

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: P721946

Luminaire Tested: **CST-CA8-430-760-U-T5R**

Issue Date: 10/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P721946  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA8-430-760-U-T5R  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 69563 lumens  
Efficiency: N/A  
Efficacy: 160.2 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

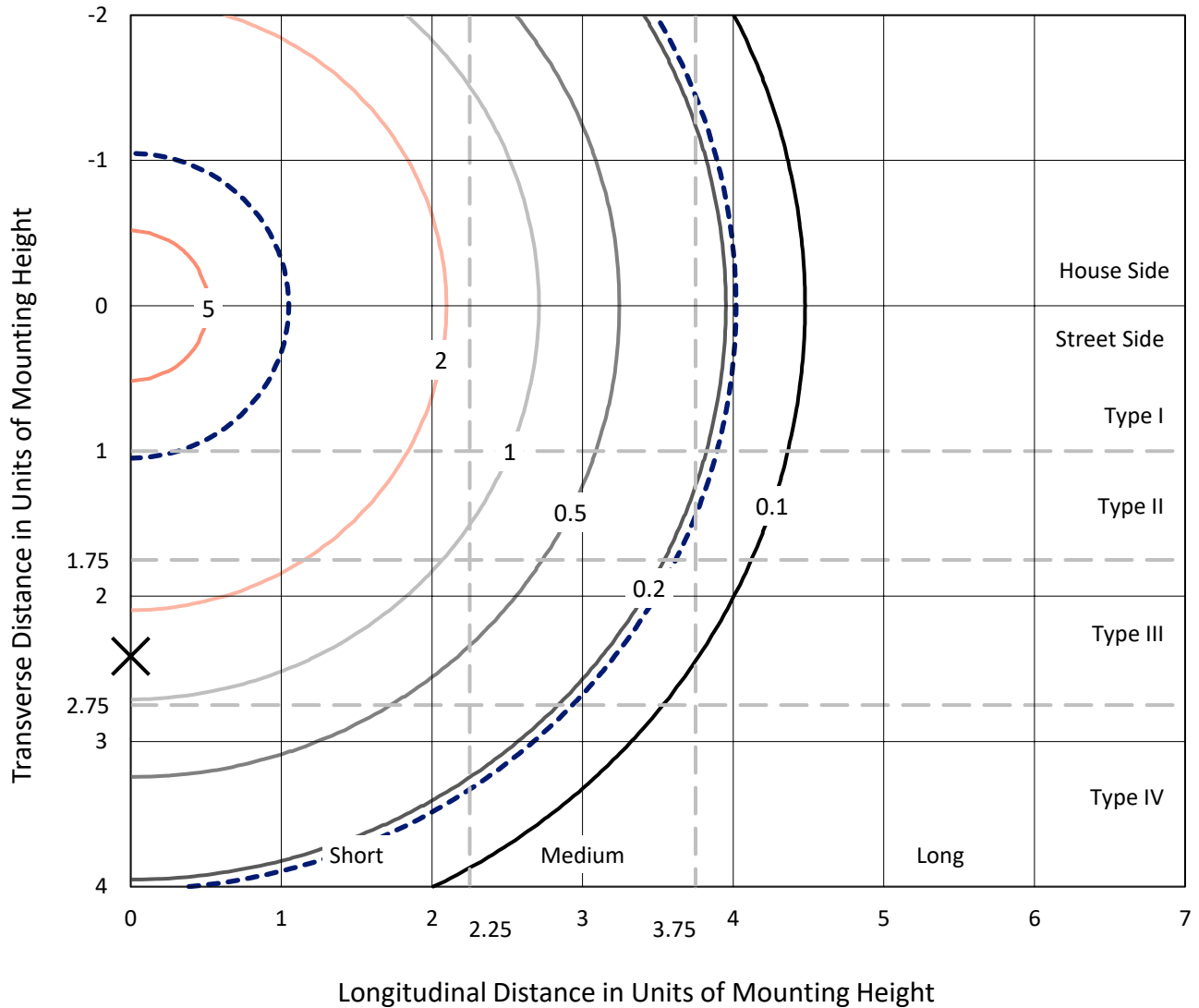
Input Watts (W): 434.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

