

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: P256614

Luminaire Tested: **CST-10-8-D-U-T5R-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256614  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-1)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-10-8-D-U-T5R-7050  
Description: CELESTEON HIGH MAST LUMINAIRE  
(10) 70 CRI, 5000K LEDS AND TYPE V ROUND OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 87730 lumens  
Efficiency: N/A  
Efficacy: 139.0 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G5

Input Watts (W): 631  
Input Voltage (V): NR  
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

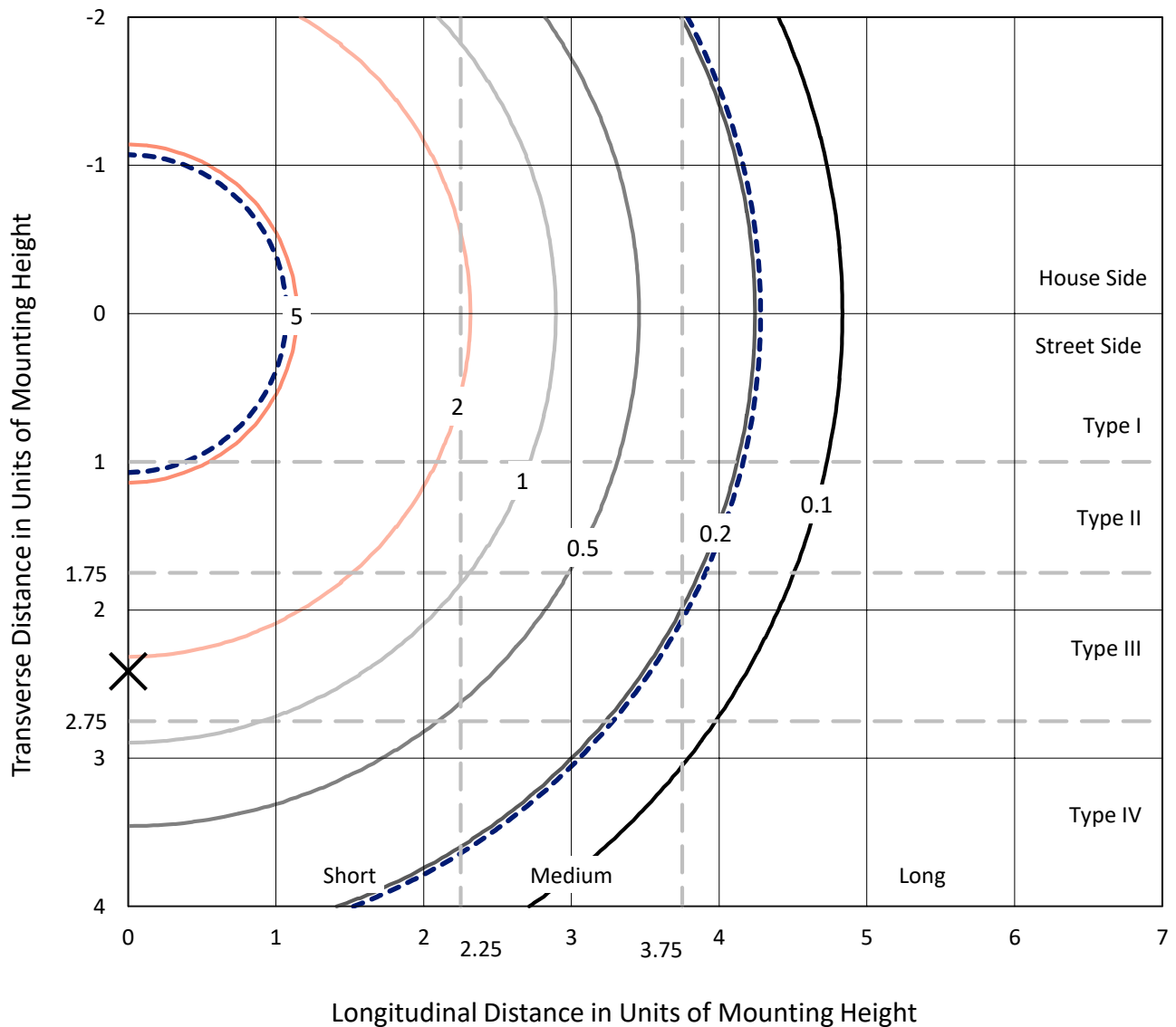


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

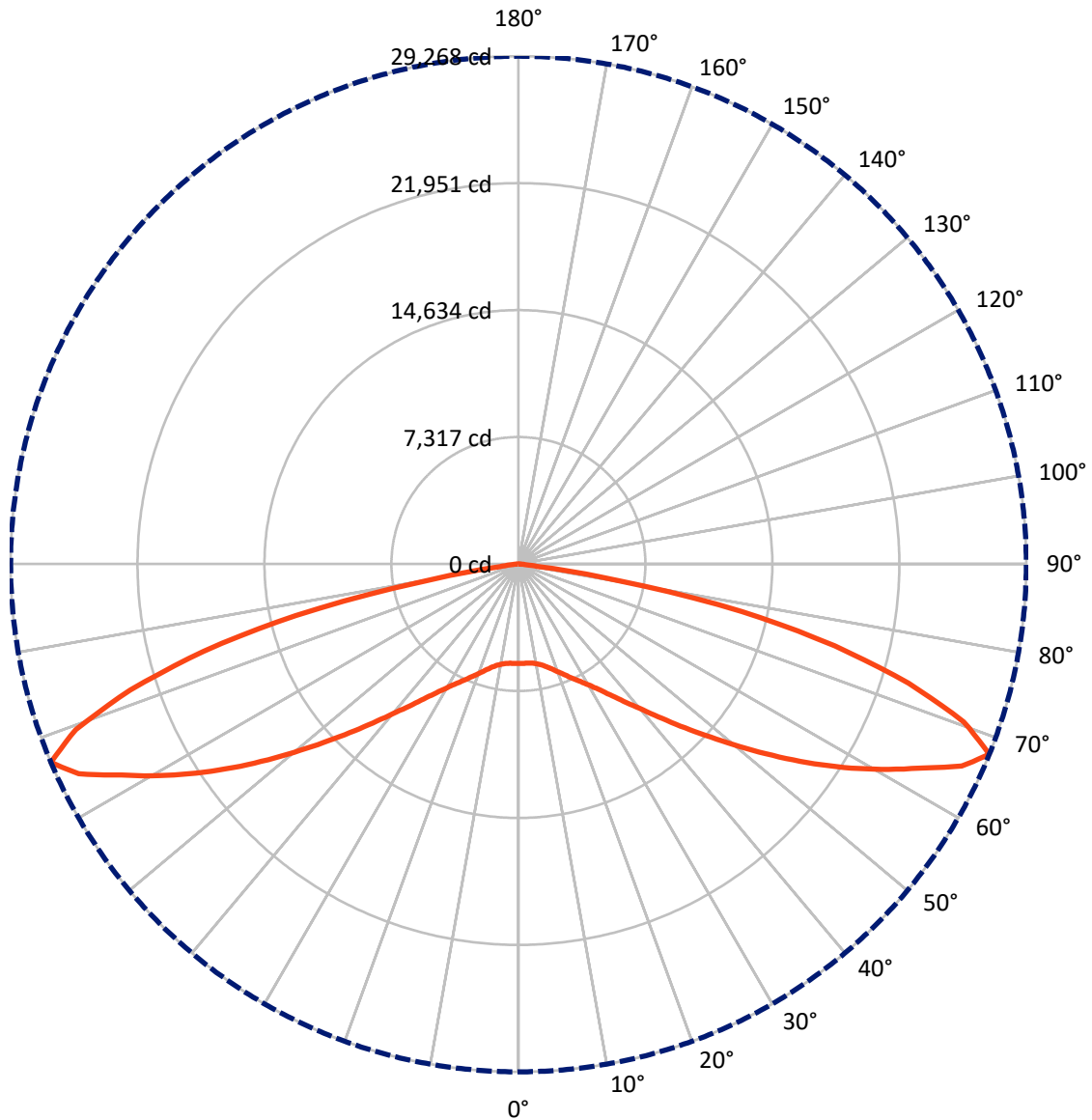


Based on 30 foot mounting height. Maximum calculated value = 6.4 fc  
 Type V - Short - Full Cutoff

