

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: P256601

Luminaire Tested: **CST-8-3-D-U-T5R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256601
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-8-3-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: 33698 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

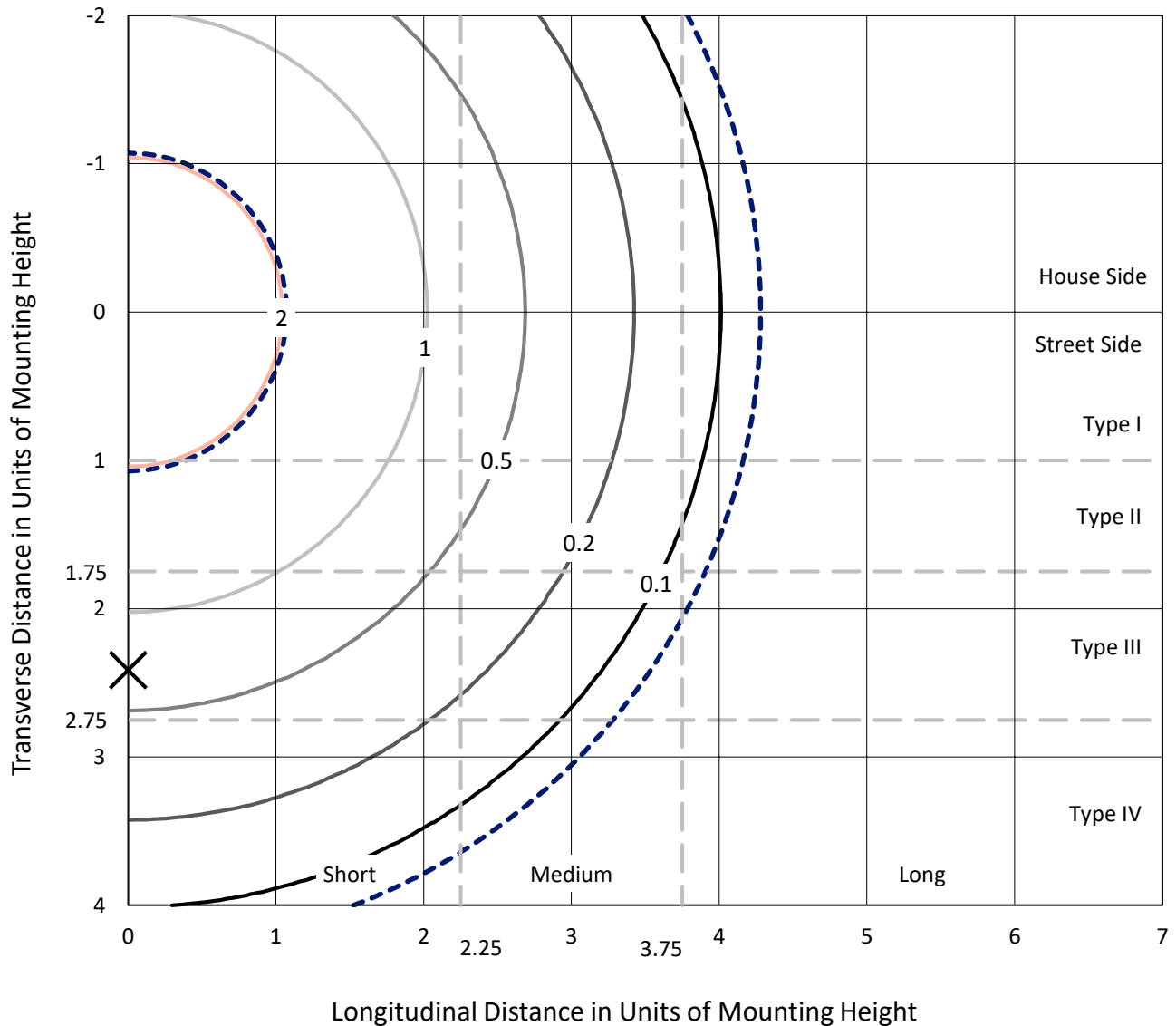
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

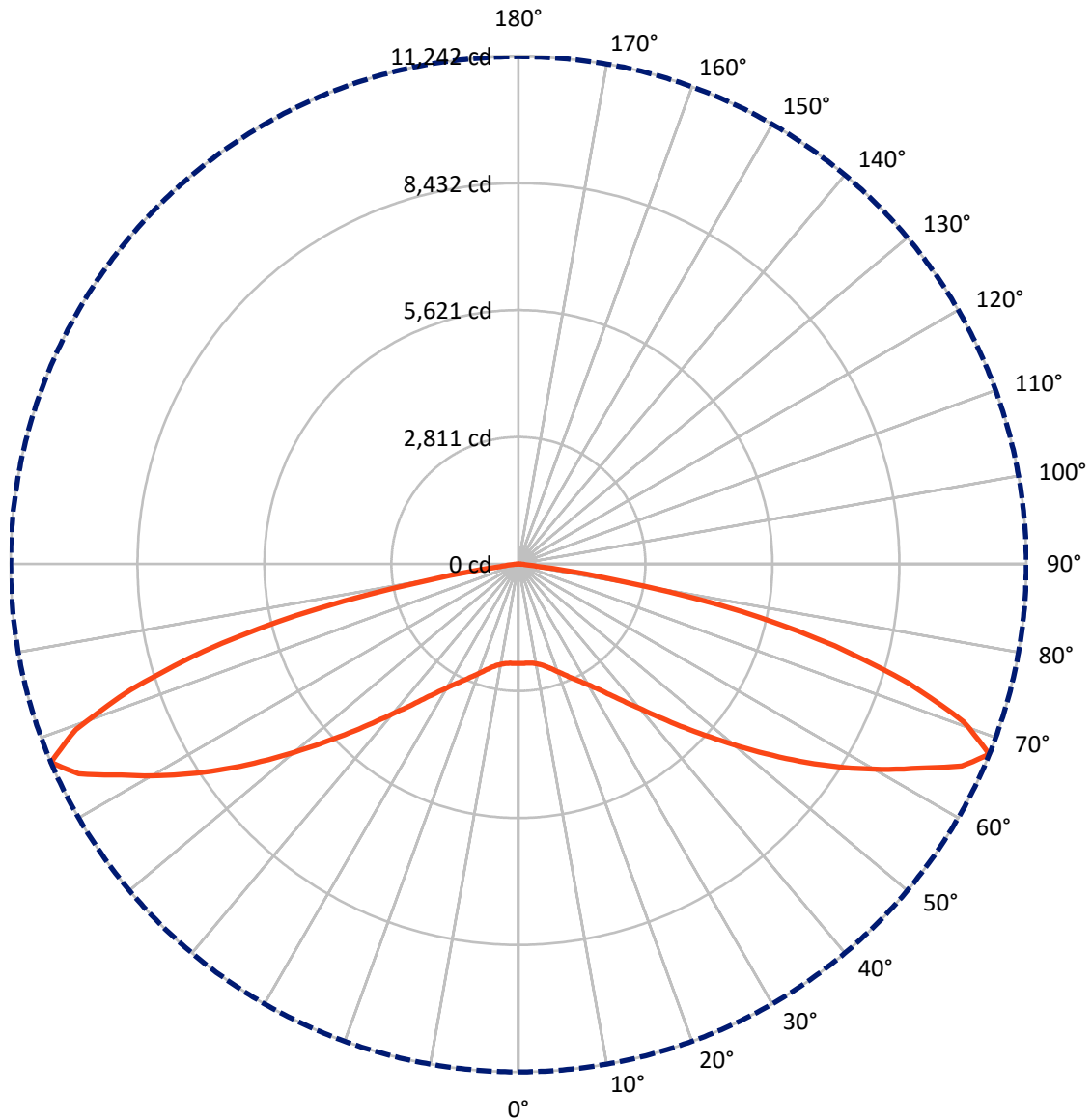
