

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: P721876

Luminaire Tested: **CST-CA8-400-750-U-T5R**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721876
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-CA8-400-750-U-T5R
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66196 lumens
Efficiency: N/A
Efficacy: 165.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

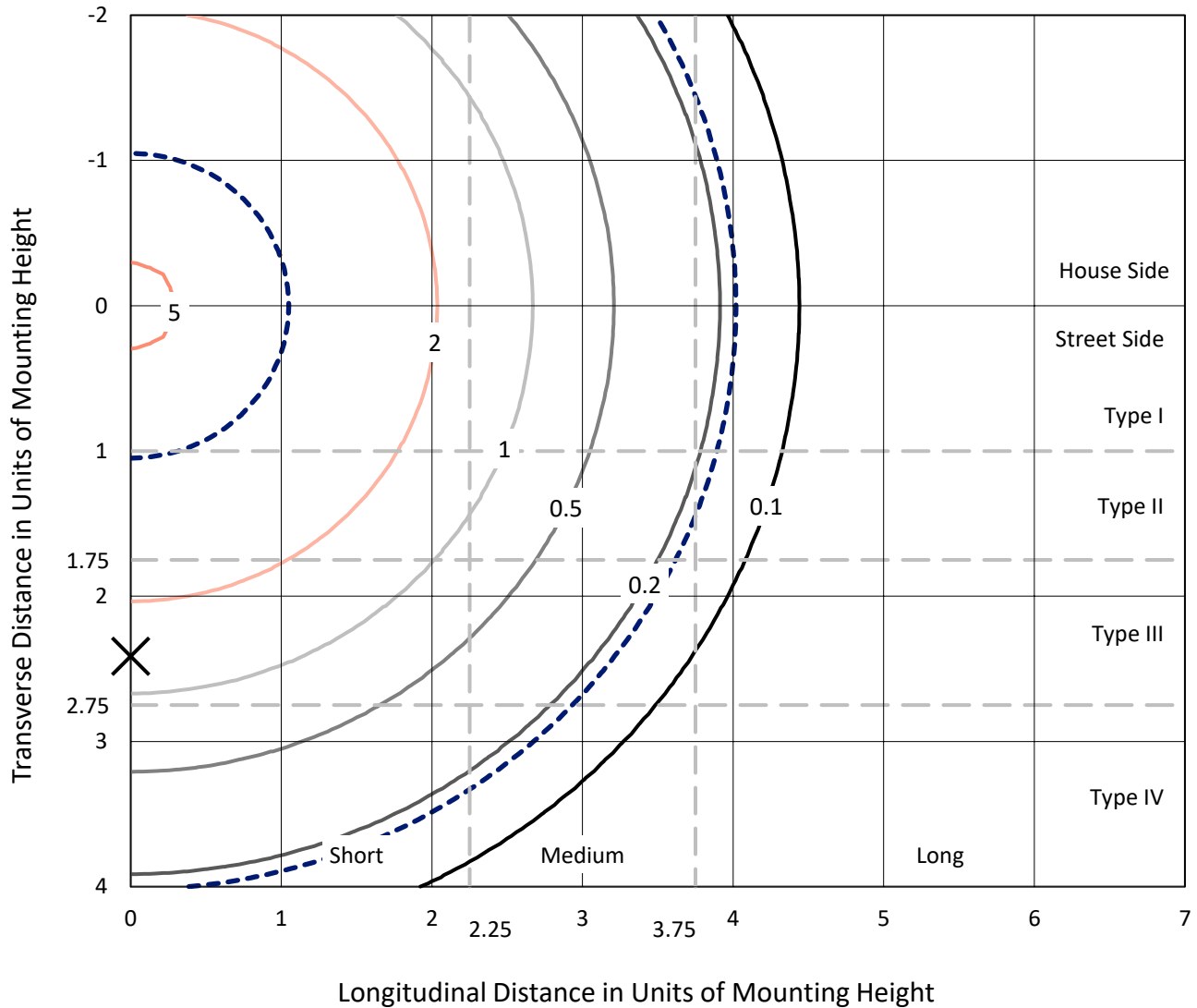
Input Watts (W): 400.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

