

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: P510834

Luminaire Tested: **CST-CA8-480-727-U-T5R**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510834  
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-CA8-480-727-U-T5R  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 64404 lumens  
Efficiency: N/A  
Efficacy: 134.0 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

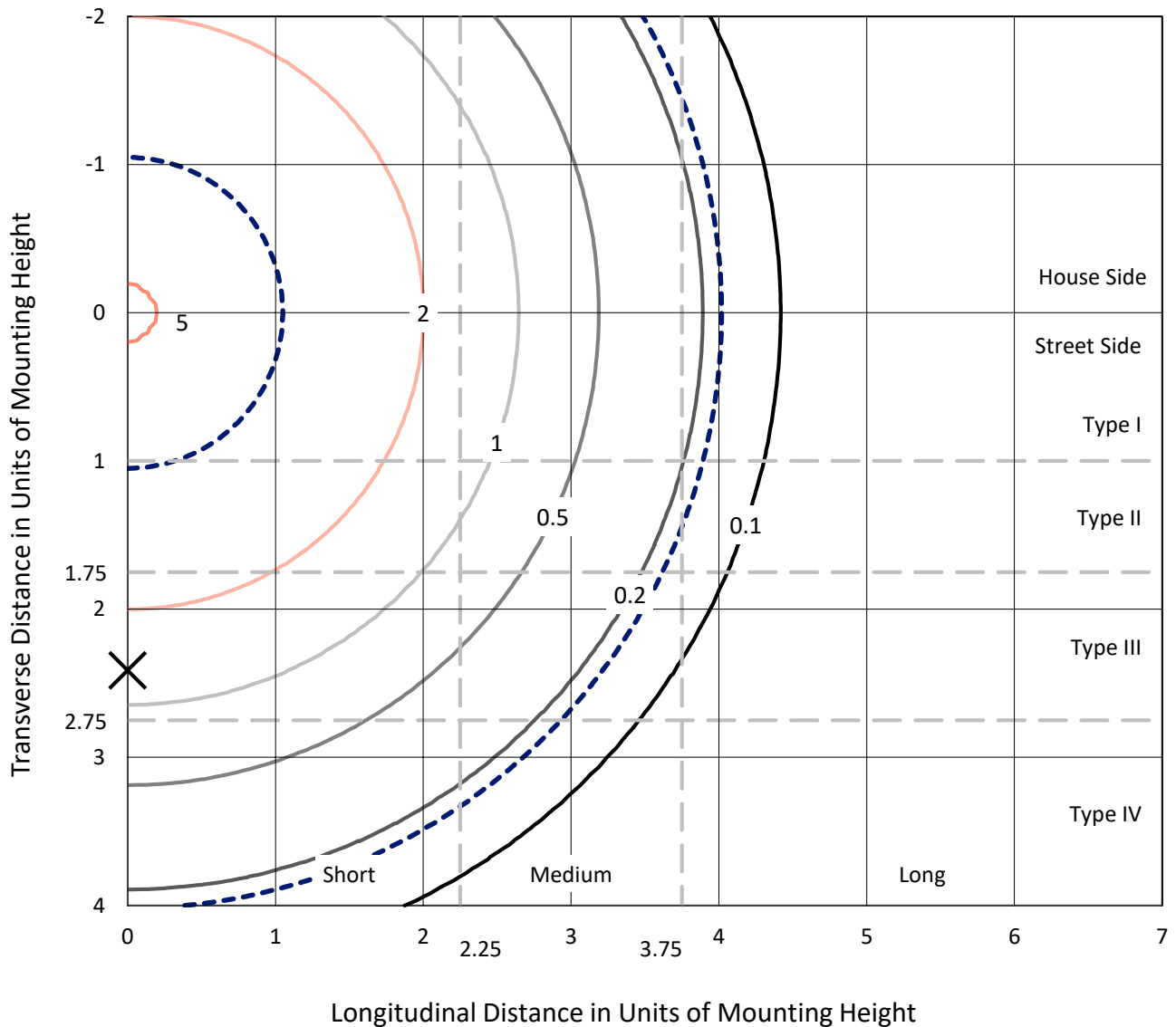
Input Watts (W): 480.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

