

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: P510504

Luminaire Tested: **CST-CA10-310-750-U-T5R**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510504
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-CA10-310-750-U-T5R
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52805.1 lumens
Efficiency: N/A
Efficacy: 169.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

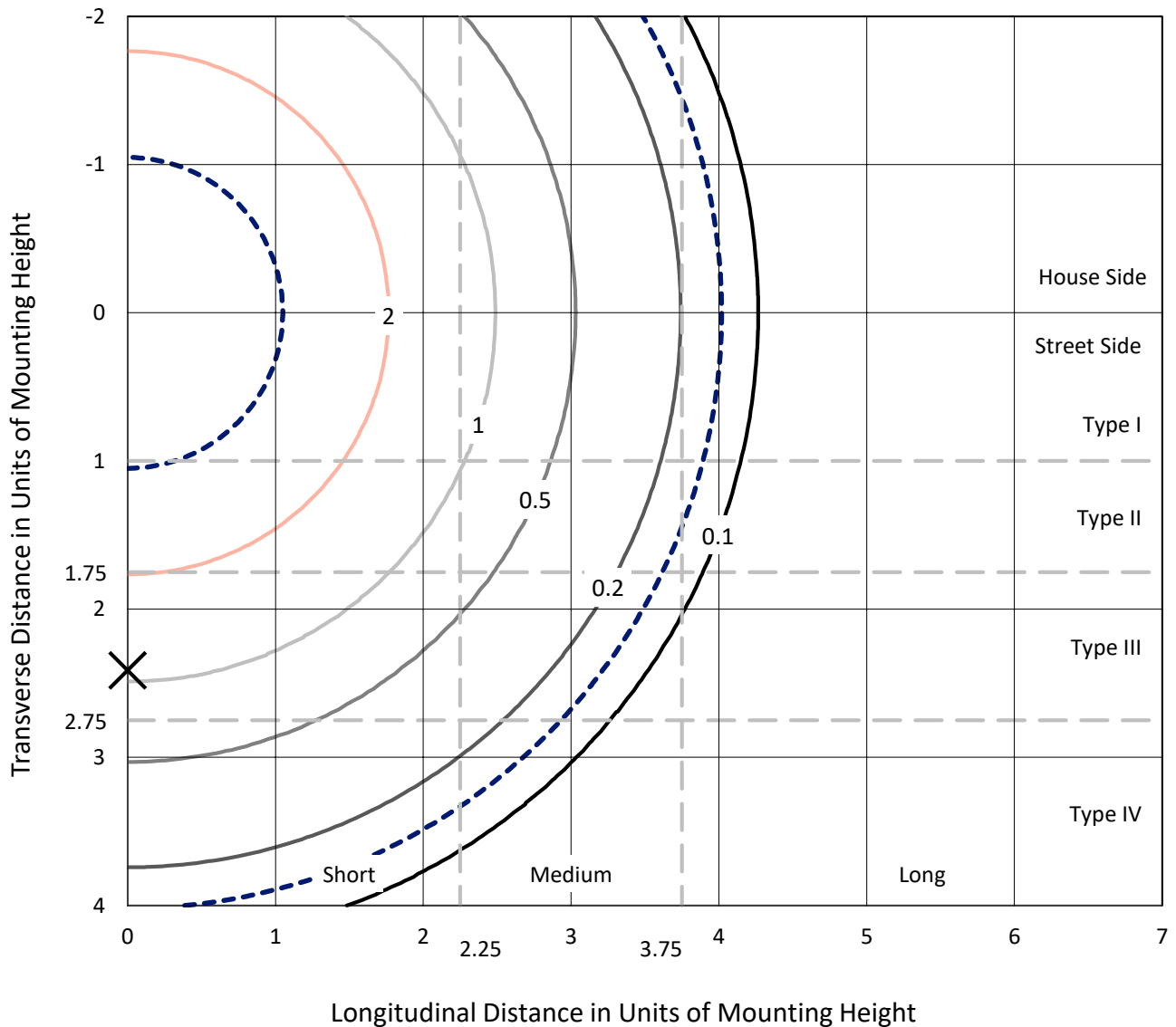
Input Watts (W): 312.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