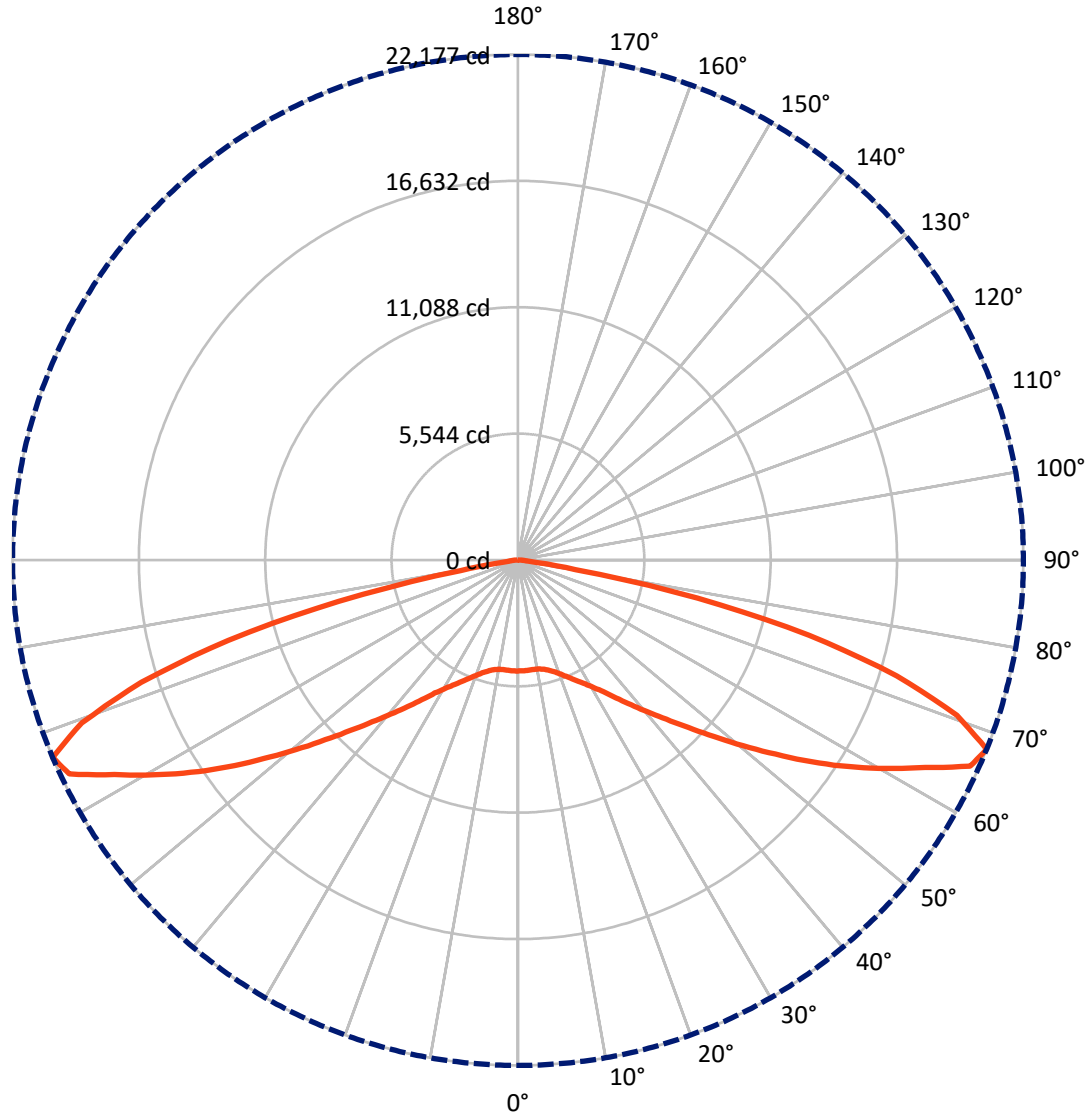
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

