

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: P510593

Luminaire Tested: **CST-CA10-760-727-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510593
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-CA10-760-727-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 96141 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

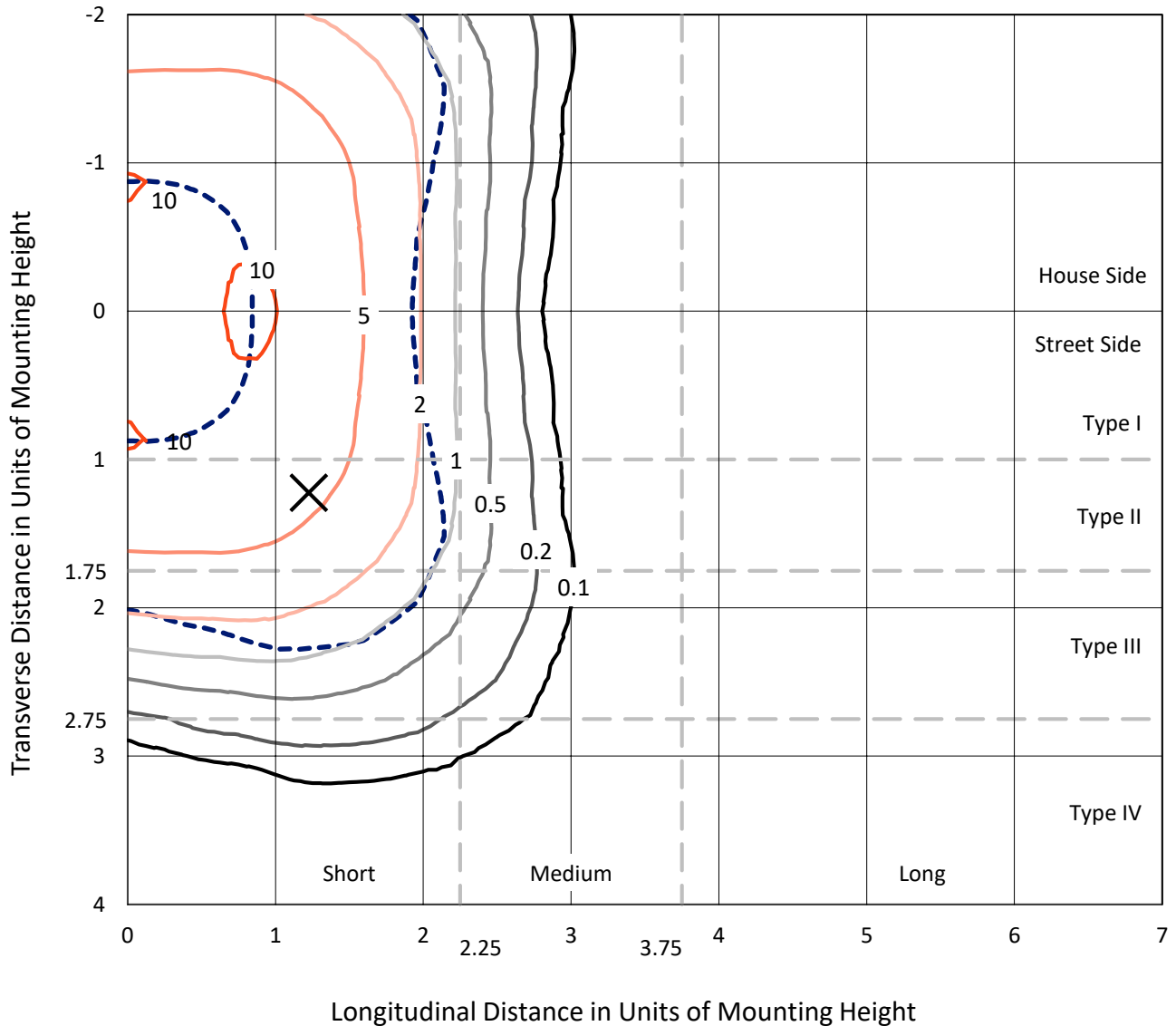
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

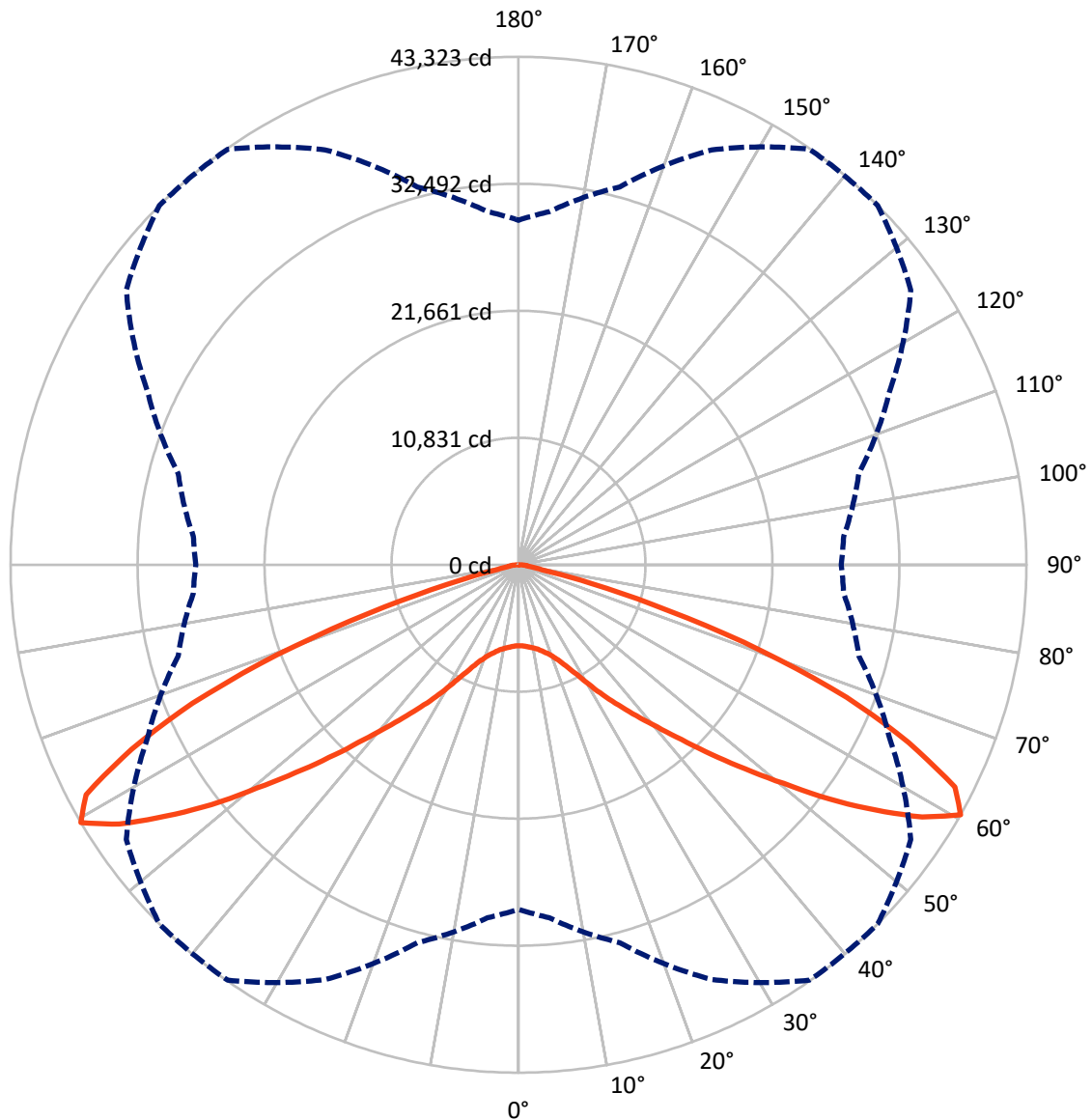
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.7 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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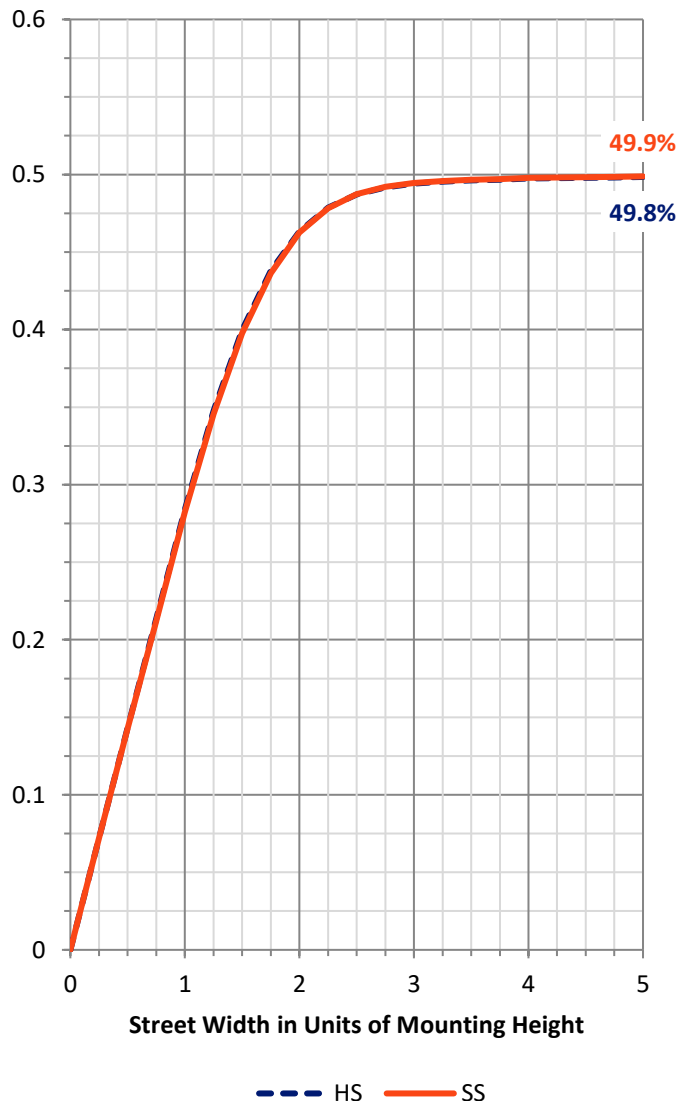
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	48070.5	0.0	48070.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	48070.5	0.0	48070.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	96141.0	0.0	96141.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.6	0.7