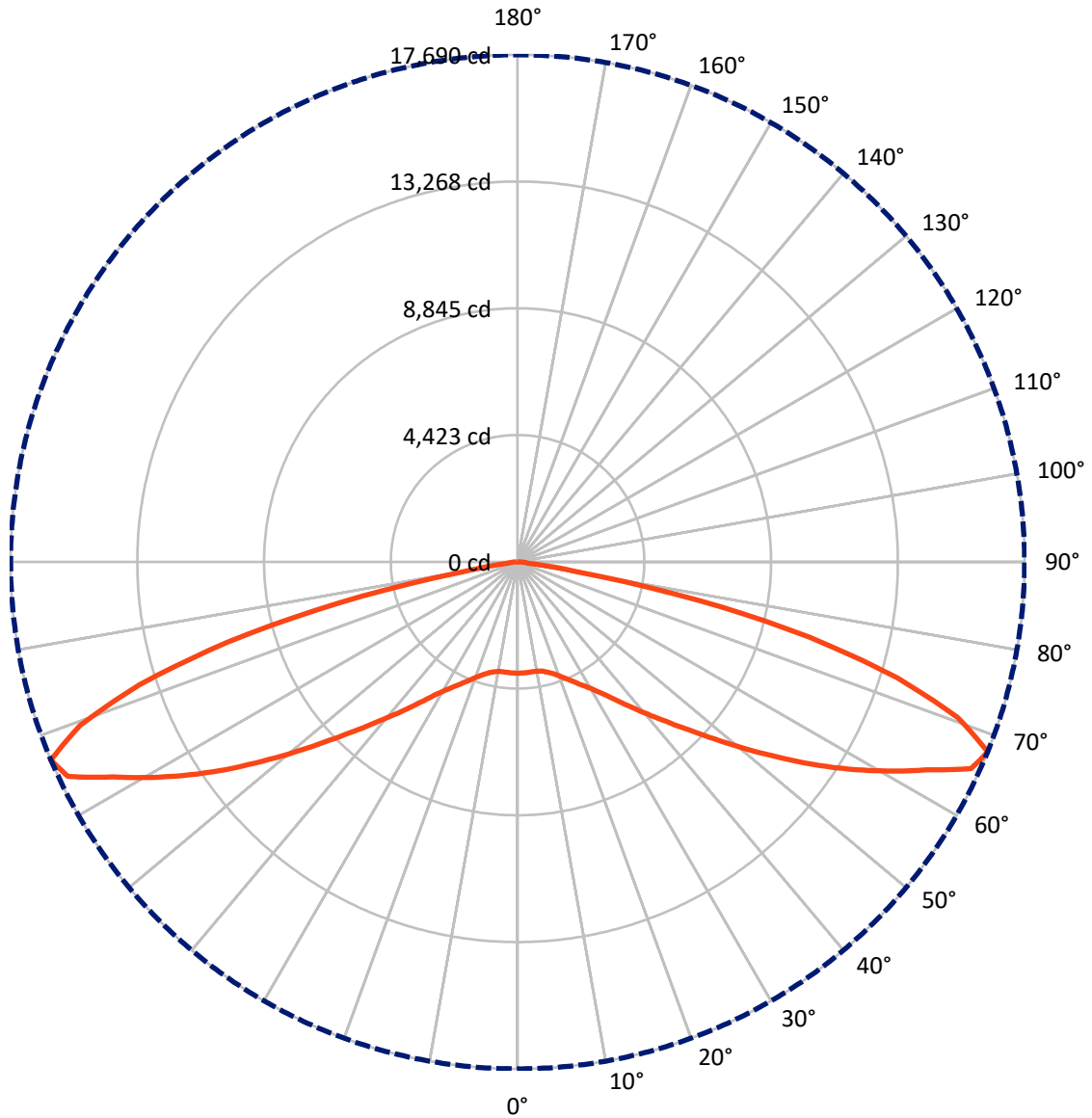
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 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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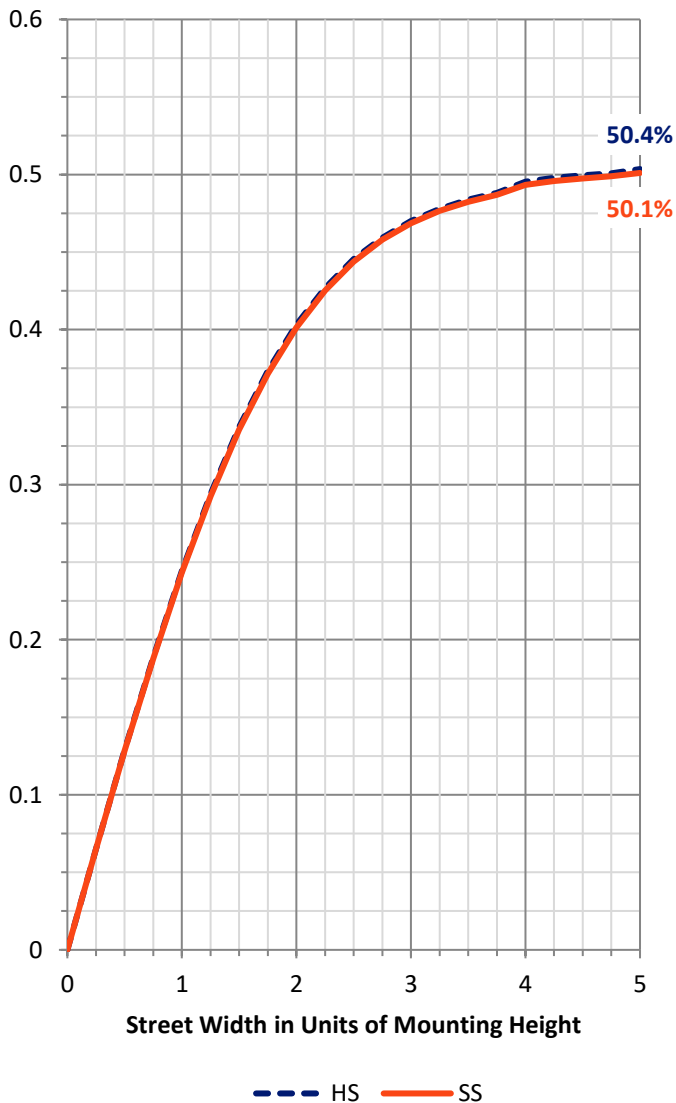
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26402.5	0.0	26402.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26402.5	0.0	26402.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	52805.1	0.0	52805.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.0	0.7
10°-20°	1146.7	2.2
20°-30°	2176.0	4.1
