

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: P721866

Luminaire Tested: **CST-CA8-400-740-U-T5R**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721866
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-CA8-400-740-U-T5R
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65004 lumens
Efficiency: N/A
Efficacy: 162.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

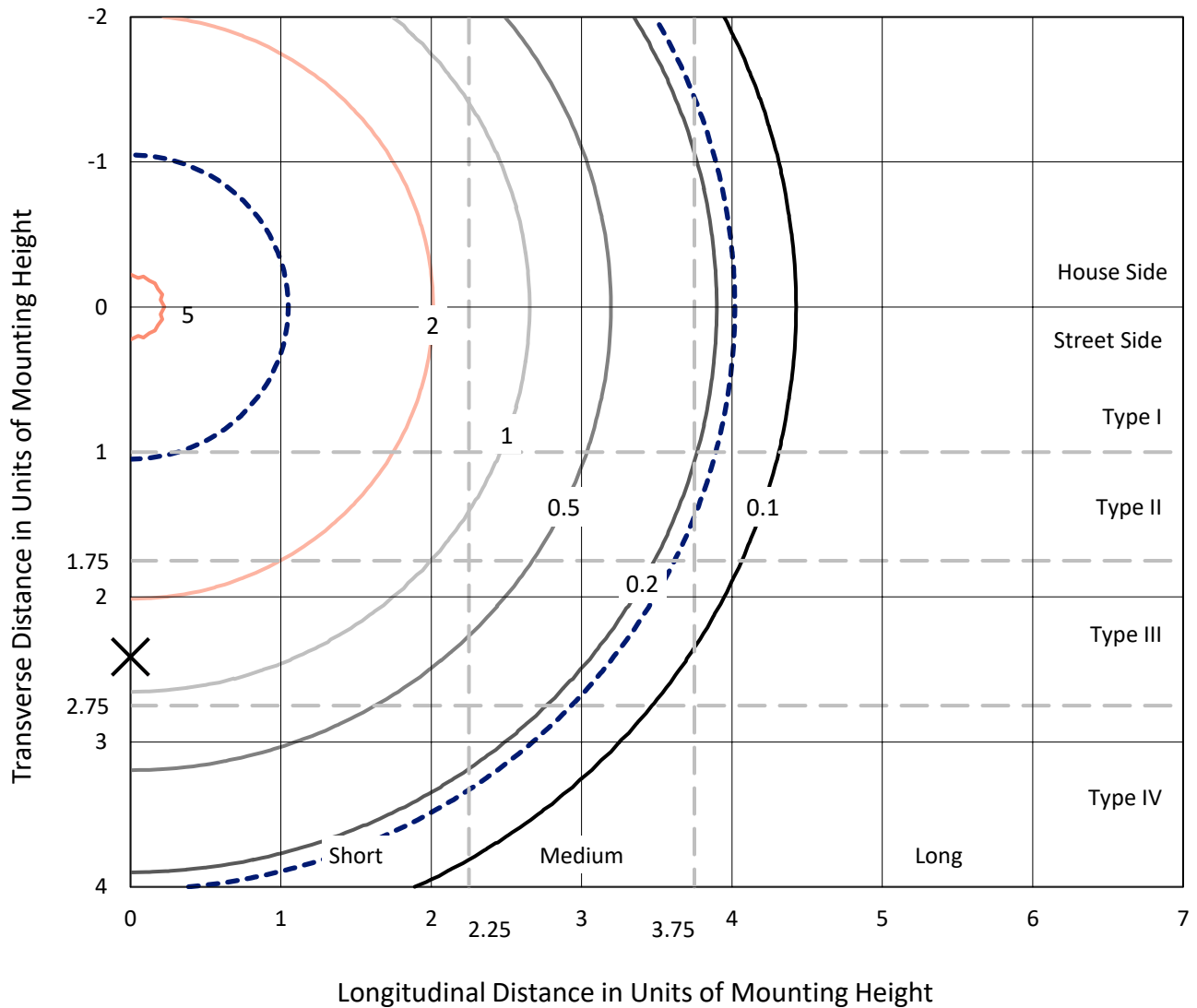
Input Watts (W): 400.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P721866
 CATALOG NUMBER: CST-CA8-400-740-U-T5R

