

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: P510754

Luminaire Tested: **CST-CA8-230-760-U-T5R**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-230-760-U-T5R
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38238 lumens
Efficiency: N/A
Efficacy: 167.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

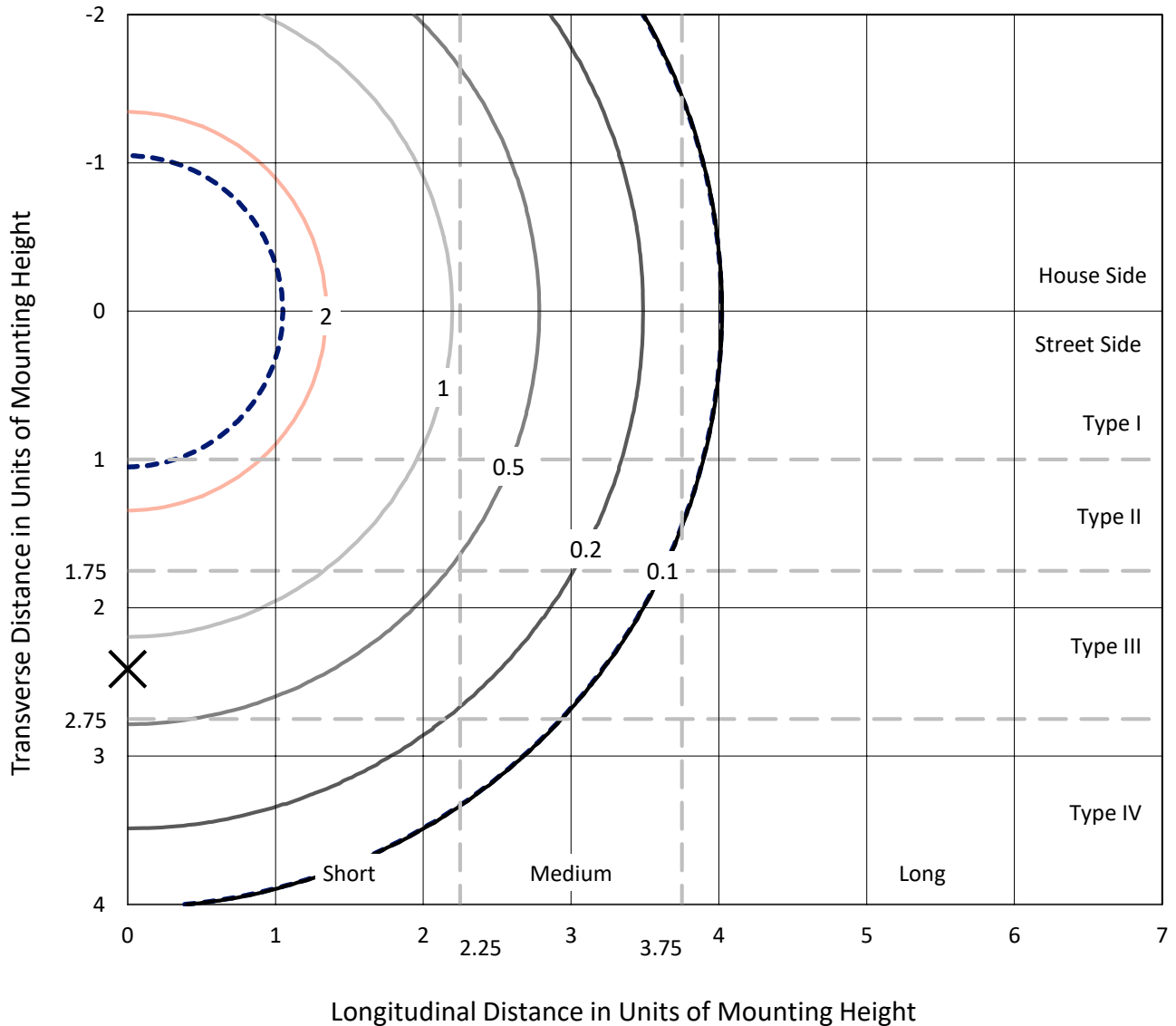
Input Watts (W): 228.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510754
 CATALOG NUMBER: CST-CA8-230-760-U-T5R

