

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: P721856

Luminaire Tested: **CST-CA8-400-730-U-T5R**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-400-730-U-T5R
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63827 lumens
Efficiency: N/A
Efficacy: 159.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

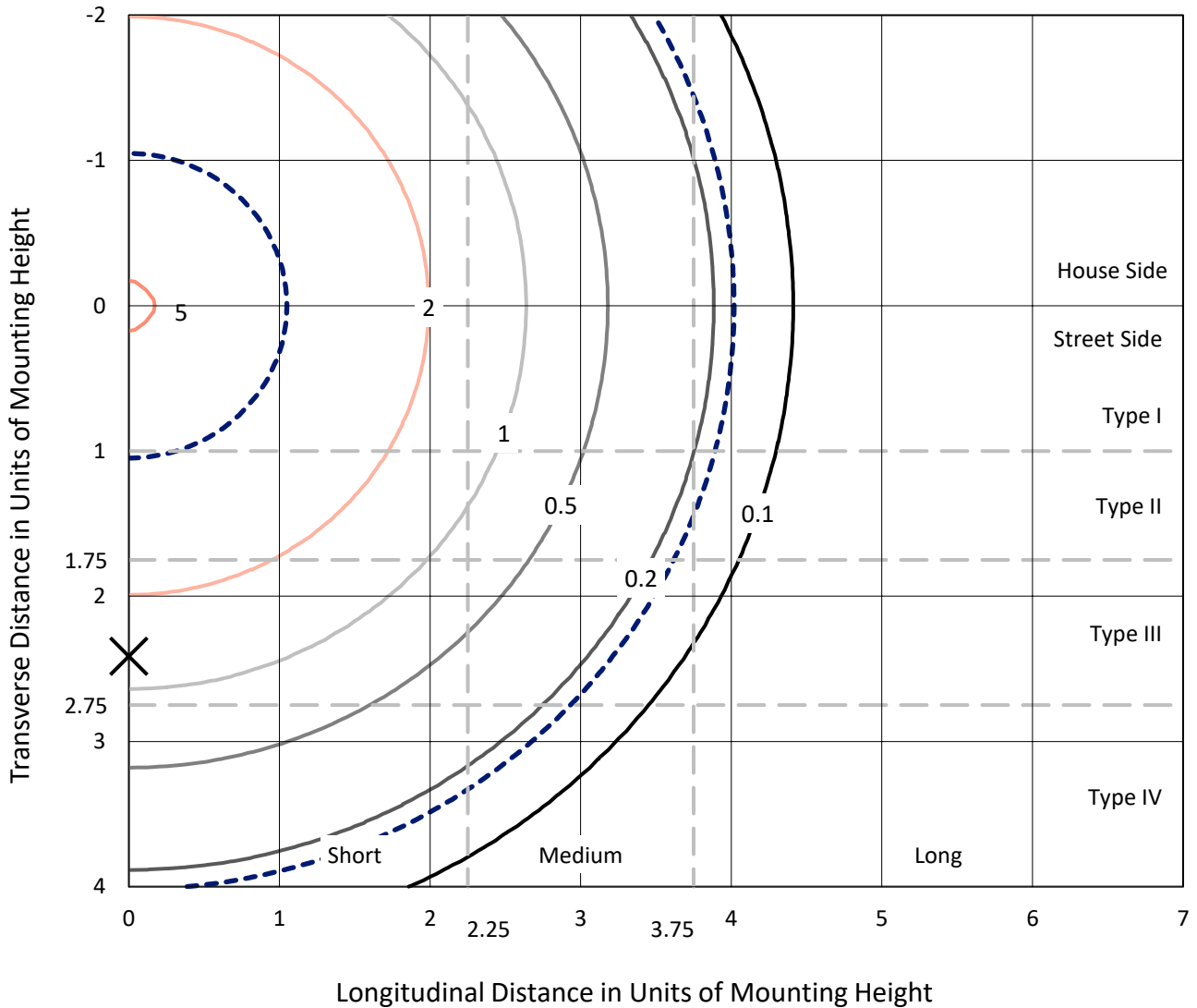
Input Watts (W): 400.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

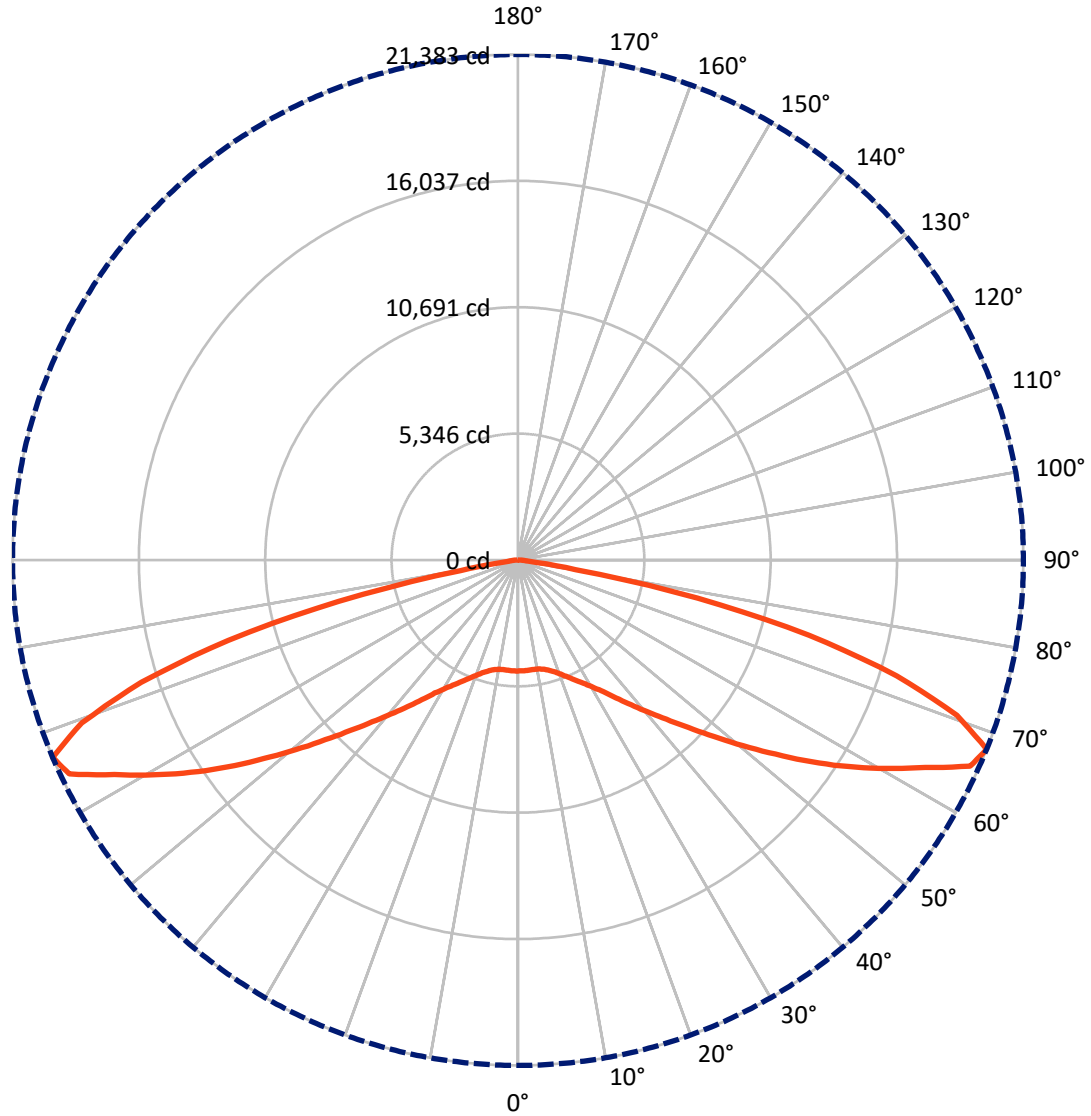
