

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: P510844

Luminaire Tested: **CST-CA8-480-730-U-T5R**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510844
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-CA8-480-730-U-T5R
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 74679.9 lumens
Efficiency: N/A
Efficacy: 155.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 480.8
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: 24 FT

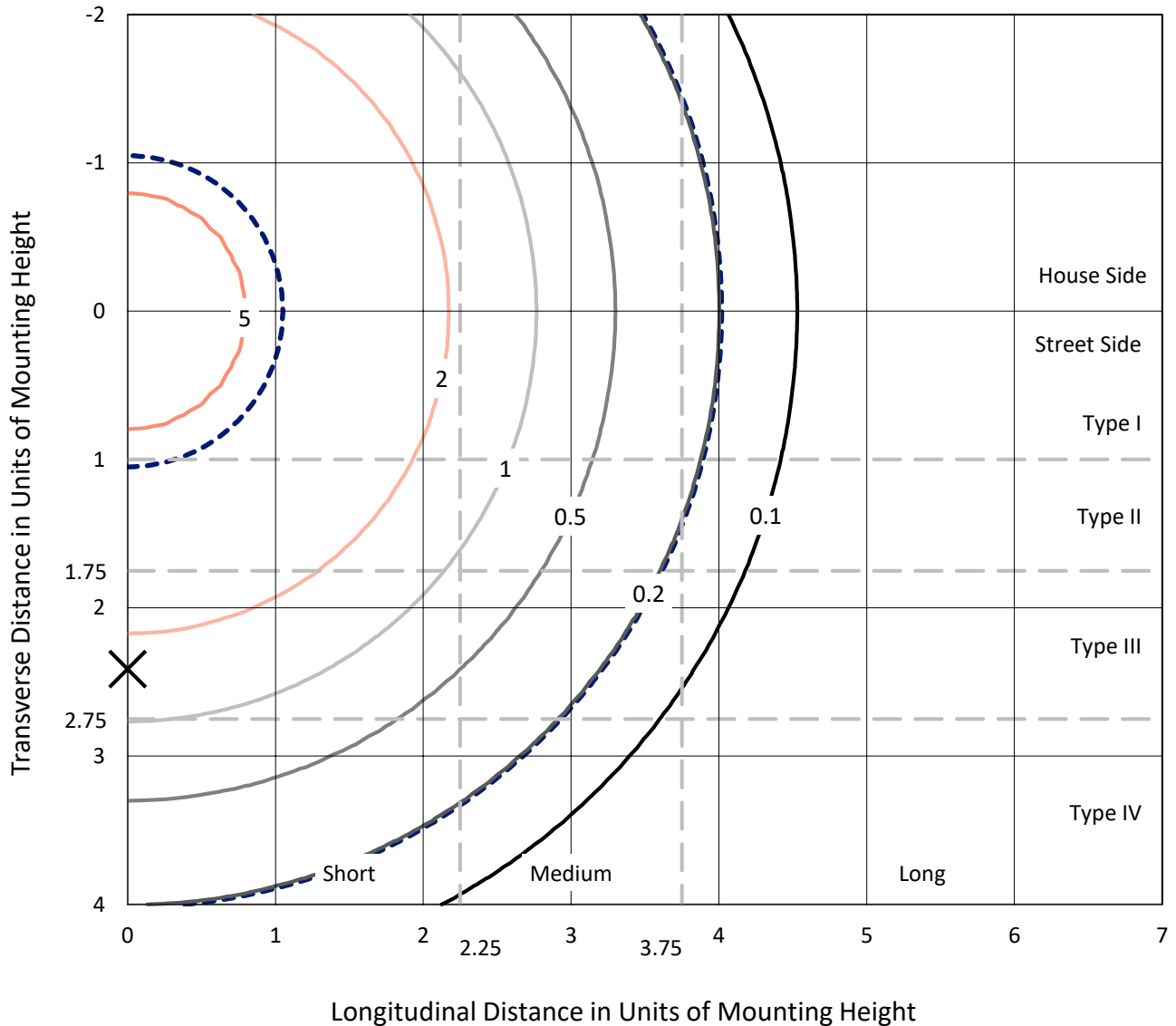




REPORT NUMBER: P510844
 CATALOG NUMBER: CST-CA8-480-730-U-T5R

Iso-Footcandle Lines of Horizontal Illumination

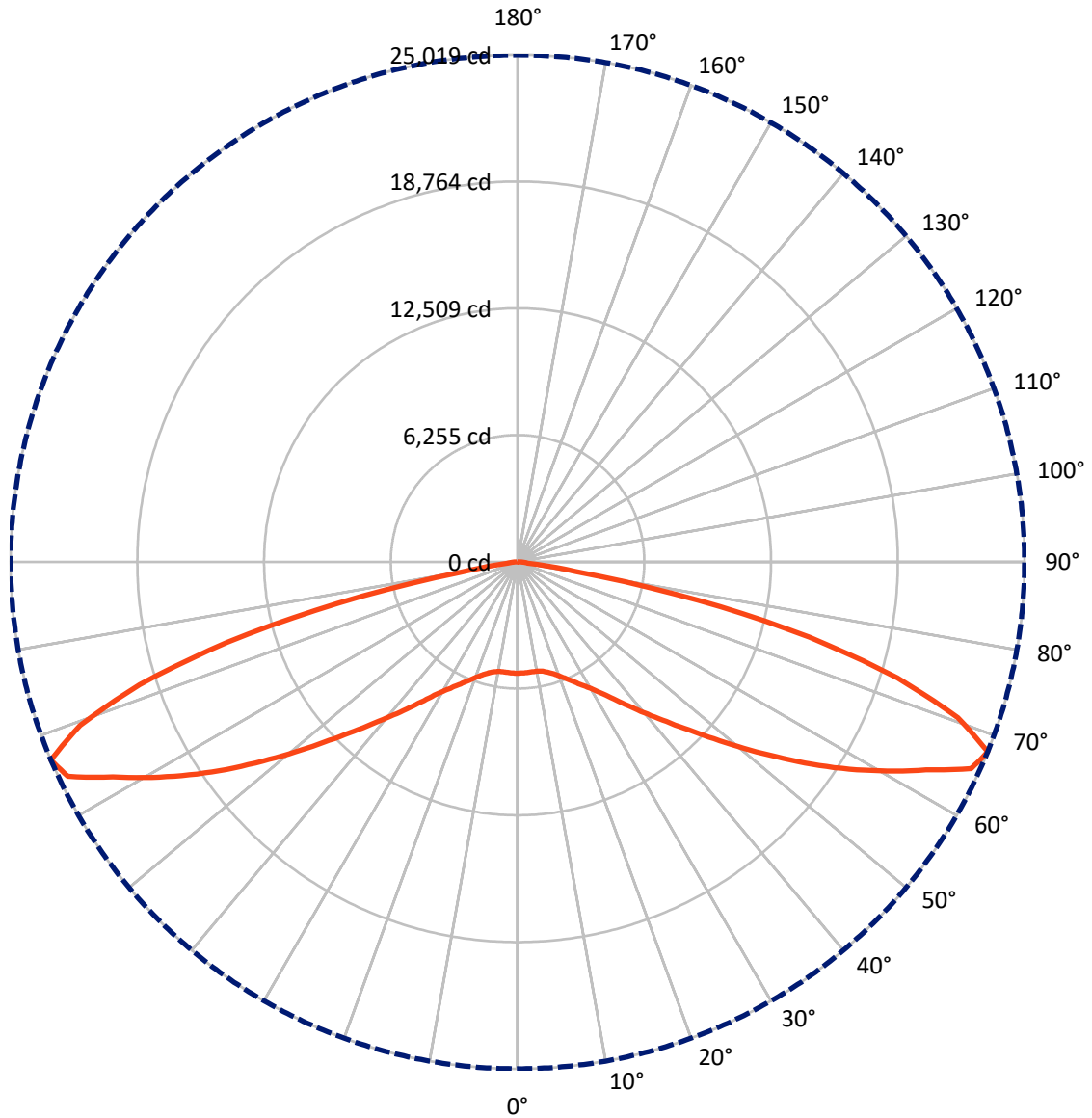
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - N/A