10°-20°	2202.4	2.3
20°-30°	4677.7	4.9
30°-40°	9918.4	10.3
40°-50°	18862.1	19.6
50°-60°	29923.6	31.1
60°-70°	25293.4	26.3
70°-80°	4161.2	4.3
80°-90°	426.7	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°	96141.0	100.0
0°-180°	96141.0	100.0

Coefficient of Utilization

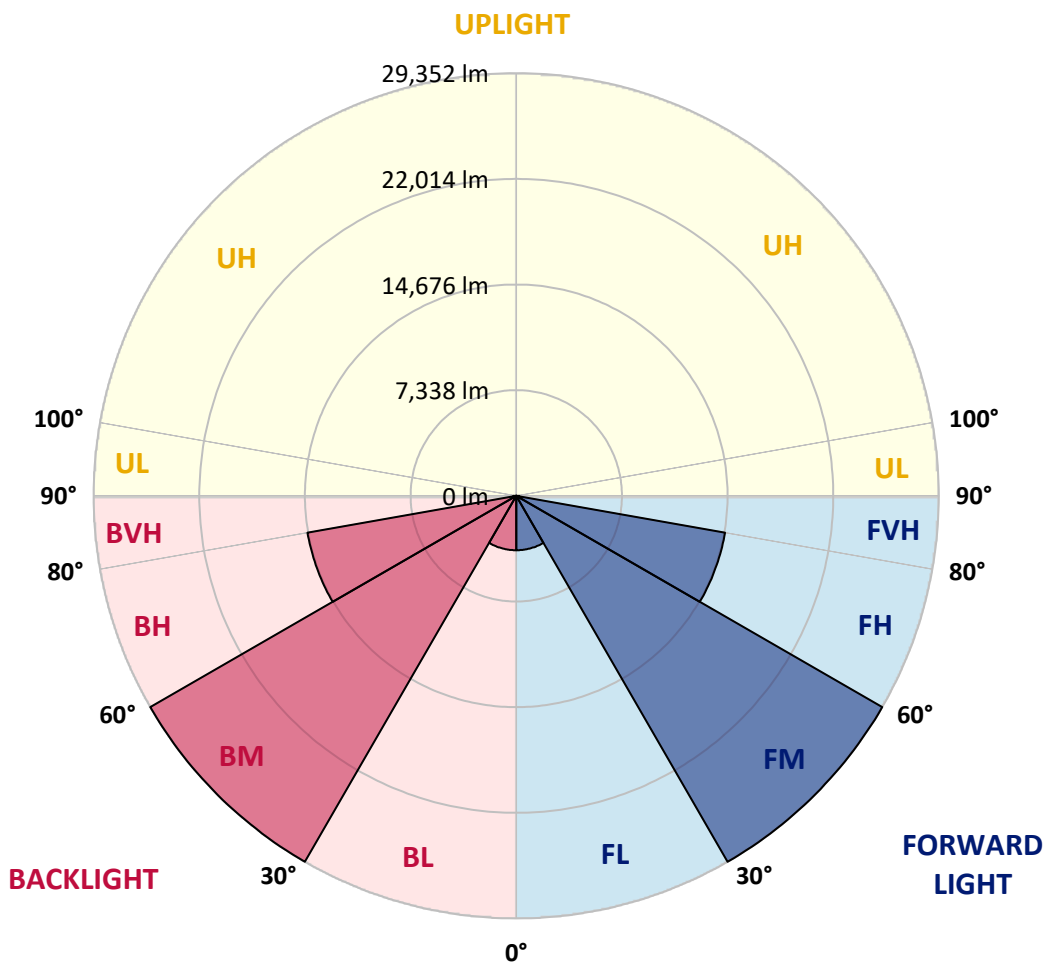


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3777.9	3.9			
FM (30°-60°)	29352.0	30.5			
FH (60°-80°)	14727.3	15.3			G5
FVH (80°-90°)	213.3	0.2			G2/225
BL (0°-30°)	3777.9	3.9	B4/5000		
BM (30°-60°)	29352.0	30.5	B5		
BH (60°-80°)	14727.3	15.3	B5		G5
BVH (80°-90°)	213.3	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-G5
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6902.6	6902.6	6902.6	6902.6	6902.6	6902.6	6902.6	6902.6	6902.6	6902.6	6902.6
2.5°	6952.4	6935.2	6929.8	6922.5	6926.1	6928.0	6937.9	6938.8	6938.8	6947.9	6963.3
5°	7030.3	7007.7	6999.5	6990.5	6995.0	6999.5	7008.6	7014.0	7013.1	7018.6	7032.2
