

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: P510824

Luminaire Tested: **CST-CA8-480-722-U-T5R**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510824  
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-CA8-480-722-U-T5R  
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: 61985.9 lumens  
Efficiency: N/A  
Efficacy: 128.9 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

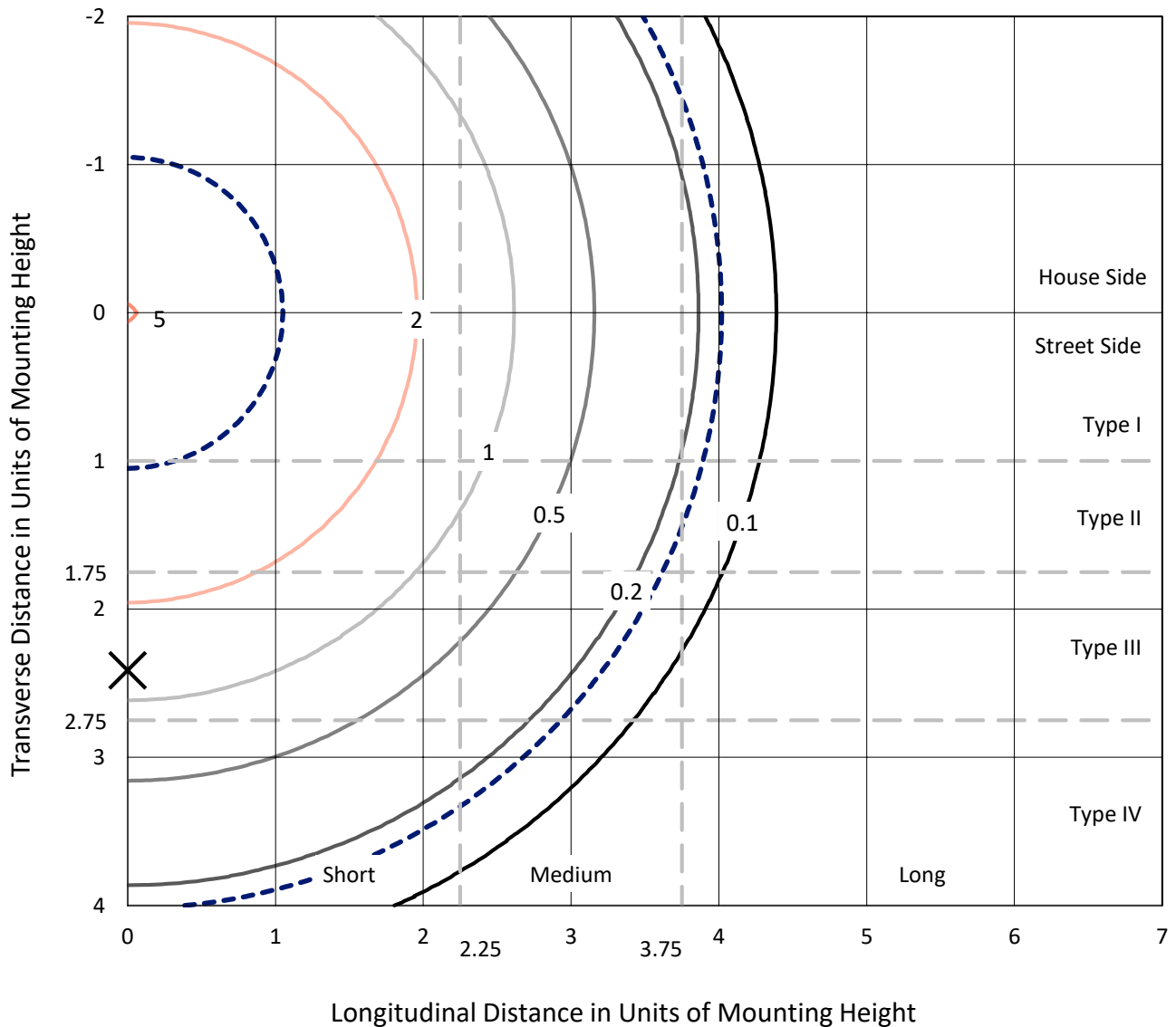
Input Watts (W): 480.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

