

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: P510752

Luminaire Tested: **CST-CA8-230-760-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510752  
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-CA8-230-760-U-T5  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36859 lumens  
Efficiency: N/A  
Efficacy: 161.4 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

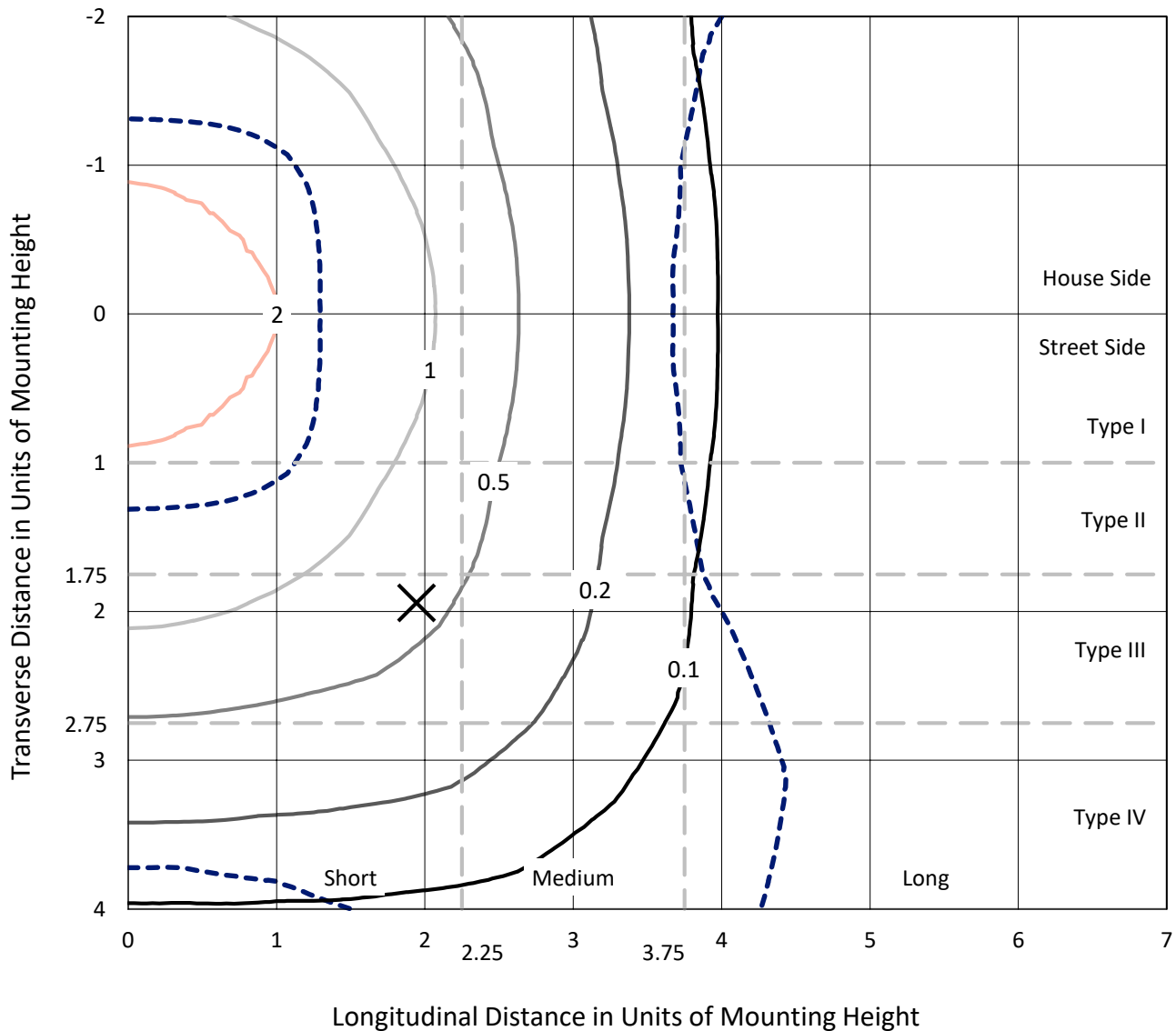




REPORT NUMBER: P510752  
 CATALOG NUMBER: CST-CA8-230-760-U-T5

### Iso-Footcandle Lines of Horizontal Illumination

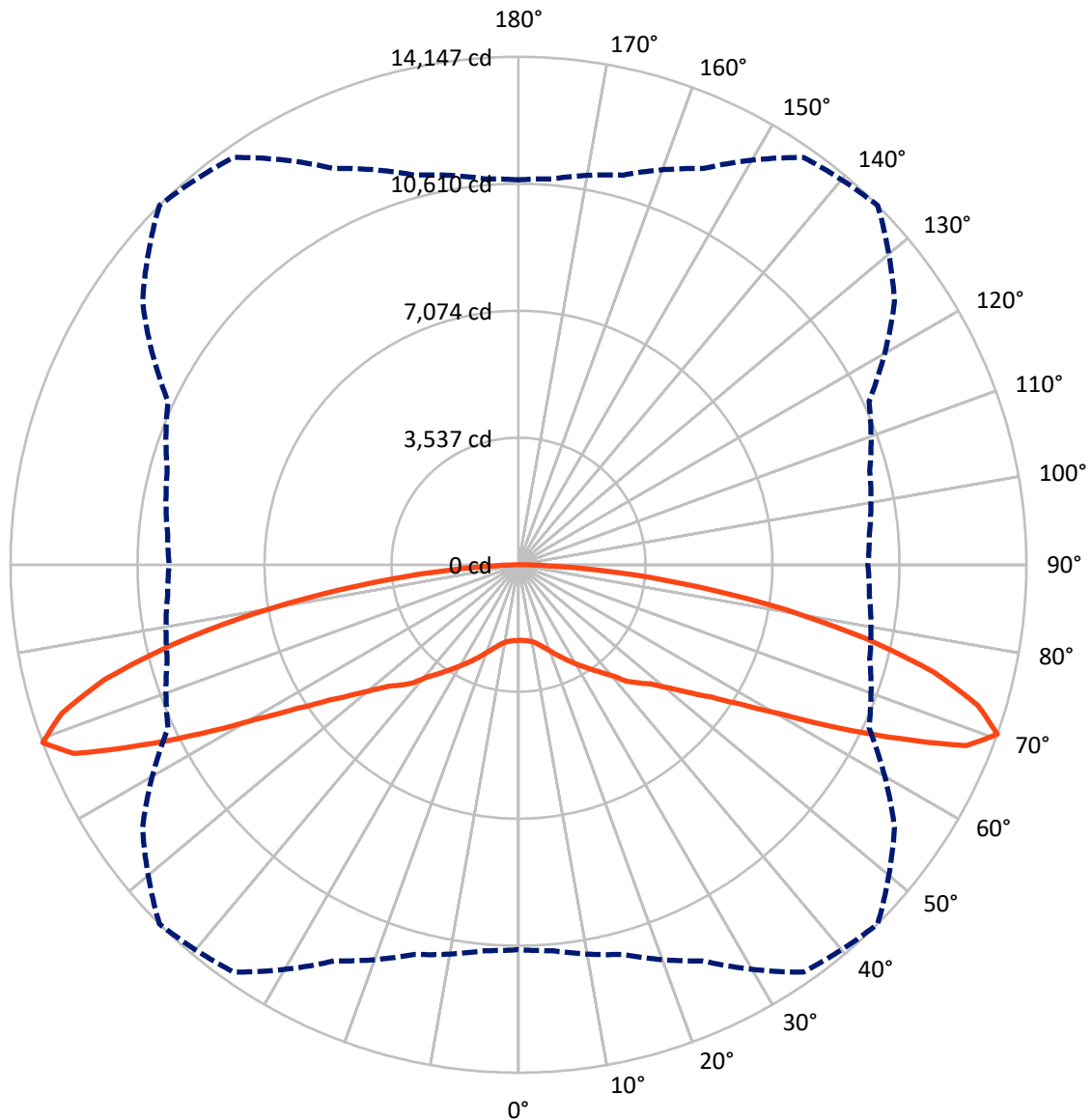
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.4 fc  
 Type V - Short - N/A

