

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: P510444

Luminaire Tested: **CST-CA10-210-750-U-T5R**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510444
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-CA10-210-750-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: 38036.9 lumens
Efficiency: N/A
Efficacy: 178.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

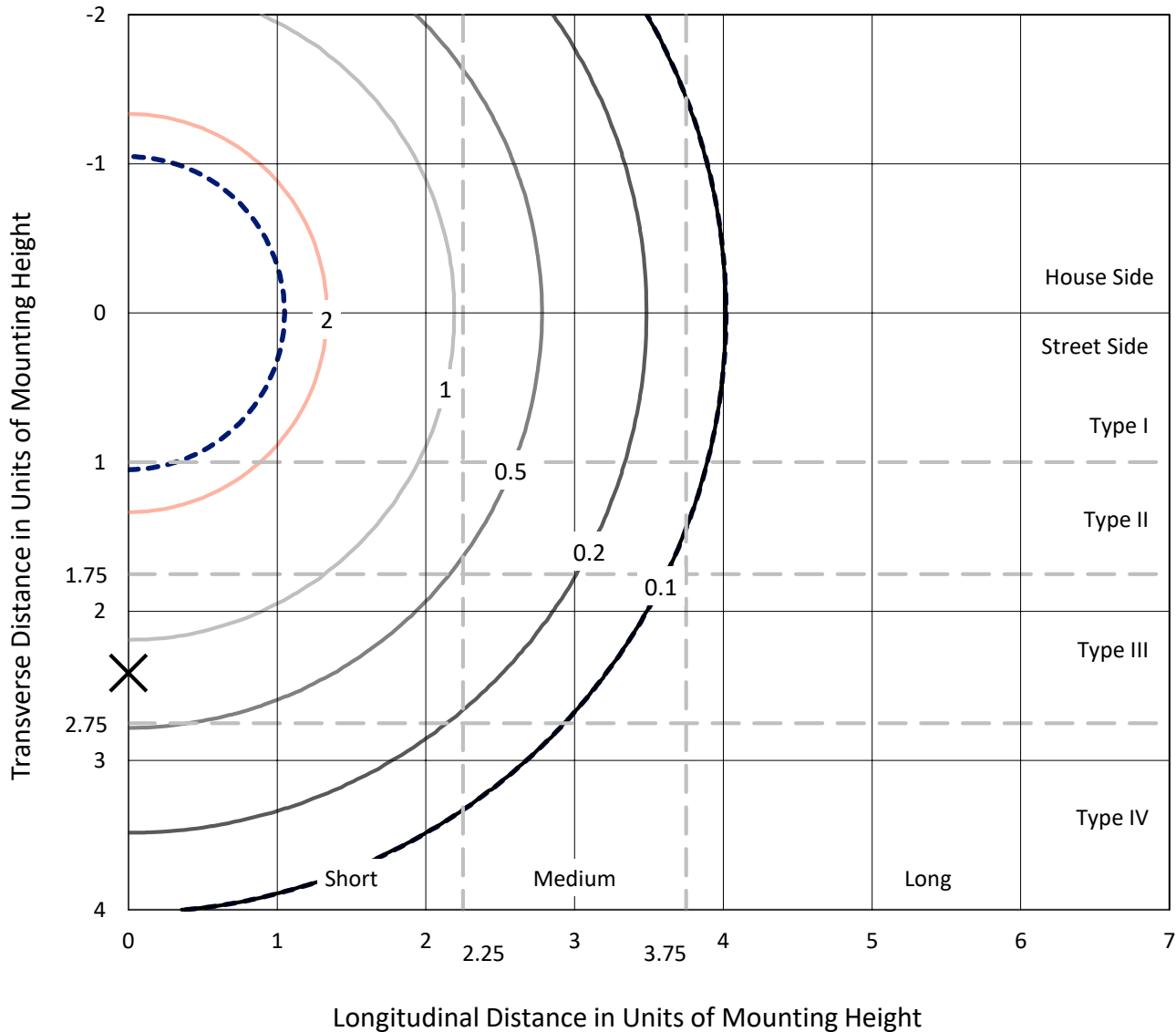
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

