

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: P510484

Luminaire Tested: **CST-CA10-310-730-U-T5R**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510484
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-CA10-310-730-U-T5R
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50915.1 lumens
Efficiency: N/A
Efficacy: 163.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

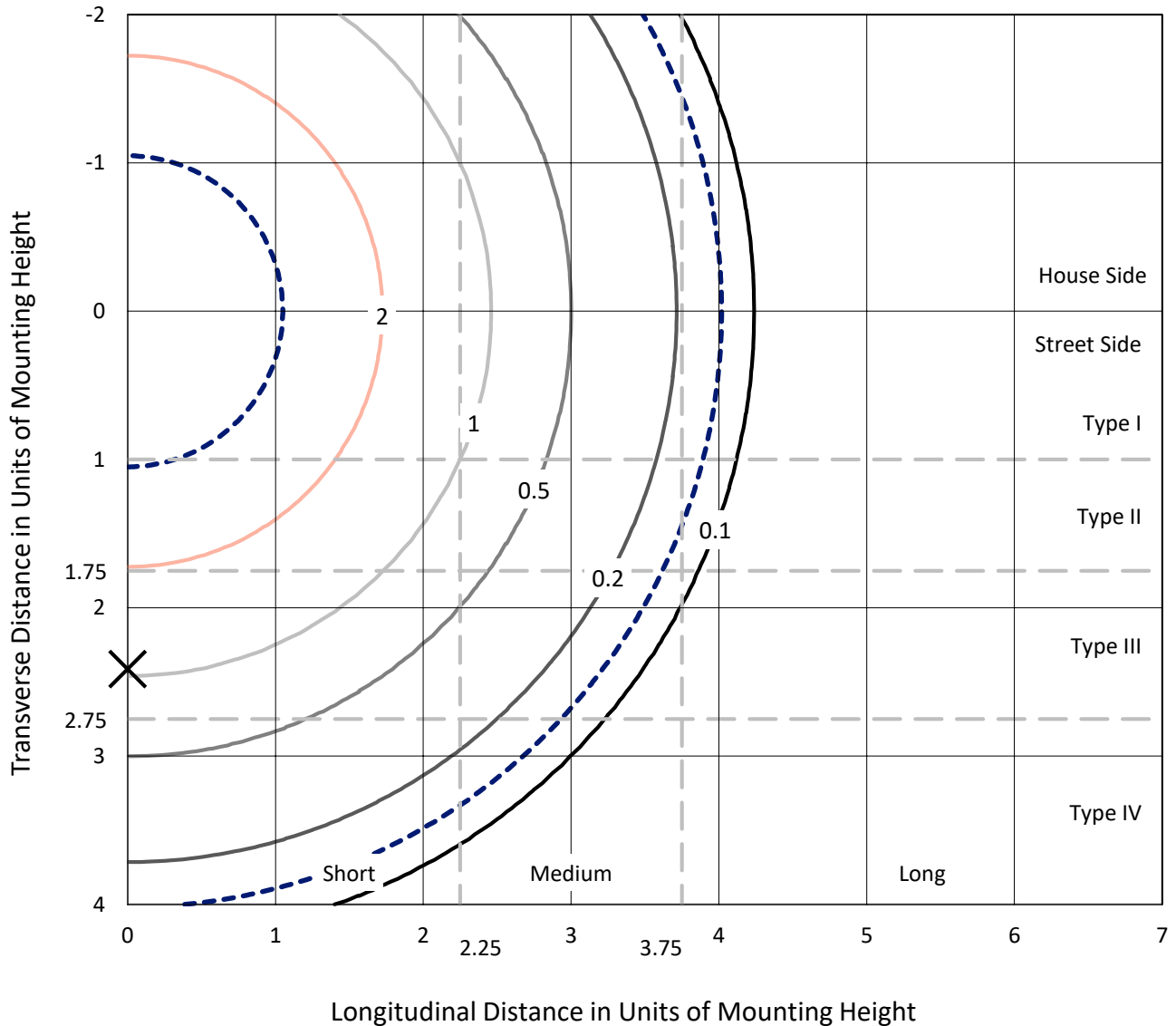
Input Watts (W): 312.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