REPORT NUMBER: P510752  
CATALOG NUMBER: CST-CA8-230-760-U-T5

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P510752  
 CATALOG NUMBER: CST-CA8-230-760-U-T5

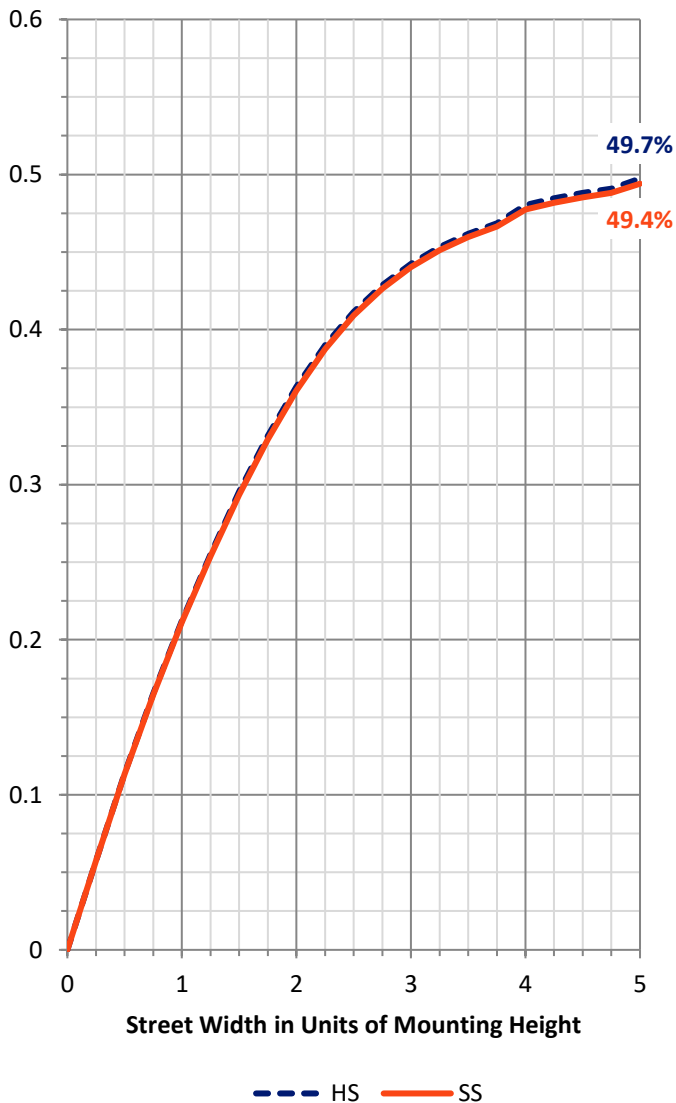
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18429.5	0.0	18429.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18429.5	0.0	18429.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36859.0	0.0	36859.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.8	0.6
10°-20°	666.9	1.8
20°-30°	1320.1	3.6
30°-40°	2283.7	6.2
40°-50°	3799.8	10.3
50°-60°	6627.4	18.0
60°-70°	10971.4	29.8
70°-80°	9194.9	24.9
80°-90°	1789.9	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°	36859.0	100.0
0°-180°	36859.0	100.0