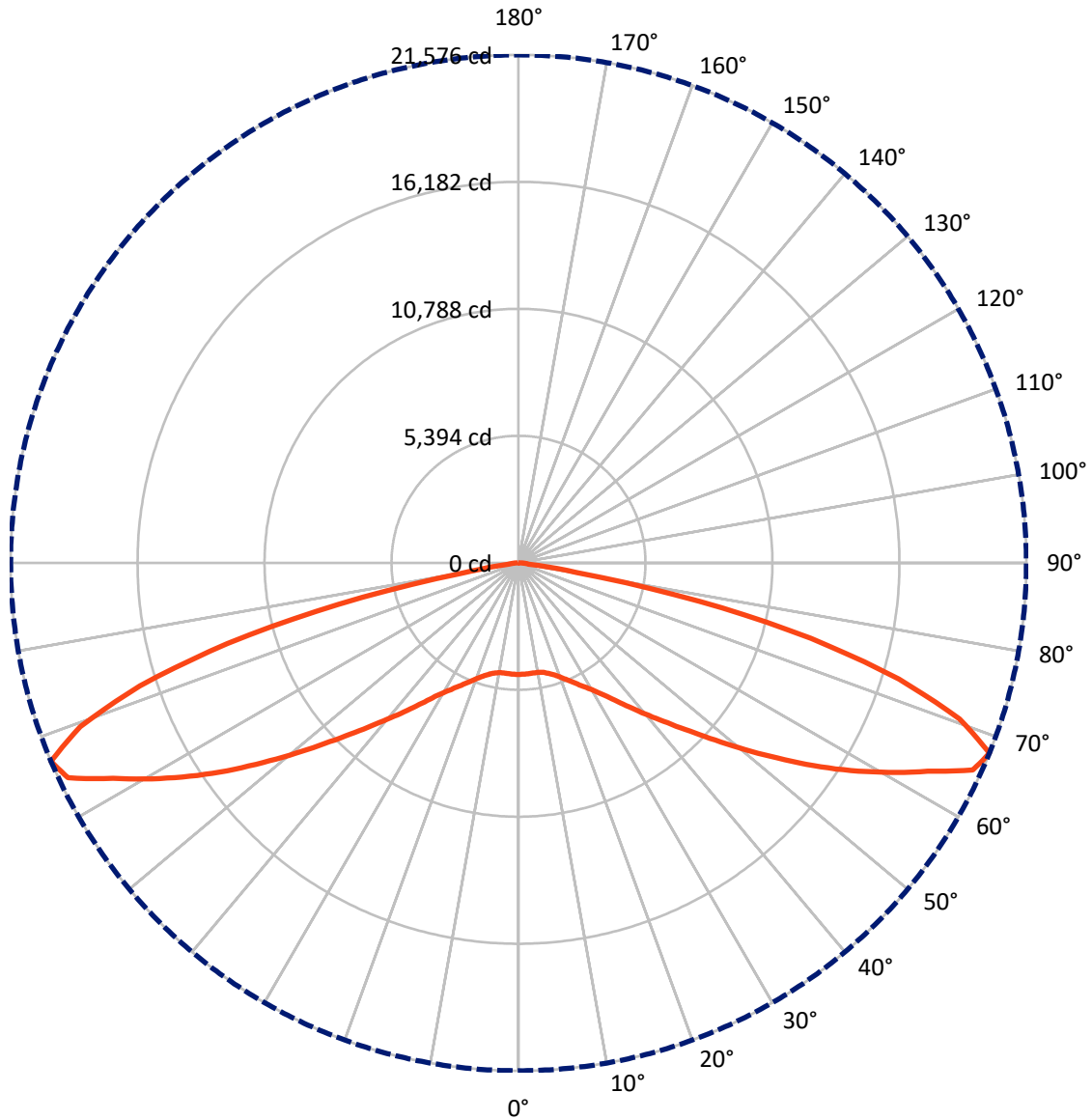
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 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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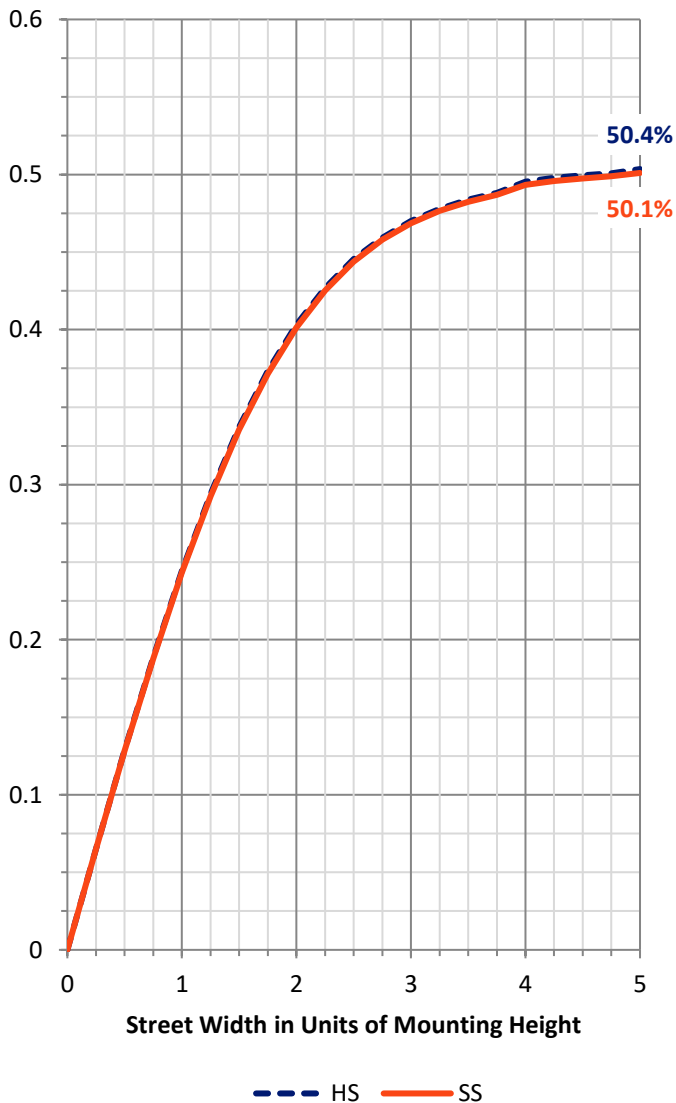
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	32202.0	0.0	32202.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	32202.0	0.0	32202.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	64404.0	0.0	64404.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	451.3	0.7
10°-20°	1398.5	2.2
20°-30°	2654.0	4.1
30°-40°	4609.6	7.2
40°-50°	8023.4	12.5
50°-60°	13707.2	21.3
60°-70°	20186.5	31.3
70°-80°	12832.2	19.9
80°-90°	541.2	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°	64404.0	100.0
0°-180°	64404.0	100.0

