

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: P721886

Luminaire Tested: **CST-CA8-400-760-U-T5R**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721886
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-CA8-400-760-U-T5R
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64793 lumens
Efficiency: N/A
Efficacy: 161.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

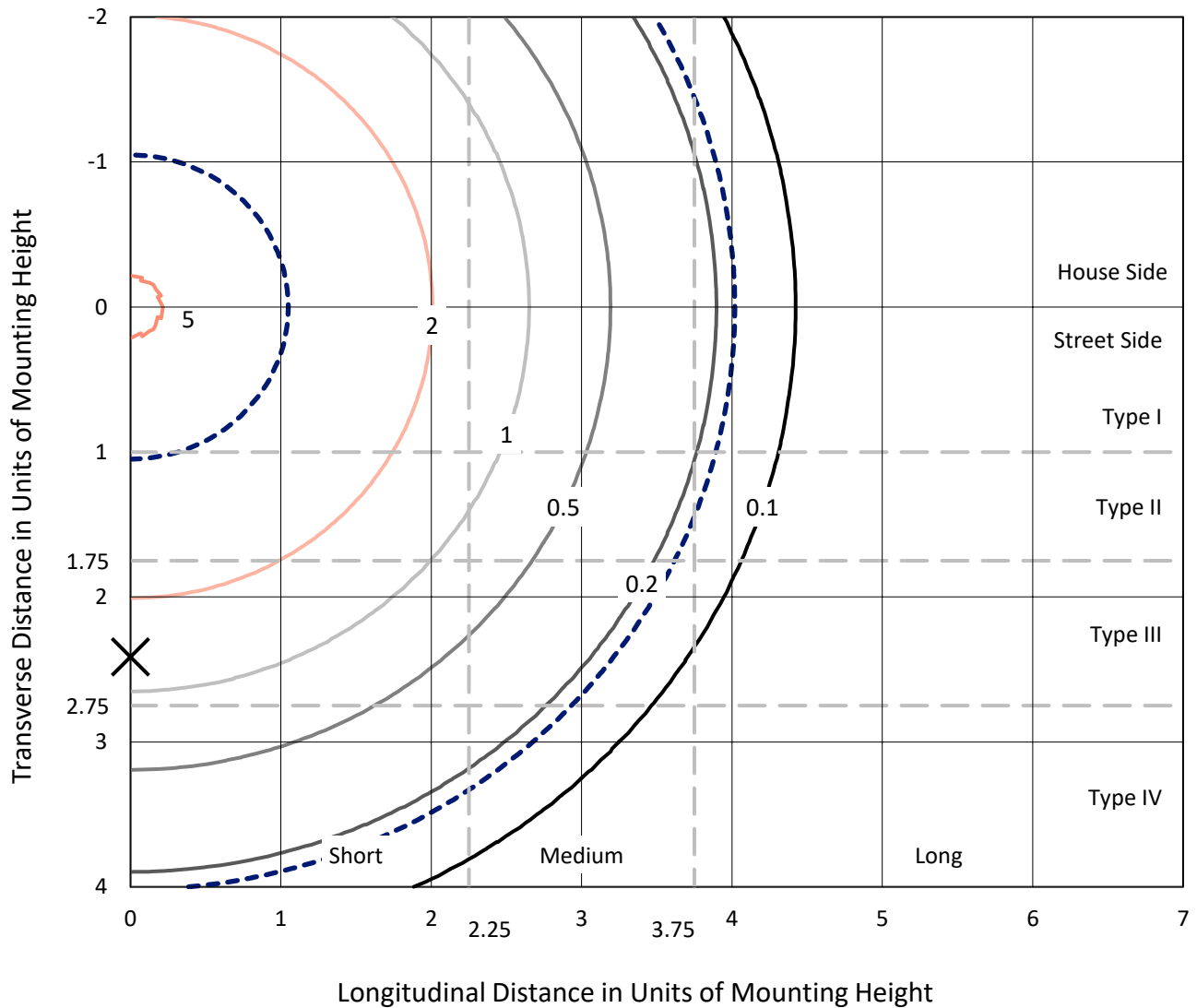
Input Watts (W): 400.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

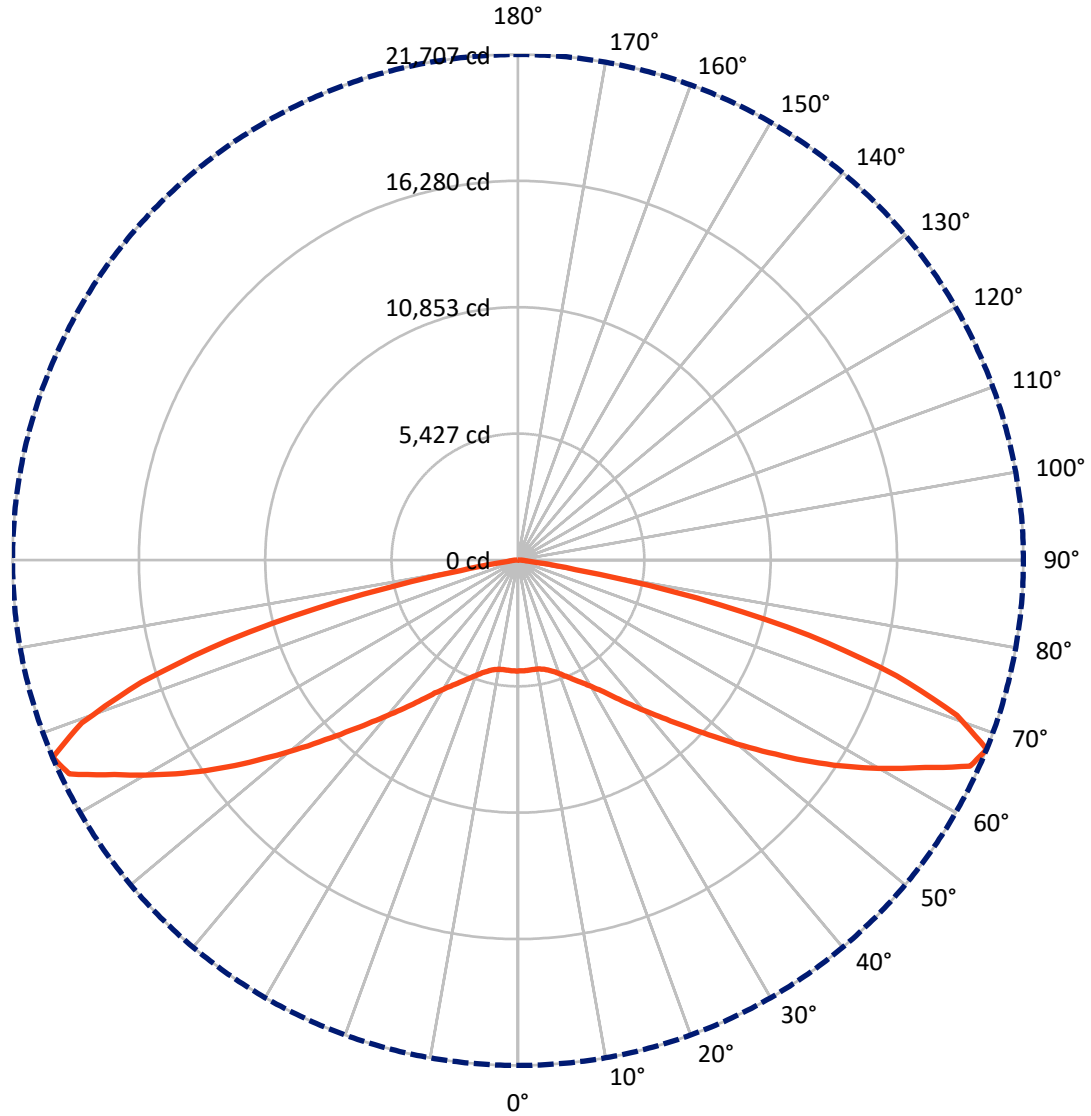