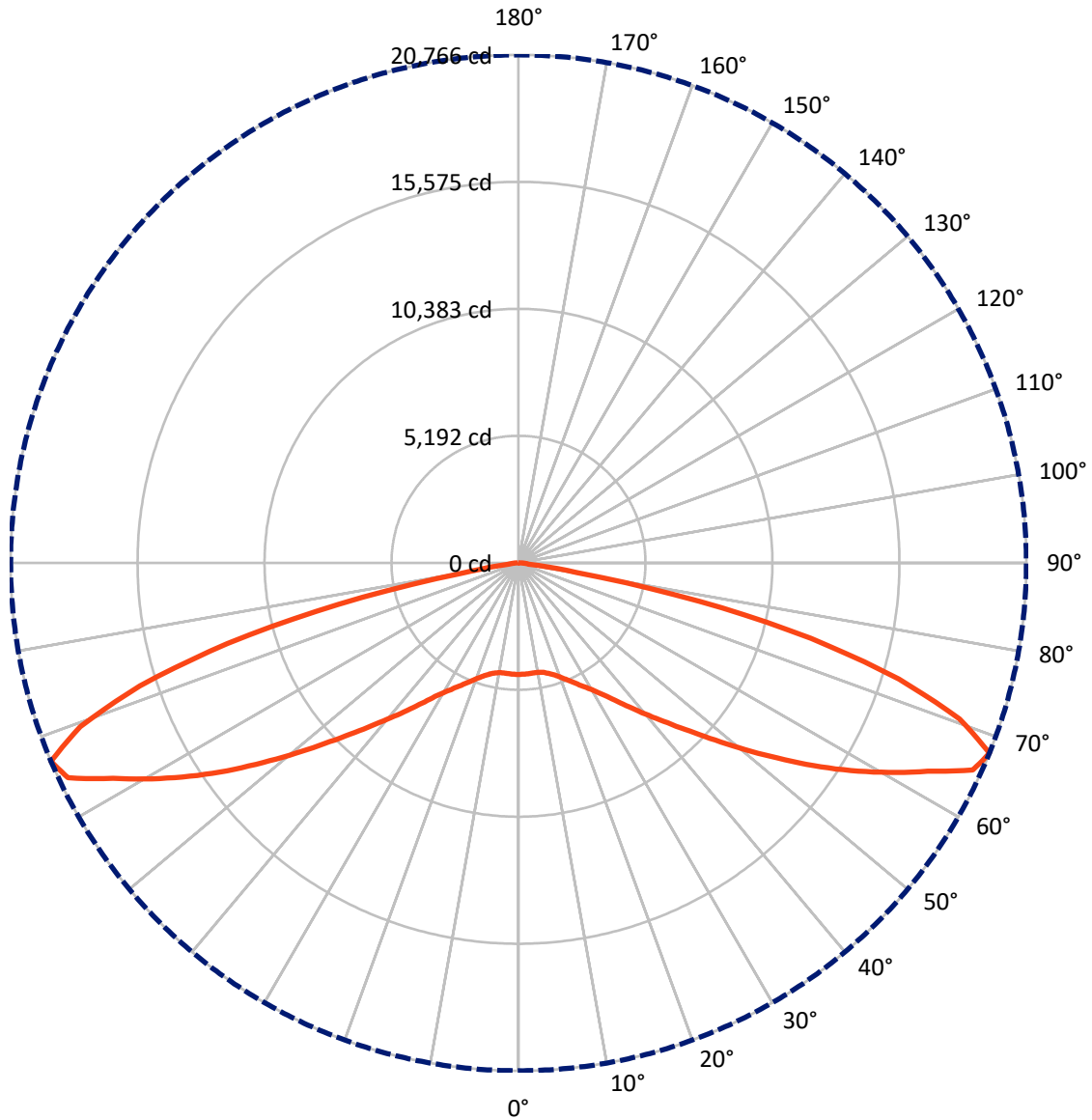
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 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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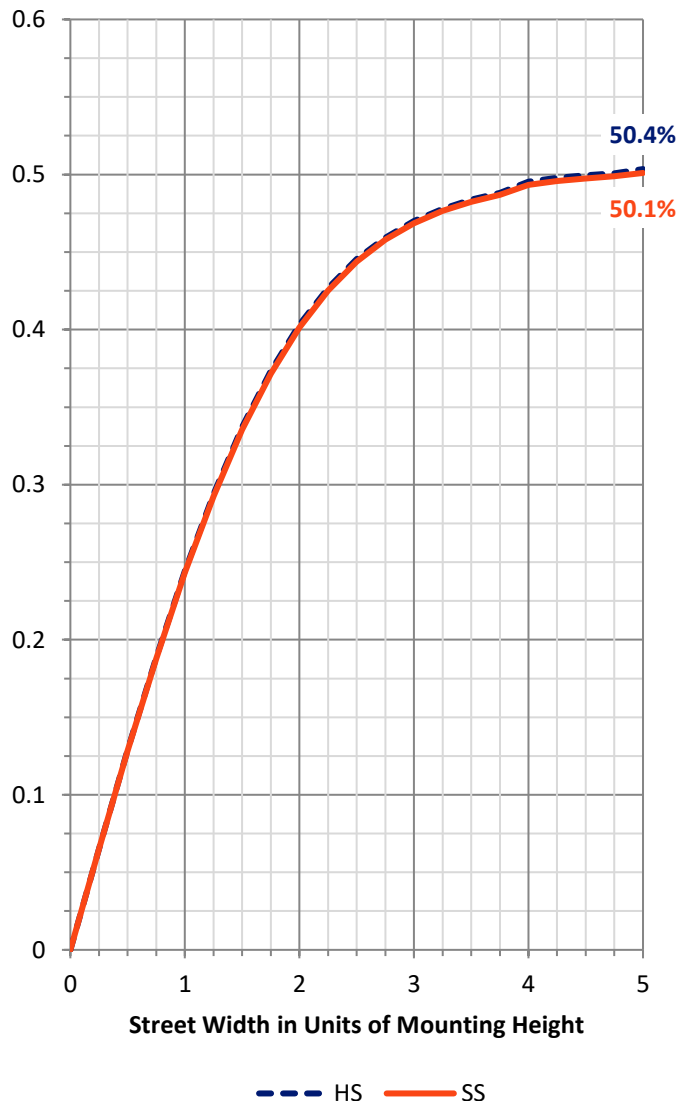
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	30993.0	0.0	30993.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	30993.0	0.0	30993.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	61985.9	0.0	61985.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	434.3	0.7
10°-20°	1346.0	2.2
20°-30°	2554.3	4.1
30°-40°	4436.6	7.2
40°-50°	7722.2	12.5
50°-60°	13192.5	21.3
60°-70°	19428.6	31.3
70°-80°	12350.4	19.9
80°-90°	520.9	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°	61985.9	100.0
0°-180°	61985.9	100.0

