

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: P510784

Luminaire Tested: **CST-CA8-330-730-U-T5R**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510784  
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-CA8-330-730-U-T5R  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51437 lumens  
Efficiency: N/A  
Efficacy: 155.2 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

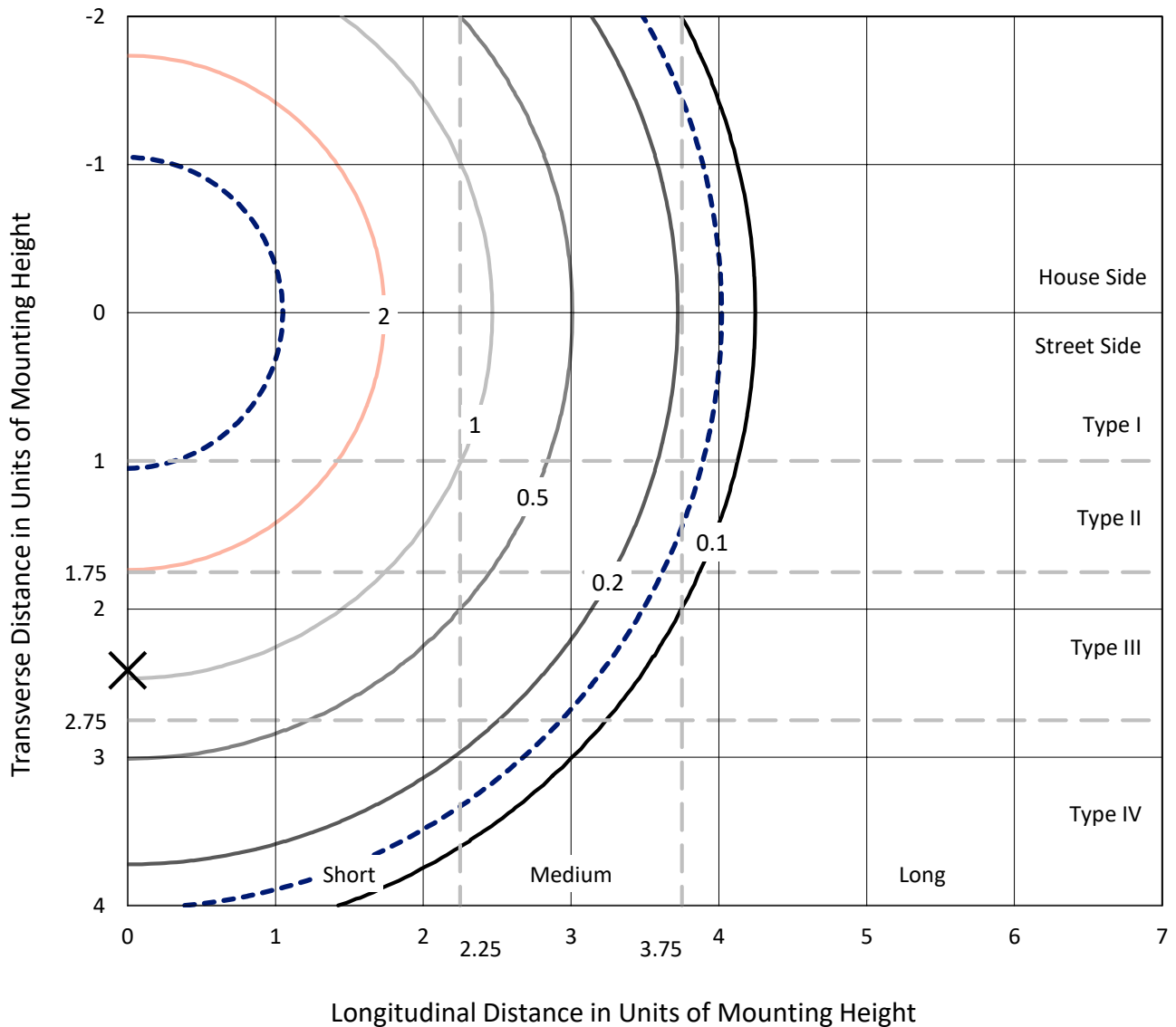
Input Watts (W): 331.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