7.5°	7114.6	7106.5	7096.5	7091.0	7091.0	7103.7	7097.4	7107.4	7106.5	7112.8	7121.0
10°	7239.6	7221.5	7220.6	7210.7	7215.2	7226.1	7227.9	7226.1	7227.9	7231.5	7250.5
12.5°	7398.2	7393.7	7396.4	7388.2	7385.5	7397.3	7400.0	7411.8	7415.4	7426.3	7438.1
15°	7653.7	7624.7	7621.1	7620.2	7625.6	7643.8	7649.2	7670.9	7680.9	7696.3	7722.6
17.5°	7942.8	7952.7	7934.6	7932.8	7931.9	7946.4	7960.9	8008.9	8024.3	8059.7	8082.3
20°	8404.0	8385.8	8375.0	8331.5	8320.6	8346.0	8398.5	8462.0	8491.9	8548.0	8590.6
22.5°	9020.1	8989.3	8915.0	8863.4	8841.6	8885.1	8942.2	9043.7	9164.2	9233.9	9253.0
25°	9910.8	9789.4	9697.0	9605.4	9572.8	9637.2	9729.6	9890.9	10042.2	10181.7	10246.0
27.5°	10995.4	10918.4	10734.4	10590.4	10533.3	10587.6	10779.7	11007.2	11284.4	11429.4	11451.1
30°	12372.6	12332.8	12098.1	11828.1	11726.6	11820.8	12047.4	12357.2	12743.2	13041.3	13093.9
32.5°	14077.9	13875.8	13549.6	13240.7	13131.9	13247.0	13474.4	13919.3	14439.4	14769.2	14881.6