REPORT NUMBER: P510844
CATALOG NUMBER: CST-CA8-480-730-U-T5R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P510844
 CATALOG NUMBER: CST-CA8-480-730-U-T5R

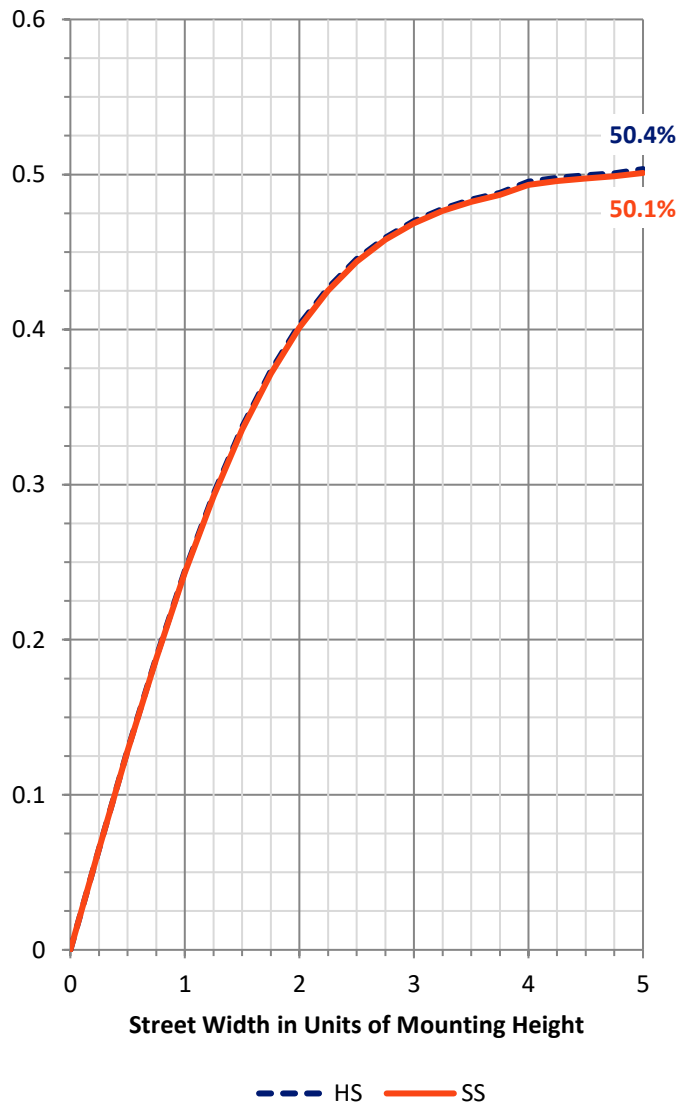
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	37340.0	0.0	37340.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	37340.0	0.0	37340.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	74679.9	0.0	74679.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.3	0.7
10°-20°	1621.7	2.2
20°-30°	3077.5	4.1
30°-40°	5345.1	7.2
40°-50°	9303.6	12.5
50°-60°	15894.2	21.3
60°-70°	23407.4	31.3
70°-80°	14879.6	19.9
80°-90°	627.6	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°	74679.9	100.0
0°-180°	74679.9	100.0