**Coefficient of Utilization**



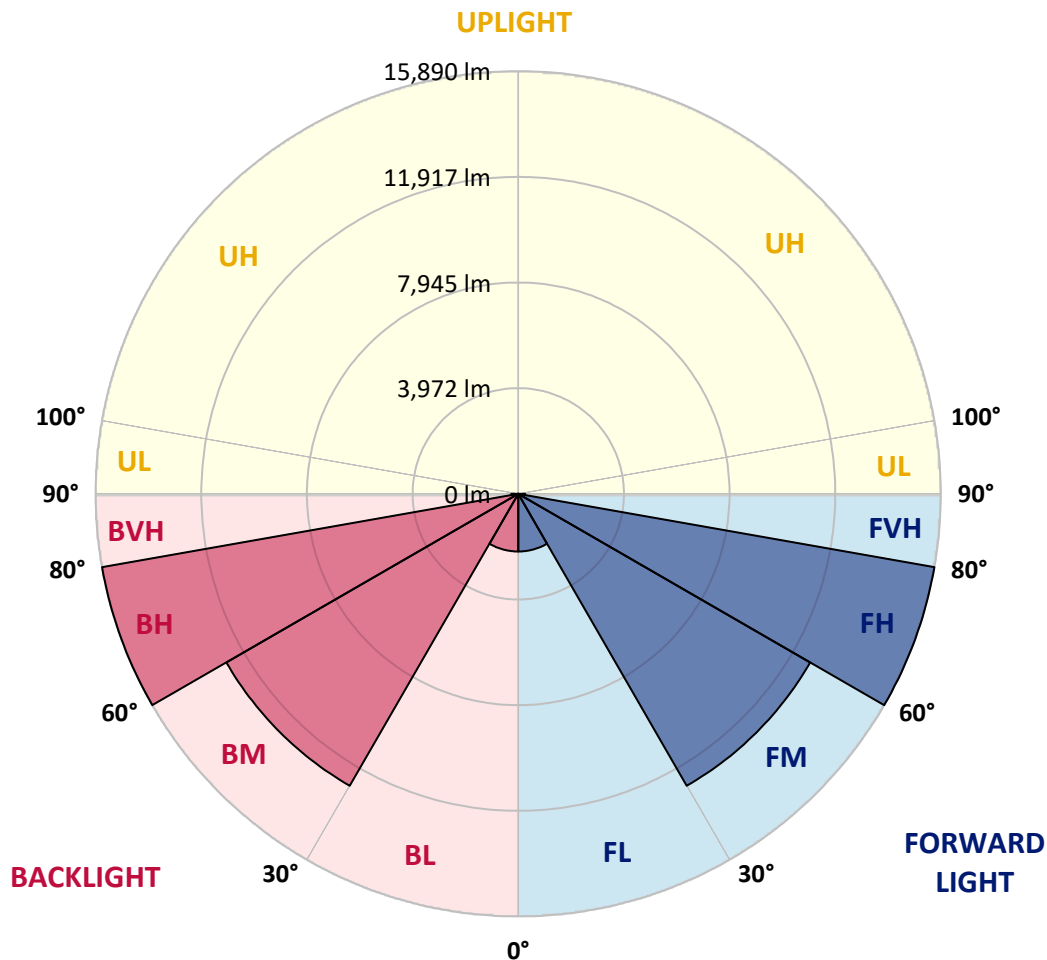
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2167.4	3.5			
FM (30°-60°)	12675.6	20.4			
FH (60°-80°)	15889.5	25.6			G5
FVH (80°-90°)	260.5	0.4			G3/500
BL (0°-30°)	2167.4	3.5	B3/2500		
BM (30°-60°)	12675.6	20.4	B5		
BH (60°-80°)	15889.5	25.6	B5		G5
BVH (80°-90°)	260.5	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°	4559.4
2.5°	4560.6
5°	4551.6
7.5°	4544.0
10°	4551.7
12.5°	4600.6
15°	4694.9
17.5°	4826.9
20°	5006.1
22.5°	5217.6
25°	5466.9
27.5°	5737.1
30°	6054.8
32.5°	6445.2
35°	6957.9
37.5°	7548.0
40°	8203.8
42.5°	8940.8
45°	9815.5
47.5°	10824.3
50°	11992.8
52.5°	13254.7
55°	14639.2
57.5°	16021.9
60°	17396.8
62.5°	18775.7
65°	20417.5
67.5°	20766.1
70°	19131.7
72.5°	16272.4
75°	12354.5
77.5°	7553.1
80°	2397.4
82.5°	407.0
85°	229.9
87.5°	83.2
90°	0.0

(END OF REPORT)