

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: P256605

Luminaire Tested: **CST-8-6-D-U-T5R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256605  
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-8-6-D-U-T5R  
Description: CELESTEON HIGH MAST LUMINAIRE  
(8) 70 CRI, 4000K LEDS AND TYPE V ROUND OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 67507 lumens  
Efficiency: N/A  
Efficacy: 141.5 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G5

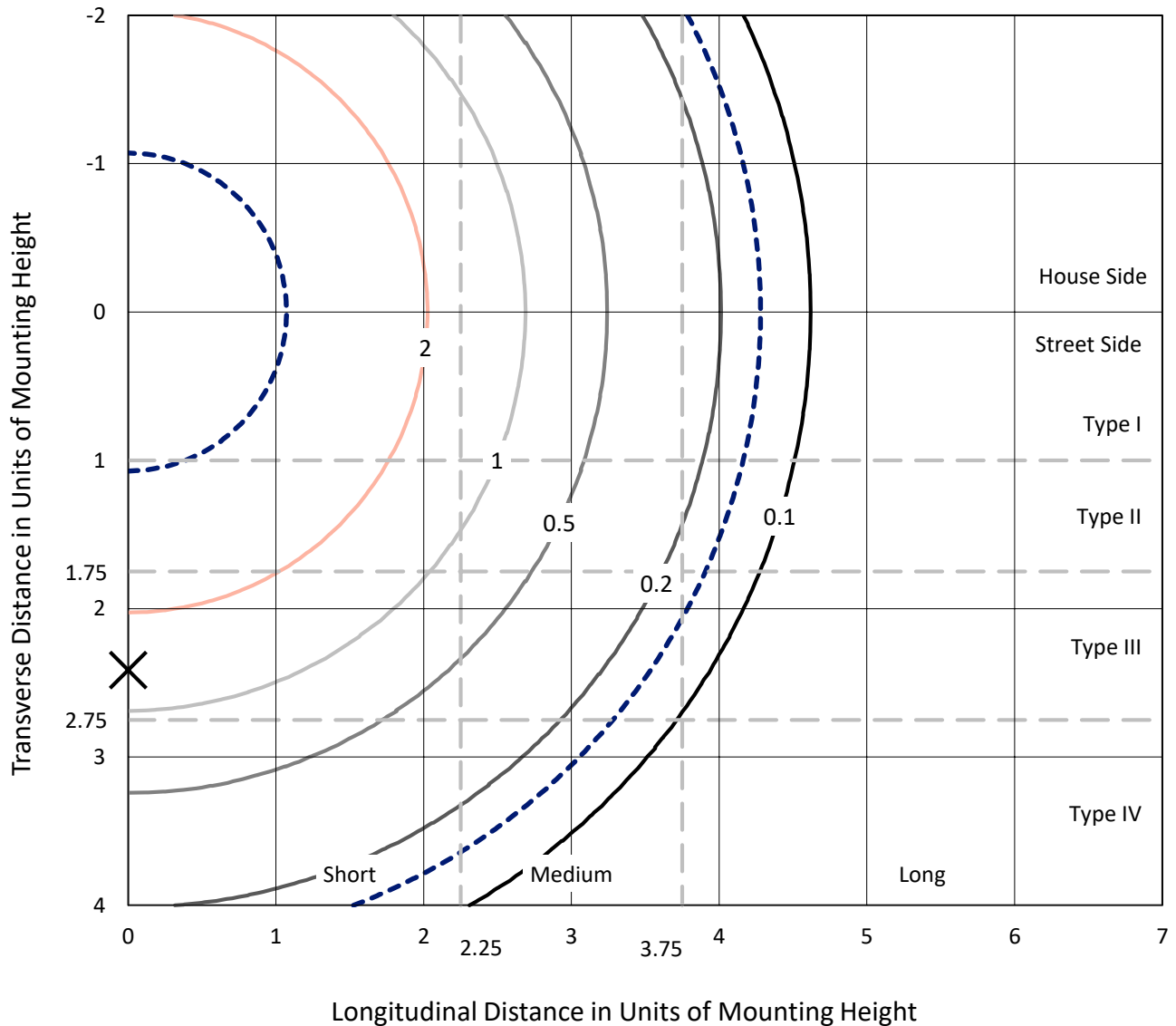
Input Watts (W): 477  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