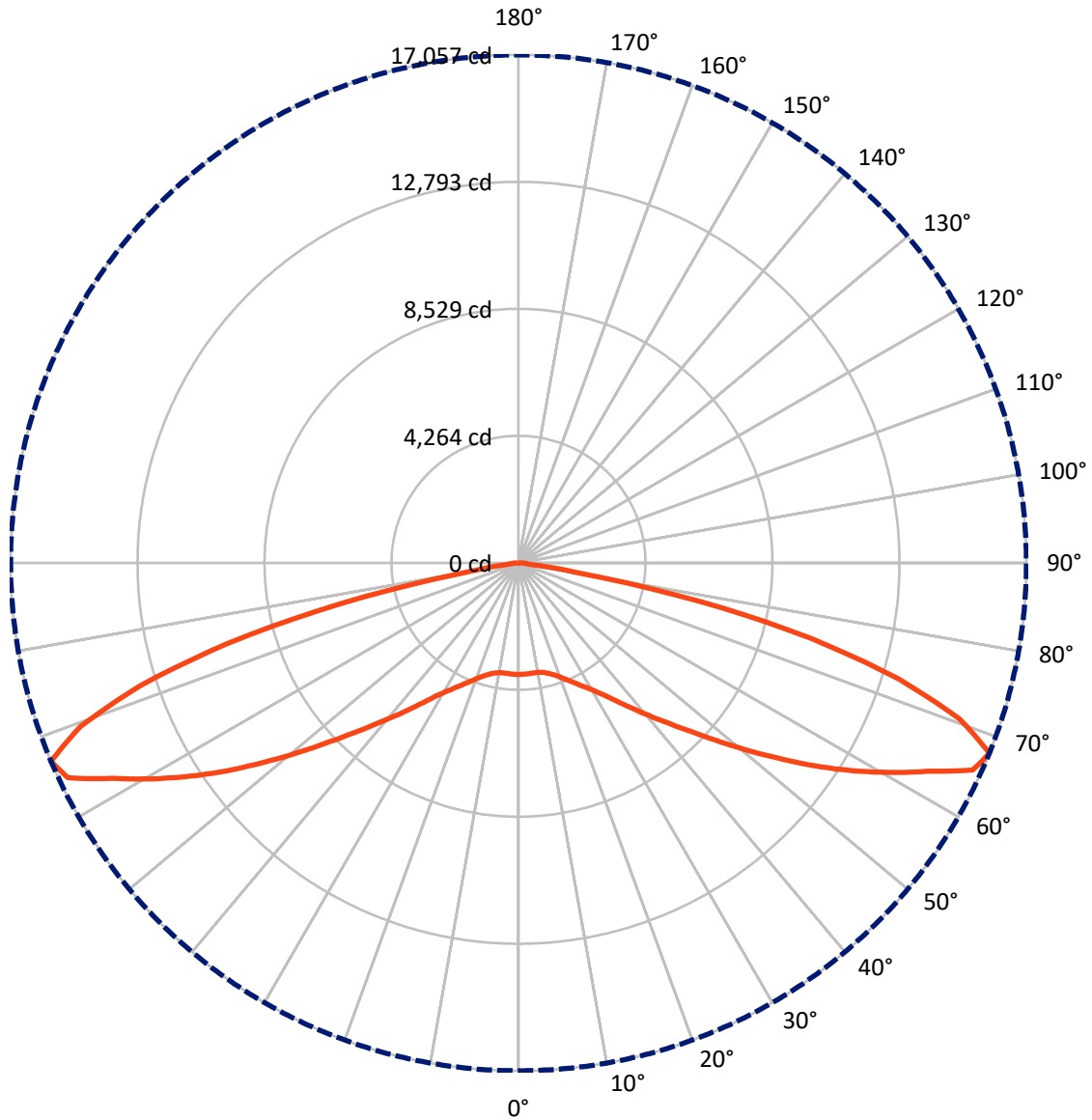
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 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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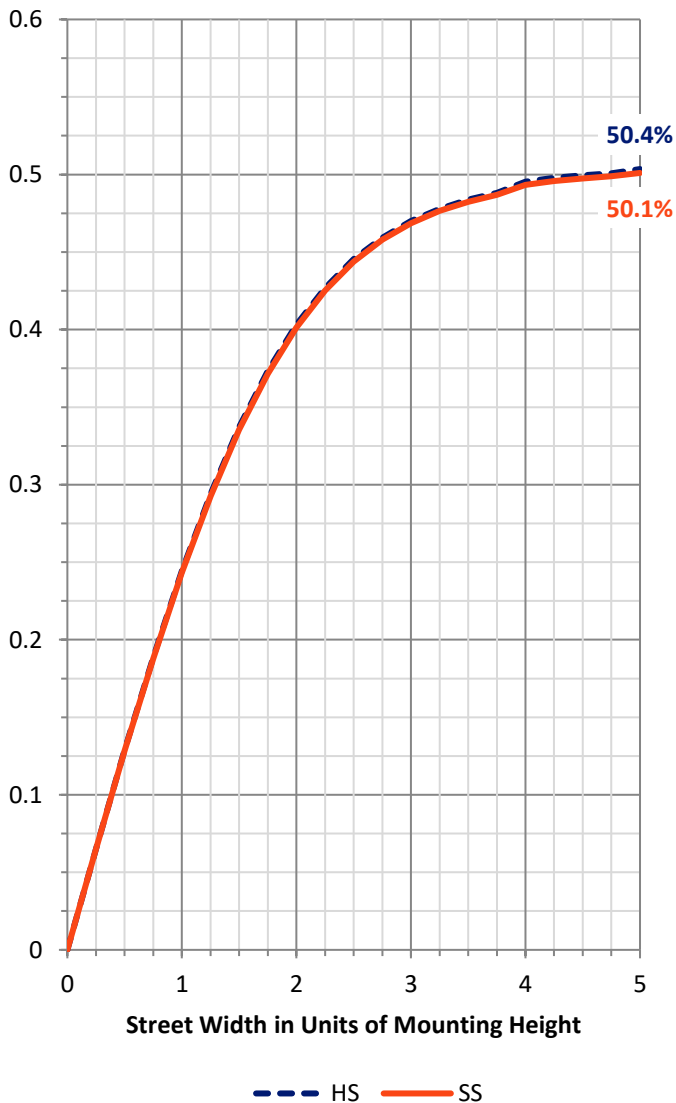
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25457.5	0.0	25457.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25457.5	0.0	25457.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	50915.1	0.0	50915.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.8	0.7
10°-20°	1105.6	2.2
20°-30°	2098.1	4.1
30°-40°	3644.2	7.2
40°-50°	6343.0	12.5
50°-60°	10836.3	21.3
60°-70°	15958.6	31.3
70°-80°	10144.6	19.9
80°-90°	427.9	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°	50915.1	100.0
0°-180°	50915.1	100.0