35°	16033.2	15804.9	15314.7	14839.9	14699.5	14714.0	15078.2	15705.2	16416.5	16876.8	17002.8
37.5°	18189.7	17956.9	17378.8	16642.1	16316.8	16341.3	16817.9	17633.4	18608.3	19110.3	19277.0
40°	20491.2	20250.2	19654.0	18824.0	18289.4	18180.7	18817.6	19810.7	20801.1	21406.3	21470.7
42.5°	22741.0	22455.6	21976.3	21146.3	20658.8	20367.1	21136.3	22036.1	23034.6	23580.0	23622.6
45°	24750.7	24695.4	24310.4	23708.7	23307.3	23049.1	23598.2	24491.6	25189.3	25534.5	25660.4
47.5°	26693.4	26658.9	26535.7	26325.5	26425.2	25995.7	26259.4	26664.4	27047.6	27301.4	27399.2
50°	28395.9	28432.2	28674.1	29032.0	29753.2	29318.3	29235.9	28800.0	28810.9	28830.8	28932.3
52.5°	29802.2	29994.2	30603.1	31683.2	33240.8	33230.8	31983.1	30832.4	30312.3	30081.2	30102.1
55°	31028.1	31357.0	32362.8	34592.6	36821.6	36933.1	35236.0	32687.1	31712.2	31219.3	31283.6
57.5°	31704.9	32206.0	33908.6	37293.7	40470.4	40604.5	38714.4	34741.2	32508.6	31261.0	31314.4
60°	29381.7	30225.3	33364.0	39036.1	43261.2	43322.8	40841.0	34902.5	30045.9	27837.8	27514.3
