347.2	25228.5	25761.8	27017.5	28201.5	28665.0	28684.6
62.5°	31860.0	31714.1	31503.0	30900.2	30251.6	29835.9	29352.8	29933.9	30858.8	31365.9	31531.3
65°	34632.7	34580.4	34702.3	34610.9	34885.1	34824.2	33666.4	33300.7	33316.0	33172.3	33098.3
67.5°	34469.4	34449.8	35168.1	36600.1	39333.6	40108.4	37137.7	33829.6	32338.8	31960.1	31905.7
70°	31955.7	32166.8	33496.6	36299.8	41288.0	42180.3	38112.7	32108.1	30201.6	29252.7	29017.6
72.5°	27119.8	27533.3	29572.6	33701.2	39664.4	39869.0	35662.1	29518.2	26710.7	25578.9	25411.4
75°	20925.9	20978.1	23065.2	28312.5	35398.7	35655.6	31812.1	24758.4	21996.6	20588.5	20545.0
77.5°	12744.9	13487.0	16531.7	21228.4	28140.5	29476.8	26606.2	19720.1	16436.0	15188.9	14492.5
80°	6252.7	6592.2	8786.0	13421.7	20114.1	22353.6	19744.1	13639.3	10137.6	8555.3	8381.2
82.5°	2846.7	3027.3	4156.9	7016.6	12137.6	14912.5	12185.5	7811.0	5412.6	4233.1	4193.9
85°	1105.6	1099.1	1682.3	2944.6	5810.9	8257.2	6170.0	3726.0	2476.7	1841.2	1736.7
87.5°	322.1	343.9	494.0	966.3	1721.5	2320.0	1902.2	1288.4	761.7	489.7	450.5
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)