

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: P510714

Luminaire Tested: **CST-CA8-230-727-U-T5R**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510714  
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-CA8-230-727-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: 32485 lumens  
Efficiency: N/A  
Efficacy: 142.2 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

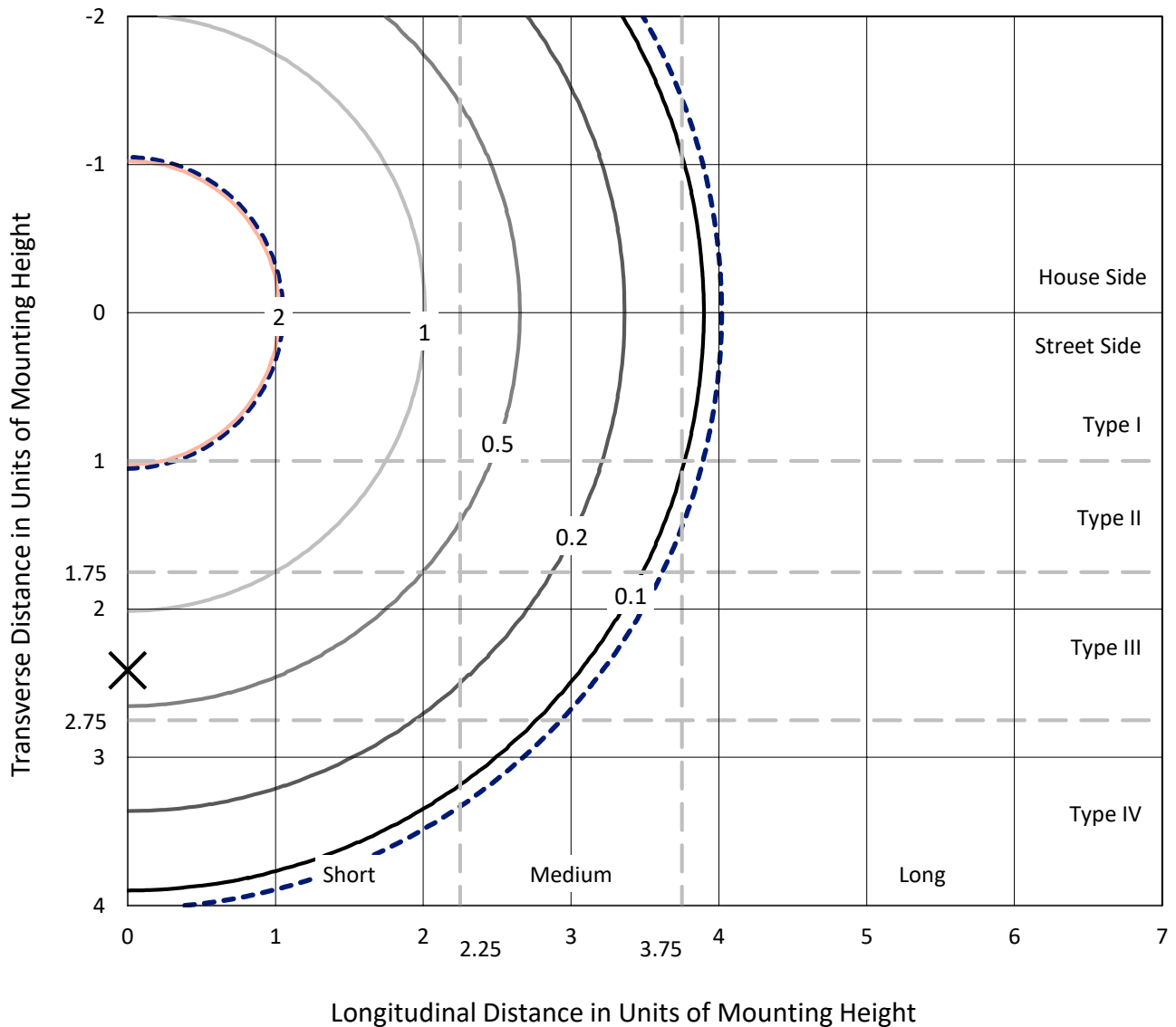
Input Watts (W): 228.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