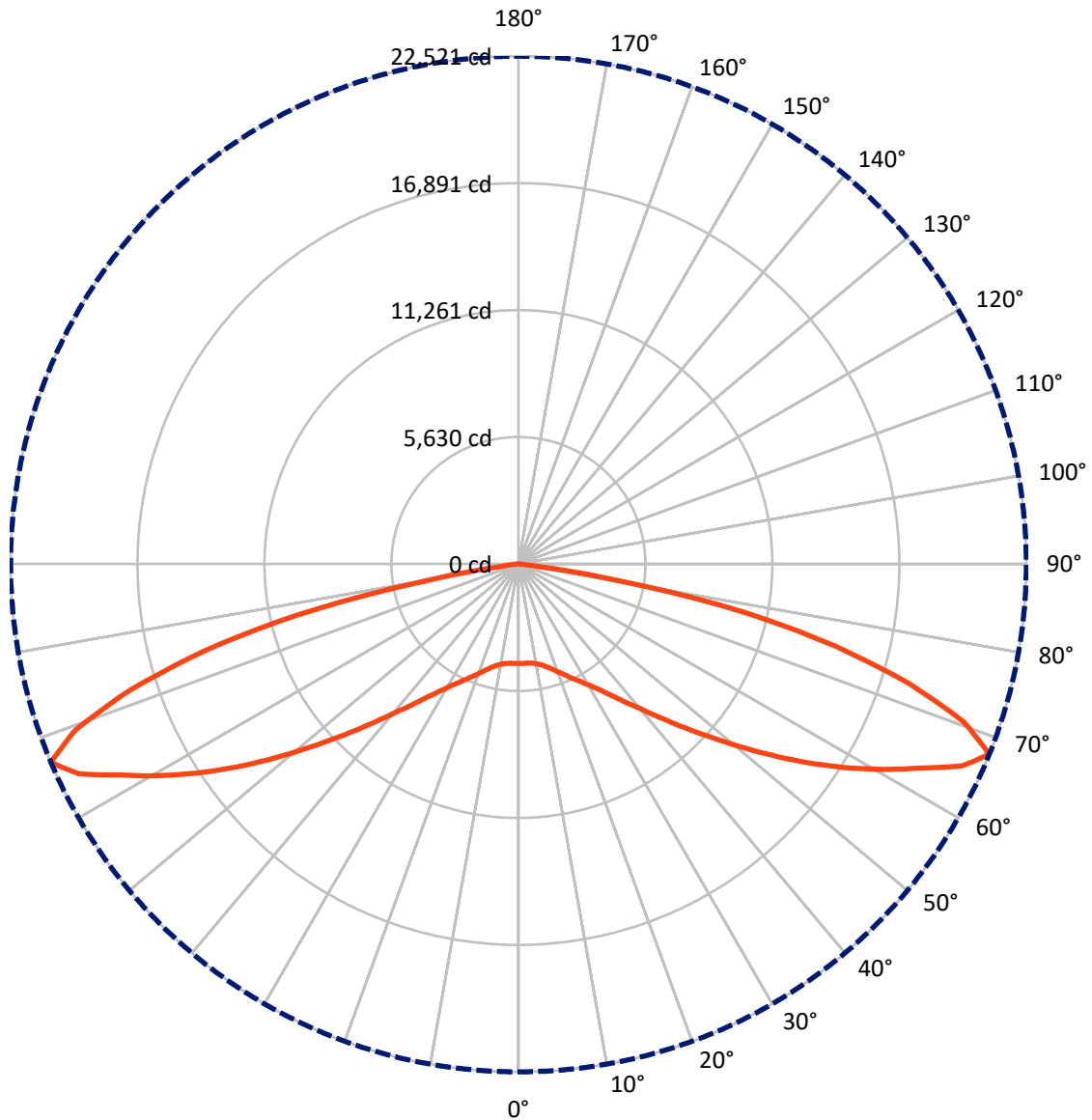
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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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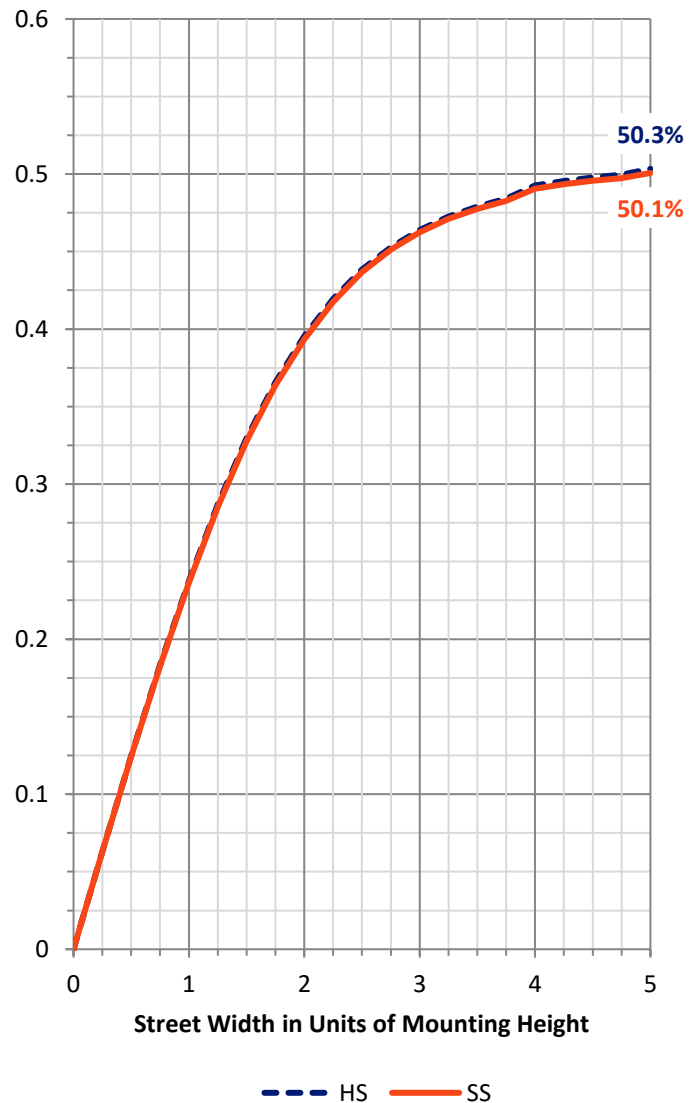
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	33753.5	0.0	33753.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	33753.5	0.0	33753.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	67507.0	0.0	67507.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.8	0.6
10°-20°	1358.4	2.0
