

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: P510874

Luminaire Tested: **CST-CA8-480-760-U-T5R**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510874  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA8-480-760-U-T5R  
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: 75809 lumens  
Efficiency: N/A  
Efficacy: 157.7 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

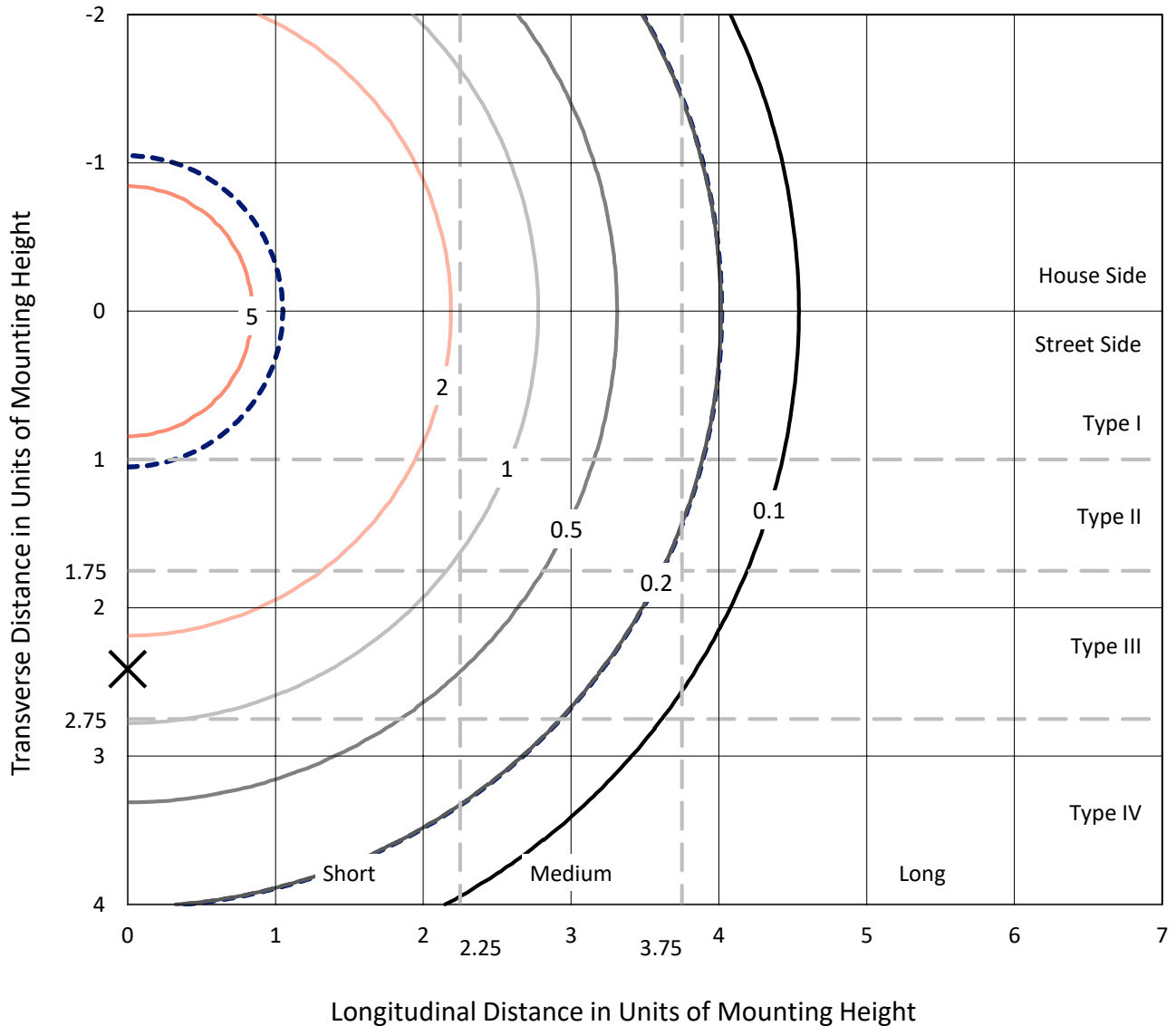
Input Watts (W): 480.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