62.5°	24044.0	25212.8	29640.9	37686.0	41968.2	41777.0	39510.0	31880.7	24681.9	22003.5	21731.6
65°	18061.1	19160.1	23796.6	32268.5	36824.3	36572.5	34263.7	25196.5	18095.5	15252.2	14917.8
67.5°	9774.9	11434.8	15773.2	24649.2	29355.5	30209.9	27011.4	17561.8	10530.6	7634.7	7341.1
70°	3376.1	4362.8	8042.4	15473.3	21173.5	22030.6	18419.9	9418.8	4608.4	2881.4	2586.9
72.5°	1198.8	1381.8	3023.6	7472.5	12054.6	13356.7	9938.9	3788.4	1468.8	1070.1	1048.3
75°	846.3	873.5	1074.6	2436.5	5219.1	6392.5	3918.8	1257.7	916.1	856.3	850.8
77.5°	755.7	771.1	870.8	992.2	1594.7	2041.4	1206.0	912.4	795.5	762.0	750.2
80°	718.5	730.3	759.3	813.7	904.3	940.5	813.7	780.1	724.0	709.5	704.9
82.5°	627.9	625.2	633.4	656.0	696.8	705.8	653.3	611.6	612.5	595.3	587.1
85°	425.0	450.3	431.3	407.7	505.6	508.3	473.9	355.2	403.2	395.1	361.5
87.5°	128.7	145.0	115.1	79.7	109.6	85.2	77.0	79.7	76.1	66.1	59.8
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)