Iso-Footcandle Lines of Horizontal Illumination

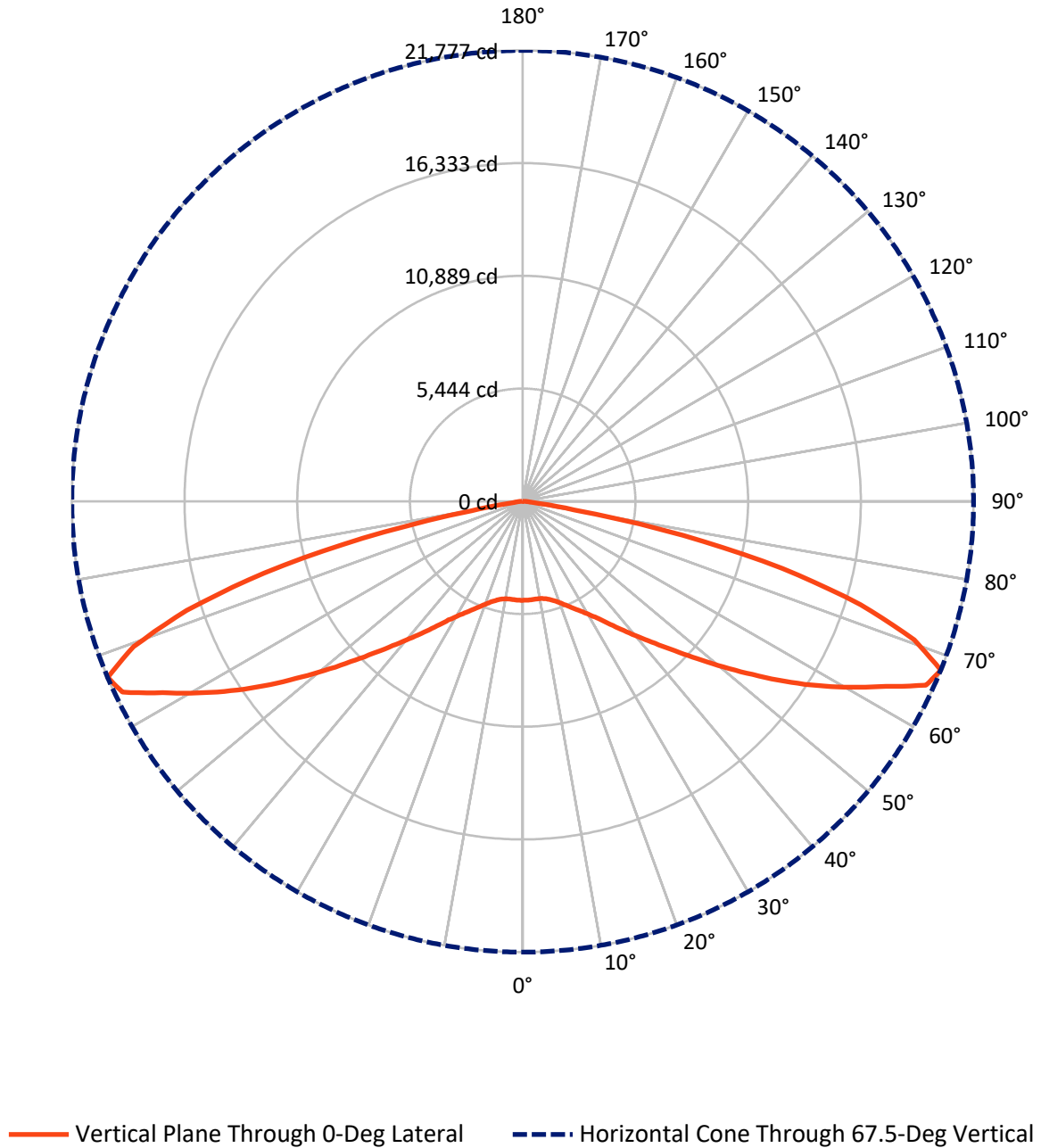
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - N/A