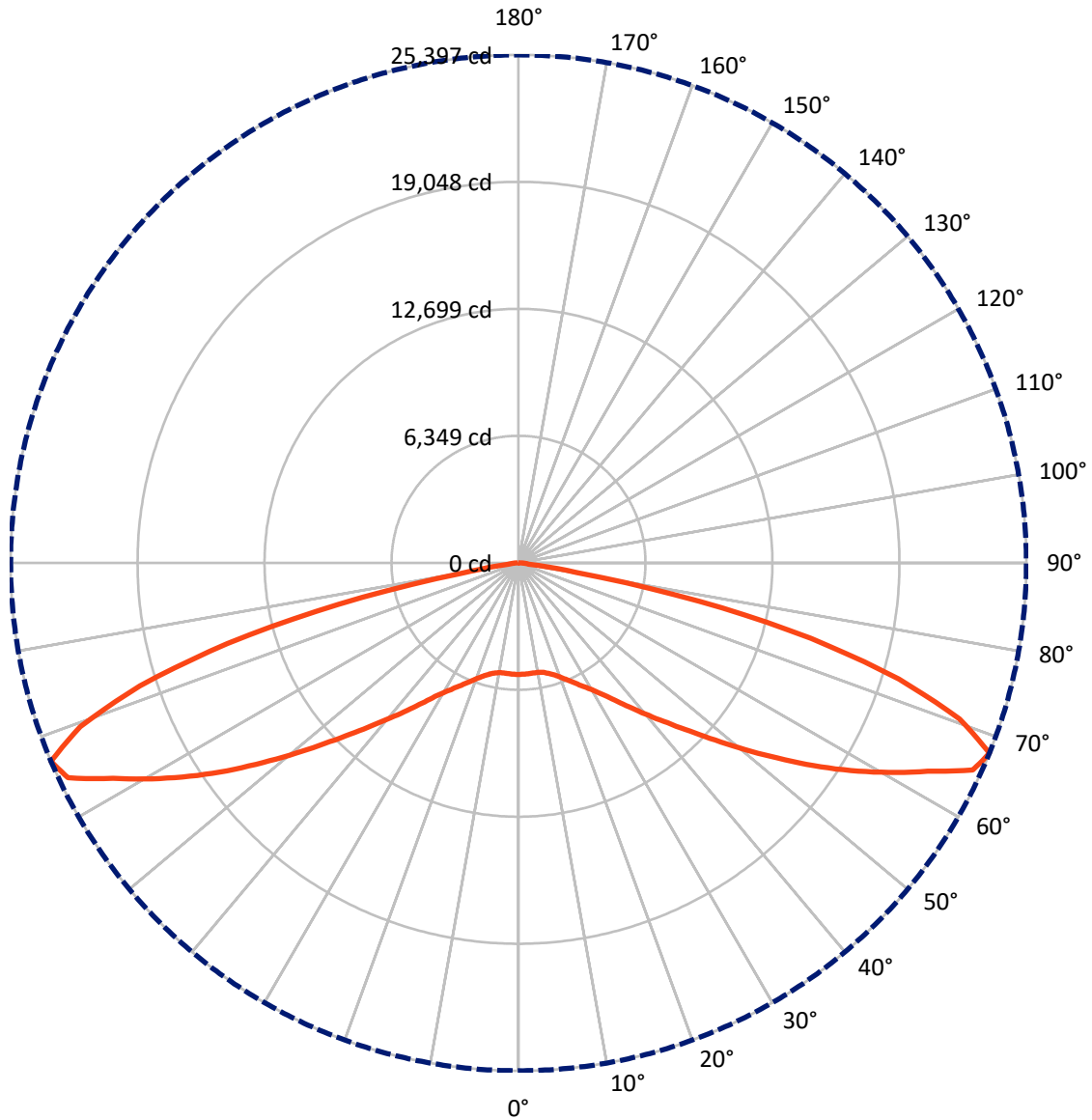
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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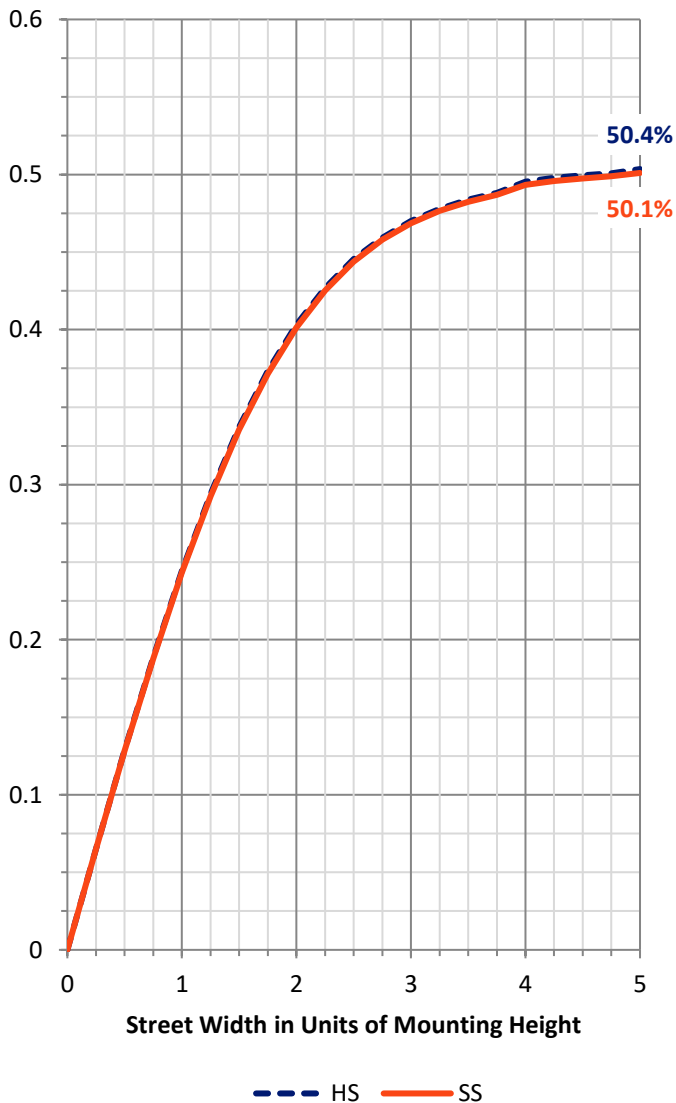
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	37904.5	0.0	37904.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	37904.5	0.0	37904.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	75809.0	0.0	75809.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	531.2	0.7
10°-20°	1646.2	2.2
20°-30°	3124.0	4.1
30°-40°	5425.9	7.2
40°-50°	9444.3	12.5
50°-60°	16134.5	21.3
60°-70°	23761.3	31.3
70°-80°	15104.6	19.9
80°-90°	637.1	0.8
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°	75809.0	100.0
0°-180°	75809.0	100.0

