

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: P510544

Luminaire Tested: **CST-CA10-630-730-U-T5R**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510544  
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-CA10-630-730-U-T5R  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 96960 lumens  
Efficiency: N/A  
Efficacy: 153.6 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

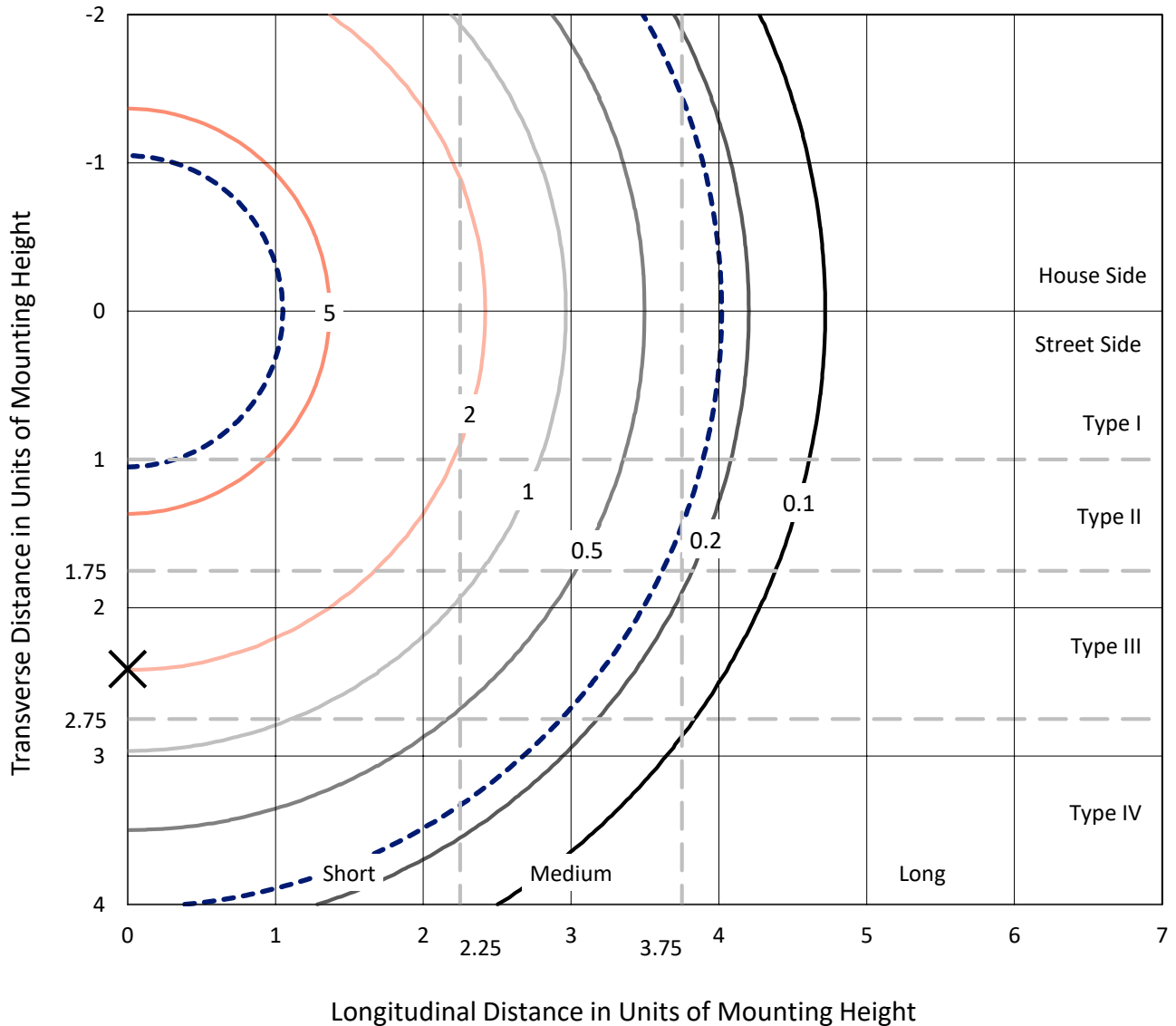
Input Watts (W): 631.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

