

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: P510482

Luminaire Tested: **CST-CA10-310-730-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510482
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-CA10-310-730-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49079 lumens
Efficiency: N/A
Efficacy: 157.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

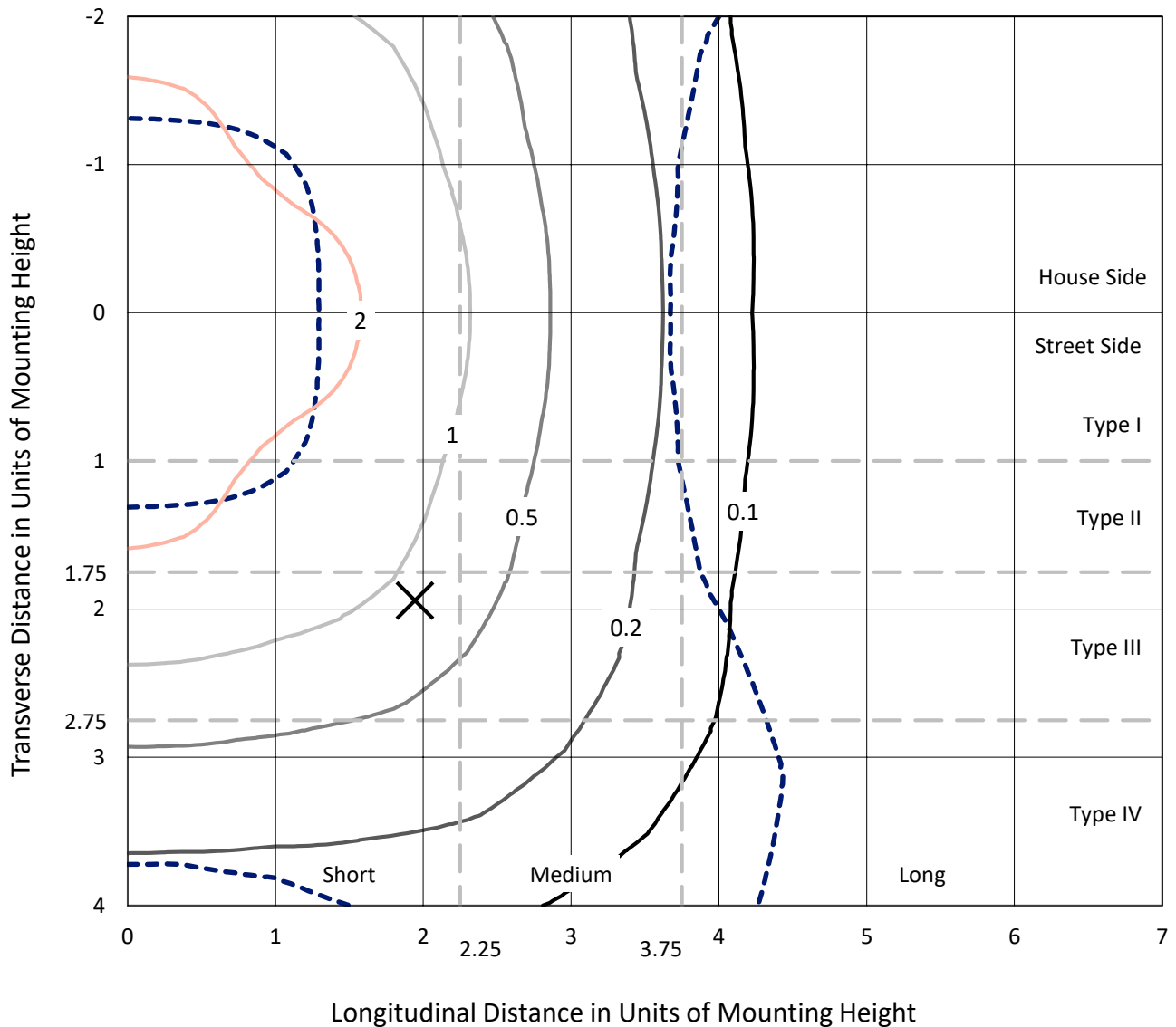
Input Watts (W): 312.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

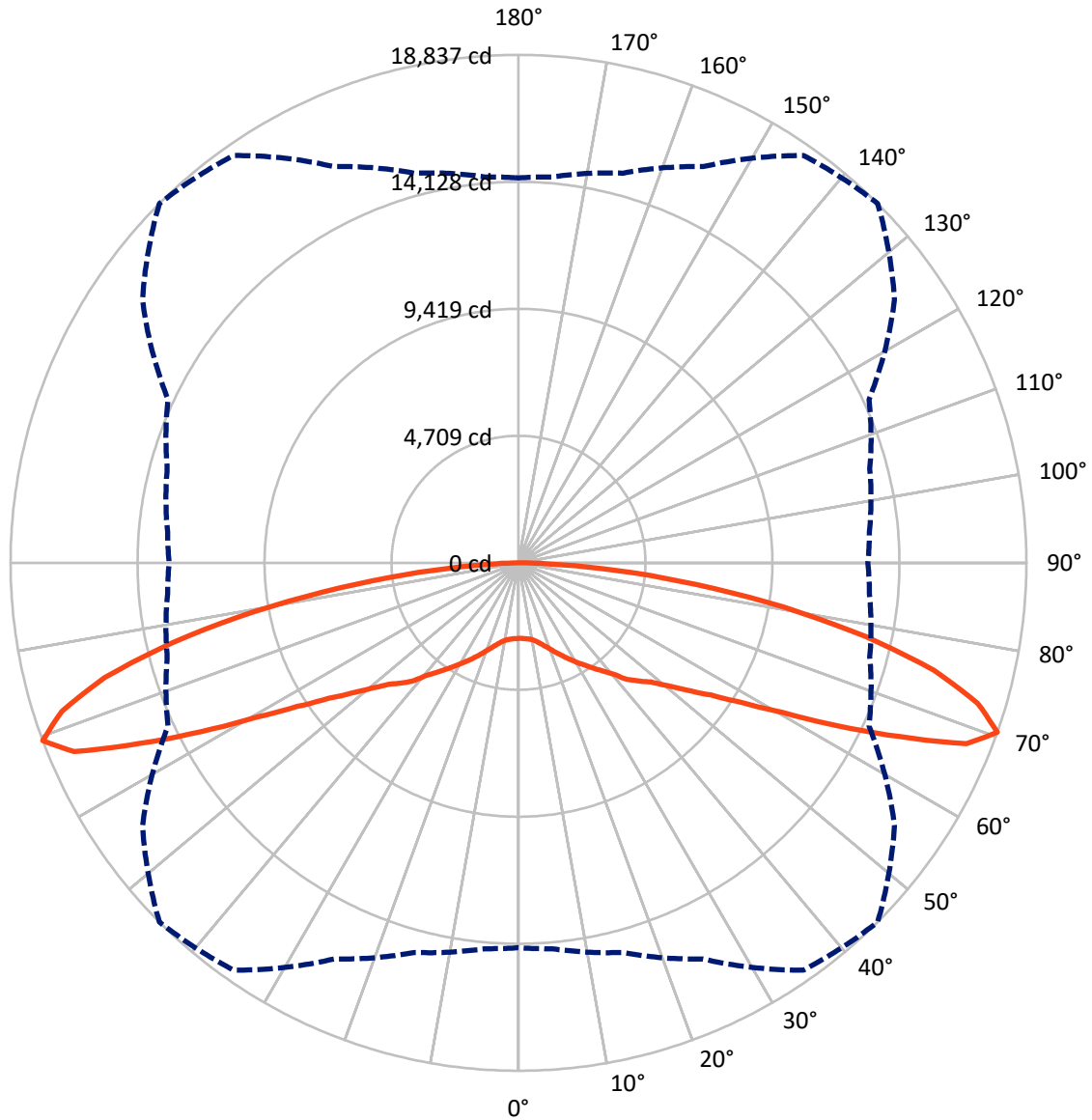
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.2 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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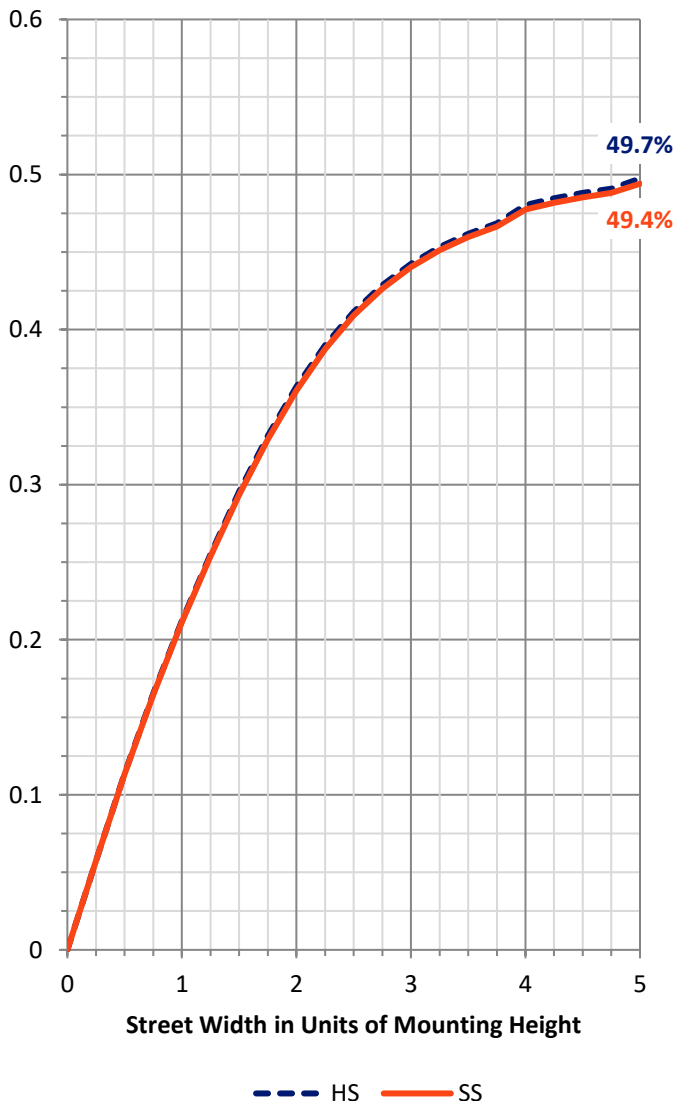
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24539.5	0.0	24539.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24539.5	0.0	24539.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	49079.0	0.0	49079.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.7	0.6