20°-30°	2627.8	3.9
30°-40°	4584.0	6.8
40°-50°	8137.0	12.1
50°-60°	14014.6	20.8
60°-70°	20813.4	30.8
70°-80°	14605.8	21.6
80°-90°	942.1	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°	67507.0	100.0
0°-180°	67507.0	100.0



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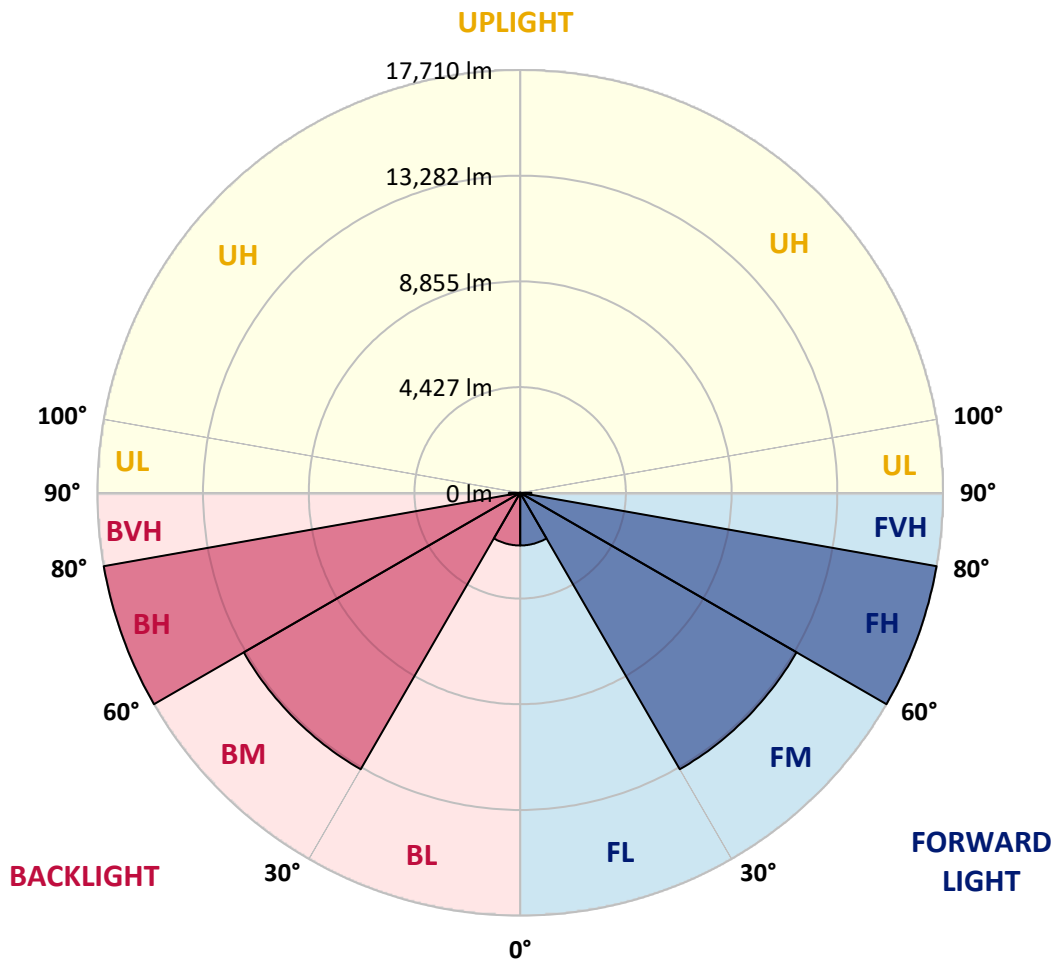
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2205.0	3.3			
FM (30°-60°)	13367.8	19.8			
FH (60°-80°)	17709.6	26.2			G5
FVH (80°-90°)	471.1	0.7			G3/500
BL (0°-30°)	2205.0	3.3	B3/2500		
BM (30°-60°)	13367.8	19.8	B5		
BH (60°-80°)	17709.6	26.2	B5		G5
BVH (80°-90°)	471.1	0.7			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°	4403.4
2.5°	4409.4
5°	4413.4
7.5°	4437.6
10°	4497.8
12.5°	4592.3
15°	4729.0
17.5°	4909.8
20°	5120.9
22.5°	5358.0
25°	5621.3
27.5°	5912.7
30°	6250.4
32.5°	6664.4
35°	7178.9
37.5°	7795.9
40°	8497.3
42.5°	9357.5
45°	10360.3
47.5°	11471.7
50°	12717.8
52.5°	14094.5
55°	15541.5
57.5°	17020.7
60°	18493.8
62.5°	19936.8
65°	21600.9
67.5°	22521.4
70°	20949.8
72.5°	18091.9
75°	14486.4
77.5°	10129.2
80°	4556.1
82.5°	830.0
85°	253.2
87.5°	110.5
90°	0.0

(END OF REPORT)