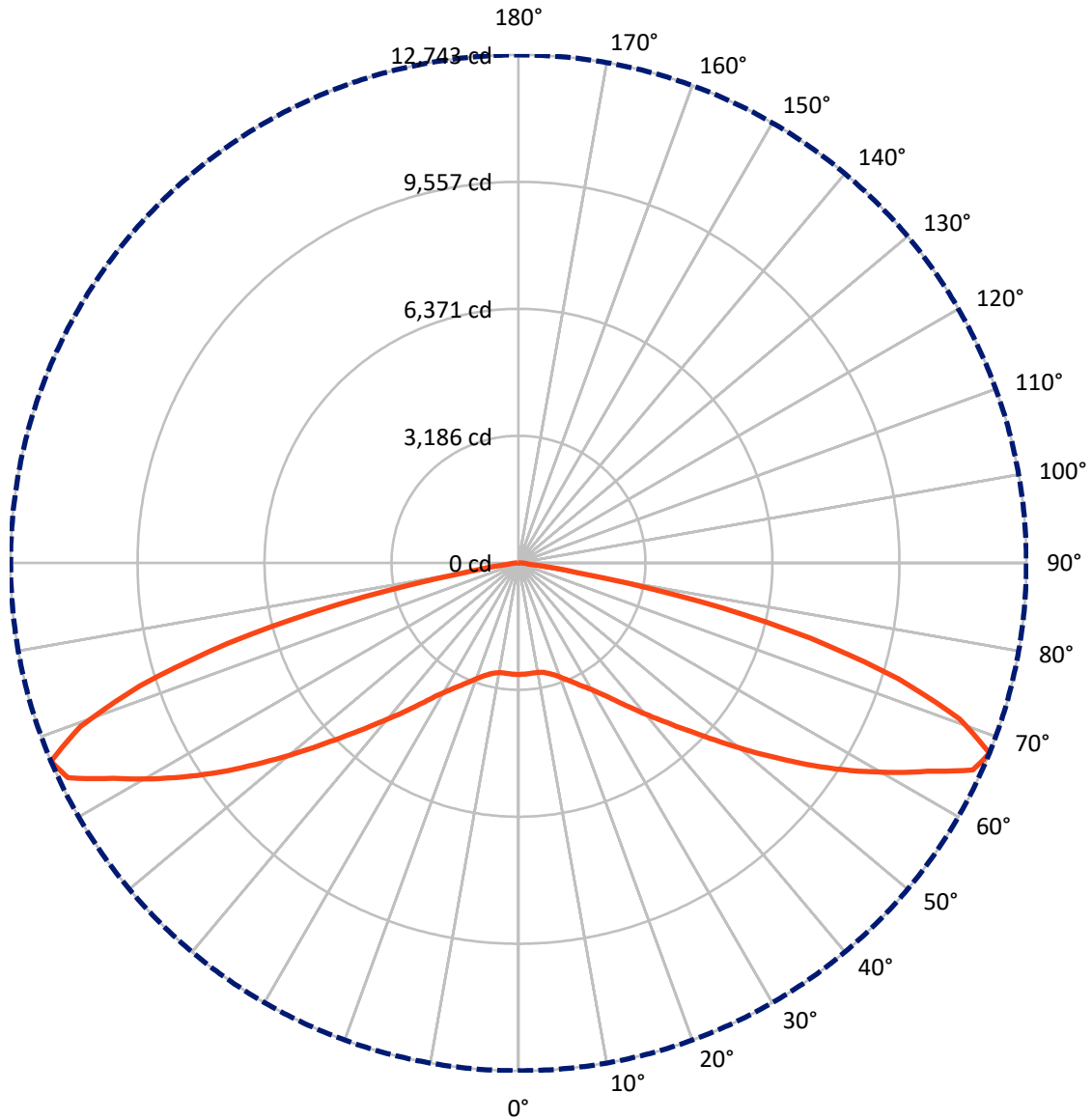
× Max cd
- - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.1 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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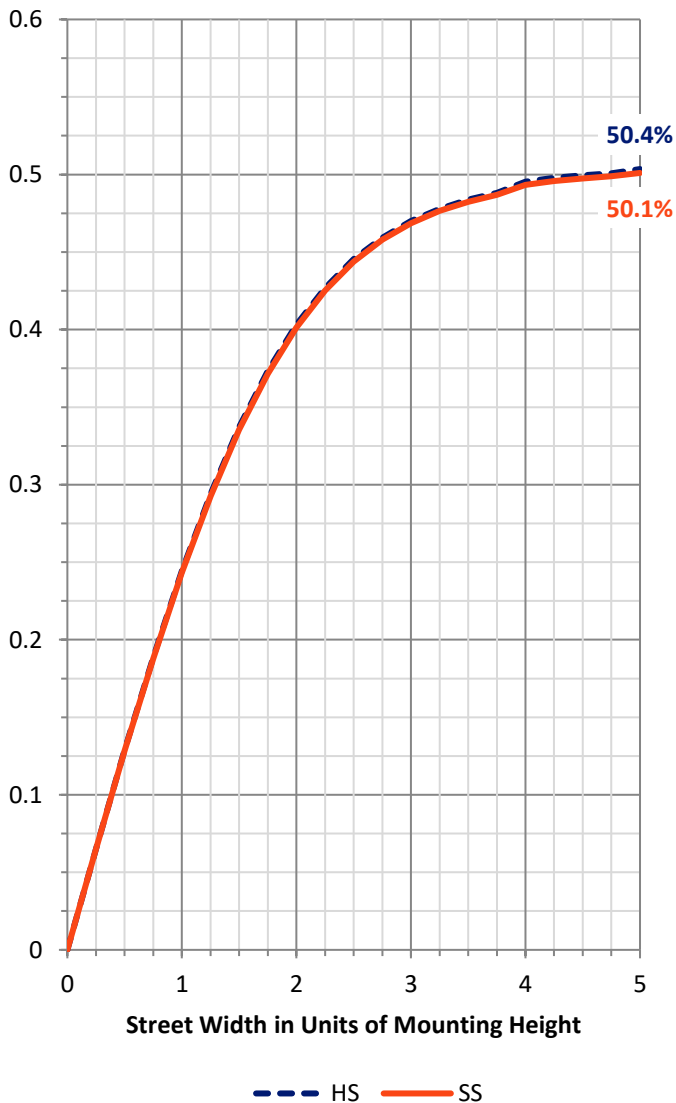
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19018.5	0.0	19018.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19018.5	0.0	19018.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38036.9	0.0	38036.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.5	0.7
10°-20°	826.0	2.2
20°-30°	1567.4	4.1
30°-40°	2722.4	7.2
40°-50°	4738.6	12.5
50°-60°	8095.4	21.3
60°-70°	11922.2	31.3
70°-80°	7578.7	19.9
80°-90°	319.7	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°	38036.9	100.0
0°-180°	38036.9	100.0



