

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: P510763

Luminaire Tested: **CST-CA8-330-722-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510763
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-CA8-330-722-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42516 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

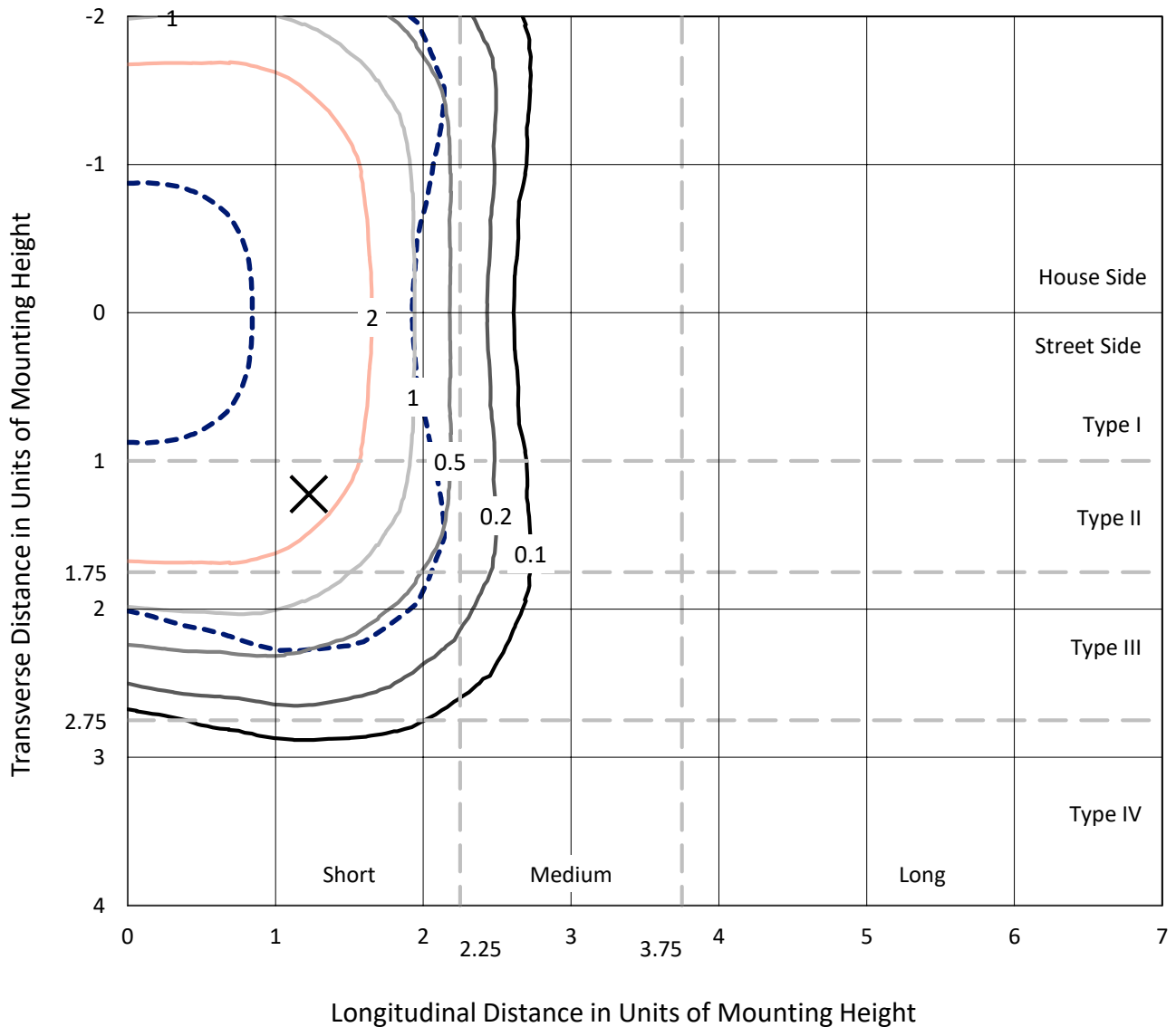
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510763
 CATALOG NUMBER: CST-CA8-330-722-U-T5N

