

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: P510723

Luminaire Tested: **CST-CA8-230-730-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510723
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-CA8-230-730-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37511 lumens
Efficiency: N/A
Efficacy: 164.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

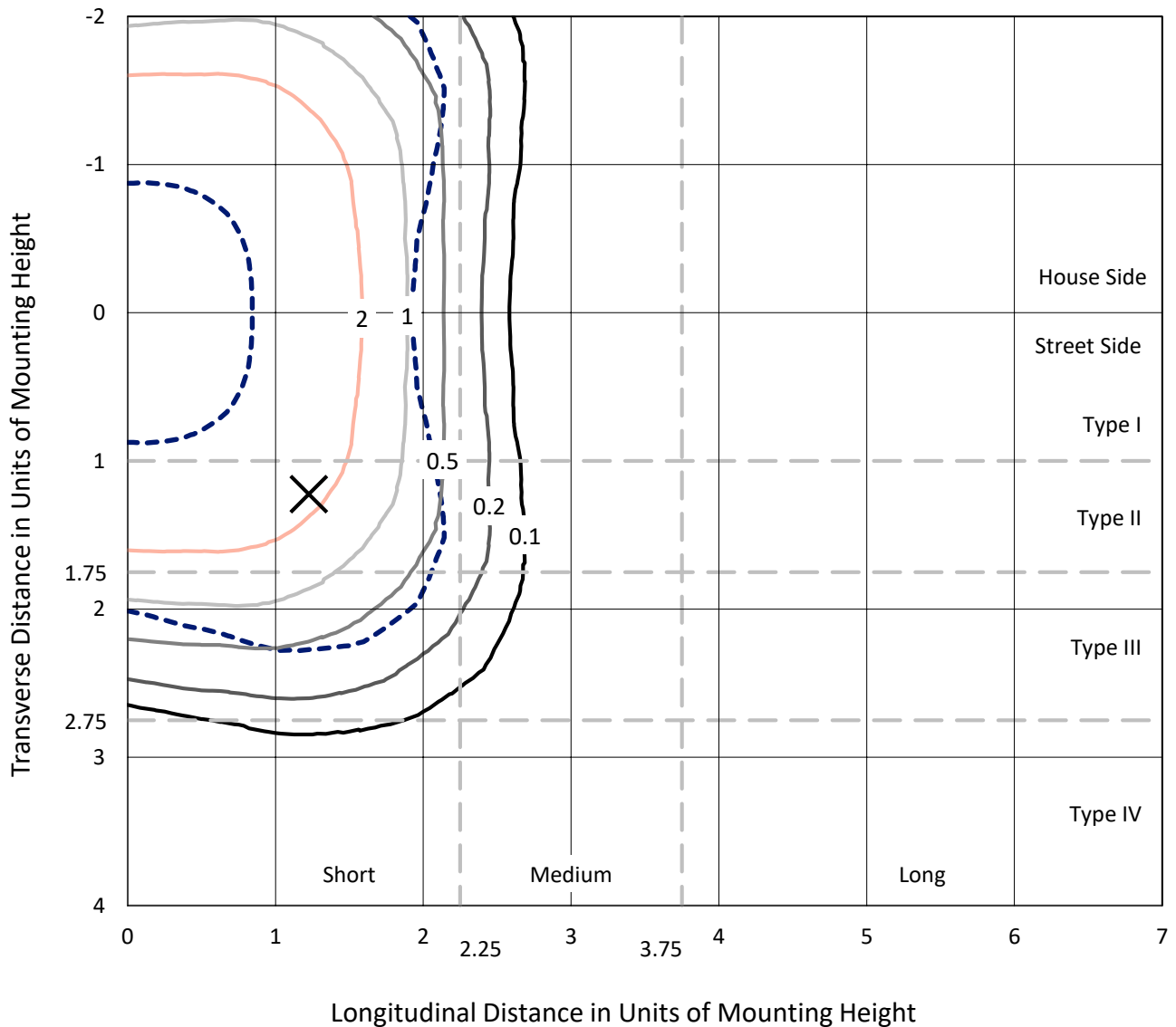
Input Watts (W): 228.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

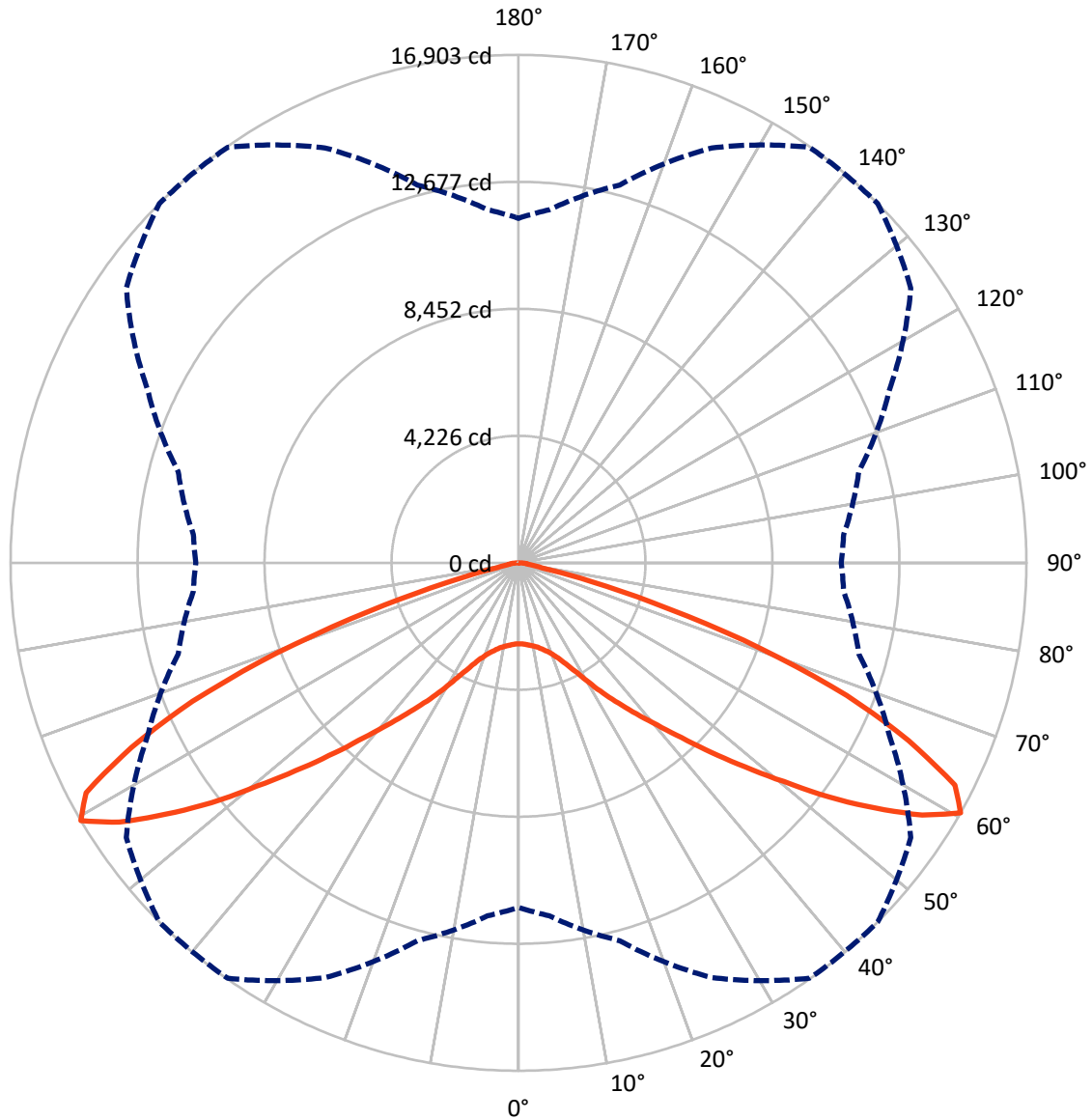
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 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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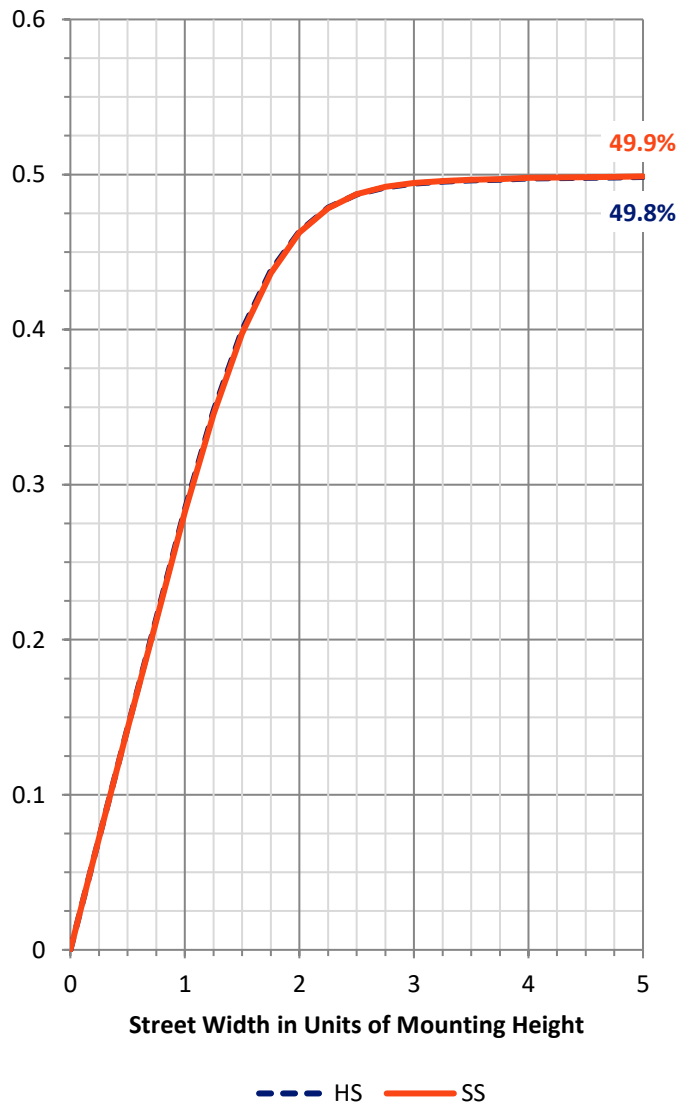
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18755.5	0.0	18755.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18755.5	0.0	18755.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	37511.0	0.0	37511.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.6	0.7