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 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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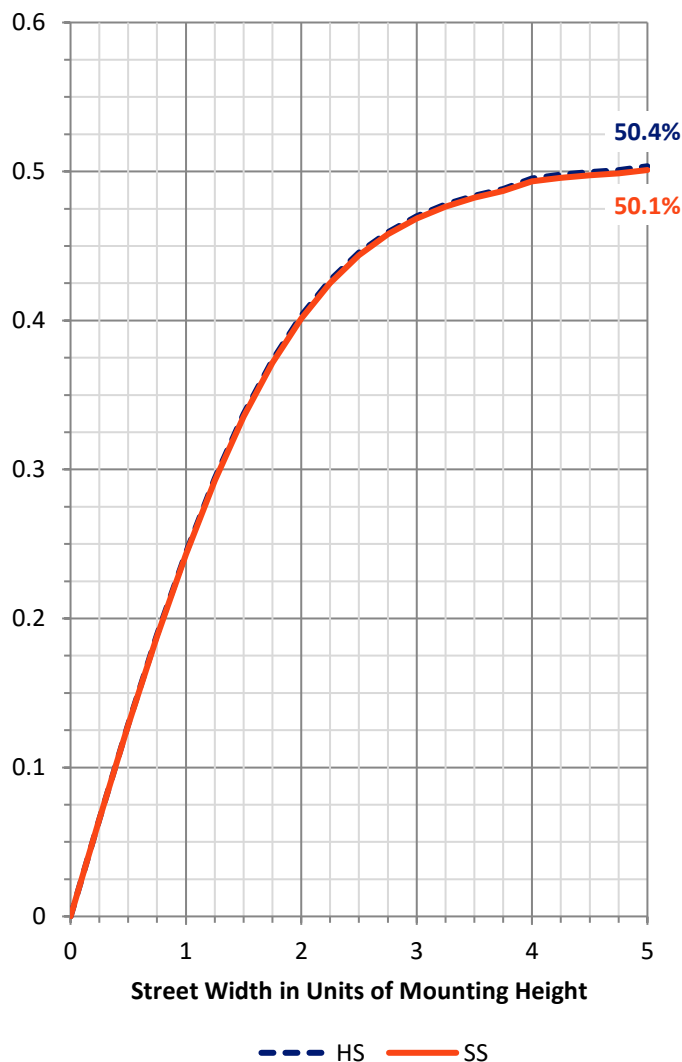
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32396.5	0.0	32396.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	32396.5	0.0	32396.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	64793.0	0.0	64793.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.0	0.7
10°-20°	1407.0	2.2
20°-30°	2670.0	4.1
30°-40°	4637.5	7.2