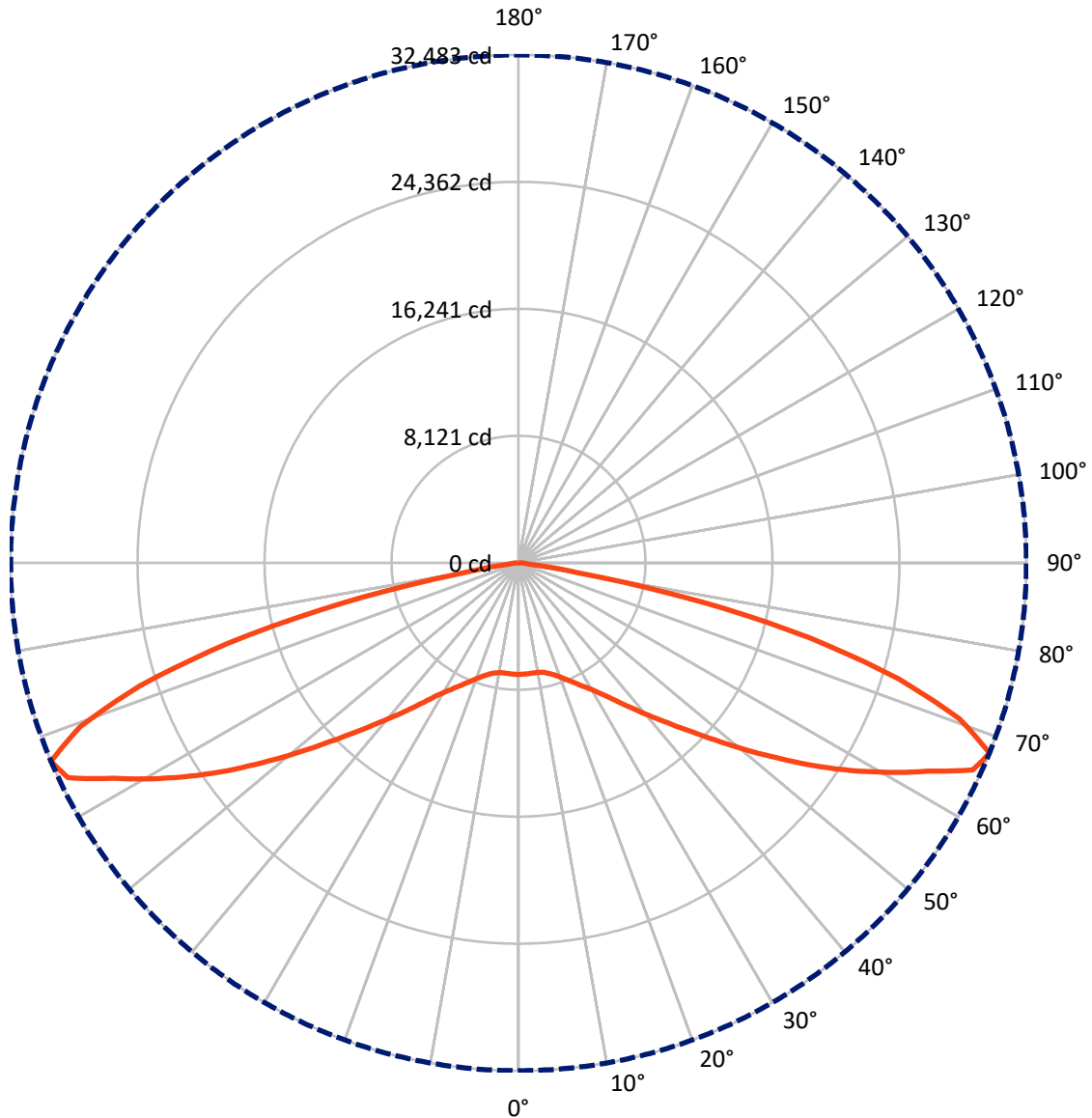
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 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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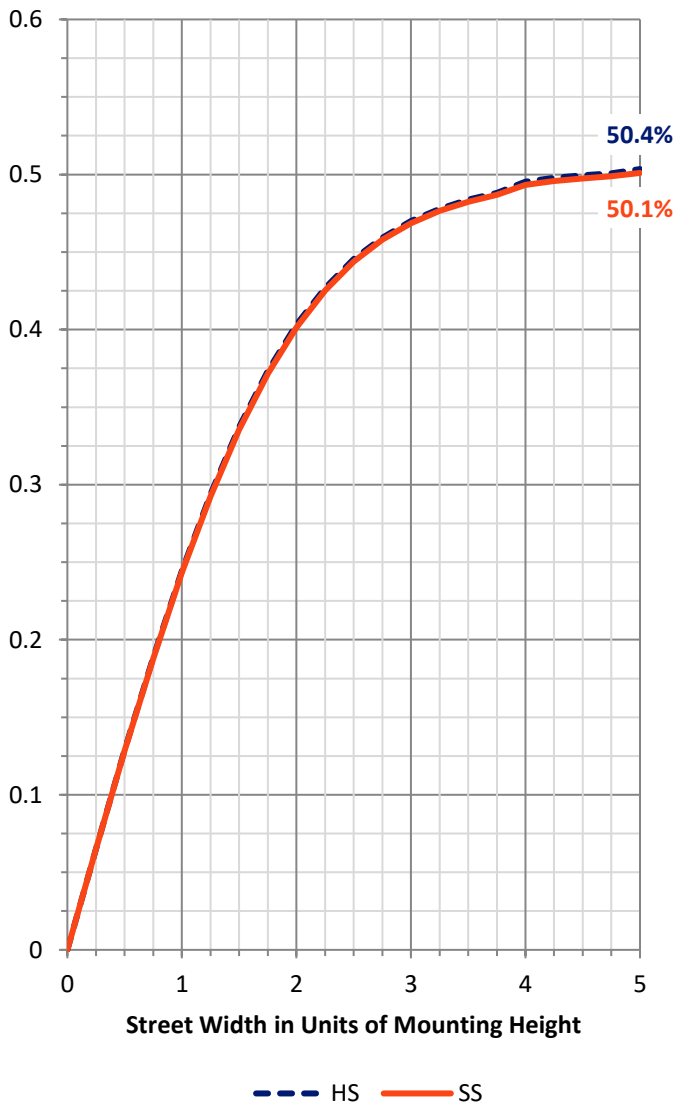
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	48480.0	0.0	48480.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	48480.0	0.0	48480.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	96960.0	0.0	96960.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	679.4	0.7
10°-20°	2105.5	2.2