10°-20°	859.3	2.3
20°-30°	1825.1	4.9
30°-40°	3869.8	10.3
40°-50°	7359.3	19.6
50°-60°	11675.2	31.1
60°-70°	9868.6	26.3
70°-80°	1623.5	4.3
80°-90°	166.5	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°	37511.0	100.0
0°-180°	37511.0	100.0

Coefficient of Utilization



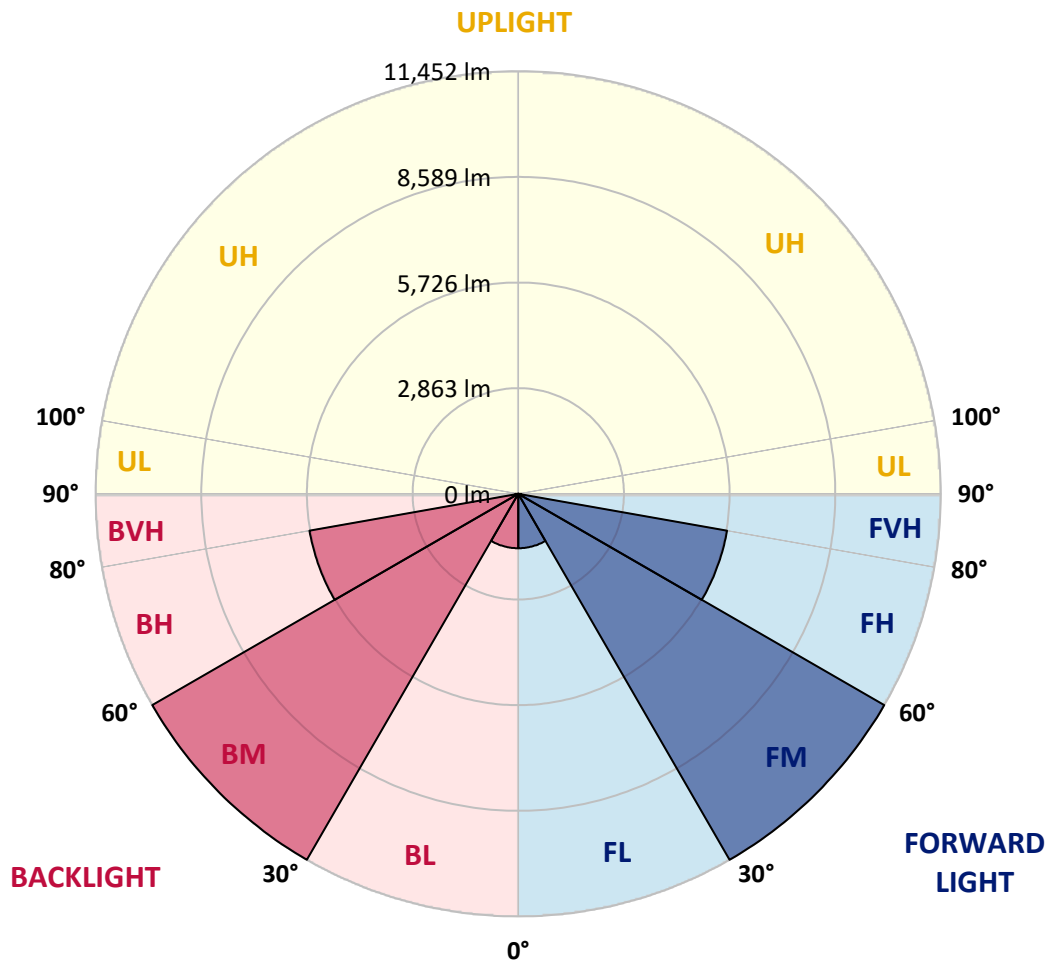
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1474.0	3.9			
FM (30°-60°)	11452.2	30.5			
FH (60°-80°)	5746.1	15.3			G3/7500
FVH (80°-90°)	83.2	0.2			G1/100
BL (0°-30°)	1474.0	3.9	B3/2500		
BM (30°-60°)	11452.2	30.5	B5		
BH (60°-80°)	5746.1	15.3	B5		G3/7500
BVH (80°-90°)	83.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2693.2	2693.2	2693.2	2693.2	2693.2	2693.2	2693.2	2693.2	2693.2	2693.2	2693.2
2.5°	2712.6	2705.9	2703.8	2700.9	2702.3	2703.1	2706.9	2707.3	2707.3	2710.8	2716.8
5°	2743.0	2734.2	2731.0	2727.4	2729.2	2731.0	2734.5	2736.6	2736.3	2738.4	2743.7