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.4 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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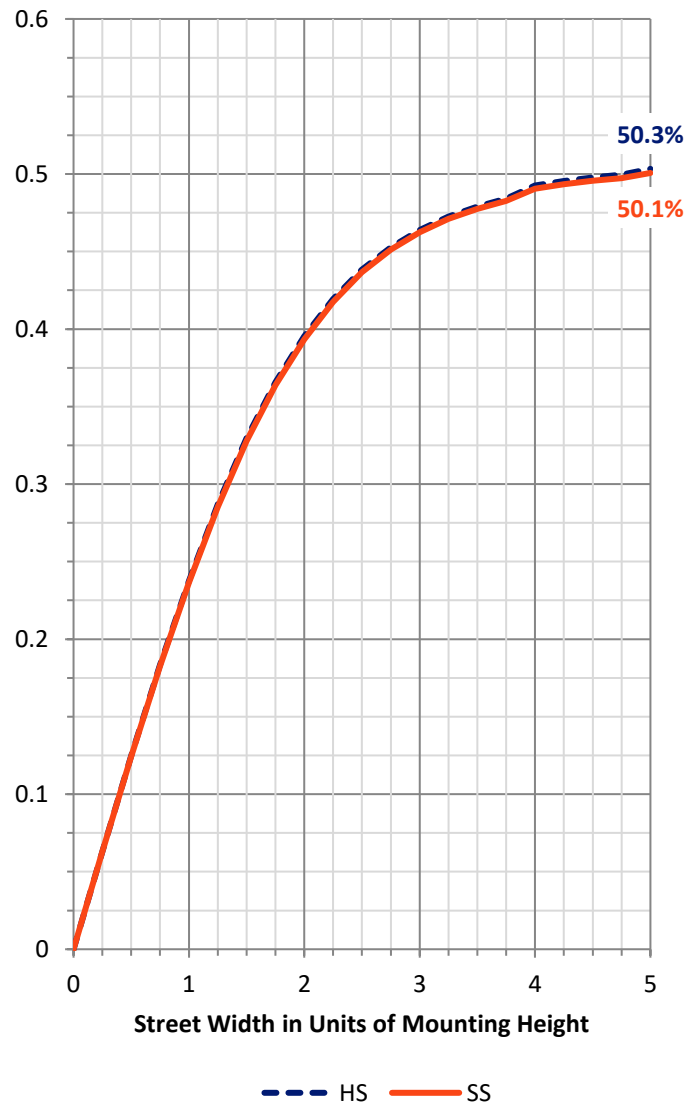
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16849.0	0.0	16849.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16849.0	0.0	16849.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33698.0	0.0	33698.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.6	0.6
10°-20°	678.1	2.0
20°-30°	1311.7	3.9
30°-40°	2288.2	6.8
40°-50°	4061.8	12.1
50°-60°	6995.8	20.8