40°-50°	8071.9	12.5
50°-60°	13789.9	21.3
60°-70°	20308.5	31.3
70°-80°	12909.7	19.9
80°-90°	544.5	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°	64793.0	100.0
0°-180°	64793.0	100.0



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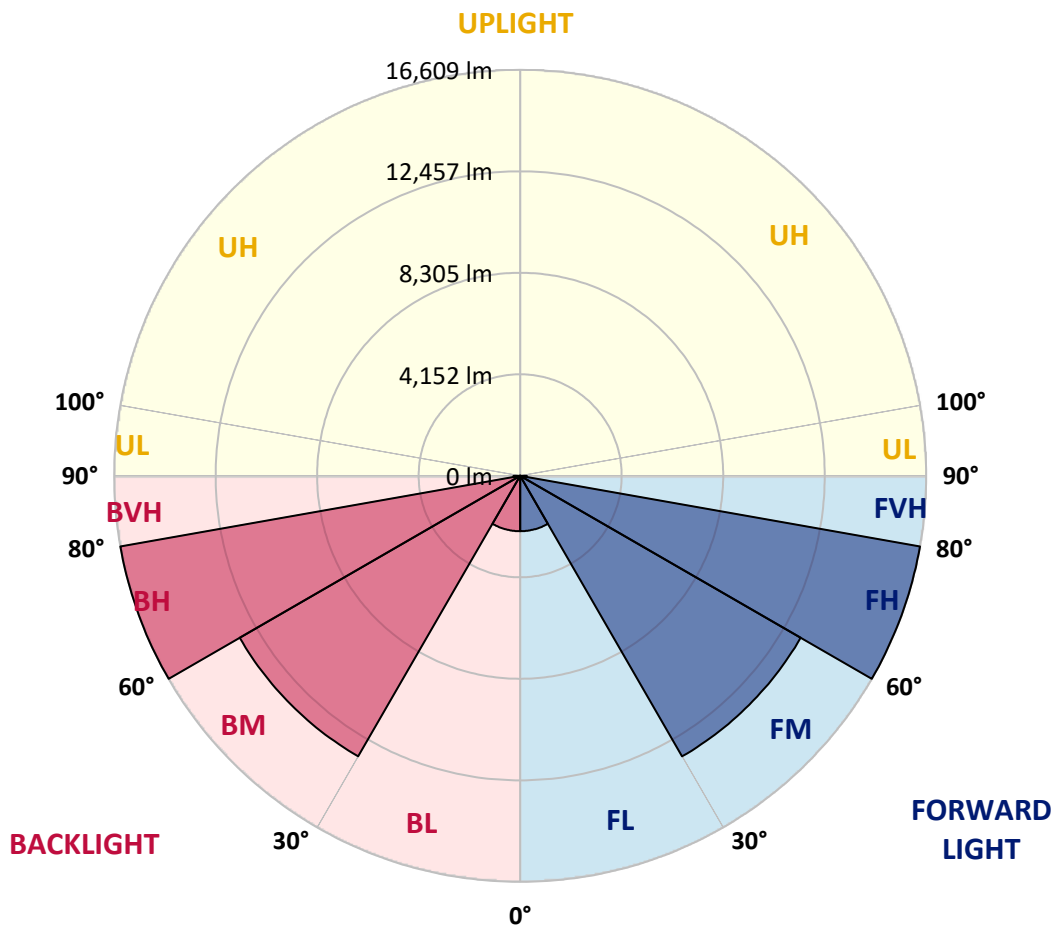
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2265.5	3.5			
FM (30°-60°)	13249.6	20.4			
FH (60°-80°)	16609.1	25.6			G5
FVH (80°-90°)	272.3	0.4			G3/500
BL (0°-30°)	2265.5	3.5	B3/2500		
BM (30°-60°)	13249.6	20.4	B5		
BH (60°-80°)	16609.1	25.6	B5		G5
BVH (80°-90°)	272.3	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°	4765.9
2.5°	4767.1
5°	4757.7
7.5°	4749.8
10°	4757.8
12.5°	4808.9
15°	4907.5
17.5°	5045.5
20°	5232.8
22.5°	5453.9
25°	5714.5
27.5°	5996.9
30°	6329.0
32.5°	6737.0
35°	7272.9
37.5°	7889.8
40°	8575.3
42.5°	9345.7
45°	10260.0
47.5°	11314.5
50°	12535.8
52.5°	13855.0
55°	15302.1
57.5°	16747.4
60°	18184.6
62.5°	19626.0
65°	21342.1
67.5°	21706.5
70°	19998.1
72.5°	17009.3
75°	12914.0
77.5°	7895.2
80°	2505.9
82.5°	425.4
85°	240.4
87.5°	87.0
90°	0.0

(END OF REPORT)