

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: P510864

Luminaire Tested: **CST-CA8-480-750-U-T5R**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510864  
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-CA8-480-750-U-T5R  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 77451 lumens  
Efficiency: N/A  
Efficacy: 161.1 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

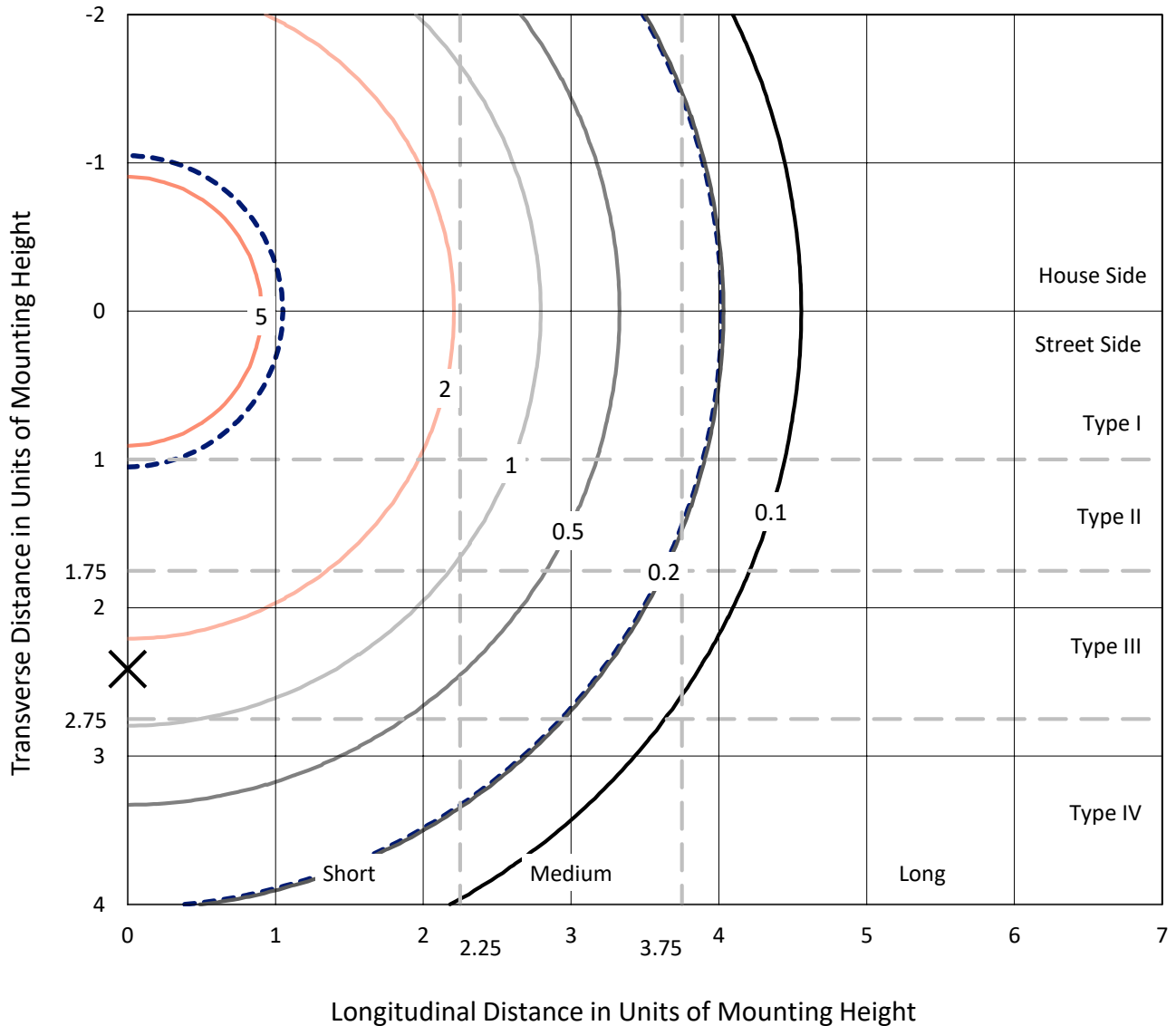
Input Watts (W): 480.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

