

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: P510474

Luminaire Tested: **CST-CA10-310-727-U-T5R**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510474
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-CA10-310-727-U-T5R
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43910 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

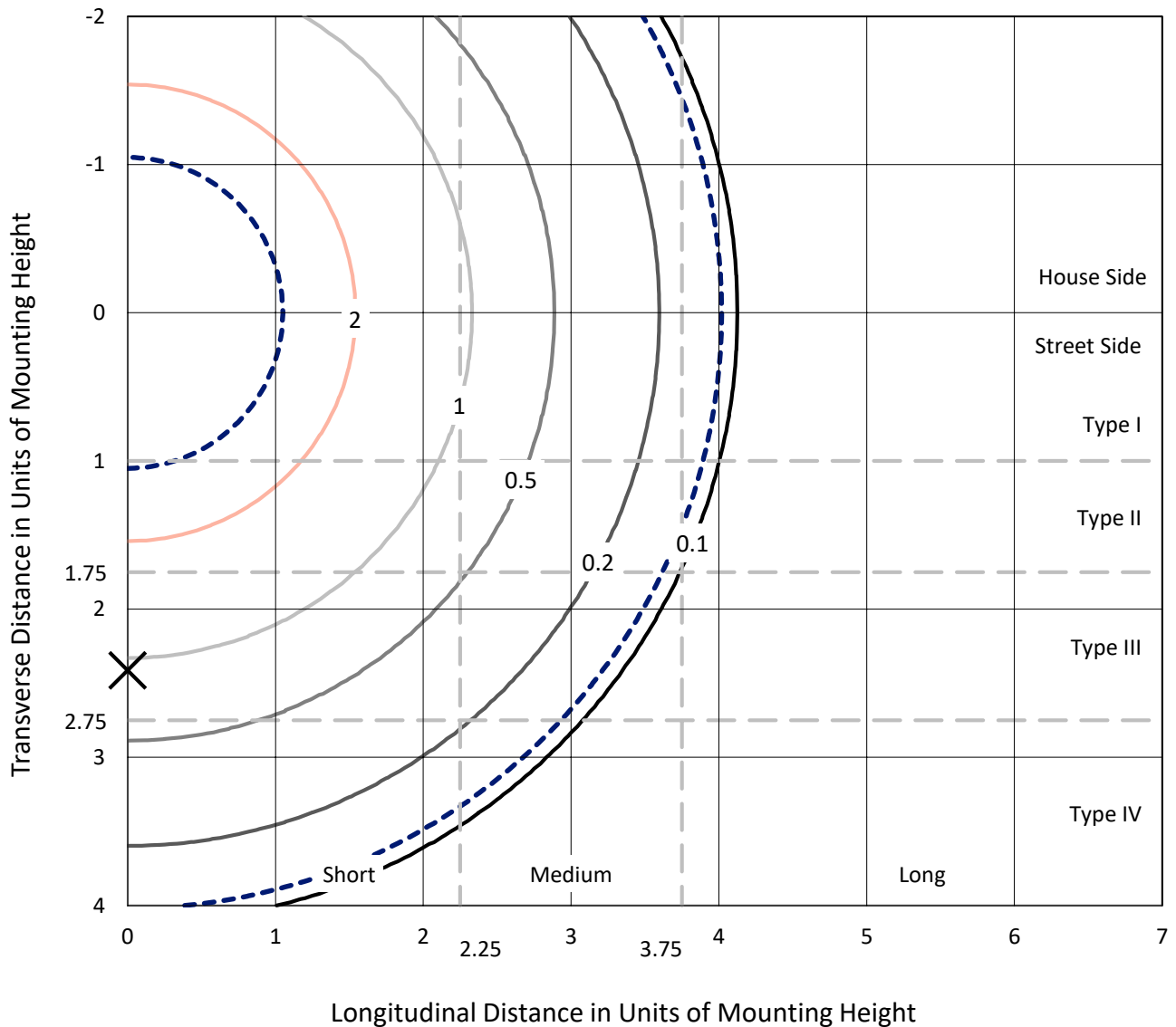
Input Watts (W): 312.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510474
 CATALOG NUMBER: CST-CA10-310-727-U-T5R

