

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: P510822

Luminaire Tested: **CST-CA8-480-722-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510822  
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-CA8-480-722-U-T5  
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: 59751 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

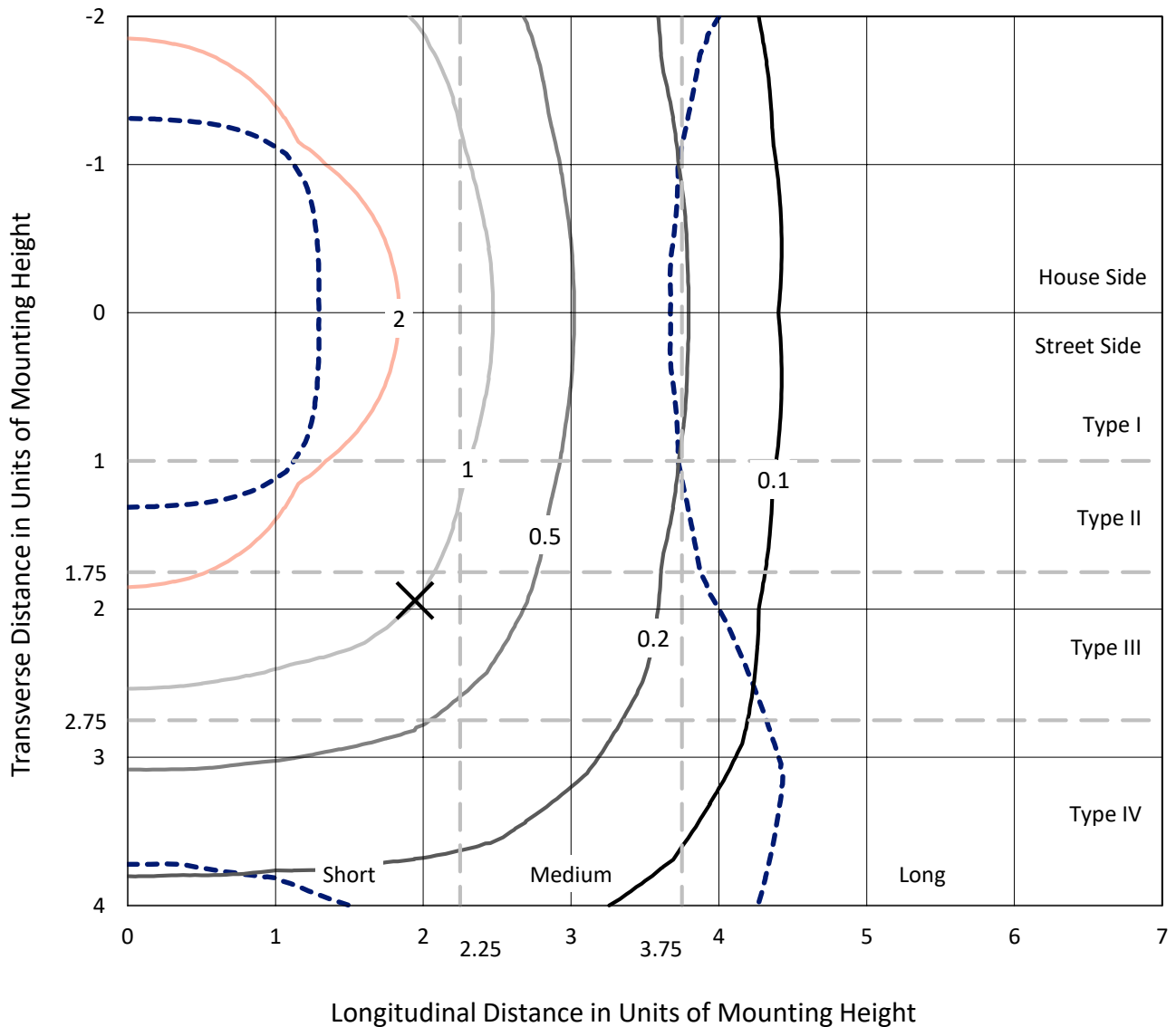
Input Watts (W): 480.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

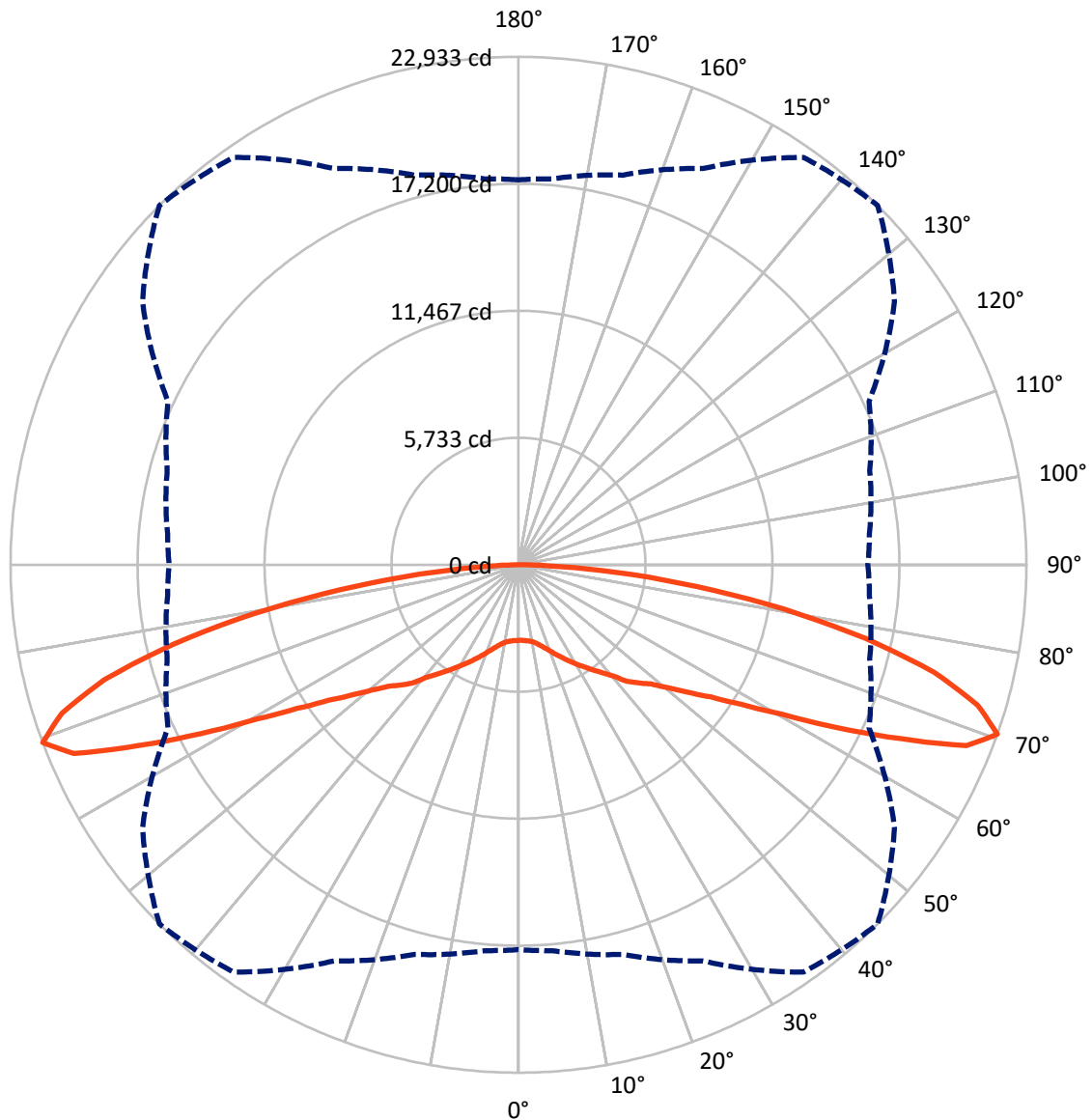
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.8 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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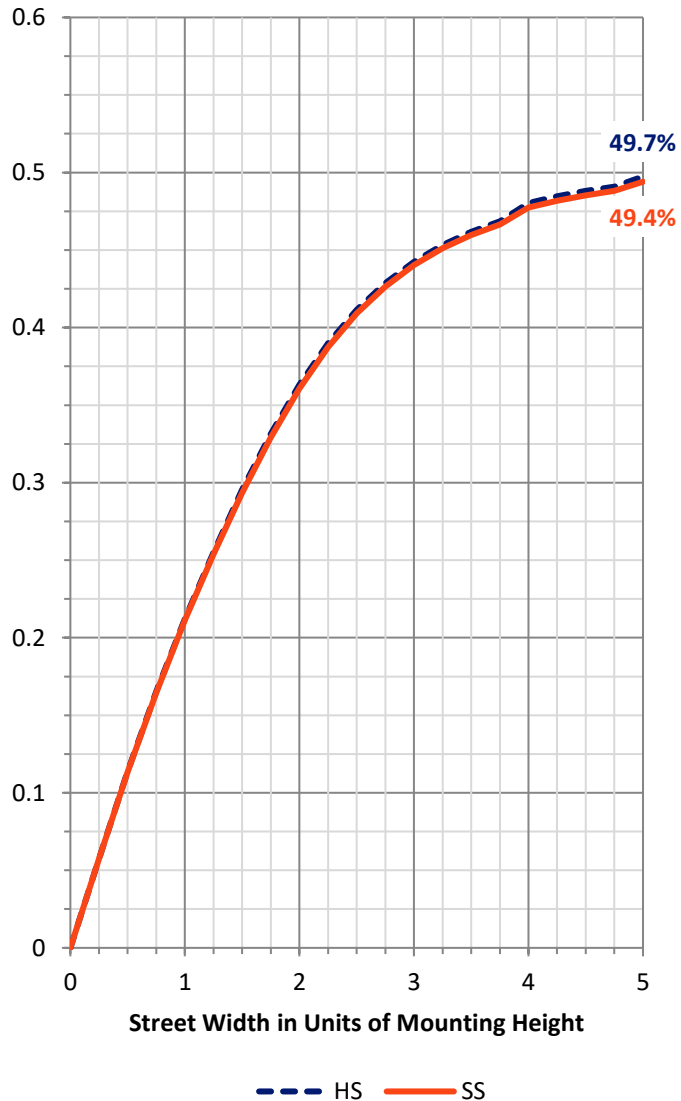
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	29875.5	0.0	29875.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	29875.5	0.0	29875.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	59751.0	0.0	59751.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.0	0.6