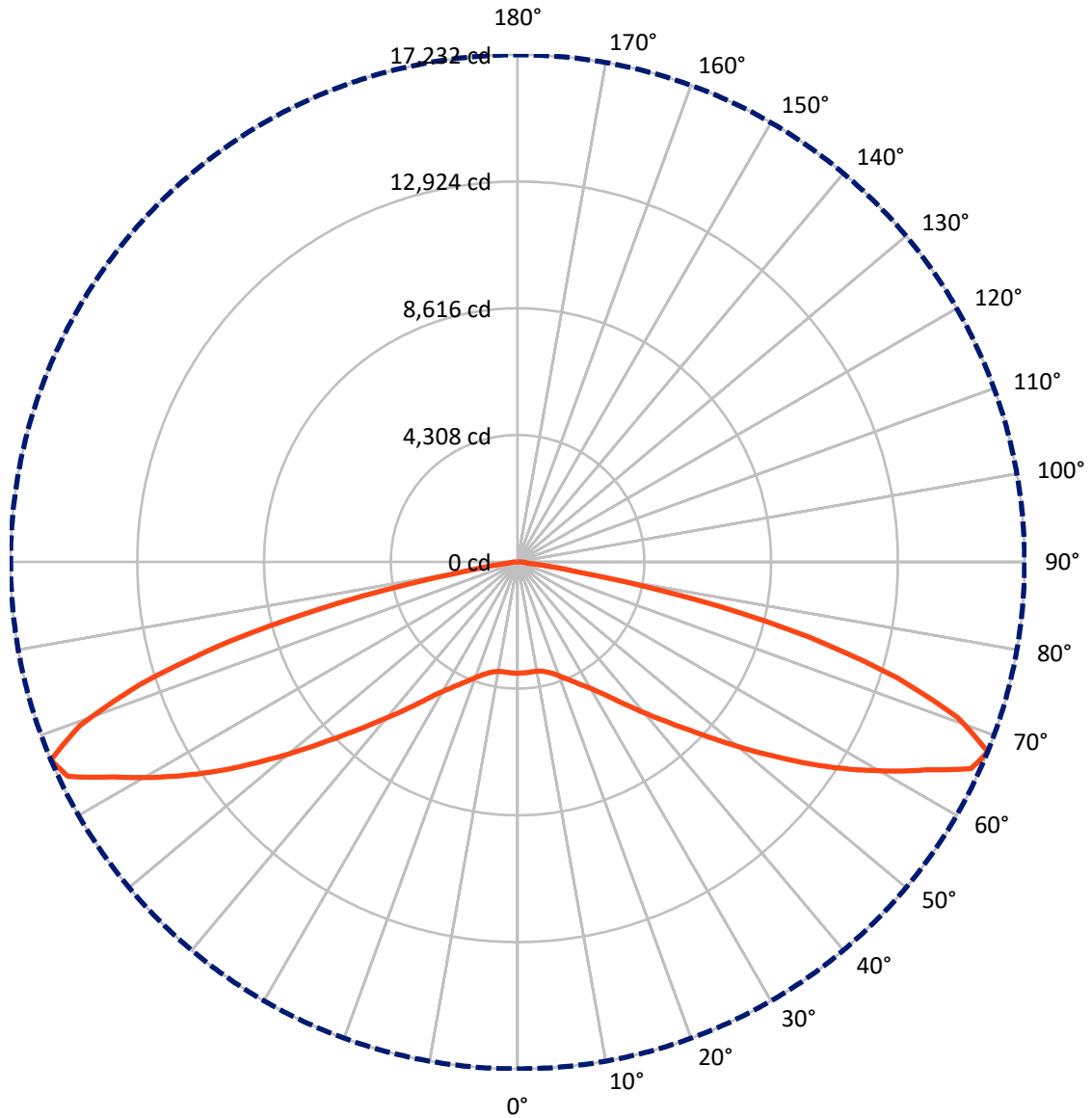
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 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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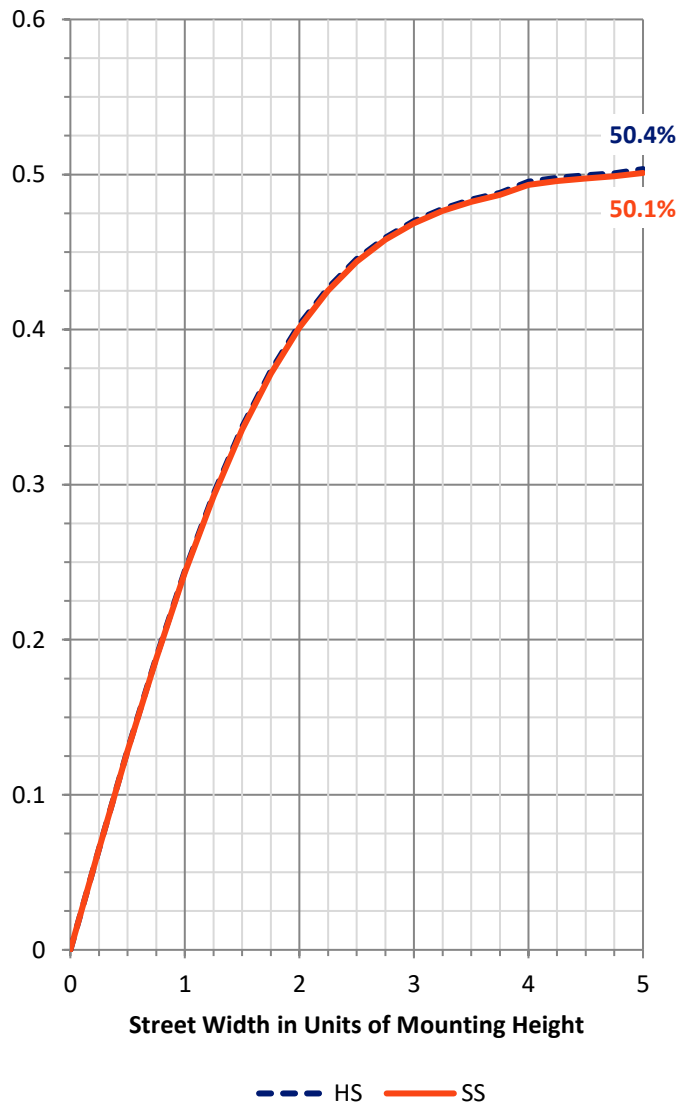
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25718.5	0.0	25718.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25718.5	0.0	25718.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	51437.0	0.0	51437.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.4	0.7
10°-20°	1116.9	2.2
20°-30°	2119.6	4.1
30°-40°	3681.5	7.2
40°-50°	6408.0	12.5
50°-60°	10947.4	21.3
60°-70°	16122.2	31.3
70°-80°	10248.6	19.9
80°-90°	432.3	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°	51437.0	100.0
0°-180°	51437.0	100.0