Iso-Footcandle Lines of Horizontal Illumination

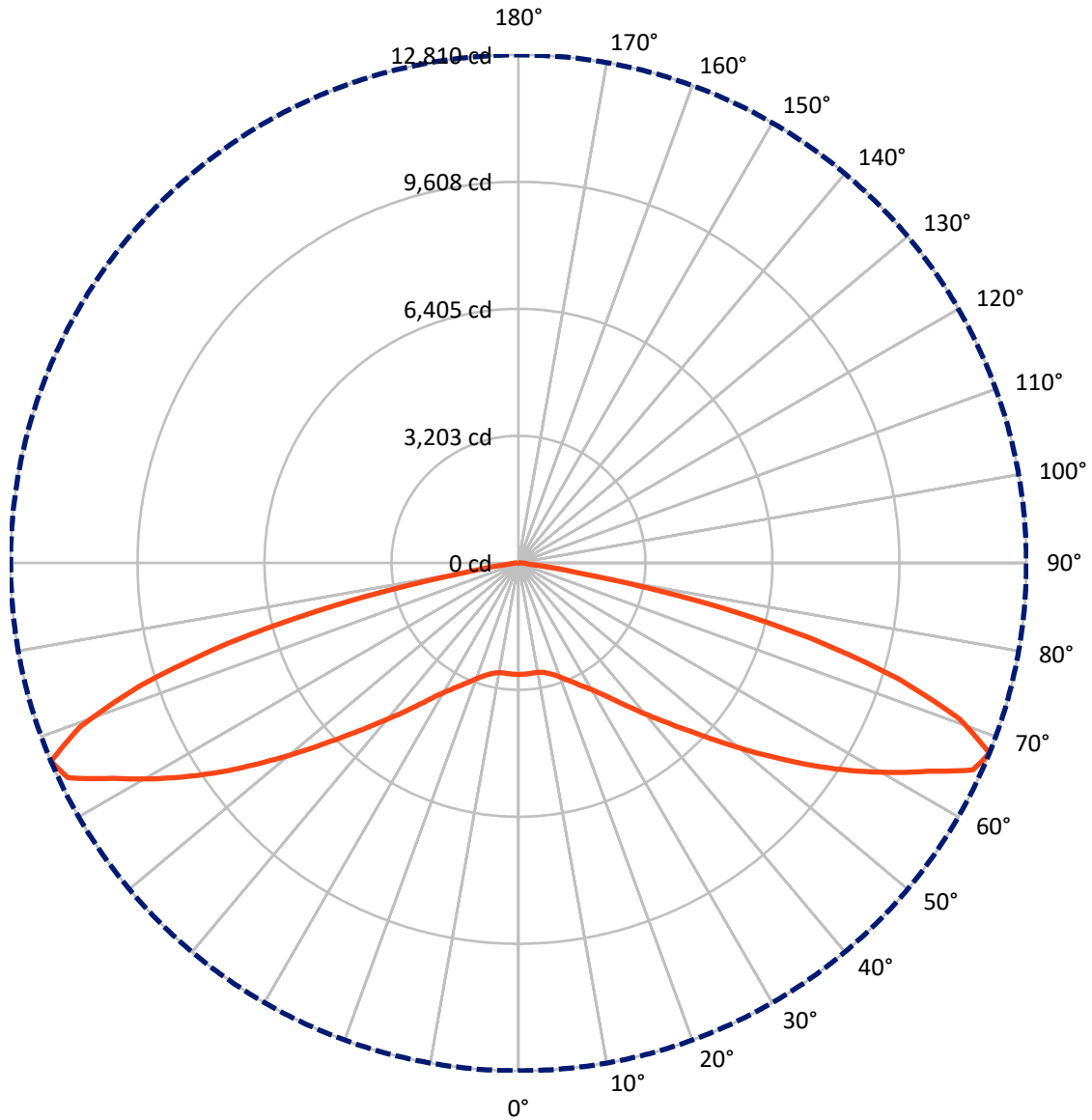
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