10°-20°	1081.0	1.8
20°-30°	2140.0	3.6
30°-40°	3702.1	6.2
40°-50°	6159.7	10.3
50°-60°	10743.5	18.0
60°-70°	17785.4	29.8
70°-80°	14905.6	24.9
80°-90°	2901.6	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°	59751.0	100.0
0°-180°	59751.0	100.0

**Coefficient of Utilization**

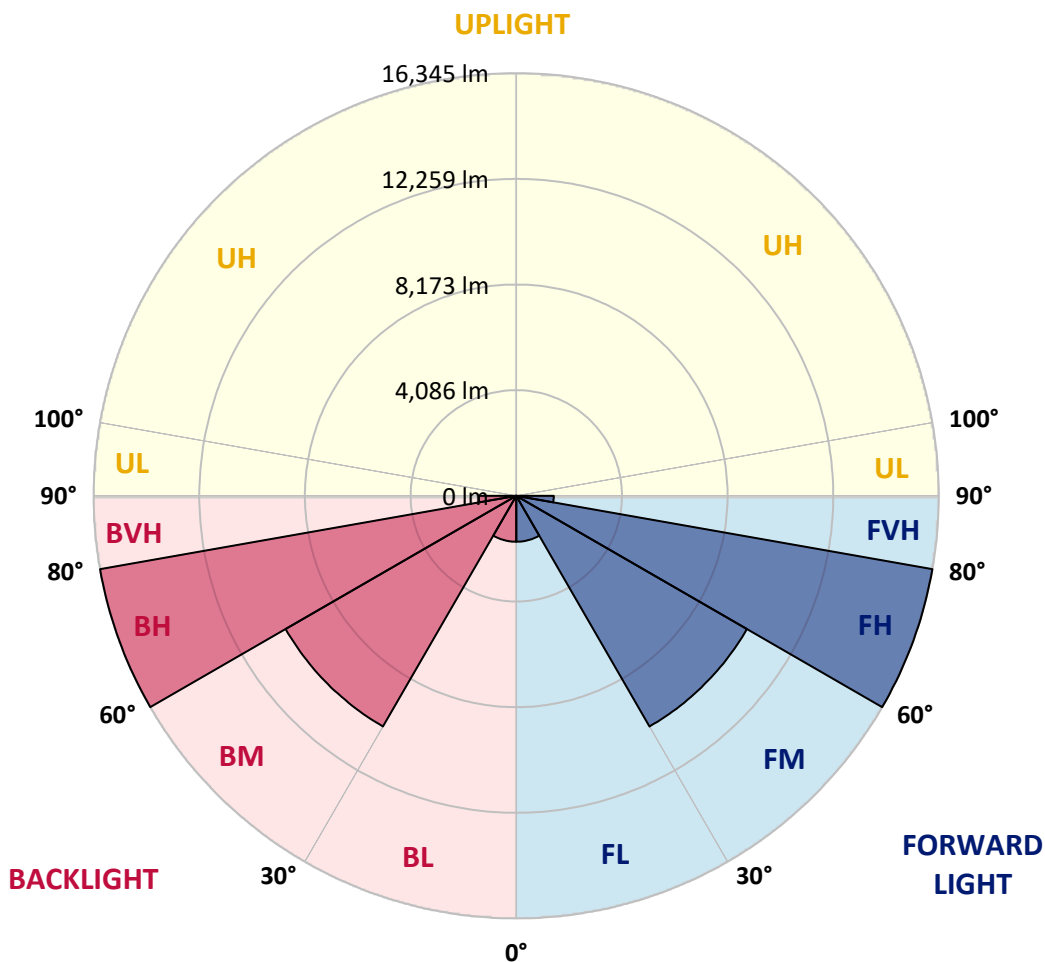


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1776.5	3.0			
FM (30°-60°)	10302.7	17.2			
FH (60°-80°)	16345.5	27.4			G5
FVH (80°-90°)	1450.8	2.4			G5
BL (0°-30°)	1776.5	3.0	B3/2500		
BM (30°-60°)	10302.7	17.2	B5		
BH (60°-80°)	16345.5	27.4	B5		G5
BVH (80°-90°)	1450.8	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°	3415.0	3415.0	3415.0	3415.0	3415.0	3415.0	3415.0	3415.0	3415.0	3415.0	3415.0
2.5°	3436.3	3425.6	3422.1	3418.5	3420.9	3419.7	3425.6	3428.0	3430.3	3441.0	3435.1
5°	3457.6	3449.3	3448.1	3443.4	3442.2	3442.2	3450.5	3451.6	3452.8	3459.9	3452.8