7.5°	2775.9	2772.7	2768.8	2766.7	2766.7	2771.6	2769.2	2773.1	2772.7	2775.2	2778.4
10°	2824.7	2817.6	2817.2	2813.4	2815.1	2819.4	2820.1	2819.4	2820.1	2821.5	2828.9
12.5°	2886.5	2884.8	2885.8	2882.6	2881.6	2886.2	2887.2	2891.8	2893.3	2897.5	2902.1
15°	2986.2	2974.9	2973.5	2973.1	2975.3	2982.3	2984.5	2992.9	2996.8	3002.8	3013.1
17.5°	3099.0	3102.9	3095.8	3095.1	3094.8	3100.4	3106.1	3124.8	3130.8	3144.6	3153.4
20°	3278.9	3271.9	3267.6	3250.7	3246.4	3256.3	3276.8	3301.6	3313.2	3335.2	3351.8
22.5°	3519.3	3507.3	3478.3	3458.2	3449.7	3466.7	3488.9	3528.5	3575.6	3602.8	3610.2
25°	3866.9	3819.5	3783.4	3747.7	3735.0	3760.1	3796.2	3859.1	3918.1	3972.6	3997.7
27.5°	4290.0	4260.0	4188.2	4132.0	4109.7	4130.9	4205.9	4294.6	4402.8	4459.4	4467.9
30°	4827.4	4811.8	4720.3	4614.9	4575.3	4612.1	4700.5	4821.4	4972.0	5088.3	5108.8
32.5°	5492.7	5413.9	5286.6	5166.1	5123.6	5168.5	5257.3	5430.9	5633.8	5762.5	5806.3