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 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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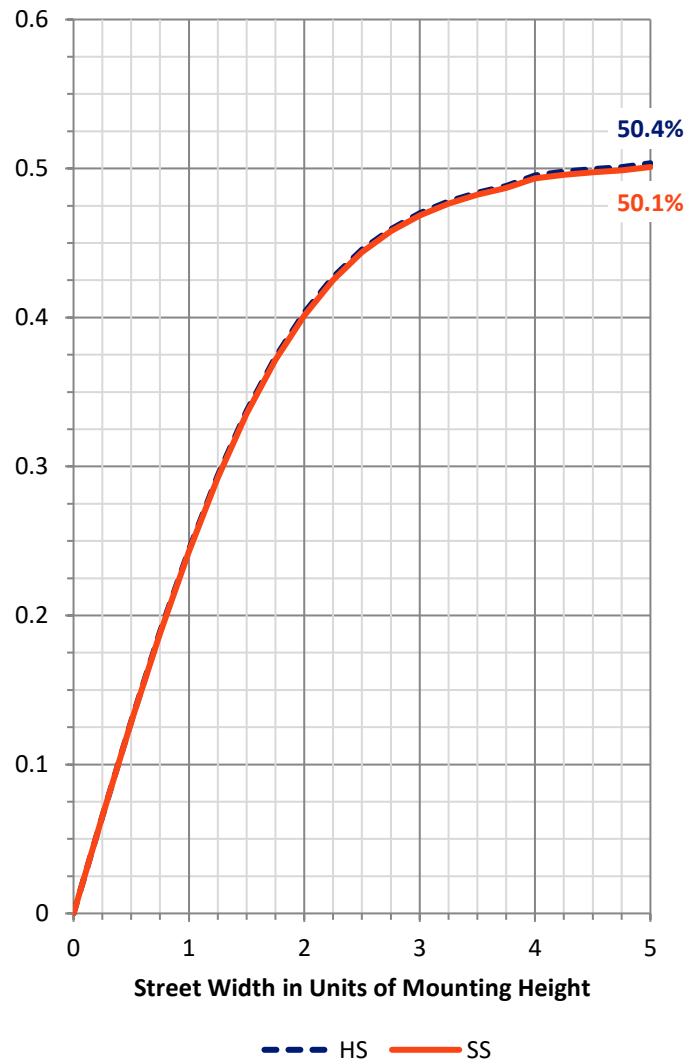
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31913.5	0.0	31913.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	31913.5	0.0	31913.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	63827.0	0.0	63827.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.2	0.7
10°-20°	1386.0	2.2
20°-30°	2630.2	4.1
30°-40°	4568.3	7.2
40°-50°	7951.5	12.5
50°-60°	13584.3	21.3
