

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: P510722

Luminaire Tested: **CST-CA8-230-730-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510722  
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-CA8-230-730-U-T5  
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: 36309 lumens  
Efficiency: N/A  
Efficacy: 159.0 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

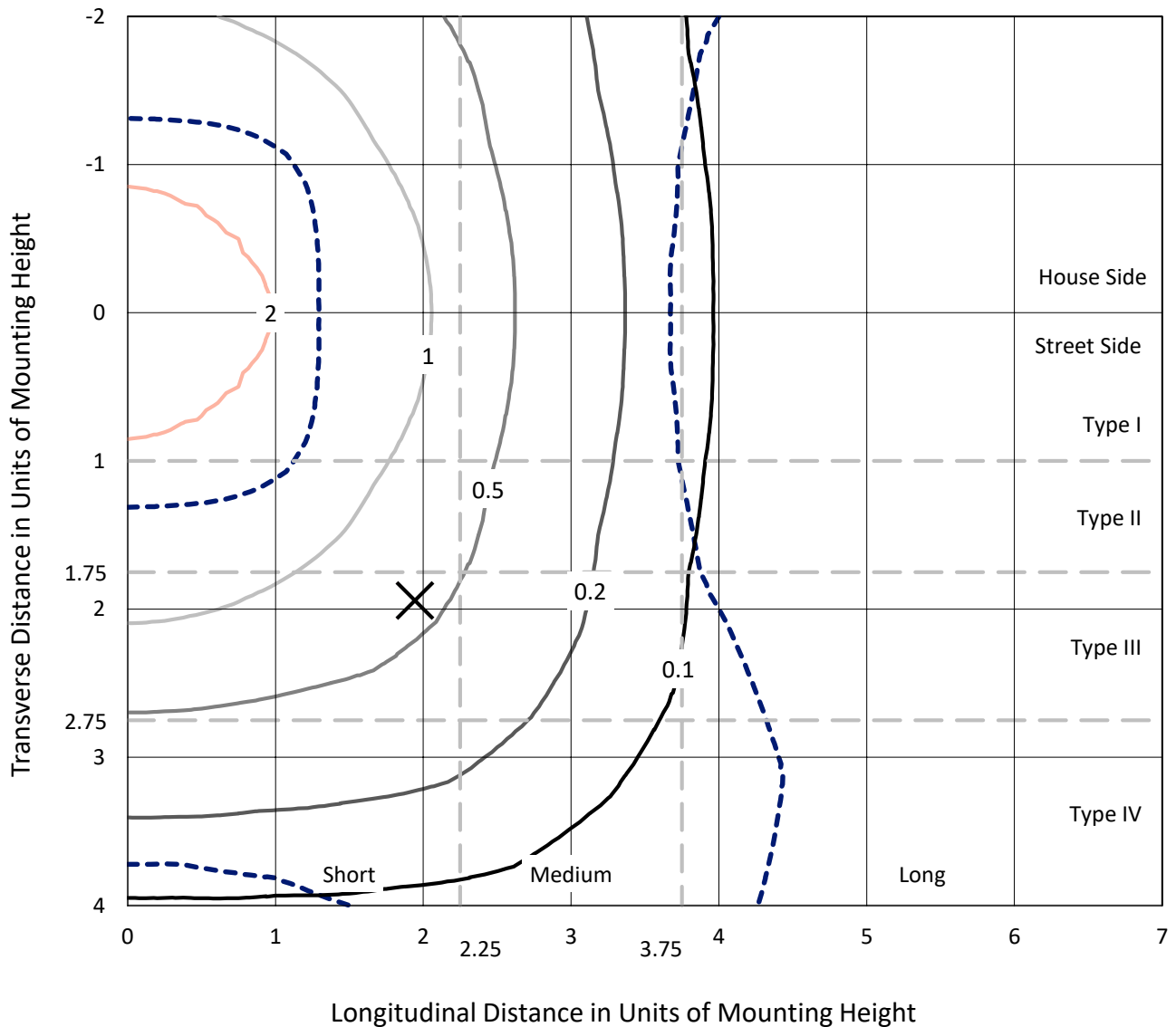
Input Watts (W): 228.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

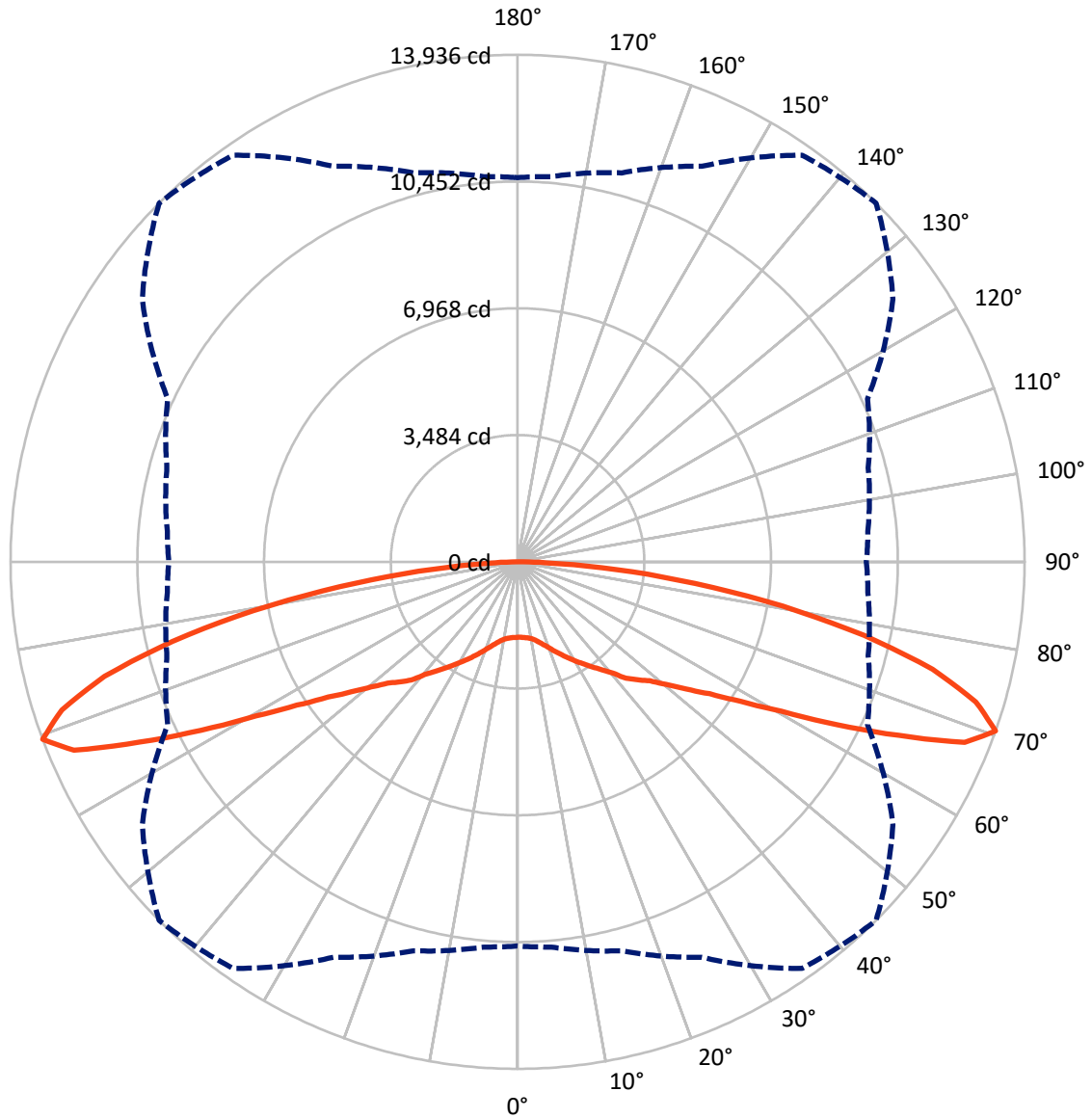
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.3 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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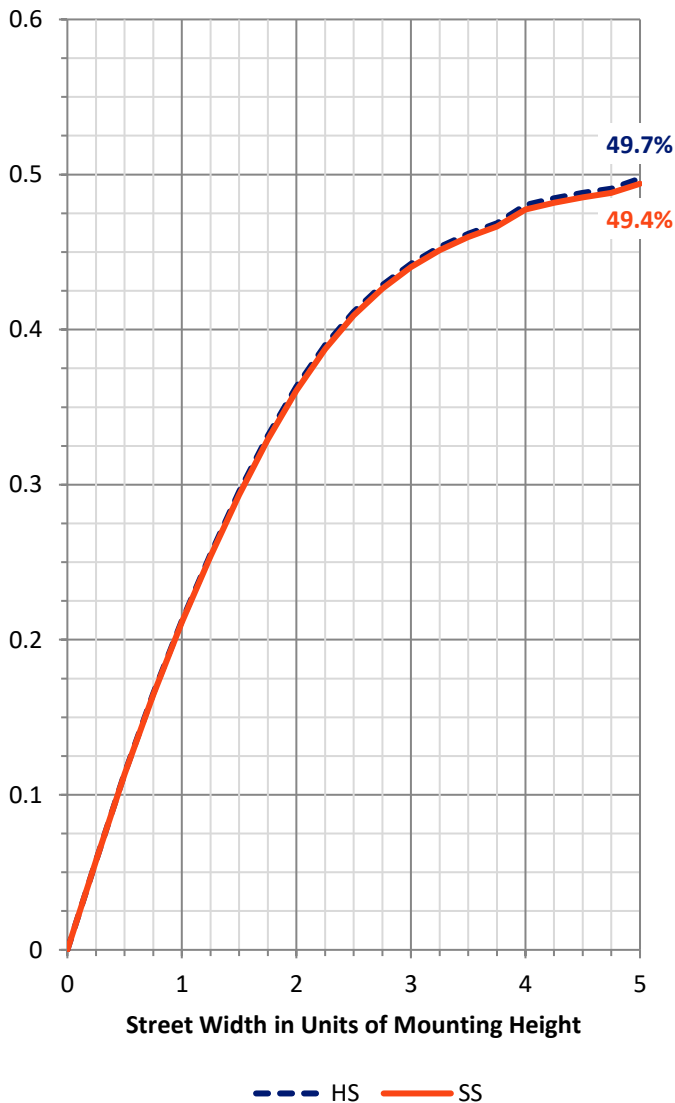
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18154.5	0.0	18154.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18154.5	0.0	18154.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36309.0	0.0	36309.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.7	0.6