Iso-Footcandle Lines of Horizontal Illumination

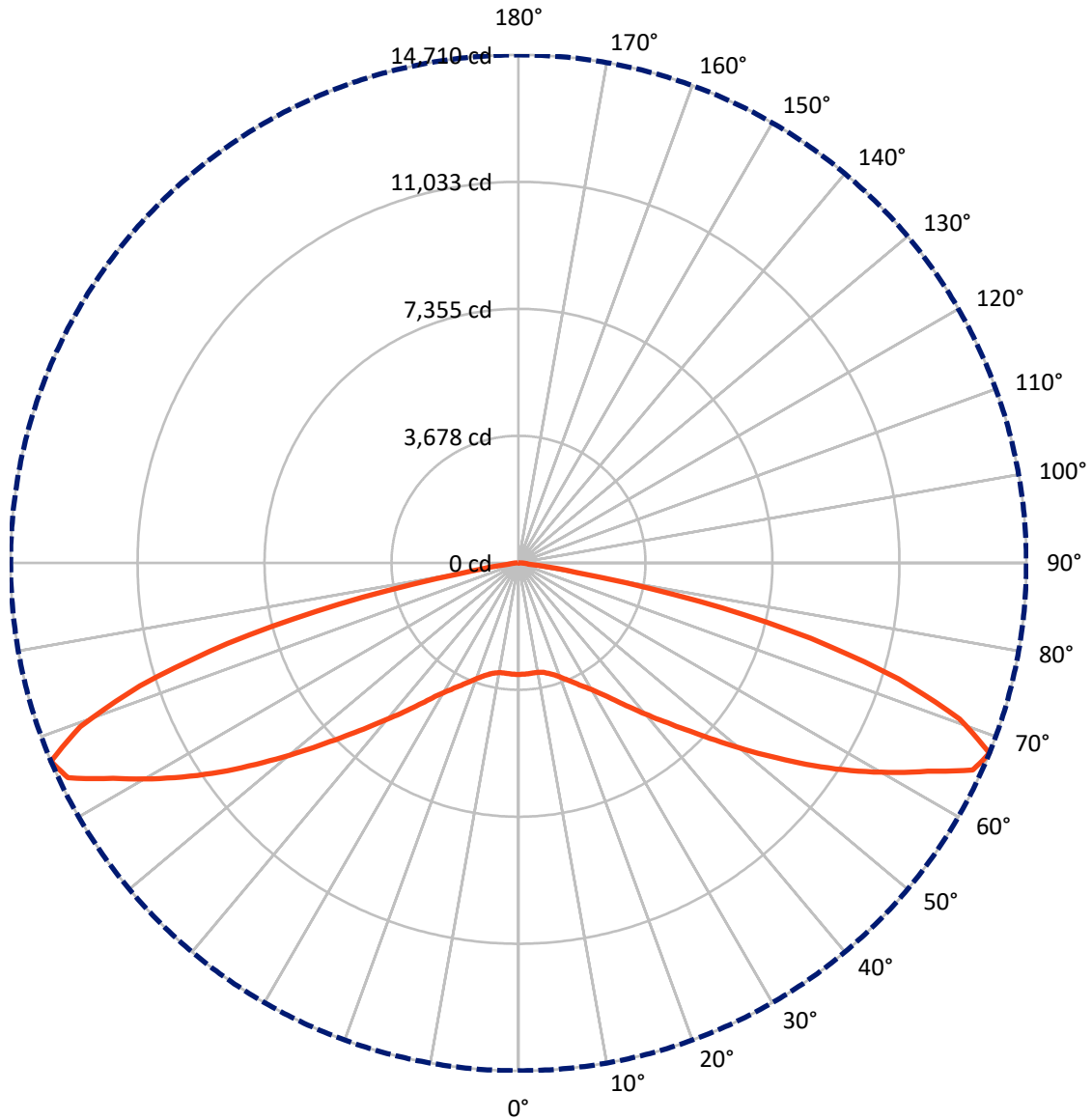
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - N/A