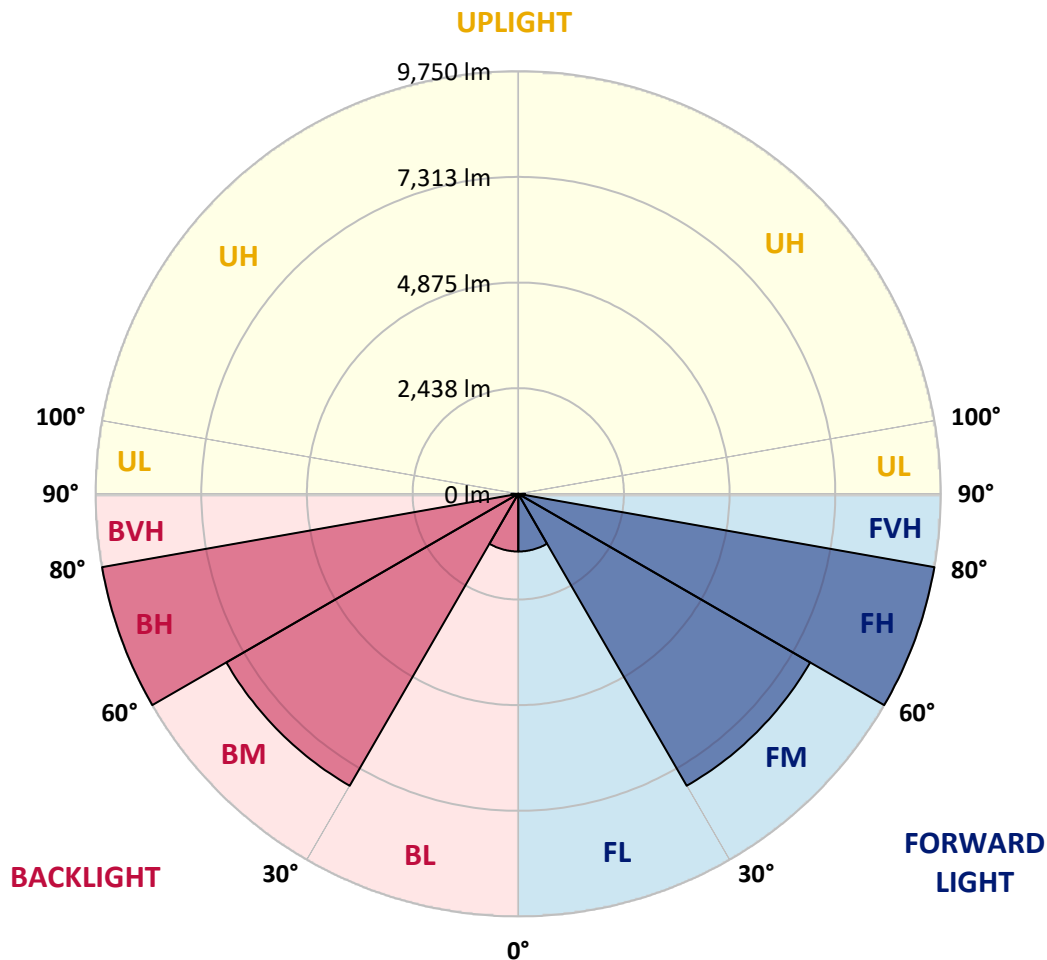
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1330.0	3.5			
FM (30°-60°)	7778.2	20.4			
FH (60°-80°)	9750.4	25.6			G4/12000
FVH (80°-90°)	159.8	0.4			G2/225
BL (0°-30°)	1330.0	3.5	B3/2500		
BM (30°-60°)	7778.2	20.4	B4/8500		
BH (60°-80°)	9750.4	25.6	B5		G4/12000
BVH (80°-90°)	159.8	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

0°	
0°	2797.8
2.5°	2798.6
5°	2793.0
7.5°	2788.4
10°	2793.1
12.5°	2823.1
15°	2881.0
17.5°	2962.0
20°	3071.9
22.5°	3201.7
25°	3354.7
27.5°	3520.5
30°	3715.4
32.5°	3955.0
35°	4269.6
37.5°	4631.7
40°	5034.2
42.5°	5486.4
45°	6023.2
47.5°	6642.2
50°	7359.2
52.5°	8133.6
55°	8983.2
57.5°	9831.6
60°	10675.3
62.5°	11521.5
65°	12528.9
67.5°	12742.9
70°	11740.0
72.5°	9985.4
75°	7581.2
77.5°	4634.9
80°	1471.1
82.5°	249.7
85°	141.1
87.5°	51.1
90°	0.0

(END OF REPORT)