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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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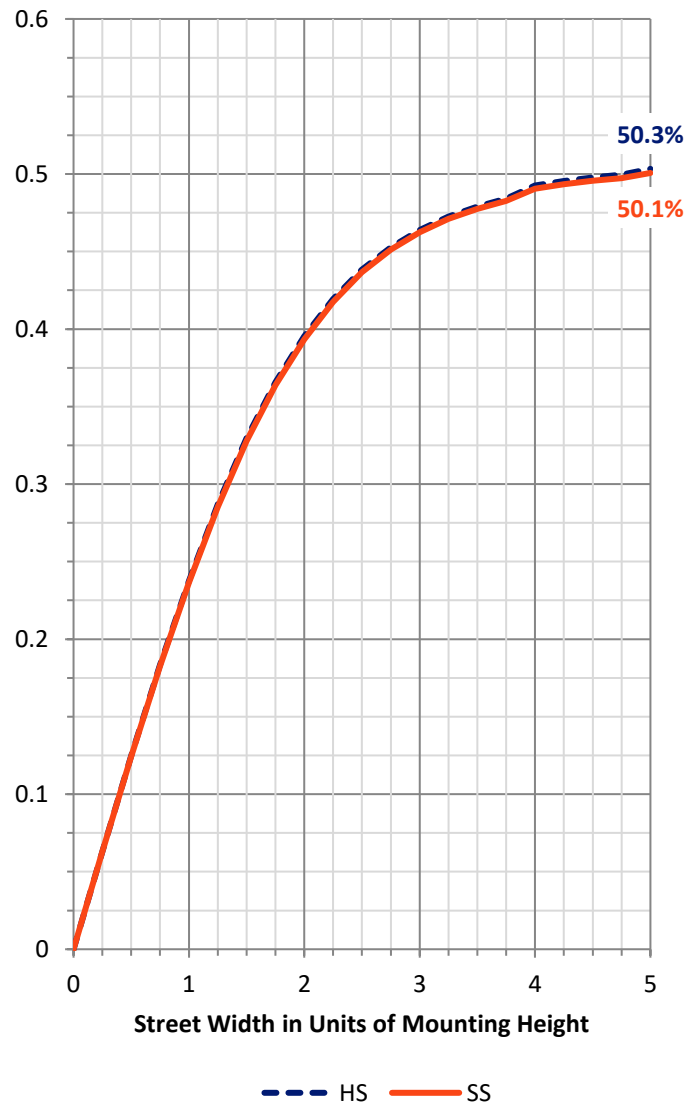
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	43865.0	0.0	43865.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	43865.0	0.0	43865.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	87730.0	0.0	87730.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	550.8	0.6
10°-20°	1765.3	2.0
20°-30°	3415.0	3.9
30°-40°	5957.3	6.8
40°-50°	10574.6	12.1
50°-60°	18212.9	20.8
60°-70°	27048.5	30.8
70°-80°	18981.3	21.6
80°-90°	1224.4	1.4
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°	87730.0	100.0
0°-180°	87730.0	100.0