REPORT NUMBER: P510754
CATALOG NUMBER: CST-CA8-230-760-U-T5R

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P510754
 CATALOG NUMBER: CST-CA8-230-760-U-T5R

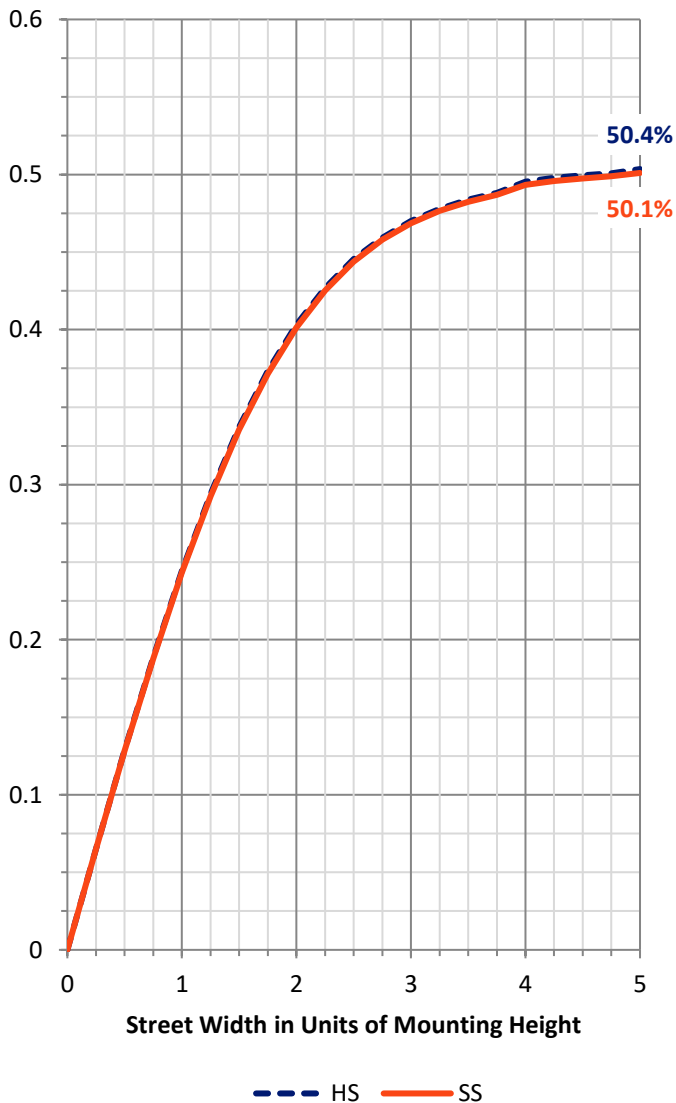
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19119.0	0.0	19119.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19119.0	0.0	19119.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	38238.0	0.0	38238.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.9	0.7
10°-20°	830.3	2.2
20°-30°	1575.7	4.1
30°-40°	2736.8	7.2
40°-50°	4763.7	12.5
50°-60°	8138.2	21.3
60°-70°	11985.2	31.3
70°-80°	7618.8	19.9
80°-90°	321.3	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°	38238.0	100.0
0°-180°	38238.0	100.0