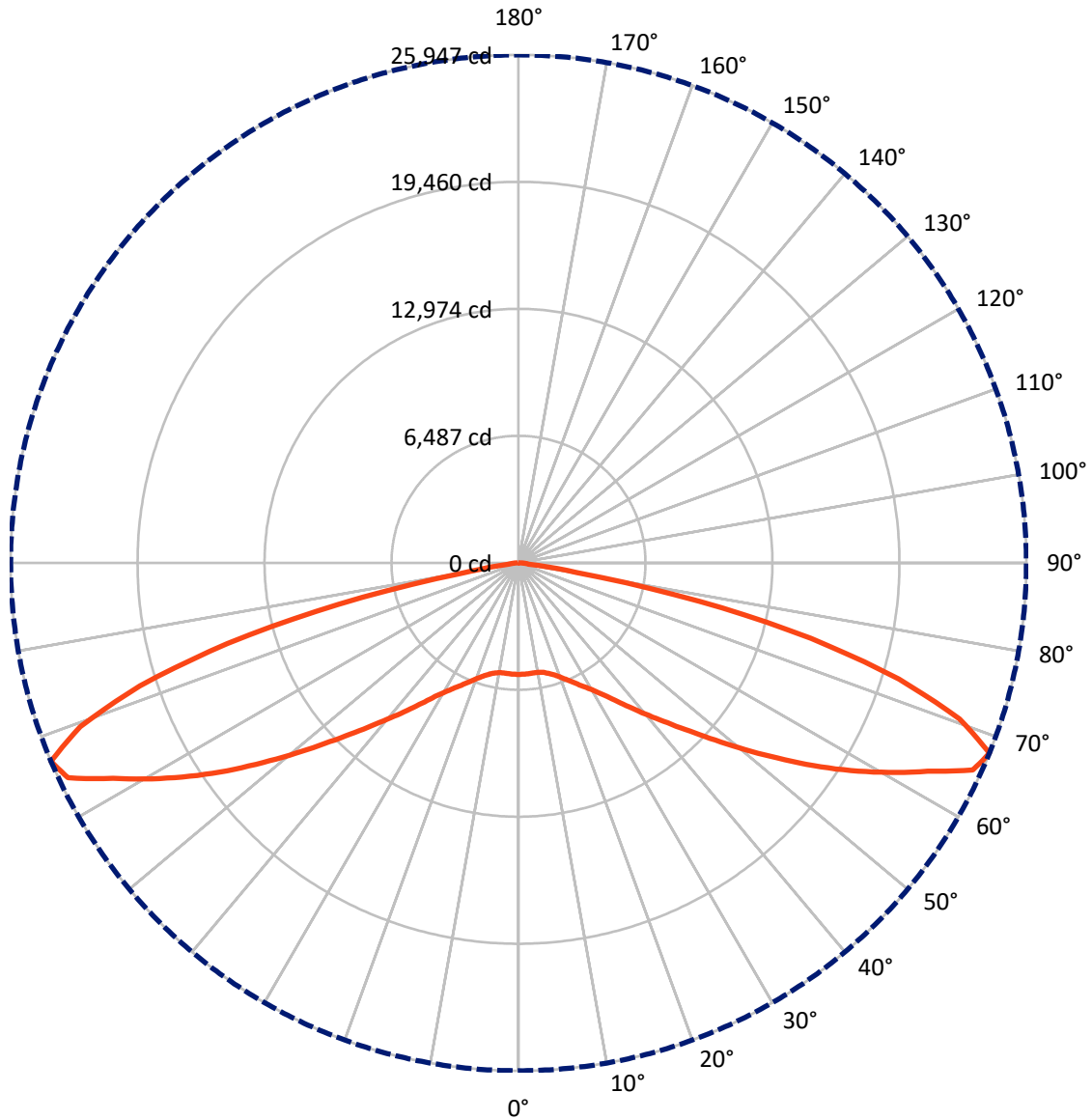
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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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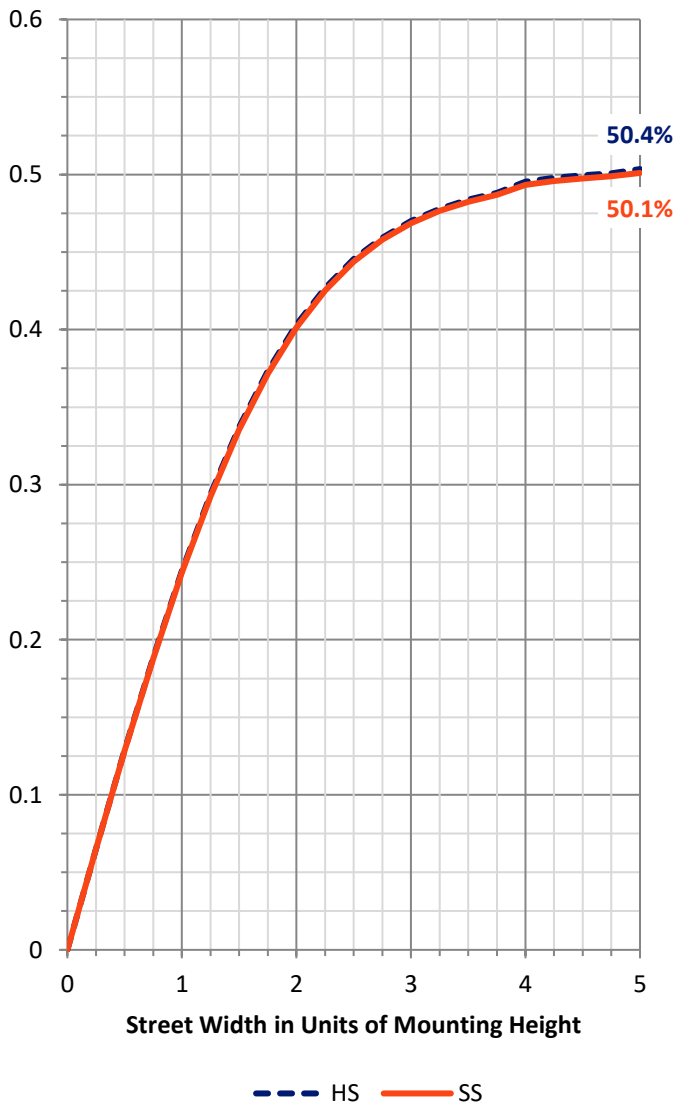
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	38725.5	0.0	38725.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	38725.5	0.0	38725.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	77451.0	0.0	77451.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	542.7	0.7
10°-20°	1681.8	2.2
20°-30°	3191.6	4.1
30°-40°	5543.4	7.2
40°-50°	9648.8	12.5
50°-60°	16484.0	21.3
60°-70°	24275.9	31.3
70°-80°	15431.8	19.9
80°-90°	650.9	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°	77451.0	100.0
0°-180°	77451.0	100.0