35°	6255.6	6166.5	5975.3	5790.0	5735.2	5740.9	5883.0	6127.7	6405.2	6584.8	6633.9
37.5°	7097.0	7006.2	6780.6	6493.2	6366.3	6375.8	6561.8	6880.0	7260.4	7456.2	7521.3
40°	7995.0	7900.9	7668.3	7344.5	7135.9	7093.5	7342.0	7729.5	8115.9	8352.0	8377.1
42.5°	8872.8	8761.4	8574.4	8250.6	8060.4	7946.5	8246.7	8597.7	8987.3	9200.1	9216.8
45°	9656.9	9635.3	9485.1	9250.3	9093.7	8993.0	9207.2	9555.8	9828.0	9962.7	10011.8
47.5°	10414.9	10401.4	10353.3	10271.3	10310.2	10142.6	10245.5	10403.5	10553.1	10652.1	10690.3
50°	11079.1	11093.3	11187.7	11327.3	11608.7	11439.0	11406.9	11236.8	11241.0	11248.8	11288.4
52.5°	11627.8	11702.8	11940.3	12361.7	12969.4	12965.5	12478.7	12029.8	11826.8	11736.7	11744.8
55°	12106.1	12234.5	12626.9	13496.9	14366.6	14410.1	13747.9	12753.4	12373.0	12180.7	12205.8
57.5°	12370.2	12565.7	13230.0	14550.8	15790.2	15842.5	15105.1	13554.9	12683.8	12197.0	12217.8
60°	11463.8	11792.9	13017.5	15230.6	16879.1	16903.1	15934.8	13617.8	11722.9	10861.4	10735.2