REPORT NUMBER: P510474
CATALOG NUMBER: CST-CA10-310-727-U-T5R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P510474
 CATALOG NUMBER: CST-CA10-310-727-U-T5R

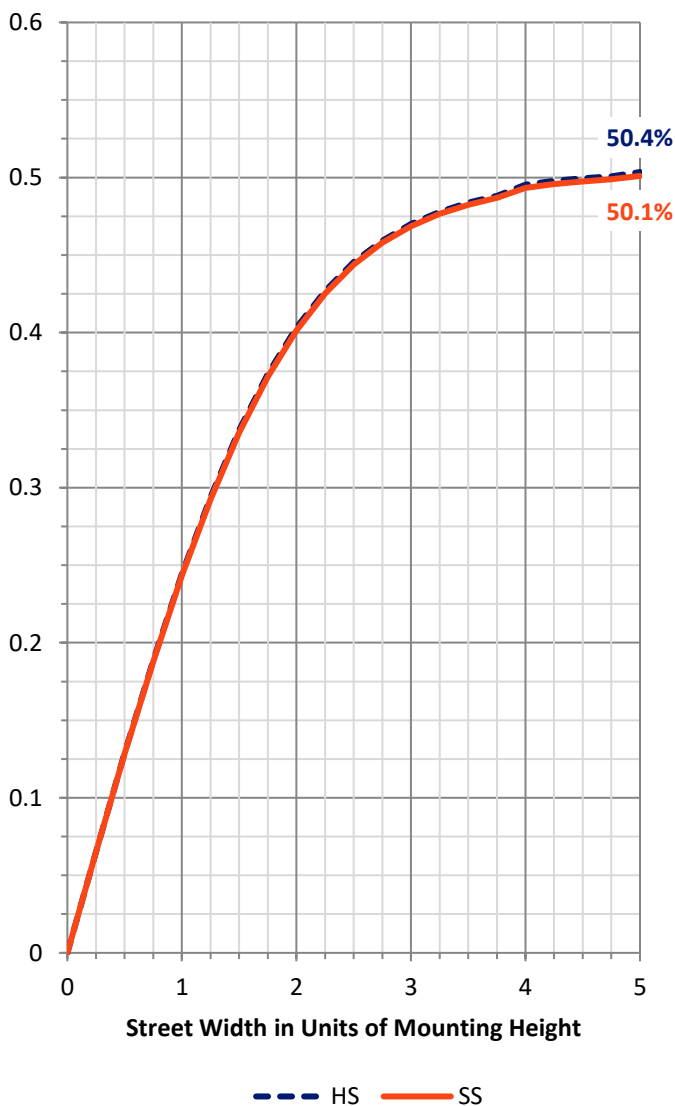
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21955.0	0.0	21955.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21955.0	0.0	21955.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	43910.0	0.0	43910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.7	0.7
10°-20°	953.5	2.2
20°-30°	1809.5	4.1
30°-40°	3142.8	7.2
40°-50°	5470.3	12.5
50°-60°	9345.4	21.3
60°-70°	13763.0	31.3
70°-80°	8748.9	19.9
80°-90°	369.0	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°	43910.0	100.0
0°-180°	43910.0	100.0