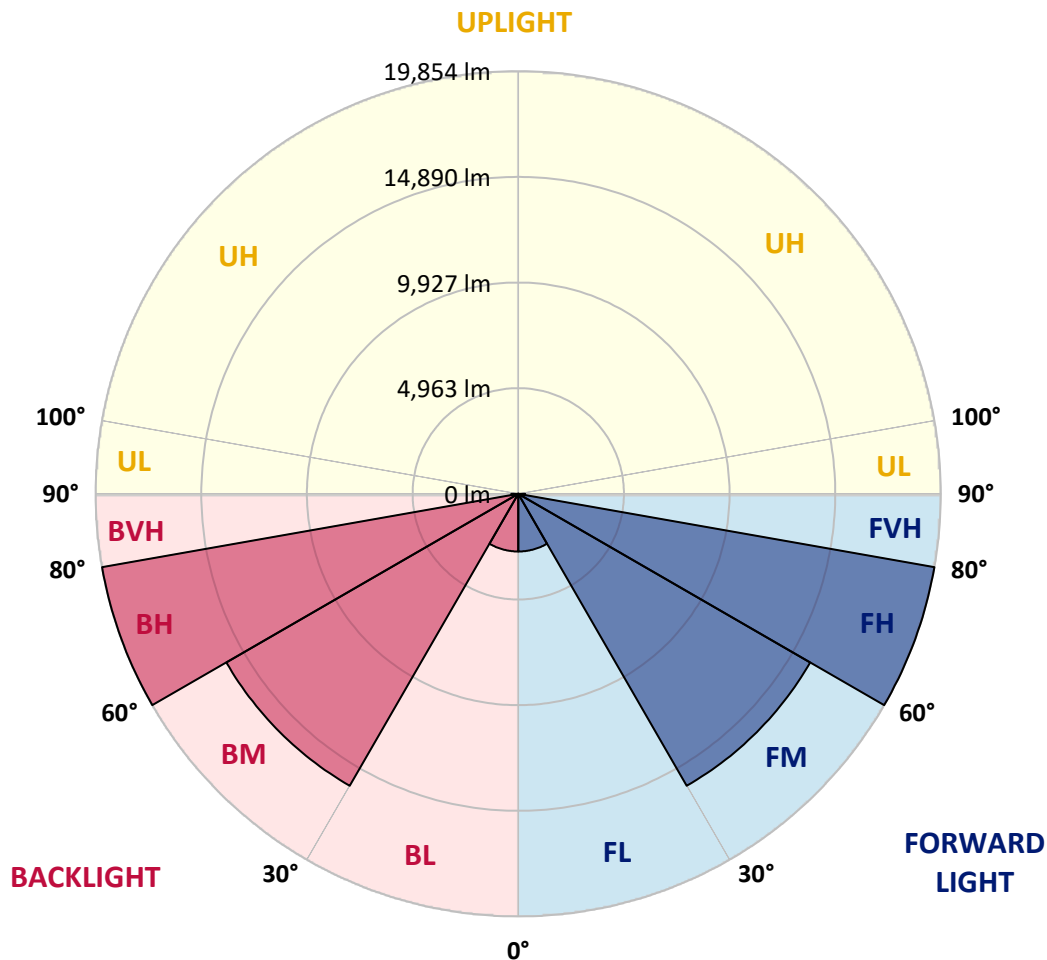


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2708.1	3.5			
FM (30°-60°)	15838.1	20.4			
FH (60°-80°)	19853.8	25.6			G5
FVH (80°-90°)	325.4	0.4			G3/500
BL (0°-30°)	2708.1	3.5	B4/5000		
BM (30°-60°)	15838.1	20.4	B5		
BH (60°-80°)	19853.8	25.6	B5		G5
BVH (80°-90°)	325.4	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°	5697.0
2.5°	5698.4
5°	5687.1
7.5°	5677.7
10°	5687.3
12.5°	5748.4
15°	5866.3
17.5°	6031.2
20°	6255.0
22.5°	6519.4
25°	6830.9
27.5°	7168.4
30°	7565.4
32.5°	8053.2
35°	8693.8
37.5°	9431.1
40°	10250.6
42.5°	11171.5
45°	12264.4
47.5°	13524.9
50°	14984.8
52.5°	16561.7
55°	18291.6
57.5°	20019.2
60°	21737.1
62.5°	23460.1
65°	25511.5
67.5°	25947.1
70°	23904.9
72.5°	20332.3
75°	15436.9
77.5°	9437.6
80°	2995.5
82.5°	508.5
85°	287.3
87.5°	104.0
90°	0.0

(END OF REPORT)