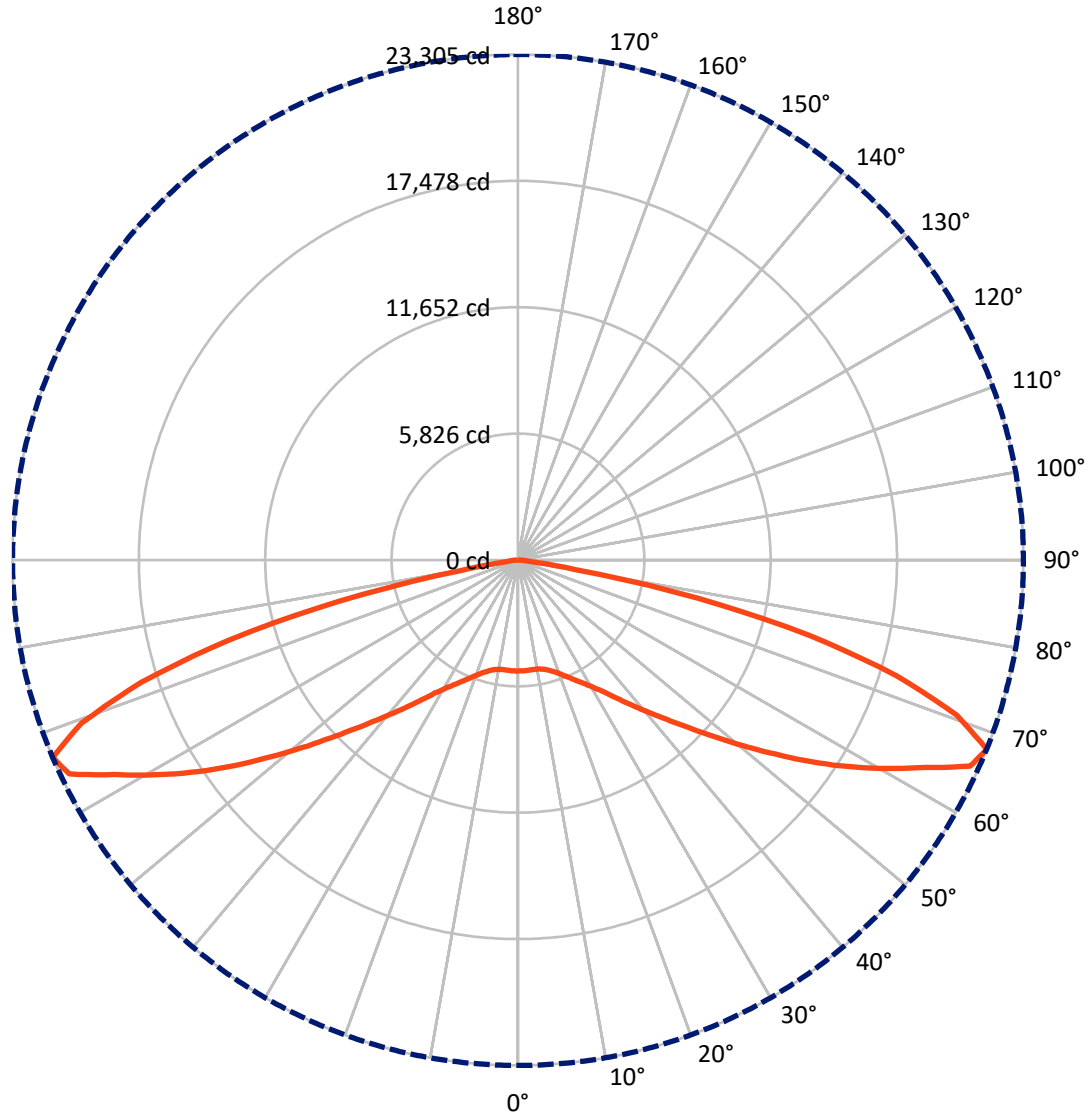
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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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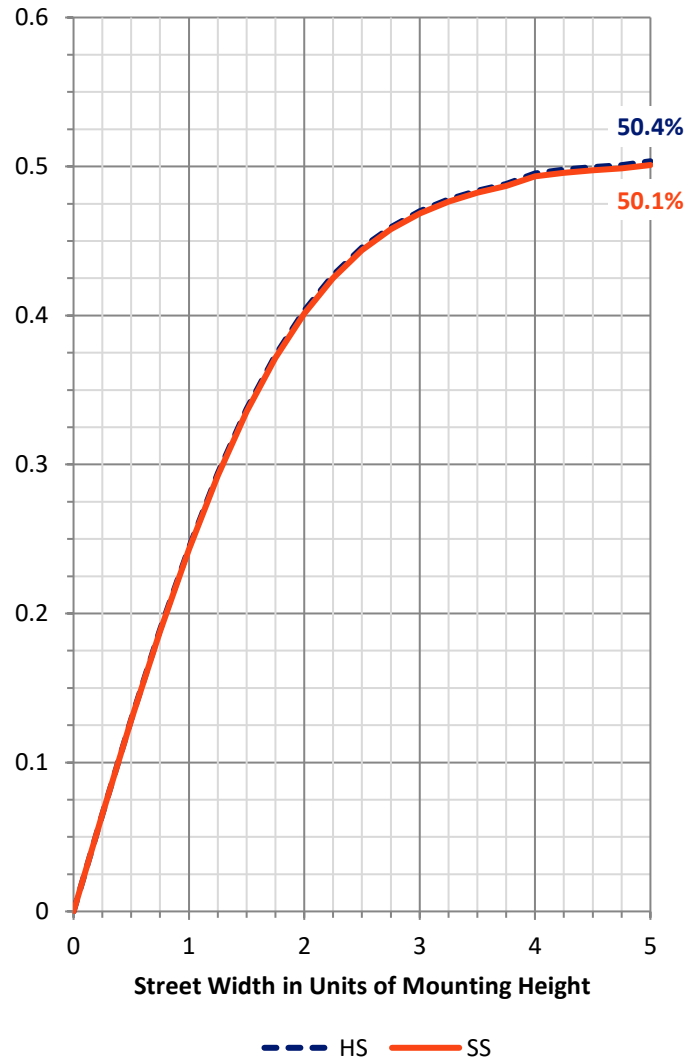
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	34781.5	0.0	34781.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	34781.5	0.0	34781.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	69563.0	0.0	69563.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	487.4	0.7
10°-20°	1510.5	2.2
20°-30°	2866.6	4.1
30°-40°	4978.9	7.2
40°-50°	8666.2	12.5
50°-60°	14805.2	21.3
60°-70°	21803.5	31.3
70°-80°	13860.1	19.9
80°-90°	584.6	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°	69563.0	100.0
0°-180°	69563.0	100.0