Coefficient of Utilization

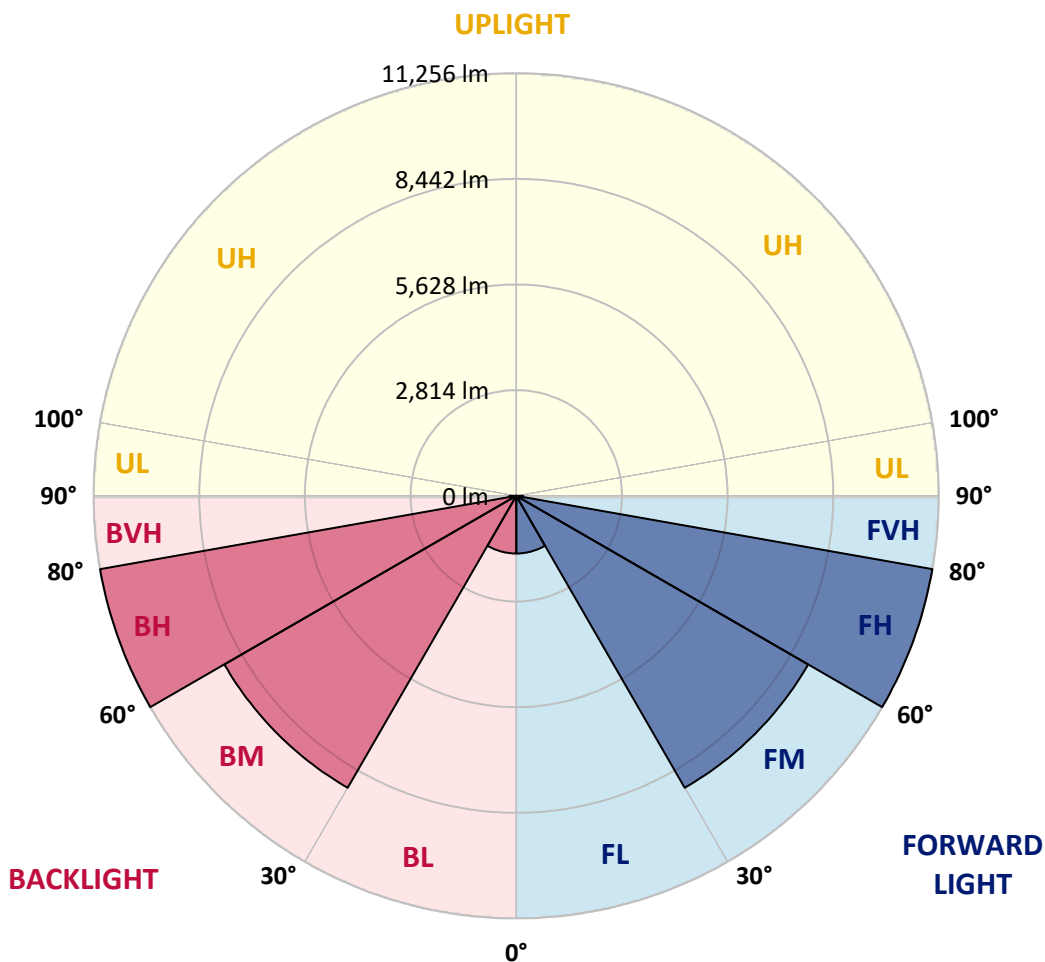


REPORT NUMBER: P510474
 CATALOG NUMBER: CST-CA10-310-727-U-T5R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1535.3	3.5			
FM (30°-60°)	8979.3	20.4			
FH (60°-80°)	11255.9	25.6			G4/12000
FVH (80°-90°)	184.5	0.4			G2/225
BL (0°-30°)	1535.3	3.5	B3/2500		
BM (30°-60°)	8979.3	20.4	B5		
BH (60°-80°)	11255.9	25.6	B5		G4/12000
BVH (80°-90°)	184.5	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: P510474
CATALOG NUMBER: CST-CA10-310-727-U-T5R

CANDELA DISTRIBUTION (FULL):

	0°
0°	3229.8
2.5°	3230.7
5°	3224.3
7.5°	3218.9
10°	3224.3
12.5°	3259.0
15°	3325.8
17.5°	3419.3
20°	3546.2
22.5°	3696.1
25°	3872.7
27.5°	4064.1
30°	4289.1
32.5°	4565.7
35°	4928.9
37.5°	5346.9
40°	5811.5
42.5°	6333.6
45°	6953.2
47.5°	7667.8
50°	8495.5
52.5°	9389.5
55°	10370.2
57.5°	11349.7
60°	12323.6
62.5°	13300.5
65°	14463.4
67.5°	14710.4
70°	13552.6
72.5°	11527.2
75°	8751.8
77.5°	5350.5
80°	1698.3
82.5°	288.3
85°	162.9
87.5°	59.0
90°	0.0

(END OF REPORT)