

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: P721936

Luminaire Tested: **CST-CA8-430-750-U-T5R**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721936
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-CA8-430-750-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: 71070 lumens
Efficiency: N/A
Efficacy: 163.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

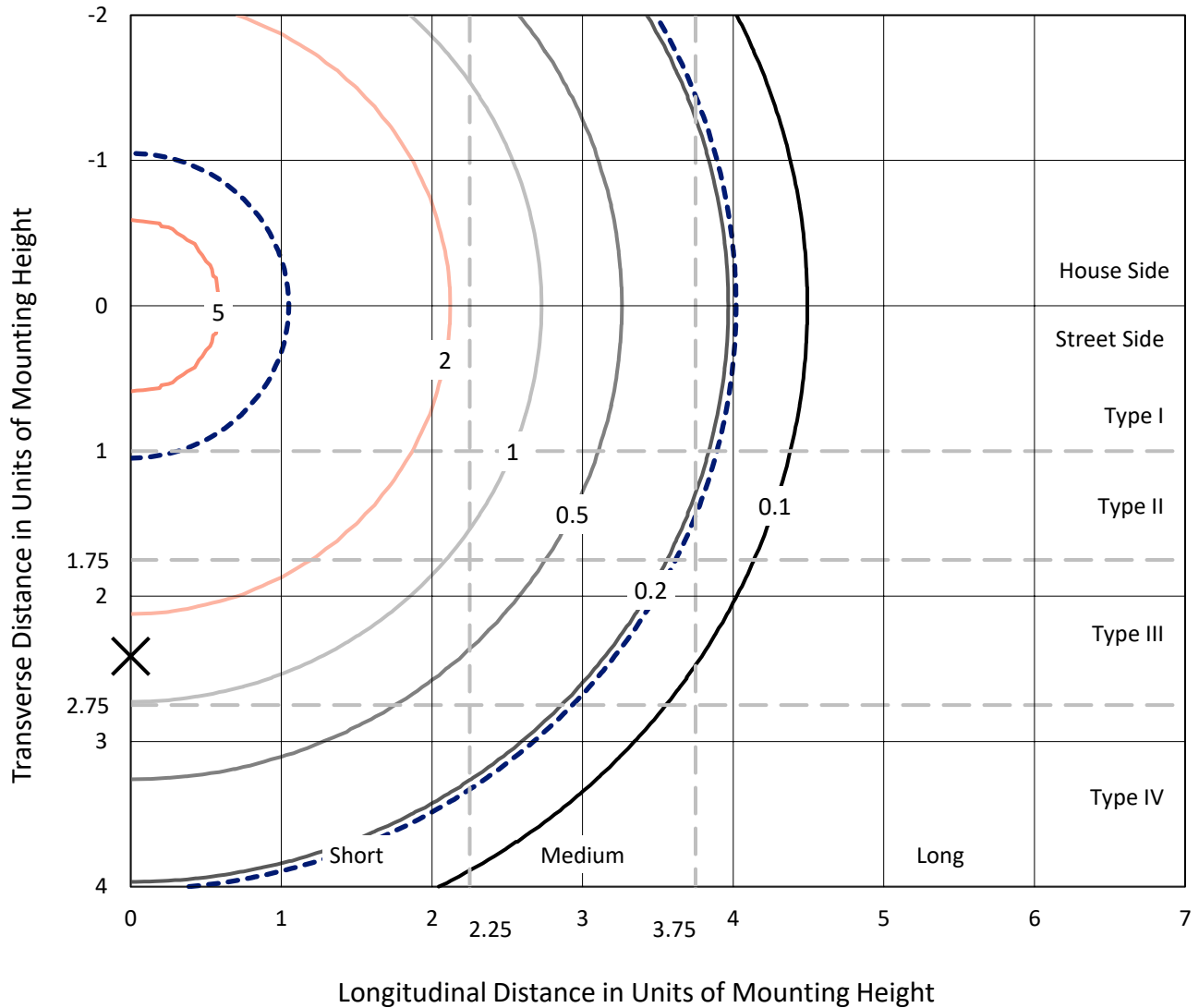
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