Iso-Footcandle Lines of Horizontal Illumination

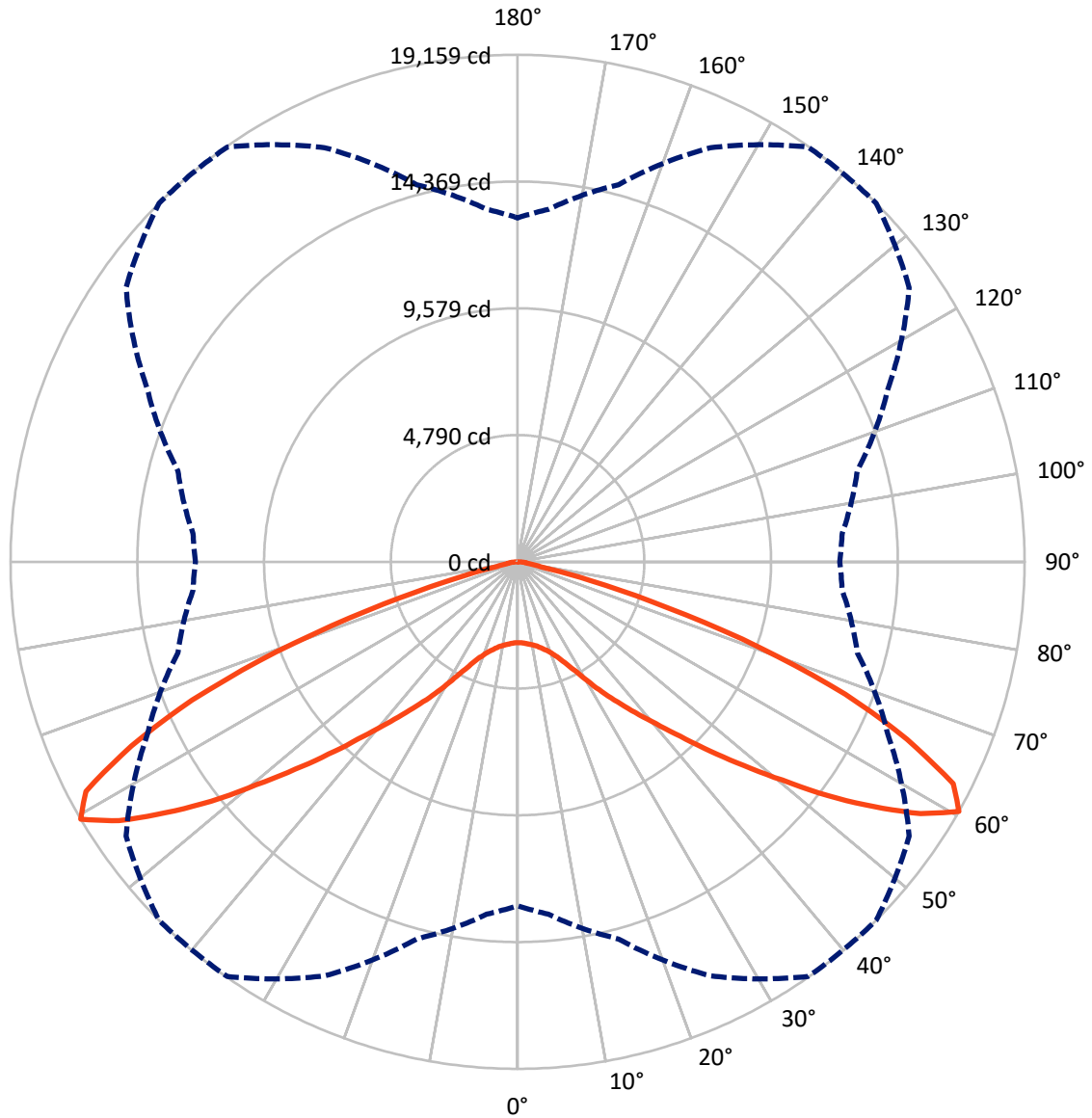
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