7.5°	3496.6	3488.3	3486.0	3483.6	3482.4	3477.7	3483.6	3481.2	3483.6	3487.1	3478.9
10°	3558.1	3548.7	3546.3	3540.4	3543.9	3536.8	3541.6	3535.7	3525.0	3527.4	3515.5
12.5°	3642.2	3633.9	3637.4	3636.2	3650.4	3646.9	3637.4	3625.6	3607.8	3596.0	3583.0
15°	3766.4	3753.4	3762.8	3772.3	3786.5	3792.4	3785.3	3753.4	3727.3	3708.4	3697.8
17.5°	3917.9	3896.6	3915.5	3934.4	3965.2	3971.1	3945.1	3906.0	3877.6	3869.3	3851.6
20°	4094.2	4090.6	4091.8	4122.6	4169.9	4178.2	4143.9	4097.7	4069.3	4070.5	4050.4
22.5°	4307.2	4288.2	4294.1	4324.9	4392.4	4414.8	4358.0	4307.2	4289.4	4294.1	4291.8
25°	4550.9	4533.2	4524.9	4539.1	4626.6	4665.7	4611.3	4552.1	4543.8	4554.5	4537.9
27.5°	4818.3	4801.8	4792.3	4799.4	4868.0	4941.4	4881.0	4831.4	4830.2	4845.6	4836.1
30°	5122.4	5097.6	5086.9	5095.2	5142.6	5213.6	5165.0	5135.5	5160.3	5171.0	5167.4
32.5°	5430.1	5418.3	5414.7	5412.3	5470.3	5510.6	5486.9	5492.8	5512.9	5561.4	5546.1
35°	5780.3	5746.0	5755.5	5762.6	5838.3	5841.9	5844.2	5854.9	5908.1	5976.8	5936.5