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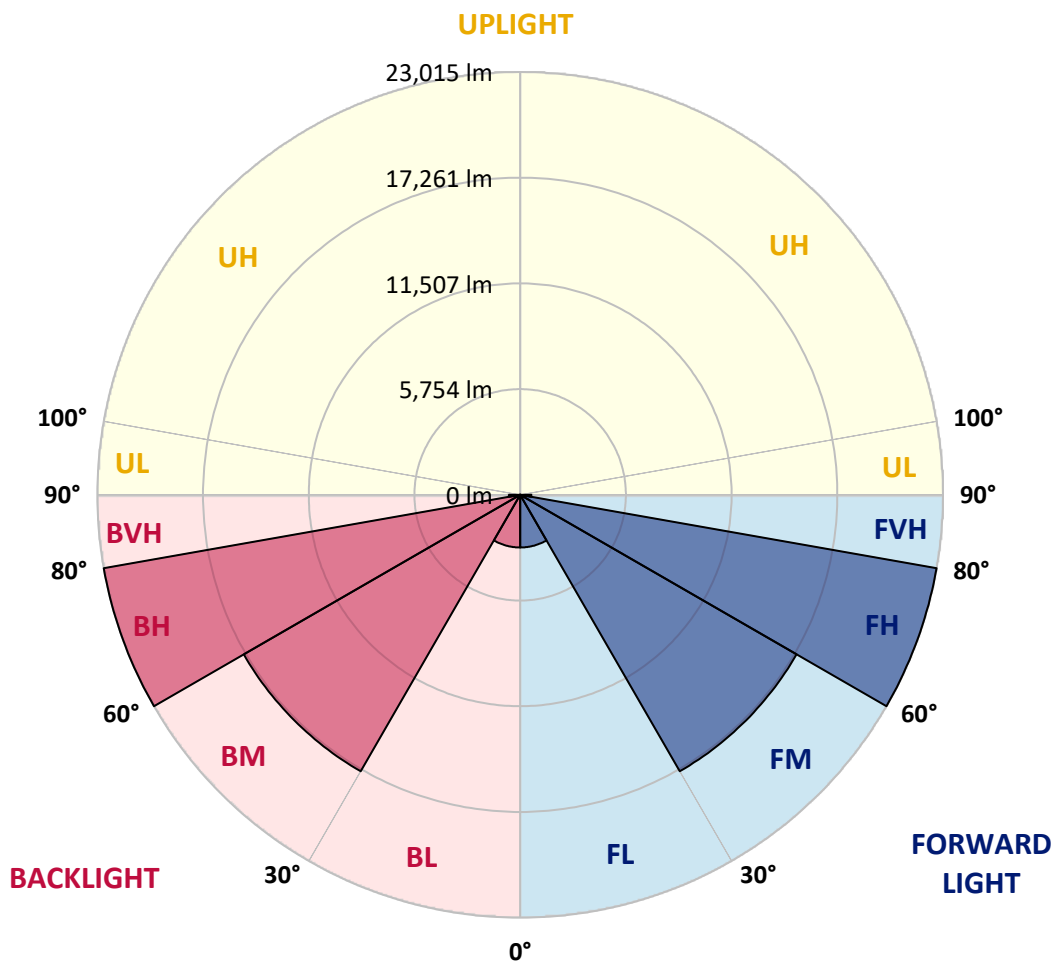
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2865.6	3.3			
FM (30°-60°)	17372.4	19.8			
FH (60°-80°)	23014.9	26.2			G5
FVH (80°-90°)	612.2	0.7			G4/750
BL (0°-30°)	2865.6	3.3	B4/5000		
BM (30°-60°)	17372.4	19.8	B5		
BH (60°-80°)	23014.9	26.2	B5		G5
BVH (80°-90°)	612.2	0.7			G4/750
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°	5722.5
2.5°	5730.3
5°	5735.6
7.5°	5766.9
10°	5845.3
12.5°	5968.0
15°	6145.6
17.5°	6380.7
20°	6654.9
22.5°	6963.1
25°	7305.3
27.5°	7684.0
30°	8122.8
32.5°	8660.8
35°	9329.4
37.5°	10131.3
40°	11042.8
42.5°	12160.7
45°	13464.0
47.5°	14908.3
50°	16527.6
52.5°	18316.7
55°	20197.2
57.5°	22119.5
60°	24034.0
62.5°	25909.3
65°	28071.9
67.5°	29268.1
70°	27225.7
72.5°	23511.6
75°	18826.0
77.5°	13163.6
80°	5921.0
82.5°	1078.7
85°	329.1
87.5°	143.7
90°	0.0

(END OF REPORT)