REPORT NUMBER: P510763
CATALOG NUMBER: CST-CA8-330-722-U-T5N

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P510763
 CATALOG NUMBER: CST-CA8-330-722-U-T5N

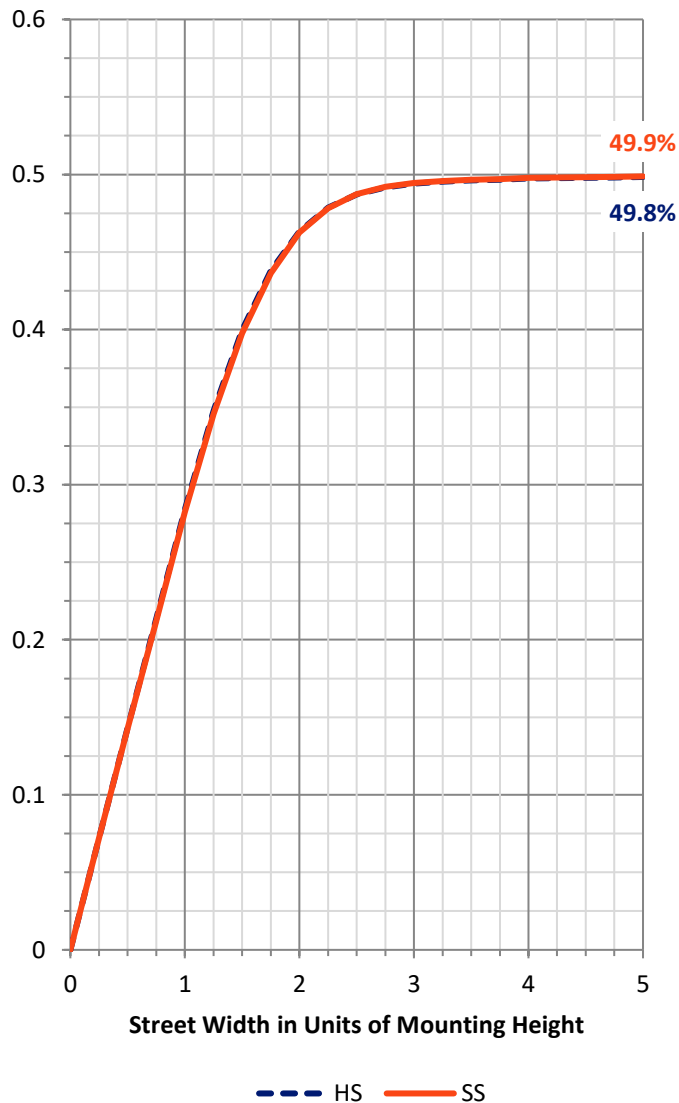
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21258.0	0.0	21258.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21258.0	0.0	21258.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	42516.0	0.0	42516.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.8	0.7
10°-20°	974.0	2.3
20°-30°	2068.6	4.9
30°-40°	4386.2	10.3
40°-50°	8341.3	19.6
50°-60°	13233.0	31.1
60°-70°	11185.4	26.3
70°-80°	1840.2	4.3
80°-90°	188.7	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°	42516.0	100.0
0°-180°	42516.0	100.0