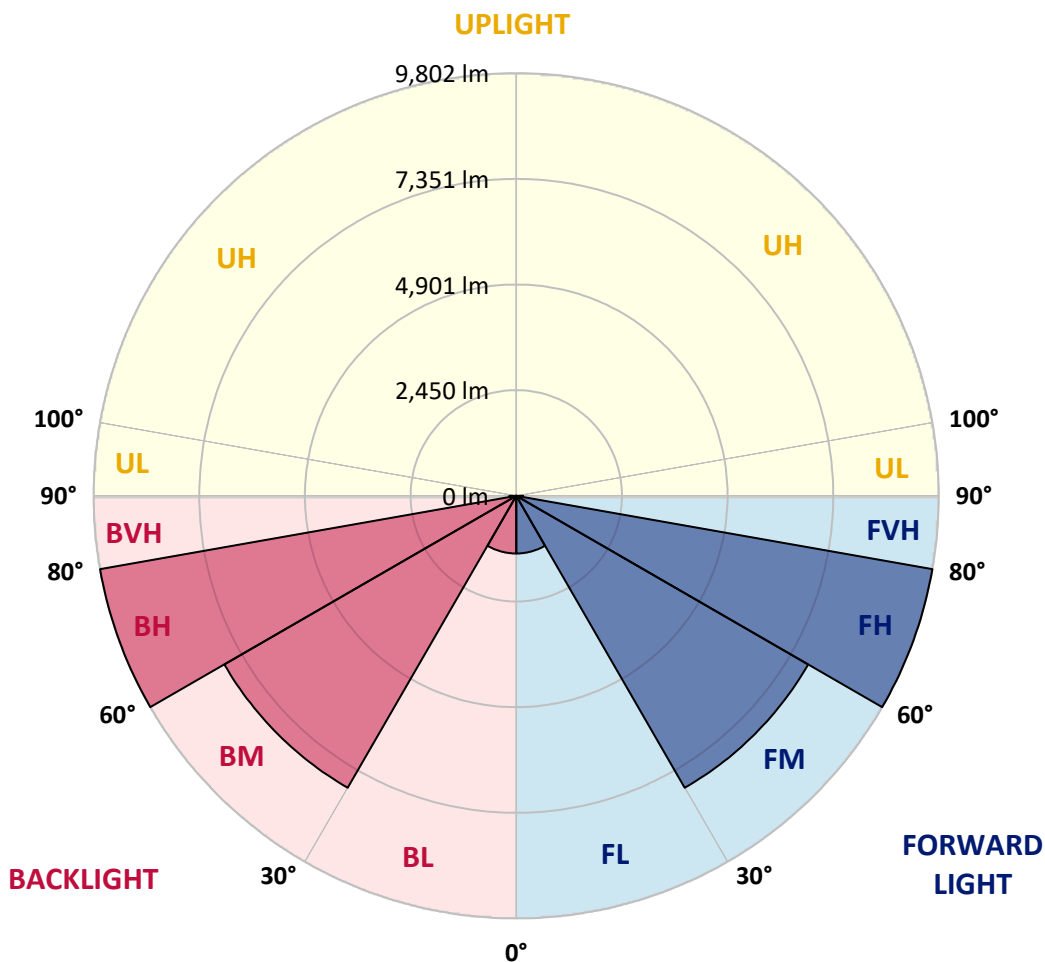


REPORT NUMBER: P510754
 CATALOG NUMBER: CST-CA8-230-760-U-T5R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1337.0	3.5			
FM (30°-60°)	7819.4	20.4			
FH (60°-80°)	9802.0	25.6			G4/12000
FVH (80°-90°)	160.7	0.4			G2/225
BL (0°-30°)	1337.0	3.5	B3/2500		
BM (30°-60°)	7819.4	20.4	B4/8500		
BH (60°-80°)	9802.0	25.6	B5		G4/12000
BVH (80°-90°)	160.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type V Short





REPORT NUMBER: P510754
CATALOG NUMBER: CST-CA8-230-760-U-T5R

CANDELA DISTRIBUTION (FULL):

0°	
0°	2812.6
2.5°	2813.4
5°	2807.8
7.5°	2803.1
10°	2807.8
12.5°	2838.0
15°	2896.2
17.5°	2977.6
20°	3088.2
22.5°	3218.7
25°	3372.4
27.5°	3539.1
30°	3735.1
32.5°	3975.9
35°	4292.2
37.5°	4656.2
40°	5060.8
42.5°	5515.4
45°	6055.0
47.5°	6677.3
50°	7398.1
52.5°	8176.6
55°	9030.7
57.5°	9883.6
60°	10731.7
62.5°	11582.4
65°	12595.2
67.5°	12810.2
70°	11802.0
72.5°	10038.2
75°	7621.3
77.5°	4659.4
80°	1478.9
82.5°	251.0
85°	141.8
87.5°	51.4
90°	0.0

(END OF REPORT)