10°-20°	656.9	1.8
20°-30°	1300.4	3.6
30°-40°	2249.7	6.2
40°-50°	3743.1	10.3
50°-60°	6528.6	18.0
60°-70°	10807.7	29.8
70°-80°	9057.7	24.9
80°-90°	1763.2	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°	36309.0	100.0
0°-180°	36309.0	100.0

**Coefficient of Utilization**

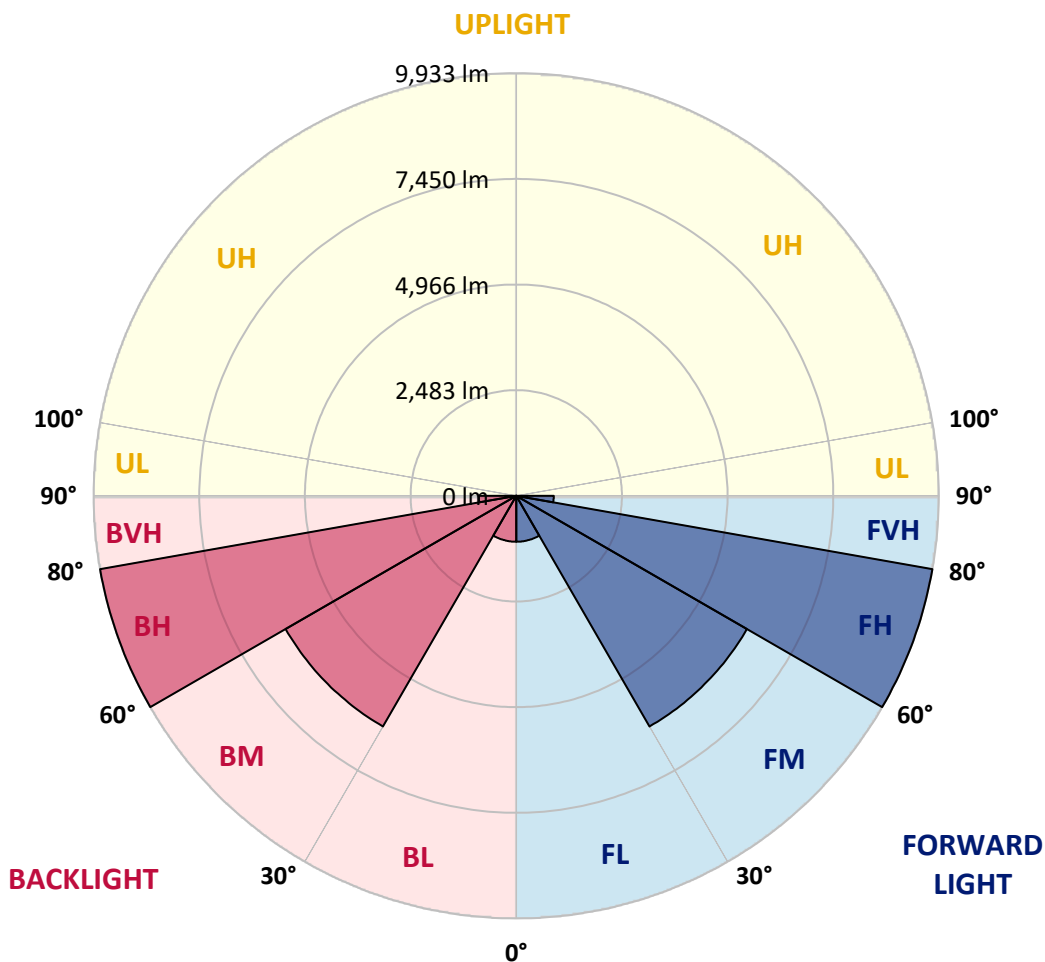


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1079.5	3.0			
FM (30°-60°)	6260.7	17.2			
FH (60°-80°)	9932.7	27.4			G4/12000
FVH (80°-90°)	881.6	2.4			G5
BL (0°-30°)	1079.5	3.0	B3/2500		
BM (30°-60°)	6260.7	17.2	B4/8500		
BH (60°-80°)	9932.7	27.4	B5		G4/12000
BVH (80°-90°)	881.6	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°	2075.2	2075.2	2075.2	2075.2	2075.2	2075.2	2075.2	2075.2	2075.2	2075.2	2075.2
2.5°	2088.1	2081.6	2079.5	2077.3	2078.8	2078.1	2081.6	2083.1	2084.5	2091.0	2087.4