10°-20°	888.0	1.8
20°-30°	1757.8	3.6
30°-40°	3040.9	6.2
40°-50°	5059.5	10.3
50°-60°	8824.7	18.0
60°-70°	14608.8	29.8
70°-80°	12243.3	24.9
80°-90°	2383.4	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°	49079.0	100.0
0°-180°	49079.0	100.0



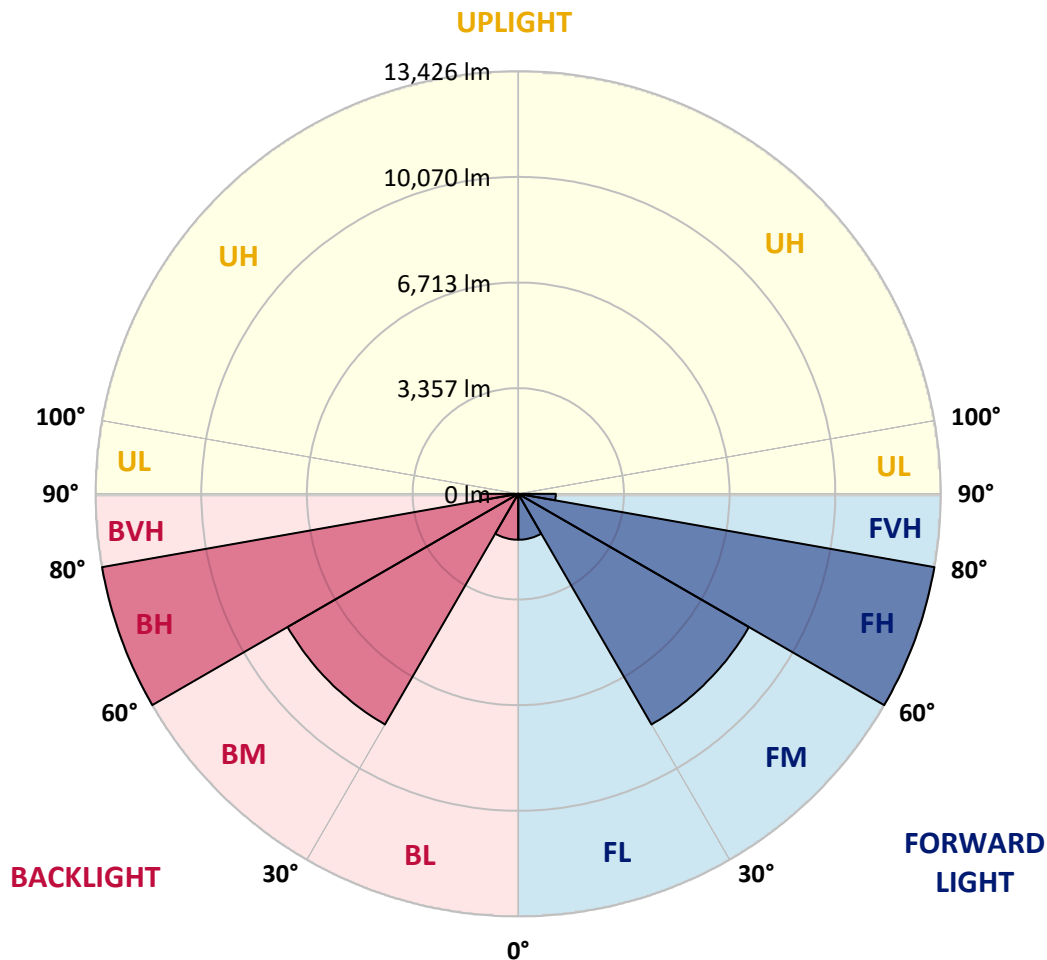
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1459.2	3.0			
FM (30°-60°)	8462.5	17.2			
FH (60°-80°)	13426.1	27.4			G5
FVH (80°-90°)	1191.7	2.4			G5
BL (0°-30°)	1459.2	3.0	B3/2500		
BM (30°-60°)	8462.5	17.2	B4/8500		
BH (60°-80°)	13426.1	27.4	B5		G5
BVH (80°-90°)	1191.7	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°	2805.0	2805.0	2805.0	2805.0	2805.0	2805.0	2805.0	2805.0	2805.0	2805.0	2805.0
2.5°	2822.5	2813.8	2810.9	2807.9	2809.9	2808.9	2813.8	2815.7	2817.7	2826.4	2821.5
5°	2840.0	2833.2	2832.2	2828.3	2827.4	2827.4	2834.2	2835.2	2836.1	2842.0	2836.1