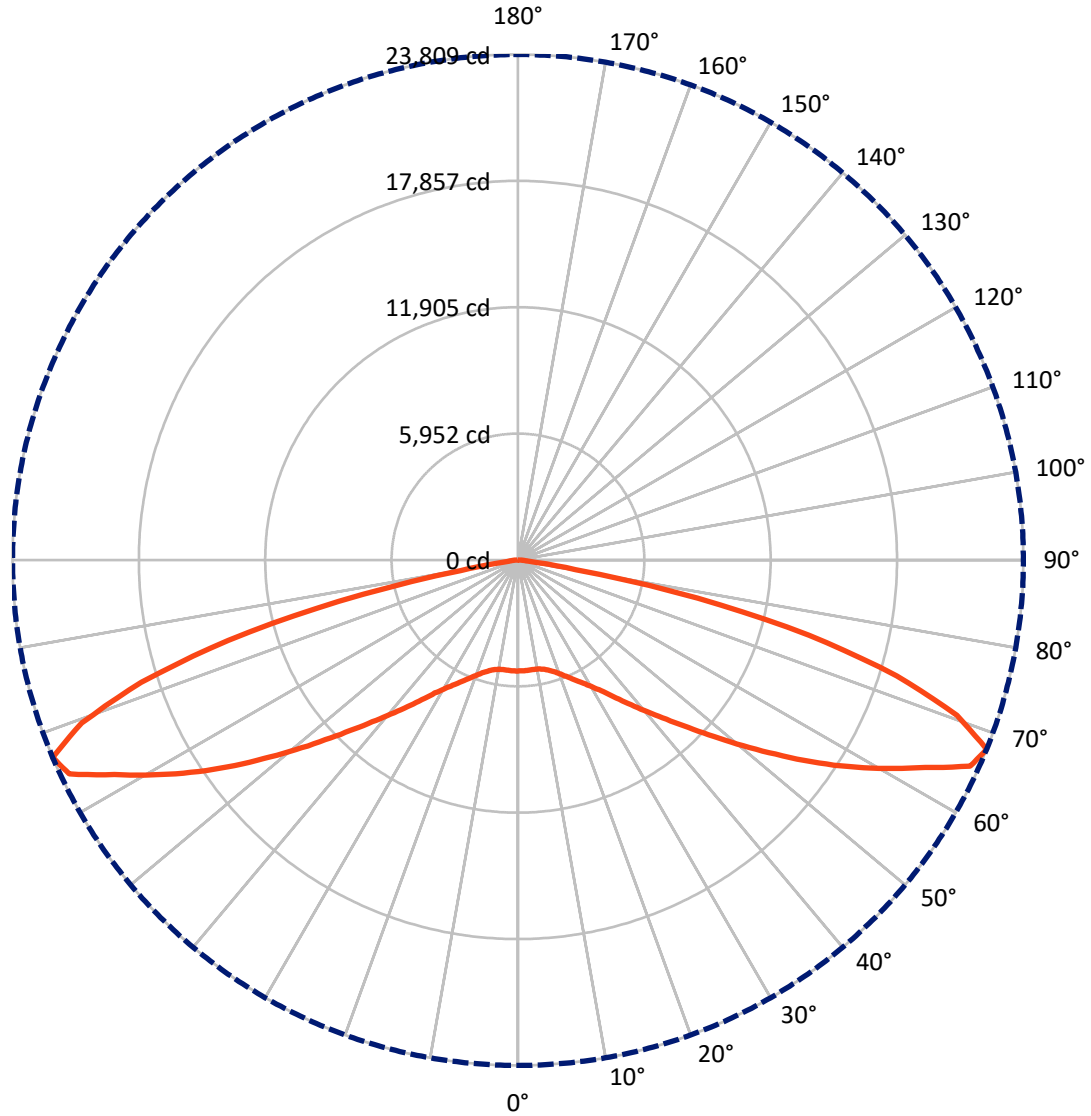
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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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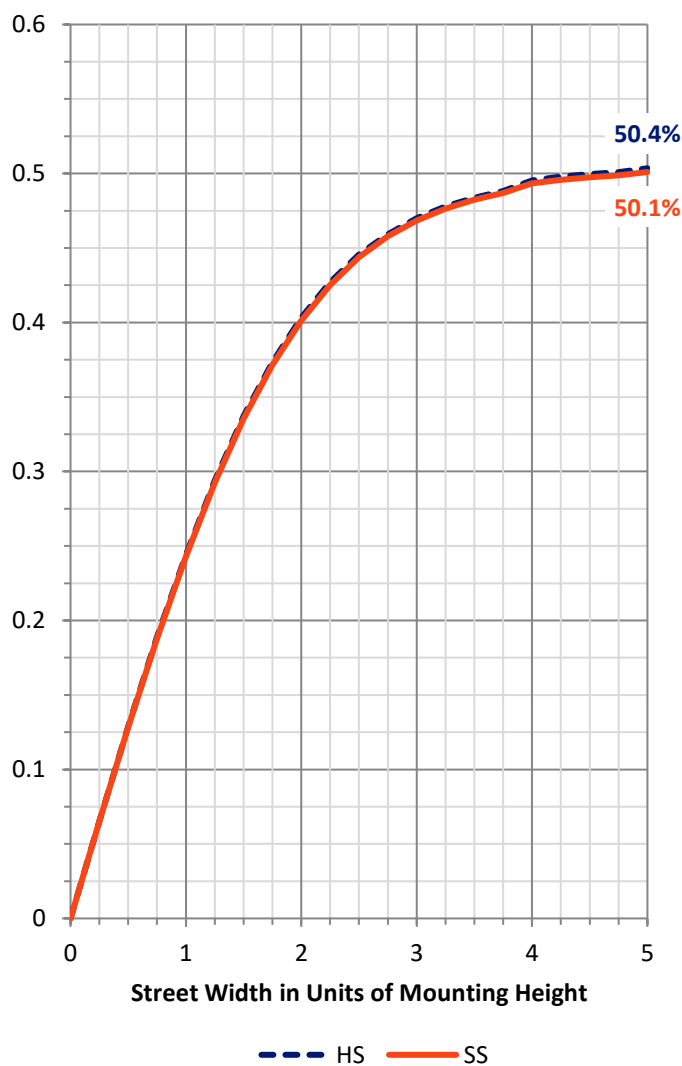
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	35535.0	0.0	35535.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	35535.0	0.0	35535.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	71070.0	0.0	71070.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.0	0.7
10°-20°	1543.3	2.2
20°-30°	2928.7	4.1
30°-40°	5086.7	7.2
40°-50°	8853.9	12.5
50°-60°	15125.9	21.3
60°-70°	22275.9	31.3
70°-80°	14160.4	19.9
80°-90°	597.2	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°	71070.0	100.0
0°-180°	71070.0	100.0