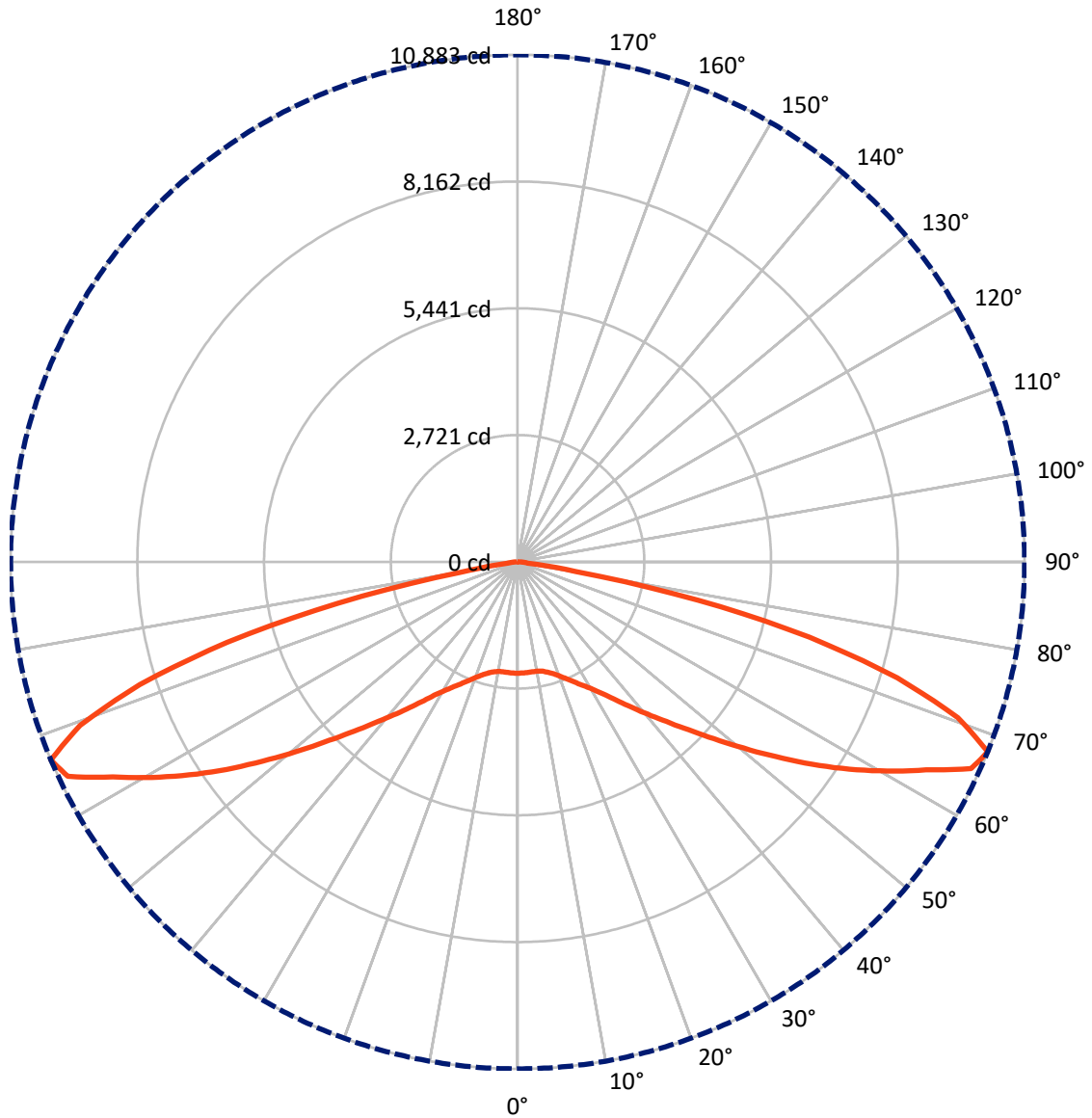
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.7 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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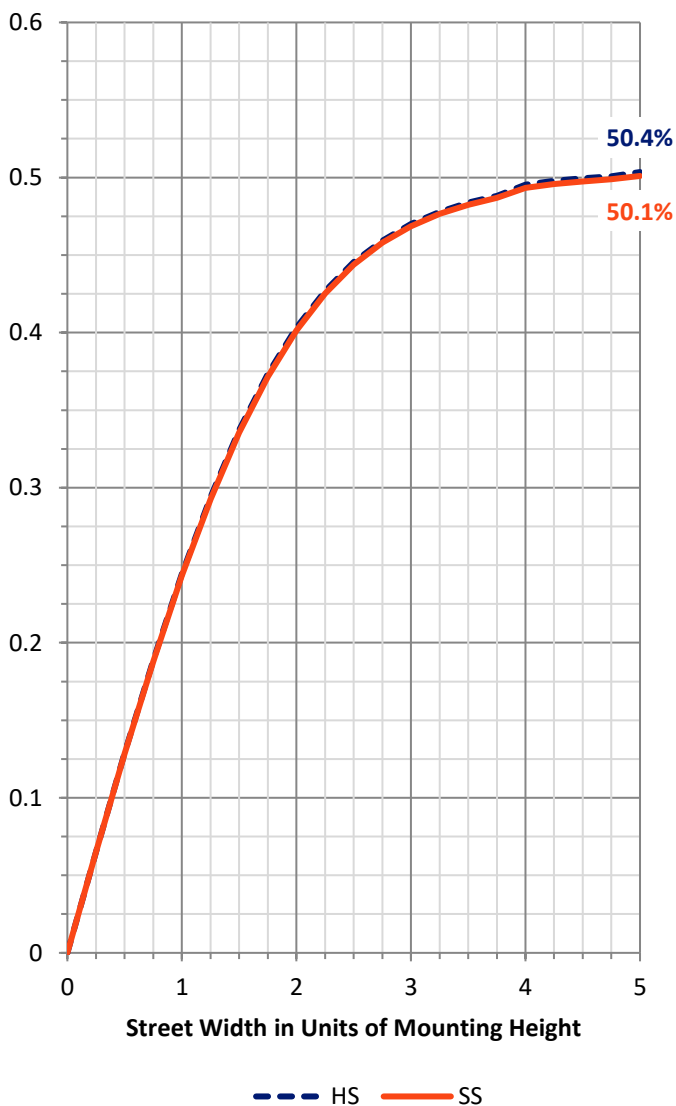
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16242.5	0.0	16242.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16242.5	0.0	16242.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32485.0	0.0	32485.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.6	0.7
10°-20°	705.4	2.2
20°-30°	1338.6	4.1
30°-40°	2325.1	7.2
40°-50°	4047.0	12.5
50°-60°	6913.8	21.3
60°-70°	10182.0	31.3
70°-80°	6472.5	19.9
80°-90°	273.0	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°	32485.0	100.0
0°-180°	32485.0	100.0