37.5°	6144.8	6136.5	6142.4	6122.3	6177.9	6200.4	6233.5	6269.0	6353.1	6432.3	6415.8
40°	6595.6	6580.2	6586.2	6562.5	6589.7	6607.5	6674.9	6751.8	6859.5	6944.7	6905.6
42.5°	7193.2	7154.1	7154.1	7161.2	7218.0	7199.1	7343.5	7364.8	7498.5	7570.7	7548.2
45°	7896.1	7881.9	7807.3	7681.9	7610.9	7609.7	7725.7	7898.4	8119.7	8270.0	8268.8
47.5°	8789.4	8745.7	8567.0	8265.2	8085.4	8041.6	8163.5	8499.5	8906.6	9140.9	9137.3
50°	9960.9	9905.3	9634.3	9165.7	8815.5	8707.8	8903.0	9338.5	9886.3	10198.7	10224.8
52.5°	11272.0	11276.7	10970.2	10261.4	9743.2	9549.1	9756.2	10378.6	11061.3	11489.7	11540.6
55°	12794.9	12758.2	12468.3	11664.8	10951.3	10534.8	10848.4	11673.1	12457.6	12784.2	12874.1
57.5°	14380.5	14237.3	14014.8	13263.4	12429.2	11896.7	12273.0	13080.0	13831.4	14247.9	14233.7
60°	15786.2	15691.5	15563.7	14965.0	14324.8	13716.6	14006.5	14689.3	15333.0	15585.0	15595.7
62.5°	17322.1	17242.8	17128.0	16800.3	16447.7	16221.6	15959.0	16274.9	16777.8	17053.5	17143.4