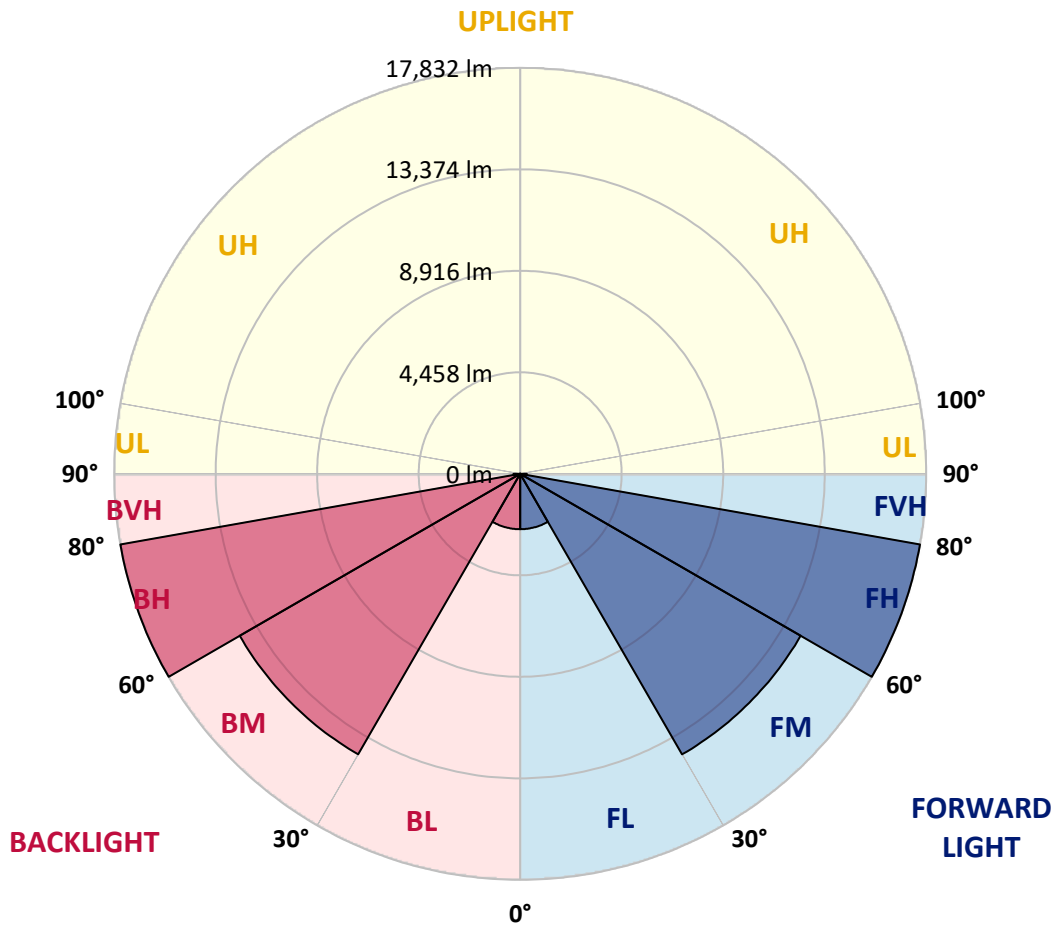


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2432.3	3.5			
FM (30°-60°)	14225.1	20.4			
FH (60°-80°)	17831.8	25.6			G5
FVH (80°-90°)	292.3	0.4			G3/500
BL (0°-30°)	2432.3	3.5	B3/2500		
BM (30°-60°)	14225.1	20.4	B5		
BH (60°-80°)	17831.8	25.6	B5		G5
BVH (80°-90°)	292.3	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°	5116.8
2.5°	5118.1
5°	5107.9
7.5°	5099.5
10°	5108.1
12.5°	5163.0
15°	5268.8
17.5°	5416.9
20°	5618.0
22.5°	5855.4
25°	6135.2
27.5°	6438.4
30°	6794.9
32.5°	7233.0
35°	7808.4
37.5°	8470.6
40°	9206.6
42.5°	10033.8
45°	11015.4
47.5°	12147.5
50°	13458.7
52.5°	14875.0
55°	16428.7
57.5°	17980.3
60°	19523.3
62.5°	21070.8
65°	22913.3
67.5°	23304.5
70°	21470.3
72.5°	18261.5
75°	13864.7
77.5°	8476.4
80°	2690.4
82.5°	456.7
85°	258.0
87.5°	93.4
90°	0.0

(END OF REPORT)