**Coefficient of Utilization**



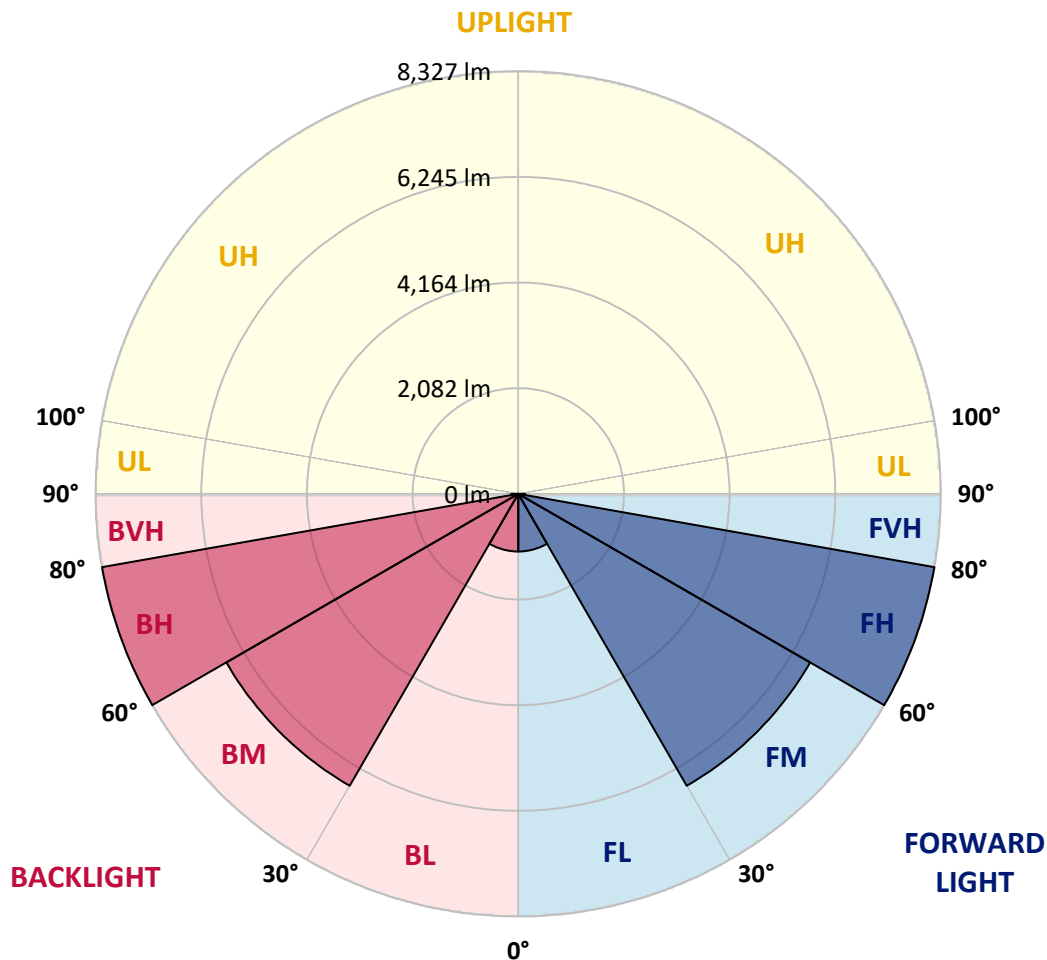
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1135.8	3.5			
FM (30°-60°)	6642.9	20.4			
FH (60°-80°)	8327.2	25.6			G4/12000
FVH (80°-90°)	136.5	0.4			G2/225
BL (0°-30°)	1135.8	3.5	B3/2500		
BM (30°-60°)	6642.9	20.4	B4/8500		
BH (60°-80°)	8327.2	25.6	B5		G4/12000
BVH (80°-90°)	136.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2389.5
2.5°	2390.1
5°	2385.3
7.5°	2381.4
10°	2385.4
12.5°	2411.0
15°	2460.5
17.5°	2529.6
20°	2623.5
22.5°	2734.4
25°	2865.0
27.5°	3006.6
30°	3173.1
32.5°	3377.7
35°	3646.4
37.5°	3955.7
40°	4299.4
42.5°	4685.6
45°	5144.0
47.5°	5672.7
50°	6285.0
52.5°	6946.4
55°	7672.0
57.5°	8396.6
60°	9117.1
62.5°	9839.8
65°	10700.2
67.5°	10882.9
70°	10026.4
72.5°	8527.9
75°	6474.6
77.5°	3958.4
80°	1256.4
82.5°	213.3
85°	120.5
87.5°	43.6
90°	0.0

(END OF REPORT)