60°-70°	10389.6	30.8
70°-80°	7290.9	21.6
80°-90°	470.3	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°	33698.0	100.0
0°-180°	33698.0	100.0



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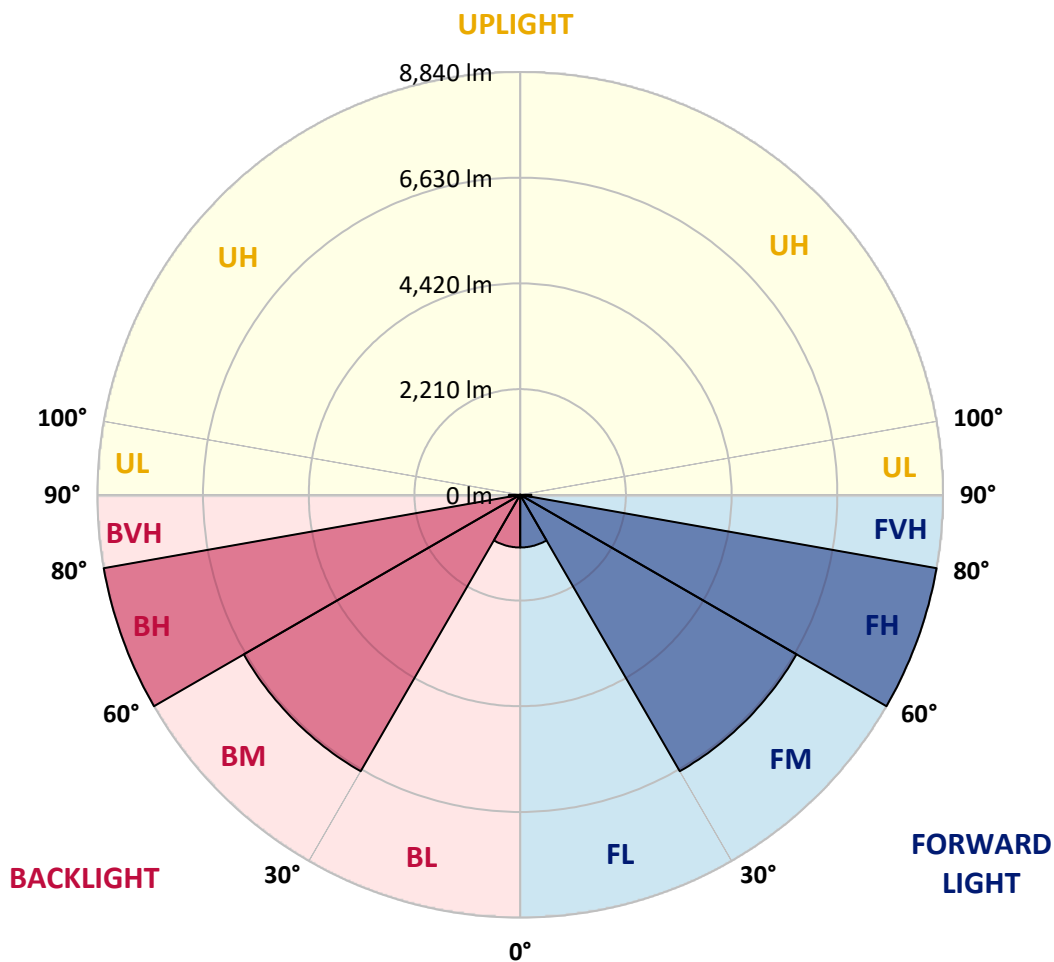
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1100.7	3.3			
FM	(30°-60°)	6672.9	19.8			
FH	(60°-80°)	8840.3	26.2			G4/12000
FVH	(80°-90°)	235.2	0.7			G3/500
BL	(0°-30°)	1100.7	3.3	B3/2500		
BM	(30°-60°)	6672.9	19.8	B4/8500		
BH	(60°-80°)	8840.3	26.2	B5		G4/12000
BVH	(80°-90°)	235.2	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°
0°	2198.1
2.5°	2201.1
5°	2203.1
7.5°	2215.1
10°	2245.2
12.5°	2292.4
15°	2360.6
17.5°	2450.9
20°	2556.2
22.5°	2674.6
25°	2806.0
27.5°	2951.5
30°	3120.0
32.5°	3326.7
35°	3583.5
37.5°	3891.5
40°	4241.7
42.5°	4671.0
45°	5171.6
47.5°	5726.4
50°	6348.4
52.5°	7035.6
55°	7758.0
57.5°	8496.3
60°	9231.7
62.5°	9952.0
65°	10782.7
67.5°	11242.2
70°	10457.7
72.5°	9031.1
75°	7231.3
77.5°	5056.3
80°	2274.3
82.5°	414.3
85°	126.4
87.5°	55.2
90°	0.0

(END OF REPORT)