Coefficient of Utilization



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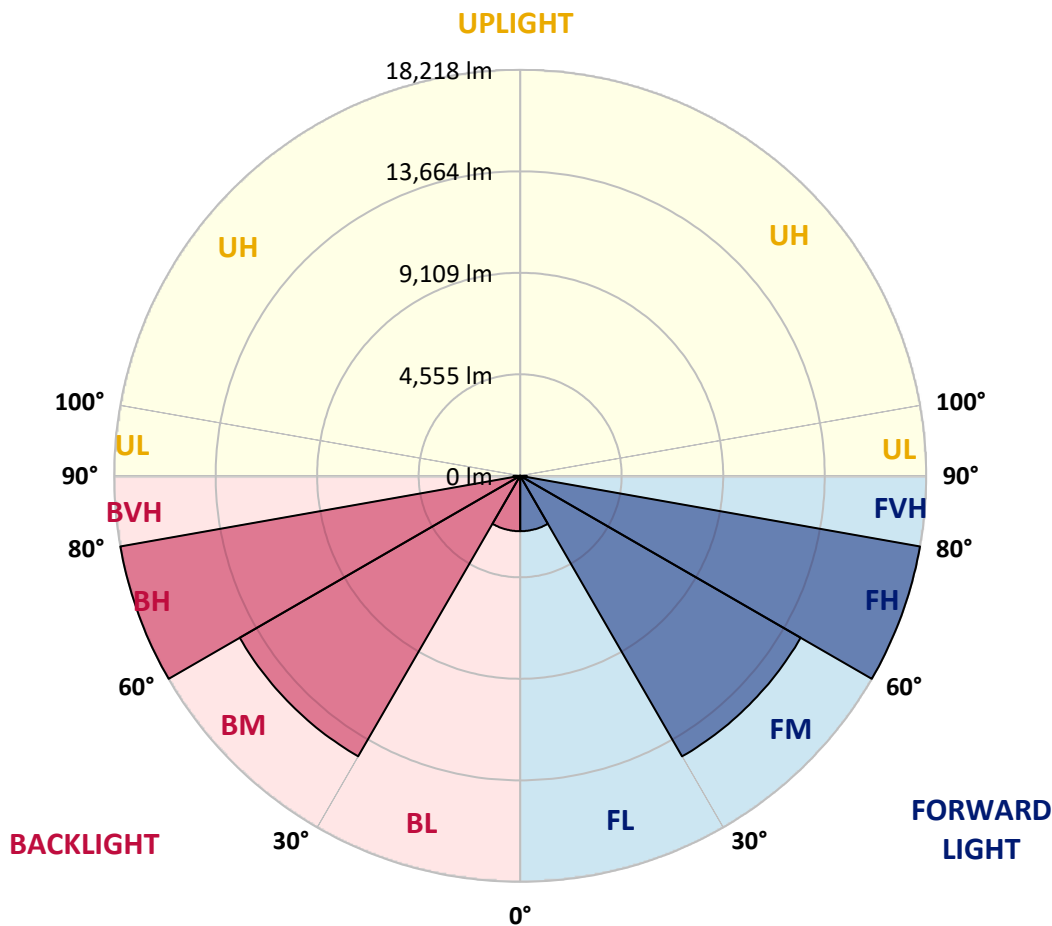
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2485.0	3.5			
FM (30°-60°)	14533.2	20.4			
FH (60°-80°)	18218.2	25.6			G5
FVH (80°-90°)	298.6	0.4			G3/500
BL (0°-30°)	2485.0	3.5	B3/2500		
BM (30°-60°)	14533.2	20.4	B5		
BH (60°-80°)	18218.2	25.6	B5		G5
BVH (80°-90°)	298.6	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°	5227.6
2.5°	5229.0
5°	5218.6
7.5°	5210.0
10°	5218.7
12.5°	5274.8
15°	5383.0
17.5°	5534.3
20°	5739.7
22.5°	5982.3
25°	6268.1
27.5°	6577.8
30°	6942.1
32.5°	7389.7
35°	7977.5
37.5°	8654.1
40°	9406.1
42.5°	10251.1
45°	11254.0
47.5°	12410.6
50°	13750.3
52.5°	15197.2
55°	16784.6
57.5°	18369.8
60°	19946.2
62.5°	21527.3
65°	23409.6
67.5°	23809.4
70°	21935.5
72.5°	18657.2
75°	14165.1
77.5°	8660.1
80°	2748.7
82.5°	466.6
85°	263.6
87.5°	95.4
90°	0.0

(END OF REPORT)