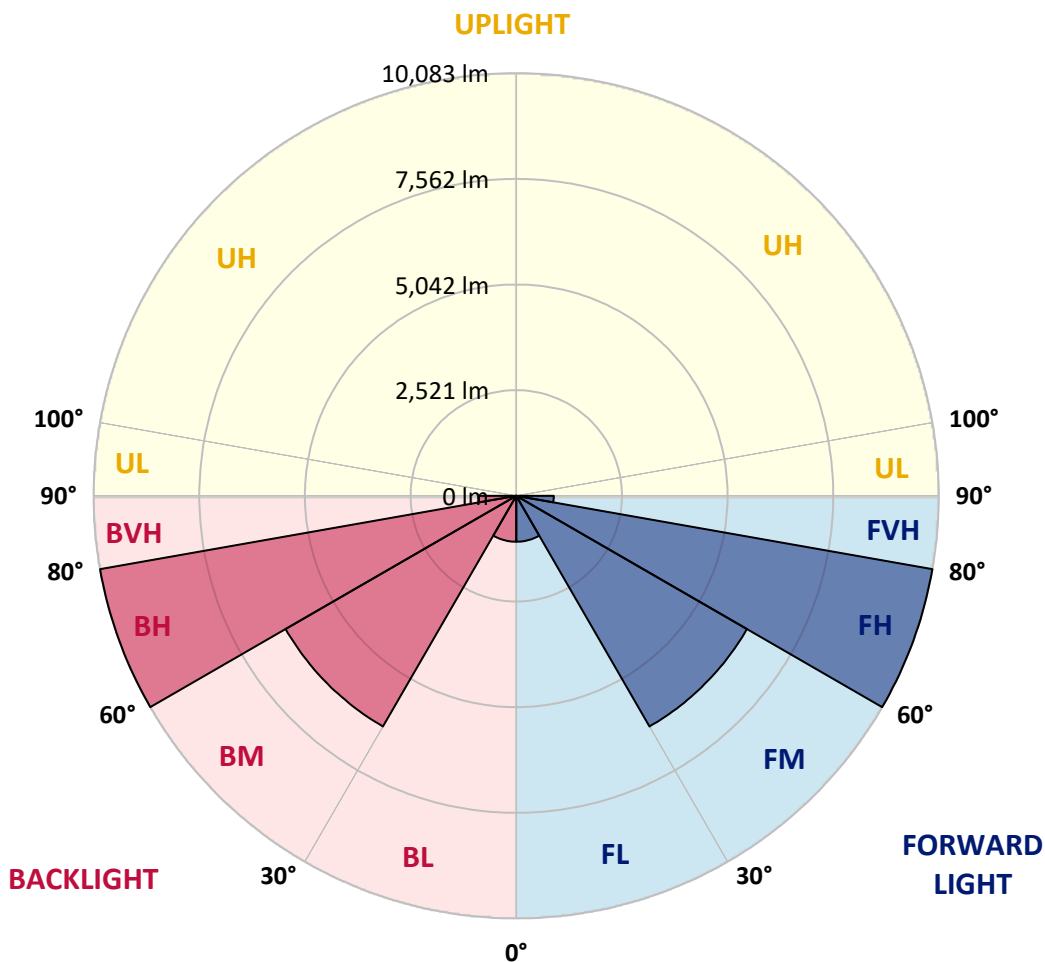


REPORT NUMBER: P510752  
 CATALOG NUMBER: CST-CA8-230-760-U-T5

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1095.9	3.0			
FM (30°-60°)	6355.5	17.2			
FH (60°-80°)	10083.2	27.4			G4/12000
FVH (80°-90°)	895.0	2.4			G5
BL (0°-30°)	1095.9	3.0	B3/2500		
BM (30°-60°)	6355.5	17.2	B4/8500		
BH (60°-80°)	10083.2	27.4	B5		G4/12000
BVH (80°-90°)	895.0	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