REPORT NUMBER: P721866
CATALOG NUMBER: CST-CA8-400-740-U-T5R

Luminous Intensity Polar Plot



REPORT NUMBER: P721866

CATALOG NUMBER: CST-CA8-400-740-U-T5R

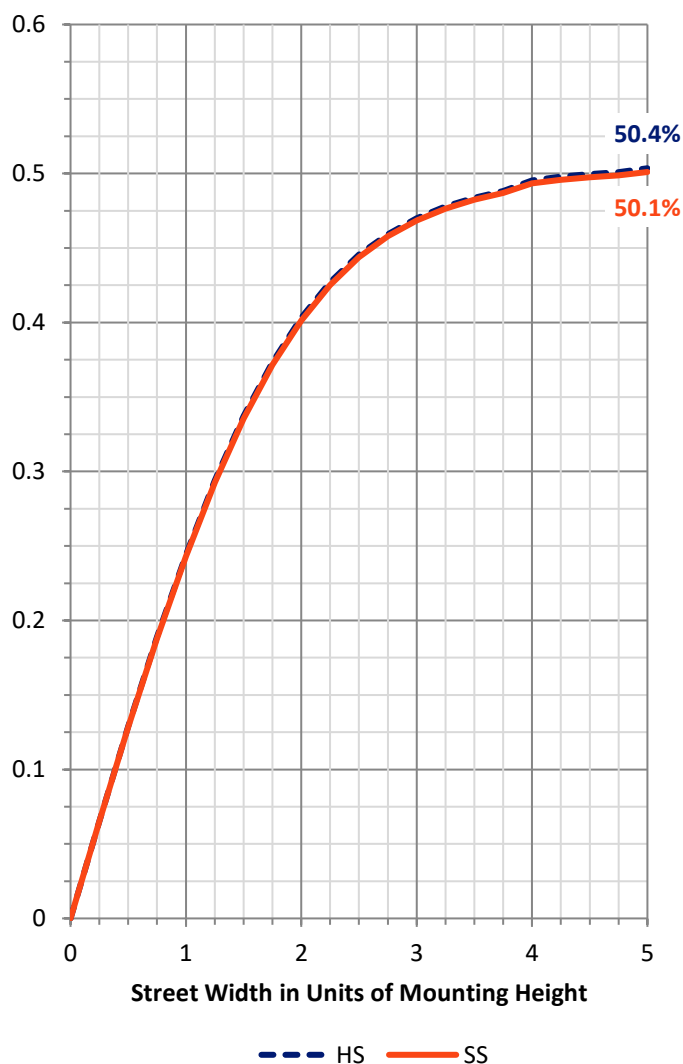
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32502.0	0.0	32502.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	32502.0	0.0	32502.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	65004.0	0.0	65004.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.5	0.7
10°-20°	1411.5	2.2
20°-30°	2678.7	4.1
30°-40°	4652.6	7.2
40°-50°	8098.2	12.5
50°-60°	13834.9	21.3
60°-70°	20374.6	31.3
70°-80°	12951.8	19.9
80°-90°	546.3	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°	65004.0	100.0
0°-180°	65004.0	100.0