7.5°	2872.1	2865.3	2863.3	2861.4	2860.4	2856.5	2861.4	2859.4	2861.4	2864.3	2857.5
10°	2922.6	2914.9	2912.9	2908.0	2911.0	2905.1	2909.0	2904.2	2895.4	2897.4	2887.6
12.5°	2991.6	2984.8	2987.7	2986.8	2998.4	2995.5	2987.7	2978.0	2963.4	2953.7	2943.0
15°	3093.7	3083.0	3090.8	3098.5	3110.2	3115.1	3109.2	3083.0	3061.6	3046.1	3037.3
17.5°	3218.1	3200.6	3216.2	3231.7	3257.0	3261.8	3240.5	3208.4	3185.0	3178.2	3163.7
20°	3362.9	3360.0	3361.0	3386.2	3425.1	3431.9	3403.7	3365.8	3342.5	3343.5	3327.0
22.5°	3537.9	3522.3	3527.2	3552.4	3607.8	3626.3	3579.7	3537.9	3523.3	3527.2	3525.2
25°	3738.1	3723.5	3716.7	3728.4	3800.3	3832.4	3787.7	3739.1	3732.3	3741.0	3727.4
27.5°	3957.7	3944.1	3936.4	3942.2	3998.6	4058.8	4009.3	3968.4	3967.5	3980.1	3972.3
30°	4207.5	4187.1	4178.4	4185.2	4224.1	4282.4	4242.5	4218.2	4238.6	4247.4	4244.5
32.5°	4460.2	4450.5	4447.6	4445.7	4493.3	4526.3	4506.9	4511.7	4528.3	4568.1	4555.5
35°	4747.9	4719.7	4727.5	4733.4	4795.6	4798.5	4800.4	4809.2	4852.9	4909.3	4876.2