5°	2101.1	2096.0	2095.3	2092.4	2091.7	2091.7	2096.7	2097.5	2098.2	2102.5	2098.2
7.5°	2124.8	2119.8	2118.3	2116.9	2116.2	2113.3	2116.9	2115.4	2116.9	2119.0	2114.0
10°	2162.2	2156.4	2155.0	2151.4	2153.6	2149.2	2152.1	2148.5	2142.0	2143.5	2136.3
12.5°	2213.2	2208.2	2210.4	2209.6	2218.3	2216.1	2210.4	2203.2	2192.4	2185.2	2177.3
15°	2288.7	2280.8	2286.6	2292.3	2301.0	2304.6	2300.2	2280.8	2265.0	2253.5	2247.0
17.5°	2380.8	2367.8	2379.3	2390.8	2409.5	2413.1	2397.3	2373.6	2356.3	2351.3	2340.5
20°	2487.9	2485.8	2486.5	2505.2	2533.9	2539.0	2518.1	2490.1	2472.8	2473.5	2461.3
22.5°	2617.3	2605.8	2609.4	2628.1	2669.1	2682.8	2648.3	2617.3	2606.6	2609.4	2608.0
25°	2765.5	2754.7	2749.6	2758.3	2811.5	2835.2	2802.1	2766.2	2761.1	2767.6	2757.6
27.5°	2928.0	2917.9	2912.1	2916.5	2958.2	3002.7	2966.1	2935.9	2935.2	2944.5	2938.8
30°	3112.8	3097.7	3091.2	3096.2	3125.0	3168.1	3138.6	3120.7	3135.8	3142.2	3140.1
32.5°	3299.7	3292.5	3290.4	3288.9	3324.2	3348.6	3334.2	3337.8	3350.0	3379.5	3370.2