REPORT NUMBER: P510752  
 CATALOG NUMBER: CST-CA8-230-760-U-T5

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6
2.5°	2119.7	2113.2	2111.0	2108.8	2110.3	2109.5	2113.2	2114.6	2116.1	2122.7	2119.0
5°	2132.9	2127.8	2127.0	2124.1	2123.4	2123.4	2128.5	2129.2	2130.0	2134.3	2130.0
7.5°	2157.0	2151.9	2150.4	2148.9	2148.2	2145.3	2148.9	2147.5	2148.9	2151.1	2146.0
10°	2194.9	2189.1	2187.6	2184.0	2186.2	2181.8	2184.7	2181.1	2174.5	2176.0	2168.7
12.5°	2246.8	2241.6	2243.8	2243.1	2251.9	2249.7	2243.8	2236.5	2225.6	2218.3	2210.3
15°	2323.4	2315.4	2321.2	2327.1	2335.8	2339.5	2335.1	2315.4	2299.3	2287.6	2281.1
17.5°	2416.8	2403.7	2415.4	2427.1	2446.0	2449.7	2433.6	2409.5	2392.0	2386.9	2376.0
20°	2525.6	2523.4	2524.1	2543.1	2572.3	2577.4	2556.3	2527.8	2510.3	2511.0	2498.6
22.5°	2657.0	2645.3	2649.0	2667.9	2709.5	2723.4	2688.4	2657.0	2646.0	2649.0	2647.5
25°	2807.4	2796.4	2791.3	2800.1	2854.1	2878.2	2844.6	2808.1	2803.0	2809.5	2799.3
27.5°	2972.3	2962.1	2956.3	2960.6	3003.0	3048.2	3011.0	2980.3	2979.6	2989.1	2983.3
30°	3159.9	3144.6	3138.0	3143.1	3172.3	3216.1	3186.2	3167.9	3183.3	3189.8	3187.7
32.5°	3349.7	3342.4	3340.2	3338.7	3374.5	3399.3	3384.7	3388.4	3400.8	3430.7	3421.2
35°	3565.8	3544.6	3550.4	3554.8	3601.5	3603.7	3605.2	3611.7	3644.6	3686.9	3662.1
37.5°	3790.6	3785.5	3789.1	3776.7	3811.0	3824.9	3845.3	3867.2	3919.1	3968.0	3957.7
40°	4068.7	4059.2	4062.9	4048.3	4065.0	4076.0	4117.6	4165.0	4231.5	4284.0	4259.9
42.5°	4437.3	4413.2	4413.2	4417.6	4452.6	4441.0	4530.0	4543.2	4625.6	4670.2	4656.3
45°	4870.9	4862.1	4816.1	4738.8	4695.0	4694.2	4765.8	4872.4	5008.9	5101.6	5100.8
47.5°	5422.0	5395.0	5284.8	5098.6	4987.7	4960.7	5035.9	5243.2	5494.3	5638.8	5636.6
50°	6144.6	6110.3	5943.2	5654.1	5438.1	5371.6	5492.1	5760.7	6098.7	6291.4	6307.4
52.5°	6953.4	6956.3	6767.3	6330.0	6010.3	5890.6	6018.4	6402.3	6823.5	7087.7	7119.1
55°	7892.8	7870.2	7691.4	7195.8	6755.6	6498.7	6692.1	7200.9	7684.8	7886.3	7941.8
57.5°	8871.0	8782.6	8645.4	8181.9	7667.3	7338.8	7570.9	8068.8	8532.3	8789.2	8780.5
60°	9738.1	9679.7	9600.9	9231.6	8836.7	8461.5	8640.3	9061.5	9458.6	9614.0	9620.6
62.5°	10685.6	10636.7	10565.9	10363.7	10146.2	10006.8	9844.7	10039.6	10349.8	10519.9	10575.4
65°	11615.5	11598.0	11638.9	11608.2	11700.2	11679.8	11291.5	11168.8	11173.9	11125.8	11100.9
67.5°	11560.8	11554.2	11795.1	12275.4	13192.2	13452.1	12455.7	11346.2	10846.2	10719.2	10700.9
70°	10717.7	10788.5	11234.5	12174.7	13847.7	14147.0	12782.7	10768.8	10129.4	9811.1	9732.3
72.5°	9095.8	9234.5	9918.4	11303.1	13303.2	13371.8	11960.8	9900.2	8958.6	8579.0	8522.8
75°	7018.4	7035.9	7735.9	9495.8	11872.5	11958.6	10669.5	8303.8	7377.5	6905.2	6890.6
77.5°	4274.5	4523.4	5544.6	7119.8	9438.1	9886.3	8923.5	6614.0	5512.5	5094.3	4860.7
80°	2097.1	2211.0	2946.8	4501.5	6746.1	7497.2	6622.0	4574.5	3400.1	2869.4	2811.0
82.5°	954.8	1015.3	1394.2	2353.3	4070.9	5001.6	4086.9	2619.8	1815.4	1419.7	1406.6
85°	370.8	368.6	564.2	987.6	1948.9	2769.4	2069.4	1249.7	830.7	617.5	582.5
87.5°	108.0	115.3	165.7	324.1	577.4	778.1	638.0	432.1	255.5	164.2	151.1
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)