37.5°	5047.3	5040.5	5045.3	5028.8	5074.5	5093.0	5120.2	5149.3	5218.3	5283.5	5269.9
40°	5417.6	5405.0	5409.8	5390.4	5412.7	5427.3	5482.7	5545.9	5634.3	5704.3	5672.2
42.5°	5908.4	5876.4	5876.4	5882.2	5928.8	5913.3	6031.9	6049.4	6159.2	6218.5	6200.0
45°	6485.8	6474.1	6412.9	6309.8	6251.5	6250.6	6345.8	6487.7	6669.5	6792.9	6791.9
47.5°	7219.6	7183.6	7036.9	6789.0	6641.3	6605.3	6705.4	6981.4	7315.8	7508.2	7505.3
50°	8181.8	8136.1	7913.5	7528.7	7241.0	7152.5	7312.9	7670.6	8120.6	8377.2	8398.5
52.5°	9258.7	9262.6	9010.9	8428.7	8003.0	7843.6	8013.7	8524.9	9085.7	9437.5	9479.3
55°	10509.6	10479.5	10241.3	9581.4	8995.3	8653.2	8910.8	9588.2	10232.6	10500.8	10574.7
57.5°	11812.0	11694.4	11511.7	10894.5	10209.3	9771.9	10081.0	10743.8	11361.0	11703.1	11691.5
60°	12966.7	12888.9	12783.9	12292.1	11766.3	11266.7	11504.9	12065.7	12594.4	12801.4	12810.2
62.5°	14228.2	14163.1	14068.8	13799.6	13510.0	13324.3	13108.6	13368.1	13781.1	14007.6	14081.5