35°	3512.6	3491.7	3497.5	3501.8	3547.8	3549.9	3551.4	3557.9	3590.2	3631.9	3607.5
37.5°	3734.0	3729.0	3732.6	3720.4	3754.2	3767.8	3787.9	3809.5	3860.6	3908.7	3898.7
40°	4008.0	3998.6	4002.2	3987.8	4004.4	4015.2	4056.2	4102.9	4168.3	4220.1	4196.4
42.5°	4371.1	4347.4	4347.4	4351.7	4386.2	4374.7	4462.4	4475.4	4556.6	4600.5	4586.8
45°	4798.2	4789.6	4744.3	4668.1	4624.9	4624.2	4694.7	4799.7	4934.1	5025.4	5024.7
47.5°	5341.1	5314.5	5205.9	5022.6	4913.3	4886.7	4960.7	5164.9	5412.3	5554.7	5552.5
50°	6053.0	6019.2	5854.5	5569.8	5356.9	5291.5	5410.1	5674.7	6007.7	6197.5	6213.3
52.5°	6849.7	6852.5	6666.3	6235.6	5920.6	5802.7	5928.6	6306.8	6721.7	6982.0	7012.9
55°	7775.1	7752.8	7576.6	7088.4	6654.8	6401.7	6592.2	7093.4	7570.1	7768.6	7823.3
57.5°	8738.6	8651.6	8516.4	8059.8	7552.9	7229.3	7458.0	7948.4	8405.0	8658.1	8649.4
60°	9592.8	9535.3	9457.6	9093.8	8704.8	8335.2	8511.4	8926.3	9317.4	9470.6	9477.1