20°-30°	3995.6	4.1
30°-40°	6939.8	7.2
40°-50°	12079.3	12.5
50°-60°	20636.1	21.3
60°-70°	30390.8	31.3
70°-80°	19318.8	19.9
80°-90°	814.9	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°	96960.0	100.0
0°-180°	96960.0	100.0



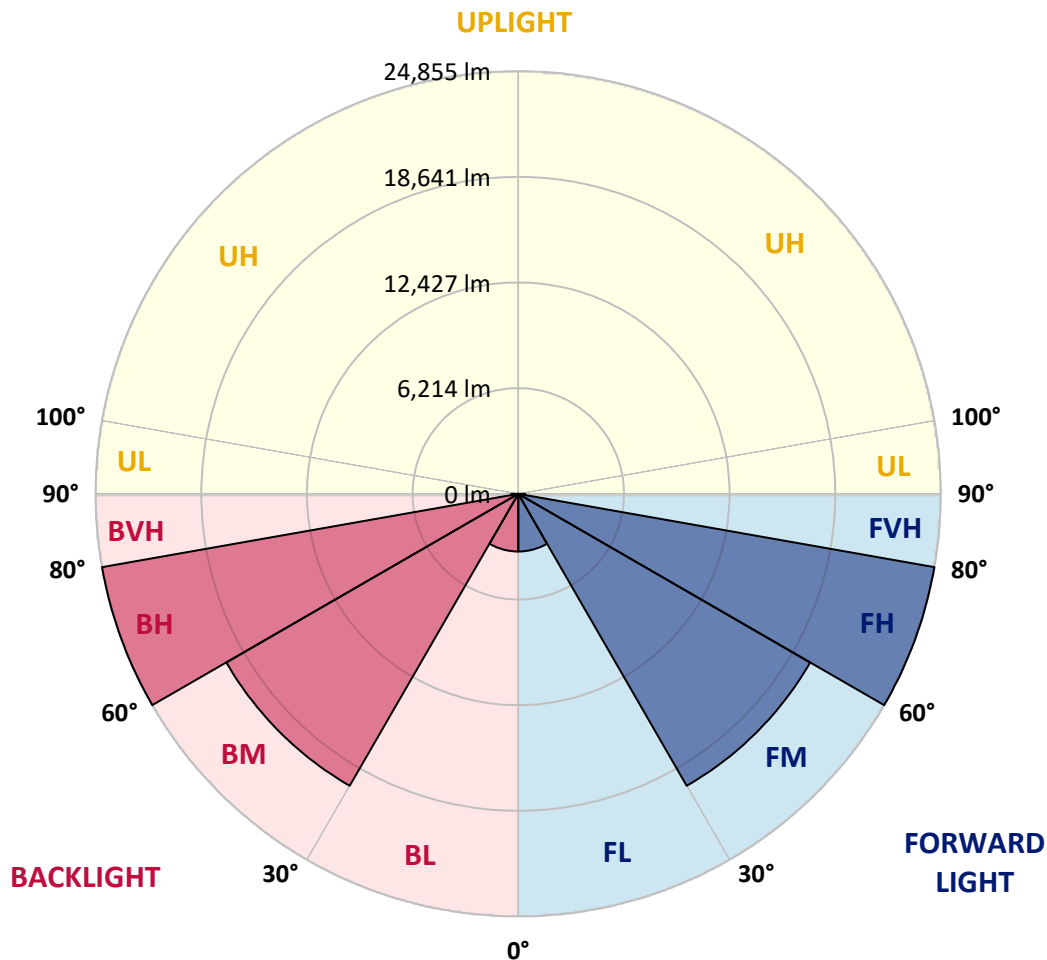
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3390.2	3.5			
FM (30°-60°)	19827.6	20.4			
FH (60°-80°)	24854.8	25.6			G5
FVH (80°-90°)	407.4	0.4			G3/500
BL (0°-30°)	3390.2	3.5	B4/5000		
BM (30°-60°)	19827.6	20.4	B5		
BH (60°-80°)	24854.8	25.6	B5		G5
BVH (80°-90°)	407.4	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°	7132.0
2.5°	7133.8
5°	7119.7
7.5°	7107.9
10°	7119.8
12.5°	7196.4
15°	7343.9
17.5°	7550.3
20°	7830.6
22.5°	8161.5
25°	8551.5
27.5°	8974.1
30°	9471.0
32.5°	10081.7
35°	10883.7
37.5°	11806.7
40°	12832.6
42.5°	13985.5
45°	15353.7
47.5°	16931.7
50°	18759.4
52.5°	20733.4
55°	22899.0
57.5°	25061.8
60°	27212.4
62.5°	29369.5
65°	31937.5
67.5°	32482.9
70°	29926.3
72.5°	25453.7
75°	19325.3
77.5°	11814.8
80°	3750.0
82.5°	636.6
85°	359.7
87.5°	130.2
90°	0.0

(END OF REPORT)