Coefficient of Utilization



REPORT NUMBER: P721866

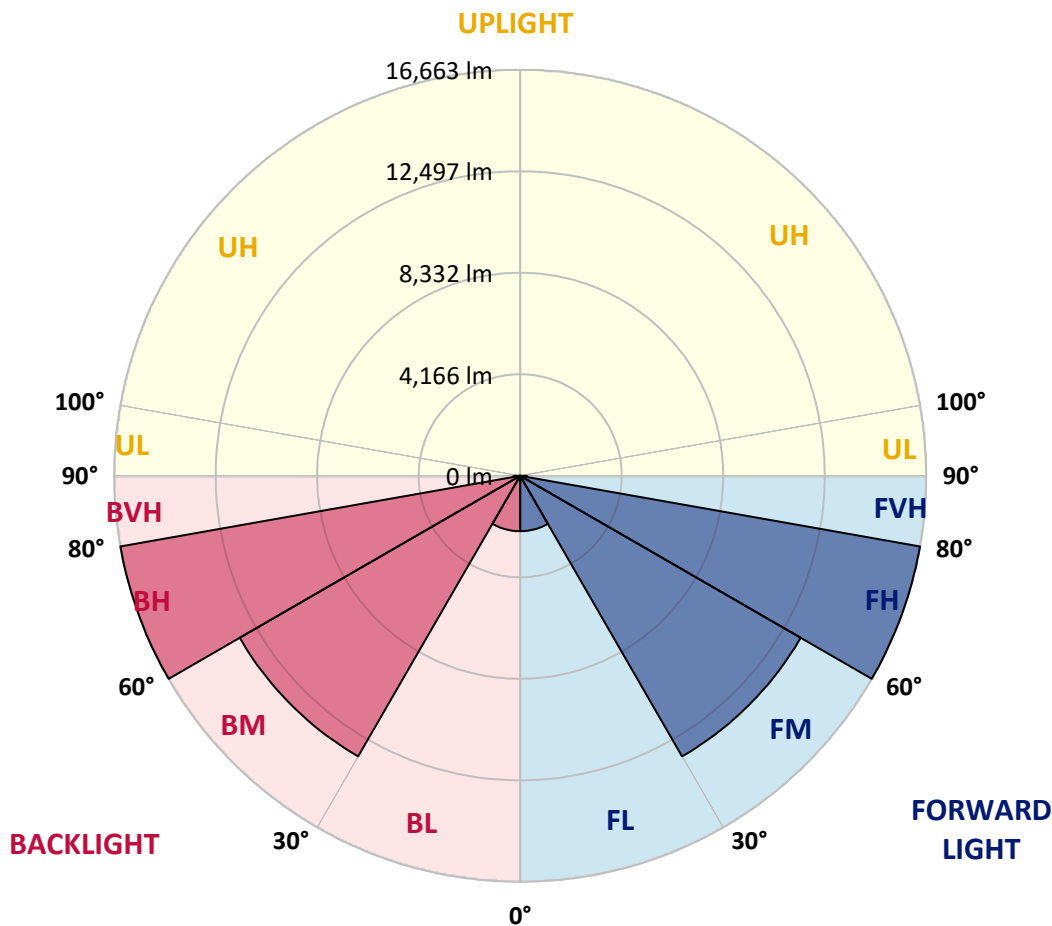
CATALOG NUMBER: CST-CA8-400-740-U-T5R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2272.9	3.5			
FM (30°-60°)	13292.8	20.4			
FH (60°-80°)	16663.2	25.6			G5
FVH (80°-90°)	273.1	0.4			G3/500
BL (0°-30°)	2272.9	3.5	B3/2500		
BM (30°-60°)	13292.8	20.4	B5		
BH (60°-80°)	16663.2	25.6	B5		G5
BVH (80°-90°)	273.1	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



REPORT NUMBER: P721866
CATALOG NUMBER: CST-CA8-400-740-U-T5R

CANDELA DISTRIBUTION (FULL):

	0°
0°	4781.4
2.5°	4782.7
5°	4773.2
7.5°	4765.3
10°	4773.3
12.5°	4824.6
15°	4923.5
17.5°	5061.9
20°	5249.8
22.5°	5471.7
25°	5733.1
27.5°	6016.4
30°	6349.6
32.5°	6759.0
35°	7296.6
37.5°	7915.5
40°	8603.2
42.5°	9376.2
45°	10293.4
47.5°	11351.4
50°	12576.7
52.5°	13900.1
55°	15352.0
57.5°	16801.9
60°	18243.8
62.5°	19689.9
65°	21411.6
67.5°	21777.2
70°	20063.2
72.5°	17064.7
75°	12956.1
77.5°	7920.9
80°	2514.1
82.5°	426.8
85°	241.1
87.5°	87.3
90°	0.0

(END OF REPORT)