Coefficient of Utilization



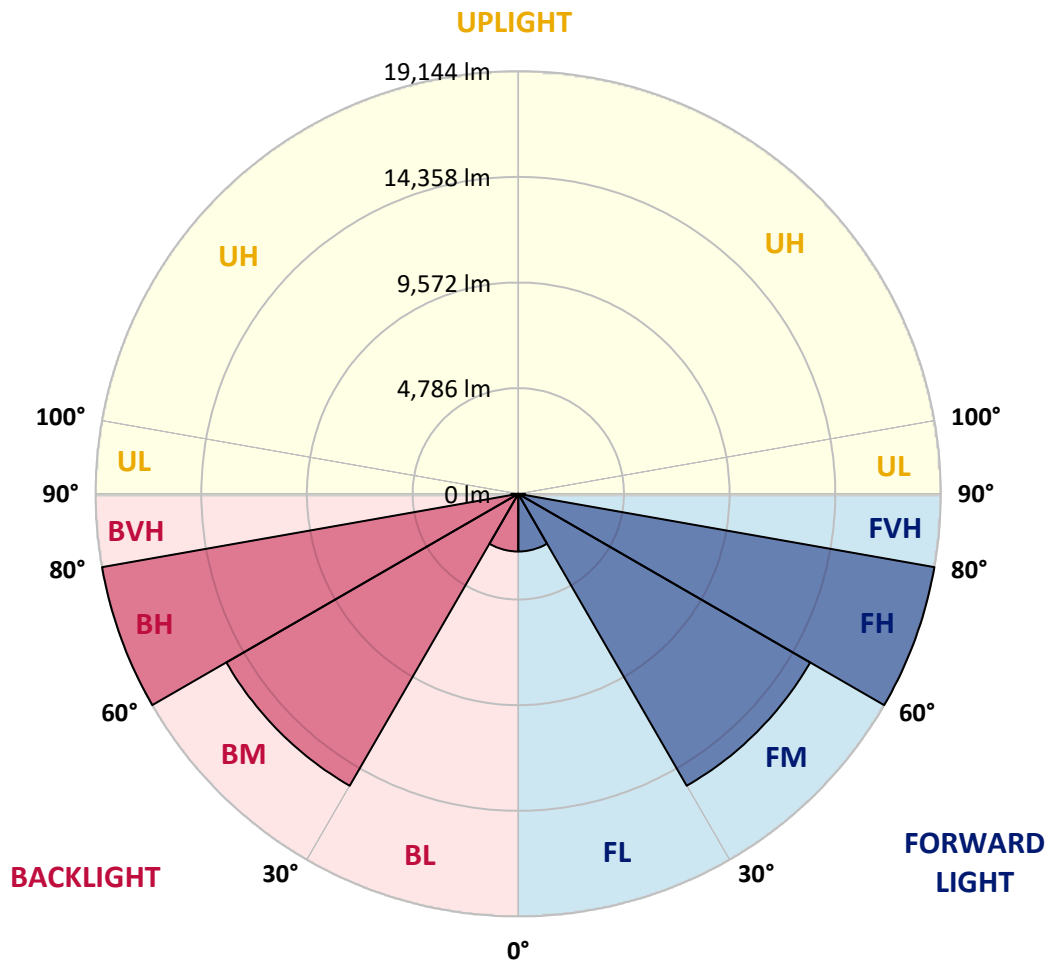
REPORT NUMBER: P510844
 CATALOG NUMBER: CST-CA8-480-730-U-T5R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2611.2	3.5			
FM (30°-60°)	15271.4	20.4			
FH (60°-80°)	19143.5	25.6			G5
FVH (80°-90°)	313.8	0.4			G3/500
BL (0°-30°)	2611.2	3.5	B4/5000		
BM (30°-60°)	15271.4	20.4	B5		
BH (60°-80°)	19143.5	25.6	B5		G5
BVH (80°-90°)	313.8	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: P510844
CATALOG NUMBER: CST-CA8-480-730-U-T5R

CANDELA DISTRIBUTION (FULL):

0°	
0°	5493.1
2.5°	5494.6
5°	5483.7
7.5°	5474.6
10°	5483.8
12.5°	5542.8
15°	5656.4
17.5°	5815.4
20°	6031.3
22.5°	6286.1
25°	6586.5
27.5°	6912.0
30°	7294.7
32.5°	7765.1
35°	8382.8
37.5°	9093.7
40°	9883.9
42.5°	10771.8
45°	11825.6
47.5°	13041.0
50°	14448.7
52.5°	15969.1
55°	17637.1
57.5°	19302.9
60°	20959.4
62.5°	22620.8
65°	24598.7
67.5°	25018.8
70°	23049.7
72.5°	19604.8
75°	14884.6
77.5°	9099.9
80°	2888.3
82.5°	490.3
85°	277.0
87.5°	100.3
90°	0.0

(END OF REPORT)