Coefficient of Utilization

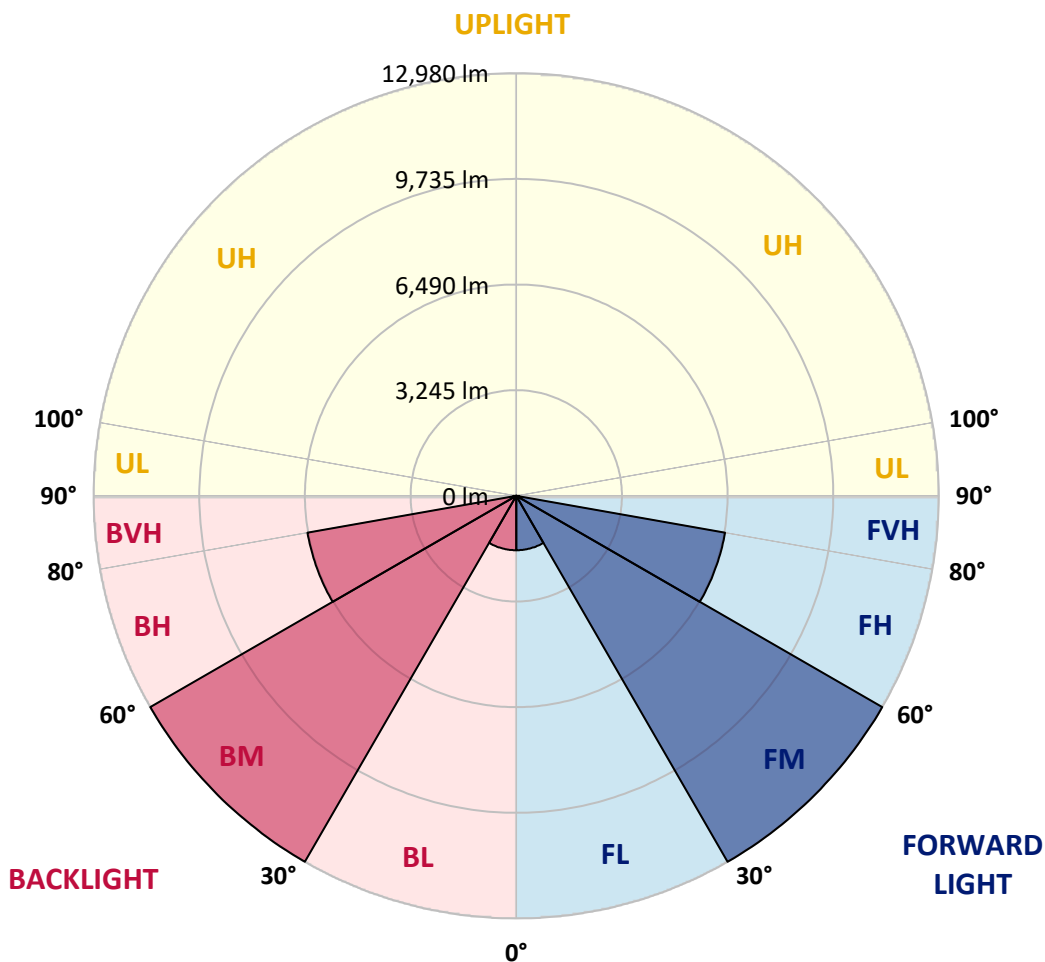


REPORT NUMBER: P510763
 CATALOG NUMBER: CST-CA8-330-722-U-T5N

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1670.7	3.9			
FM (30°-60°)	12980.2	30.5			
FH (60°-80°)	6512.8	15.3			G3/7500
FVH (80°-90°)	94.4	0.2			G1/100
BL (0°-30°)	1670.7	3.9	B3/2500		
BM (30°-60°)	12980.2	30.5	B5		
BH (60°-80°)	6512.8	15.3	B5		G3/7500
BVH (80°-90°)	94.4	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