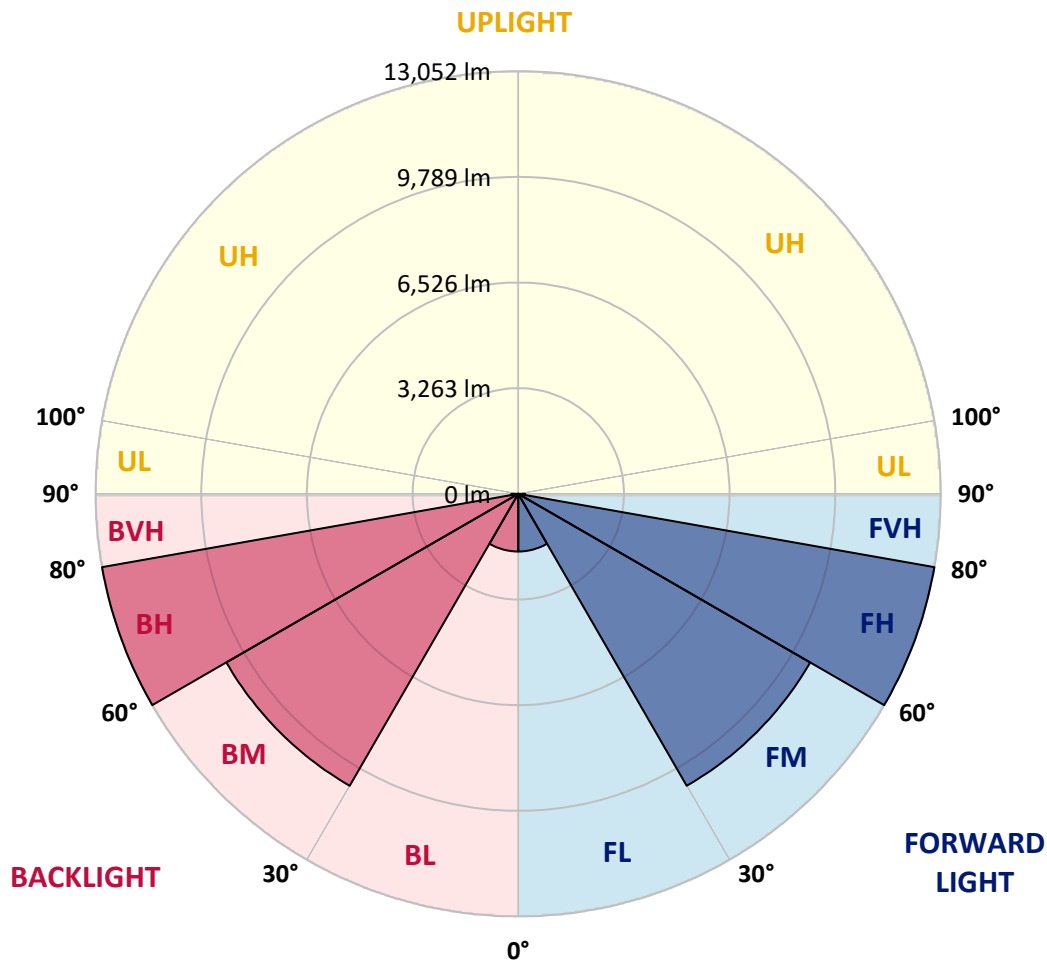


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1780.3	3.5			
FM (30°-60°)	10411.7	20.4			
FH (60°-80°)	13051.6	25.6			G5
FVH (80°-90°)	214.0	0.4			G2/225
BL (0°-30°)	1780.3	3.5	B3/2500		
BM (30°-60°)	10411.7	20.4	B5		
BH (60°-80°)	13051.6	25.6	B5		G5
BVH (80°-90°)	214.0	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°	3745.1
2.5°	3746.1
5°	3738.6
7.5°	3732.5
10°	3738.7
12.5°	3778.9
15°	3856.4
17.5°	3964.8
20°	4112.0
22.5°	4285.7
25°	4490.5
27.5°	4712.4
30°	4973.4
32.5°	5294.0
35°	5715.2
37.5°	6199.9
40°	6738.6
42.5°	7344.0
45°	8062.4
47.5°	8891.1
50°	9850.8
52.5°	10887.4
55°	12024.6
57.5°	13160.3
60°	14289.6
62.5°	15422.3
65°	16770.8
67.5°	17057.2
70°	15714.7
72.5°	13366.1
75°	10148.0
77.5°	6204.1
80°	1969.2
82.5°	334.3
85°	188.9
87.5°	68.4
90°	0.0

(END OF REPORT)