REPORT NUMBER: P721876
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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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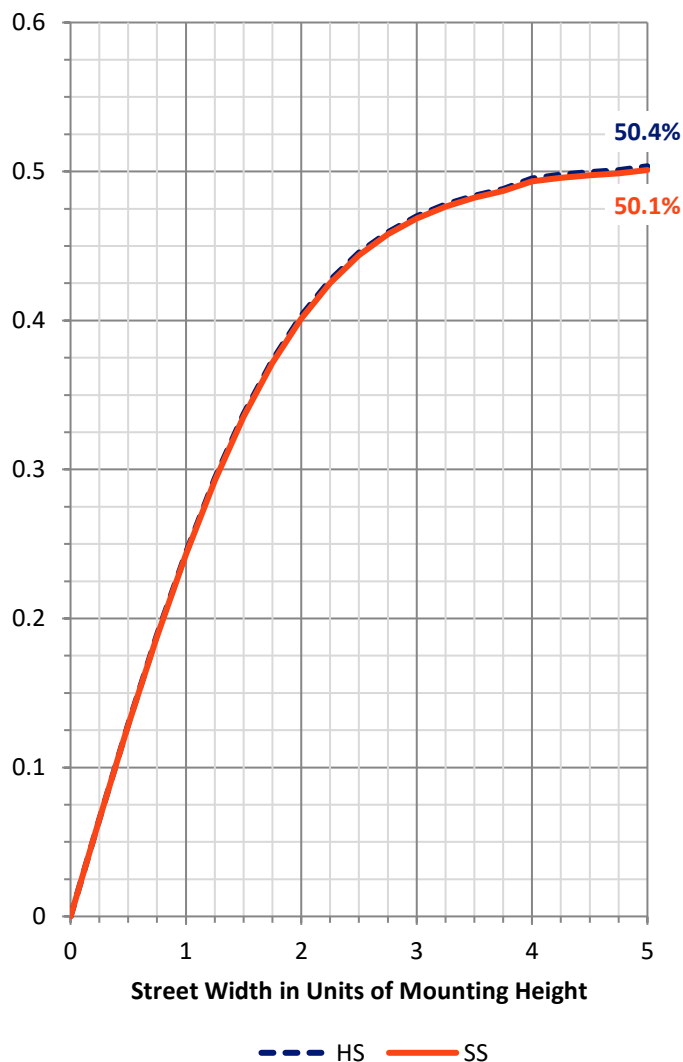
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33098.0	0.0	33098.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33098.0	0.0	33098.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	66196.0	0.0	66196.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.8	0.7
10°-20°	1437.4	2.2
20°-30°	2727.8	4.1
30°-40°	4737.9	7.2
40°-50°	8246.7	12.5
50°-60°	14088.5	21.3
60°-70°	20748.2	31.3
70°-80°	13189.2	19.9
80°-90°	556.3	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°	66196.0	100.0
0°-180°	66196.0	100.0