30°-40°	3779.4	7.2
40°-50°	6578.4	12.5
50°-60°	11238.5	21.3
60°-70°	16551.0	31.3
70°-80°	10521.2	19.9
80°-90°	443.8	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°	52805.1	100.0
0°-180°	52805.1	100.0



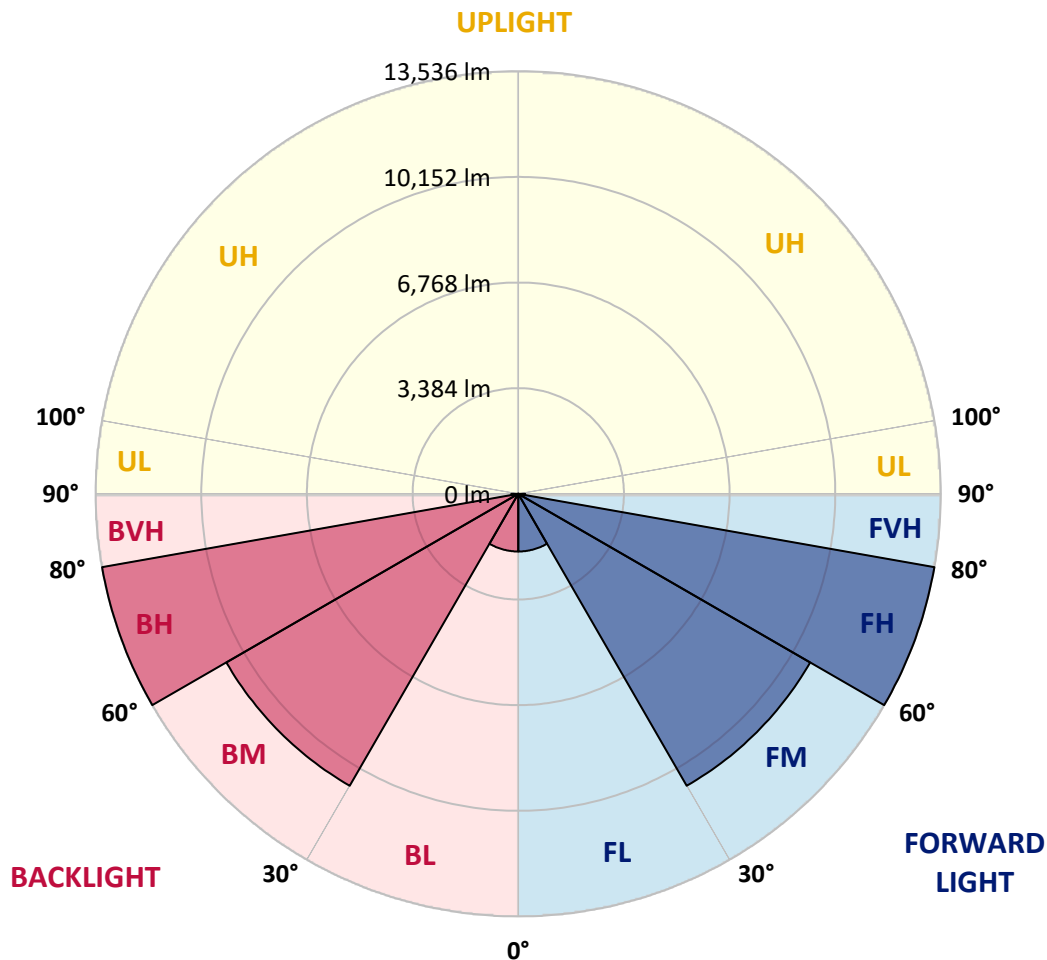
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1846.3	3.5			
FM (30°-60°)	10798.2	20.4			
FH (60°-80°)	13536.1	25.6			G5
FVH (80°-90°)	221.9	0.4			G2/225
BL (0°-30°)	1846.3	3.5	B3/2500		
BM (30°-60°)	10798.2	20.4	B5		
BH (60°-80°)	13536.1	25.6	B5		G5
BVH (80°-90°)	221.9	0.4			G2/225
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°	3884.1
2.5°	3885.1
5°	3877.4
7.5°	3871.0
10°	3877.5
12.5°	3919.2
15°	3999.5
17.5°	4112.0
20°	4264.6
22.5°	4444.8
25°	4657.2
27.5°	4887.3
30°	5158.0
32.5°	5490.6
35°	5927.3
37.5°	6430.0
40°	6988.7
42.5°	7616.6
45°	8361.7
47.5°	9221.1
50°	10216.5
52.5°	11291.5
55°	12470.9
57.5°	13648.8
60°	14820.1
62.5°	15994.8
65°	17393.4
67.5°	17690.4
70°	16298.1
72.5°	13862.3
75°	10524.7
77.5°	6434.4
80°	2042.3
82.5°	346.7
85°	195.9
87.5°	70.9
90°	0.0

(END OF REPORT)