65°	18829.6	18801.2	18867.5	18817.8	18966.9	18933.7	18304.2	18105.4	18113.7	18035.6	17995.4
67.5°	18740.9	18730.2	19120.7	19899.3	21385.5	21806.8	20191.6	18393.0	17582.4	17376.5	17347.0
70°	17374.2	17488.9	18211.9	19736.0	22448.1	22933.2	20721.7	17457.0	16420.4	15904.5	15776.7
72.5°	14744.9	14969.7	16078.5	18323.2	21565.4	21676.6	19389.3	16048.9	14522.5	13907.1	13816.0
75°	11377.3	11405.7	12540.5	15393.4	19246.1	19385.8	17296.1	13461.0	11959.5	11193.9	11170.2
77.5°	6929.3	7332.8	8988.2	11541.8	15299.9	16026.4	14465.7	10721.7	8936.2	8258.1	7879.5
80°	3399.6	3584.2	4776.9	7297.3	10935.9	12153.5	10734.8	7415.6	5511.7	4651.5	4556.8
82.5°	1547.7	1645.9	2260.1	3814.9	6599.2	8107.9	6625.2	4246.8	2942.8	2301.5	2280.2
85°	601.1	597.6	914.7	1601.0	3159.4	4489.4	3354.6	2025.8	1346.6	1001.1	944.3
87.5°	175.1	187.0	268.6	525.4	936.0	1261.4	1034.2	700.5	414.1	266.2	244.9
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)