62.5°	9381.2	9837.2	11564.9	14703.8	16374.6	16300.0	15415.5	12438.8	9630.0	8585.0	8479.0
65°	7046.8	7475.6	9284.6	12590.1	14367.6	14269.3	13368.6	9830.8	7060.3	5950.9	5820.4
67.5°	3813.8	4461.5	6154.2	9617.3	11453.5	11786.9	10538.9	6852.0	4108.7	2978.8	2864.3
70°	1317.2	1702.2	3137.9	6037.2	8261.2	8595.6	7186.8	3674.9	1798.0	1124.2	1009.3
72.5°	467.7	539.1	1179.7	2915.5	4703.3	5211.3	3877.8	1478.1	573.1	417.5	409.0
75°	330.2	340.8	419.3	950.6	2036.3	2494.1	1529.0	490.7	357.4	334.1	332.0
77.5°	294.8	300.9	339.7	387.1	622.2	796.5	470.5	356.0	310.4	297.3	292.7
80°	280.3	284.9	296.3	317.5	352.8	367.0	317.5	304.4	282.5	276.8	275.0
82.5°	245.0	243.9	247.1	256.0	271.9	275.4	254.9	238.6	239.0	232.3	229.1
85°	165.8	175.7	168.3	159.1	197.3	198.3	184.9	138.6	157.3	154.1	141.1
87.5°	50.2	56.6	44.9	31.1	42.8	33.2	30.0	31.1	29.7	25.8	23.3
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)