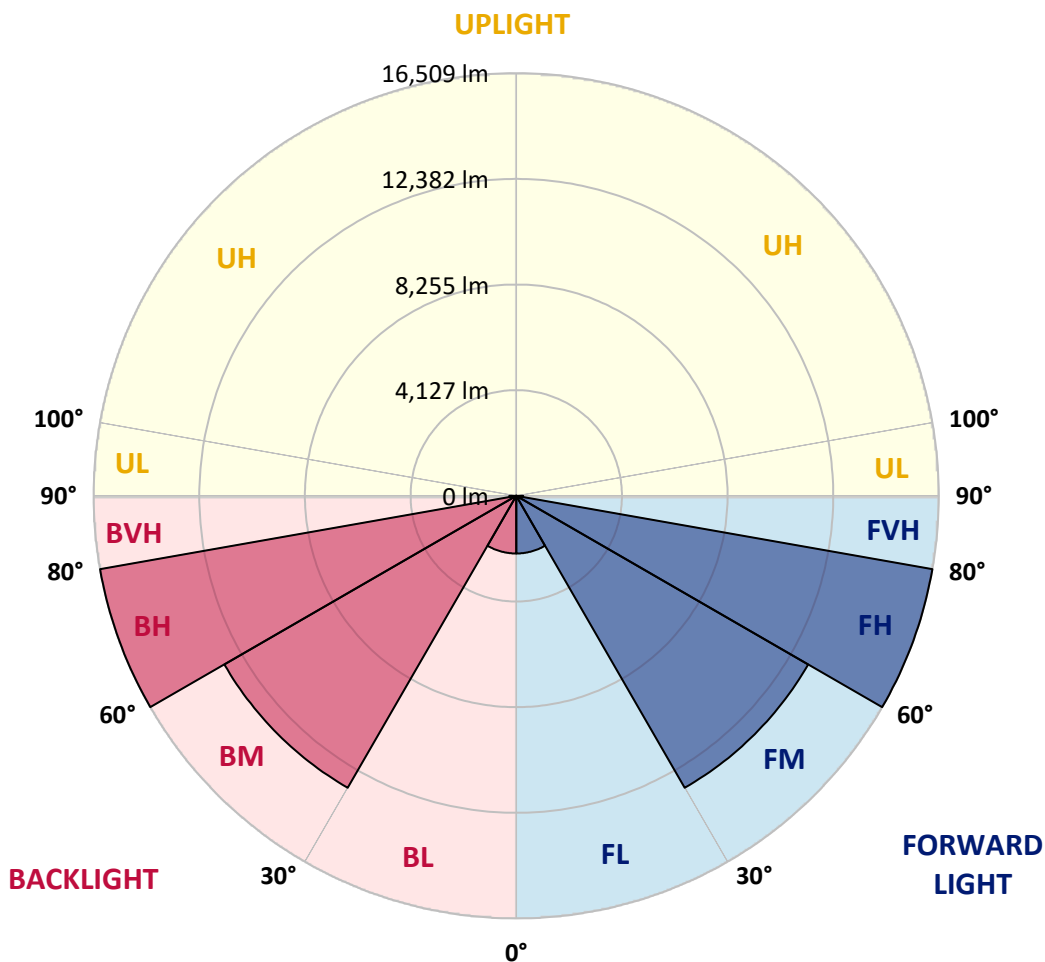


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2251.9	3.5			
FM (30°-60°)	13170.1	20.4			
FH (60°-80°)	16509.4	25.6			G5
FVH (80°-90°)	270.6	0.4			G3/500
BL (0°-30°)	2251.9	3.5	B3/2500		
BM (30°-60°)	13170.1	20.4	B5		
BH (60°-80°)	16509.4	25.6	B5		G5
BVH (80°-90°)	270.6	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°	4737.3
2.5°	4738.5
5°	4729.1
7.5°	4721.3
10°	4729.2
12.5°	4780.1
15°	4878.1
17.5°	5015.2
20°	5201.4
22.5°	5421.2
25°	5680.2
27.5°	5960.9
30°	6291.0
32.5°	6696.6
35°	7229.3
37.5°	7842.4
40°	8523.8
42.5°	9289.6
45°	10198.4
47.5°	11246.6
50°	12460.6
52.5°	13771.8
55°	15210.3
57.5°	16646.8
60°	18075.4
62.5°	19508.2
65°	21213.9
67.5°	21576.2
70°	19878.0
72.5°	16907.2
75°	12836.5
77.5°	7847.8
80°	2490.9
82.5°	422.8
85°	238.9
87.5°	86.5
90°	0.0

(END OF REPORT)