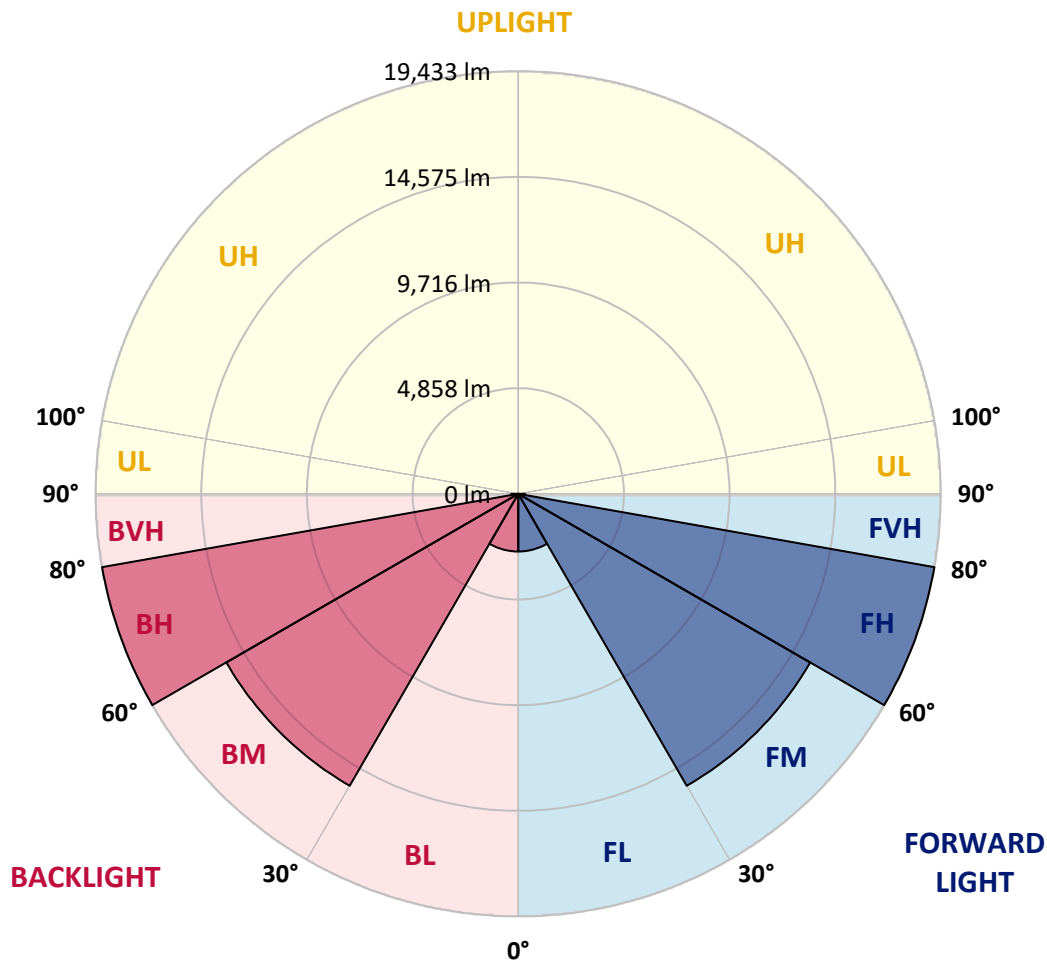


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2650.7	3.5			
FM (30°-60°)	15502.4	20.4			
FH (60°-80°)	19432.9	25.6			G5
FVH (80°-90°)	318.5	0.4			G3/500
BL (0°-30°)	2650.7	3.5	B4/5000		
BM (30°-60°)	15502.4	20.4	B5		
BH (60°-80°)	19432.9	25.6	B5		G5
BVH (80°-90°)	318.5	0.4			G3/500
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°	
0°	5576.2
2.5°	5577.6
5°	5566.6
7.5°	5557.4
10°	5566.7
12.5°	5626.6
15°	5741.9
17.5°	5903.3
20°	6122.4
22.5°	6381.2
25°	6686.0
27.5°	7016.5
30°	7405.0
32.5°	7882.5
35°	8509.5
37.5°	9231.2
40°	10033.3
42.5°	10934.7
45°	12004.4
47.5°	13238.2
50°	14667.2
52.5°	16210.6
55°	17903.8
57.5°	19594.8
60°	21276.3
62.5°	22962.8
65°	24970.6
67.5°	25397.0
70°	23398.1
72.5°	19901.2
75°	15109.6
77.5°	9237.5
80°	2932.0
82.5°	497.7
85°	281.2
87.5°	101.8
90°	0.0

(END OF REPORT)