Coefficient of Utilization



REPORT NUMBER: P721876

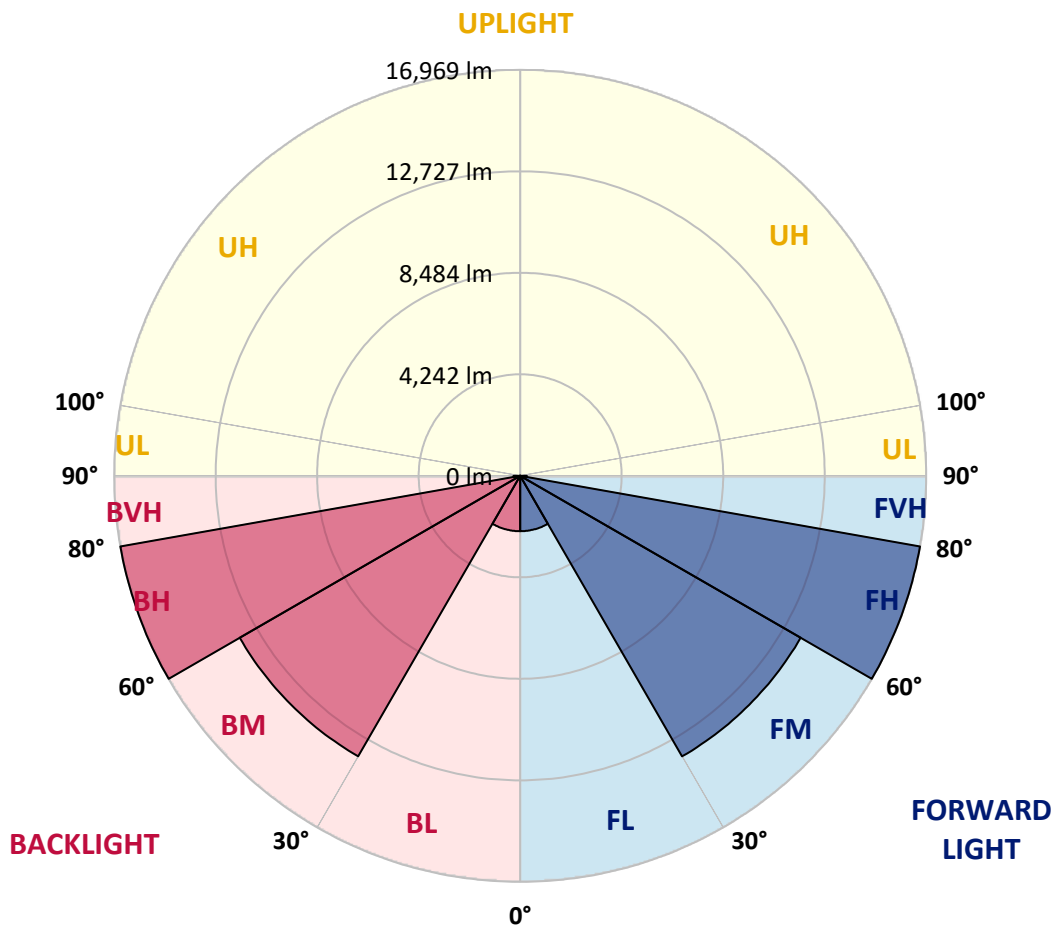
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2314.6	3.5			
FM (30°-60°)	13536.5	20.4			
FH (60°-80°)	16968.7	25.6			G5
FVH (80°-90°)	278.2	0.4			G3/500
BL (0°-30°)	2314.6	3.5	B3/2500		
BM (30°-60°)	13536.5	20.4	B5		
BH (60°-80°)	16968.7	25.6	B5		G5
BVH (80°-90°)	278.2	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°	4869.1
2.5°	4870.4
5°	4860.7
7.5°	4852.7
10°	4860.8
12.5°	4913.1
15°	5013.8
17.5°	5154.7
20°	5346.1
22.5°	5572.0
25°	5838.2
27.5°	6126.7
30°	6466.0
32.5°	6882.9
35°	7430.4
37.5°	8060.6
40°	8761.0
42.5°	9548.1
45°	10482.2
47.5°	11559.5
50°	12807.3
52.5°	14155.0
55°	15633.5
57.5°	17110.0
60°	18578.3
62.5°	20051.0
65°	21804.2
67.5°	22176.6
70°	20431.1
72.5°	17377.6
75°	13193.7
77.5°	8066.1
80°	2560.2
82.5°	434.6
85°	245.6
87.5°	88.9
90°	0.0

(END OF REPORT)