65°	15466.5	15443.2	15497.6	15456.8	15579.2	15552.0	15035.0	14871.7	14878.5	14814.3	14781.3
67.5°	15393.6	15384.8	15705.6	16345.1	17565.9	17911.9	16585.2	15107.8	14442.1	14272.9	14248.7
70°	14271.0	14365.3	14959.1	16211.0	18438.7	18837.2	17020.6	14339.0	13487.6	13063.9	12958.9
72.5°	12111.4	12296.0	13206.7	15050.5	17713.6	17805.0	15926.2	13182.4	11928.6	11423.2	11348.4
75°	9345.2	9368.5	10300.6	12644.0	15808.6	15923.3	14206.9	11056.8	9823.4	9194.6	9175.1
77.5°	5691.7	6023.1	7382.9	9480.3	12567.2	13164.0	11882.0	8806.8	7340.1	6783.2	6472.2
80°	2792.4	2944.0	3923.7	5994.0	8982.7	9982.8	8817.4	6091.2	4527.3	3820.7	3742.9
82.5°	1271.3	1352.0	1856.4	3133.5	5420.5	6659.7	5441.9	3488.3	2417.2	1890.4	1872.9
85°	493.7	490.8	751.3	1315.0	2595.1	3687.5	2755.5	1664.0	1106.1	822.3	775.6
87.5°	143.8	153.6	220.6	431.5	768.8	1036.1	849.5	575.4	340.2	218.7	201.2
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)