60°-70°	20005.7	31.3
70°-80°	12717.2	19.9
80°-90°	536.4	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°	63827.0	100.0
0°-180°	63827.0	100.0



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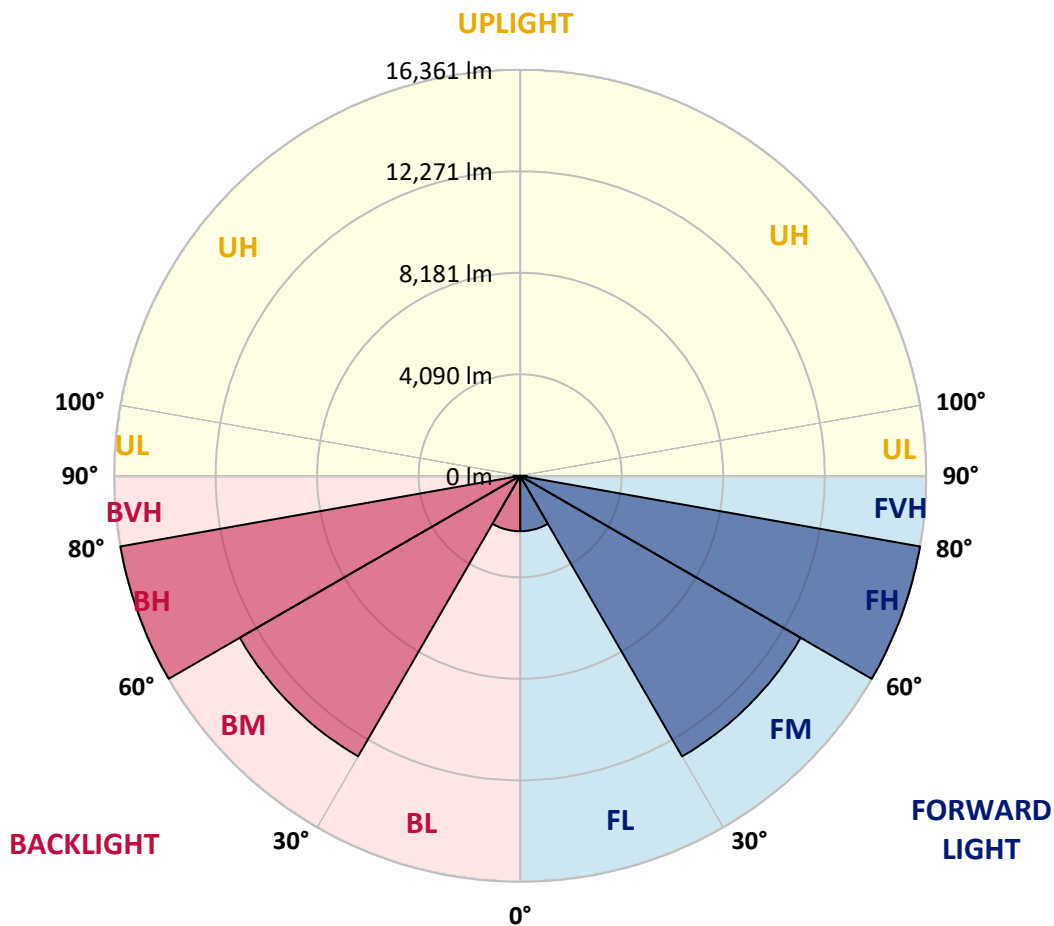
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2231.7	3.5			
FM (30°-60°)	13052.1	20.4			
FH (60°-80°)	16361.5	25.6			G5
FVH (80°-90°)	268.2	0.4			G3/500
BL (0°-30°)	2231.7	3.5	B3/2500		
BM (30°-60°)	13052.1	20.4	B5		
BH (60°-80°)	16361.5	25.6	B5		G5
BVH (80°-90°)	268.2	0.4			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°	4694.8
2.5°	4696.1
5°	4686.8
7.5°	4679.0
10°	4686.9
12.5°	4737.2
15°	4834.4
17.5°	4970.3
20°	5154.8
22.5°	5372.6
25°	5629.3
27.5°	5907.5
30°	6234.6
32.5°	6636.6
35°	7164.5
37.5°	7772.2
40°	8447.5
42.5°	9206.4
45°	10107.1
47.5°	11145.8
50°	12348.9
52.5°	13648.4
55°	15074.0
57.5°	16497.7
60°	17913.4
62.5°	19333.4
65°	21023.9
67.5°	21382.9
70°	19699.9
72.5°	16755.7
75°	12721.5
77.5°	7777.5
80°	2468.6
82.5°	419.1
85°	236.8
87.5°	85.7
90°	0.0

(END OF REPORT)