**Coefficient of Utilization**



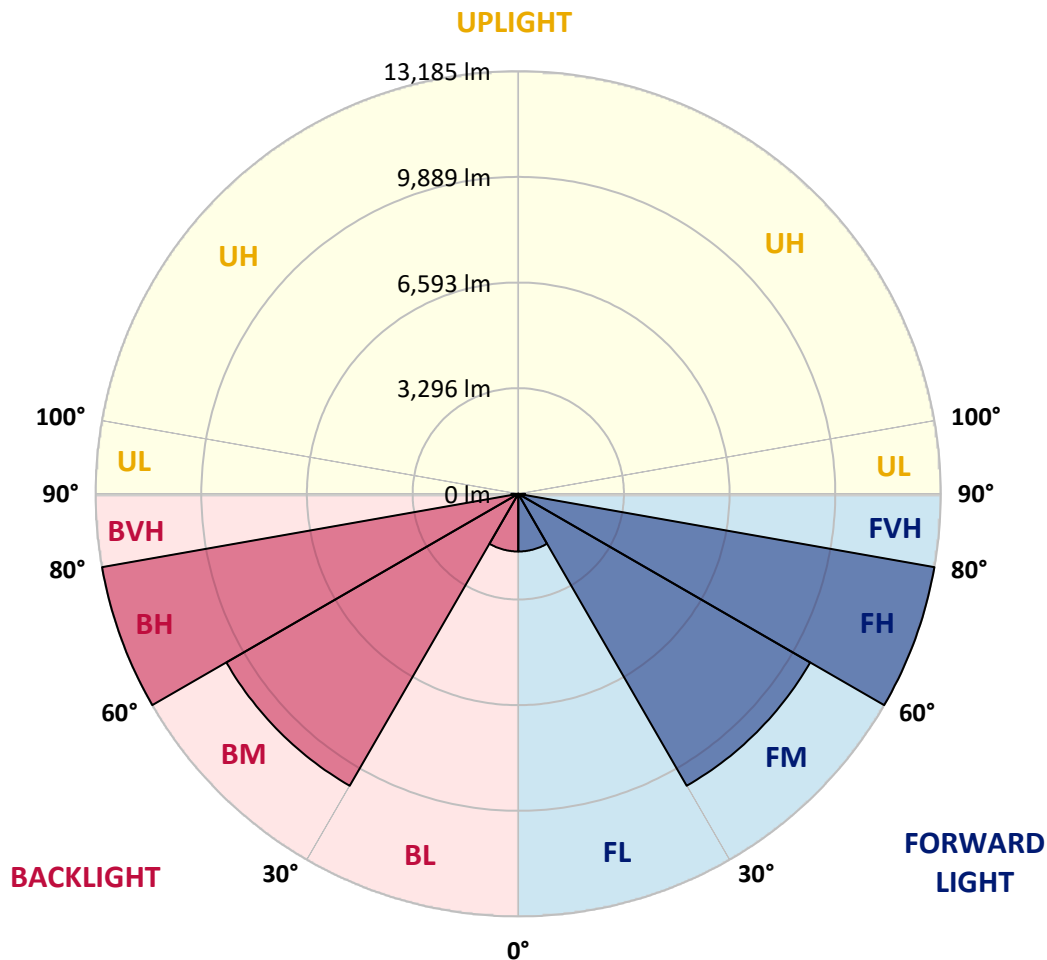
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1798.5	3.5			
FM (30°-60°)	10518.5	20.4			
FH (60°-80°)	13185.4	25.6			G5
FVH (80°-90°)	216.1	0.4			G2/225
BL (0°-30°)	1798.5	3.5	B3/2500		
BM (30°-60°)	10518.5	20.4	B5		
BH (60°-80°)	13185.4	25.6	B5		G5
BVH (80°-90°)	216.1	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-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3783.5
2.5°	3784.5
5°	3777.0
7.5°	3770.7
10°	3777.1
12.5°	3817.7
15°	3895.9
17.5°	4005.4
20°	4154.1
22.5°	4329.7
25°	4536.5
27.5°	4760.7
30°	5024.4
32.5°	5348.3
35°	5773.7
37.5°	6263.4
40°	6807.7
42.5°	7419.3
45°	8145.1
47.5°	8982.2
50°	9951.8
52.5°	10999.0
55°	12147.9
57.5°	13295.2
60°	14436.1
62.5°	15580.4
65°	16942.8
67.5°	17232.1
70°	15875.8
72.5°	13503.1
75°	10252.0
77.5°	6267.7
80°	1989.4
82.5°	337.7
85°	190.8
87.5°	69.1
90°	0.0

(END OF REPORT)