62.5°	10526.2	10478.0	10408.2	10209.1	9994.8	9857.4	9697.8	9889.8	10195.4	10362.9	10417.6
65°	11442.2	11425.0	11465.2	11435.0	11525.6	11505.5	11123.0	11002.2	11007.2	10959.7	10935.3
67.5°	11388.3	11381.8	11619.1	12092.2	12995.4	13251.3	12269.8	11176.9	10684.3	10559.2	10541.3
70°	10557.8	10627.5	11066.9	11993.0	13641.1	13935.9	12592.0	10608.1	9978.2	9664.7	9587.1
72.5°	8960.1	9096.7	9770.4	11134.5	13104.7	13172.3	11782.3	9752.5	8824.9	8451.0	8395.6
75°	6913.7	6930.9	7620.5	9354.1	11695.3	11780.2	10510.3	8179.9	7267.4	6802.2	6787.8
77.5°	4210.7	4455.9	5461.9	7013.6	9297.3	9738.8	8790.4	6515.3	5430.3	5018.2	4788.1
80°	2065.8	2178.0	2902.8	4434.4	6645.4	7385.3	6523.2	4506.3	3349.3	2826.6	2769.1
82.5°	940.5	1000.2	1373.4	2318.2	4010.1	4926.9	4026.0	2580.7	1788.3	1398.5	1385.6
85°	365.3	363.1	555.8	972.9	1919.9	2728.1	2038.5	1231.0	818.3	608.3	573.8
87.5°	106.4	113.6	163.2	319.3	568.8	766.5	628.4	425.7	251.7	161.8	148.8
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)