REPORT NUMBER: P510763

CATALOG NUMBER: CST-CA8-330-722-U-T5N

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3052.5	3052.5	3052.5	3052.5	3052.5	3052.5	3052.5	3052.5	3052.5	3052.5	3052.5
2.5°	3074.5	3066.9	3064.5	3061.3	3062.9	3063.7	3068.1	3068.5	3068.5	3072.5	3079.3
5°	3109.0	3099.0	3095.4	3091.4	3093.4	3095.4	3099.4	3101.8	3101.4	3103.8	3109.8
7.5°	3146.3	3142.7	3138.2	3135.8	3135.8	3141.5	3138.6	3143.1	3142.7	3145.5	3149.1
10°	3201.6	3193.5	3193.1	3188.7	3190.7	3195.5	3196.3	3195.5	3196.3	3198.0	3206.4
12.5°	3271.7	3269.7	3270.9	3267.3	3266.1	3271.3	3272.5	3277.7	3279.3	3284.1	3289.3
15°	3384.7	3371.9	3370.2	3369.8	3372.3	3380.3	3382.7	3392.3	3396.7	3403.5	3415.1
17.5°	3512.5	3516.9	3508.9	3508.1	3507.7	3514.1	3520.5	3541.7	3548.6	3564.2	3574.2
20°	3716.5	3708.4	3703.6	3684.4	3679.6	3690.8	3714.0	3742.1	3755.3	3780.2	3799.0
22.5°	3988.9	3975.3	3942.4	3919.6	3910.0	3929.2	3954.5	3999.3	4052.6	4083.5	4091.9
25°	4382.8	4329.1	4288.2	4247.8	4233.3	4261.8	4302.7	4374.0	4440.9	4502.6	4531.1
27.5°	4862.4	4828.4	4747.0	4683.3	4658.1	4682.1	4767.1	4867.6	4990.3	5054.4	5064.0
30°	5471.5	5453.9	5350.1	5230.7	5185.8	5227.5	5327.6	5464.7	5635.4	5767.2	5790.5
32.5°	6225.6	6136.3	5992.0	5855.4	5807.3	5858.2	5958.7	6155.5	6385.5	6531.3	6581.0
35°	7090.3	6989.3	6772.6	6562.6	6500.5	6506.9	6668.0	6945.3	7259.8	7463.4	7519.1
37.5°	8044.0	7941.0	7685.3	7359.6	7215.7	7226.5	7437.3	7797.9	8229.1	8451.1	8524.8
40°	9061.7	8955.1	8691.5	8324.4	8088.0	8040.0	8321.6	8760.8	9198.8	9466.4	9494.9
42.5°	10056.7	9930.4	9718.5	9351.4	9135.9	9006.8	9347.0	9744.9	10186.5	10427.7	10446.5
45°	10945.4	10921.0	10750.7	10484.6	10307.1	10192.9	10435.7	10830.8	11139.3	11292.0	11347.7
47.5°	11804.5	11789.3	11734.8	11641.8	11685.9	11496.0	11612.6	11791.7	11961.2	12073.4	12116.6
50°	12557.4	12573.4	12680.4	12838.7	13157.6	12965.3	12928.8	12736.1	12740.9	12749.7	12794.6
52.5°	13179.3	13264.2	13533.5	14011.1	14699.9	14695.5	14143.7	13634.9	13404.9	13302.7	13311.9
55°	13721.4	13866.9	14311.6	15297.8	16283.5	16332.7	15582.2	14455.1	14023.9	13806.0	13834.4
57.5°	14020.7	14242.3	14995.2	16492.2	17897.1	17956.4	17120.5	15363.5	14376.2	13824.4	13848.0
60°	12993.4	13366.4	14754.4	17262.8	19131.2	19158.5	18060.9	15434.8	13287.1	12310.6	12167.5
62.5°	10632.9	11149.8	13108.0	16665.7	18559.4	18474.9	17472.3	14098.5	10914.9	9730.5	9610.3
65°	7987.1	8473.1	10523.5	14270.0	16284.7	16173.3	15152.3	11142.5	8002.3	6744.9	6597.0
67.5°	4322.7	5056.8	6975.3	10900.5	12981.7	13359.6	11945.1	7766.3	4656.9	3376.3	3246.4
70°	1493.0	1929.3	3556.6	6842.7	9363.5	9742.5	8145.7	4165.2	2037.9	1274.2	1144.0
72.5°	530.1	611.1	1337.1	3304.5	5330.9	5906.7	4395.2	1675.3	649.5	473.2	463.6
75°	374.2	386.3	475.2	1077.5	2308.0	2826.9	1733.0	556.2	405.1	378.7	376.3
77.5°	334.2	341.0	385.1	438.8	705.2	902.8	533.3	403.5	351.8	337.0	331.8
80°	317.8	323.0	335.8	359.8	399.9	415.9	359.8	345.0	320.2	313.7	311.7
82.5°	277.7	276.5	280.1	290.1	308.1	312.1	288.9	270.5	270.9	263.3	259.7
85°	187.9	199.1	190.7	180.3	223.6	224.8	209.6	157.1	178.3	174.7	159.9
87.5°	56.9	64.1	50.9	35.3	48.5	37.7	34.1	35.3	33.7	29.3	26.4
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)