

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: P256611

Luminaire Tested: **CST-8-4-D-U-T5R-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-8-4-D-U-T5R-7050
Description: CELESTEON HIGH MAST LUMINAIRE
(8) 70 CRI, 5000K LEDS AND TYPE V ROUND OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46989 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G5

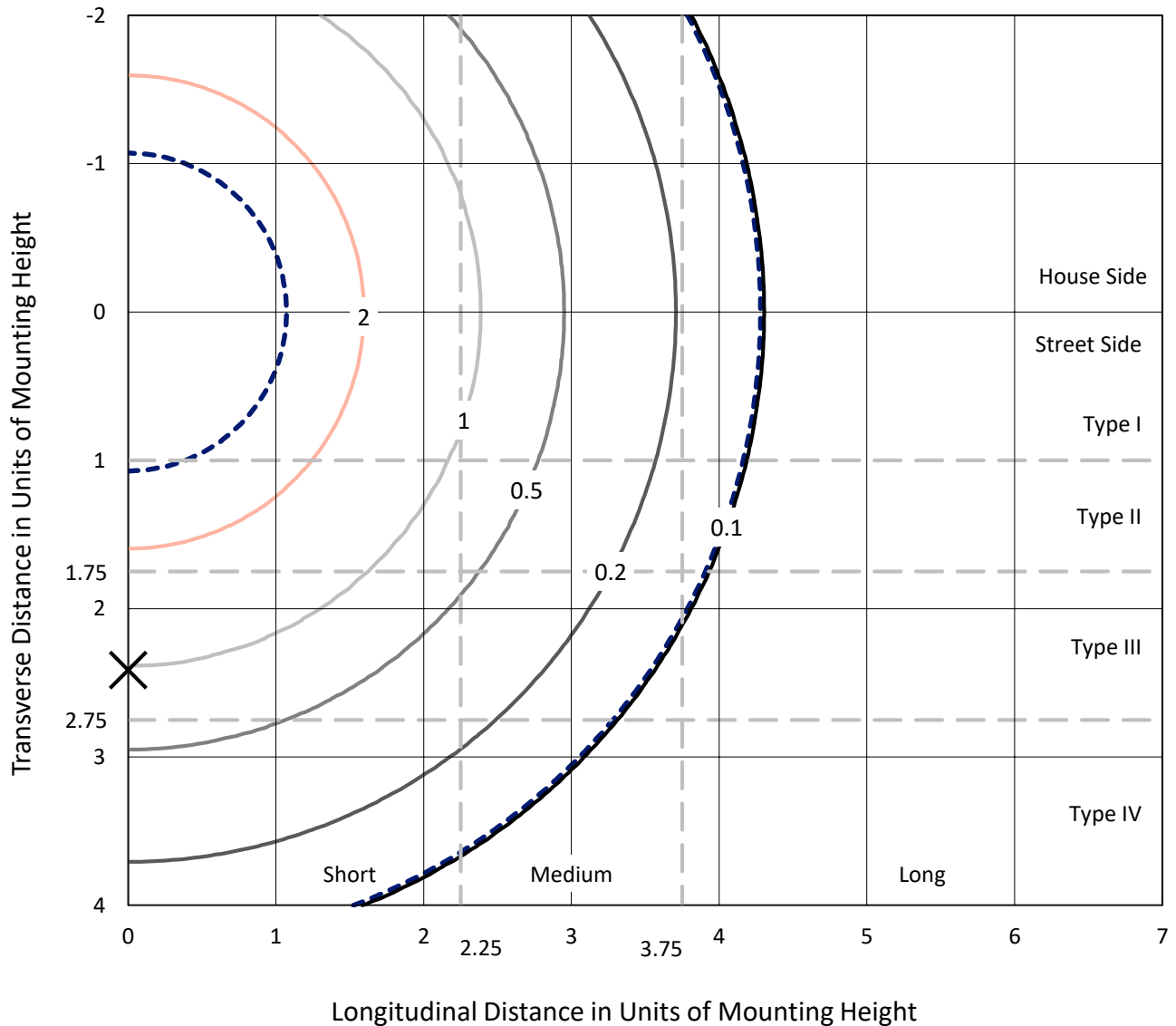
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

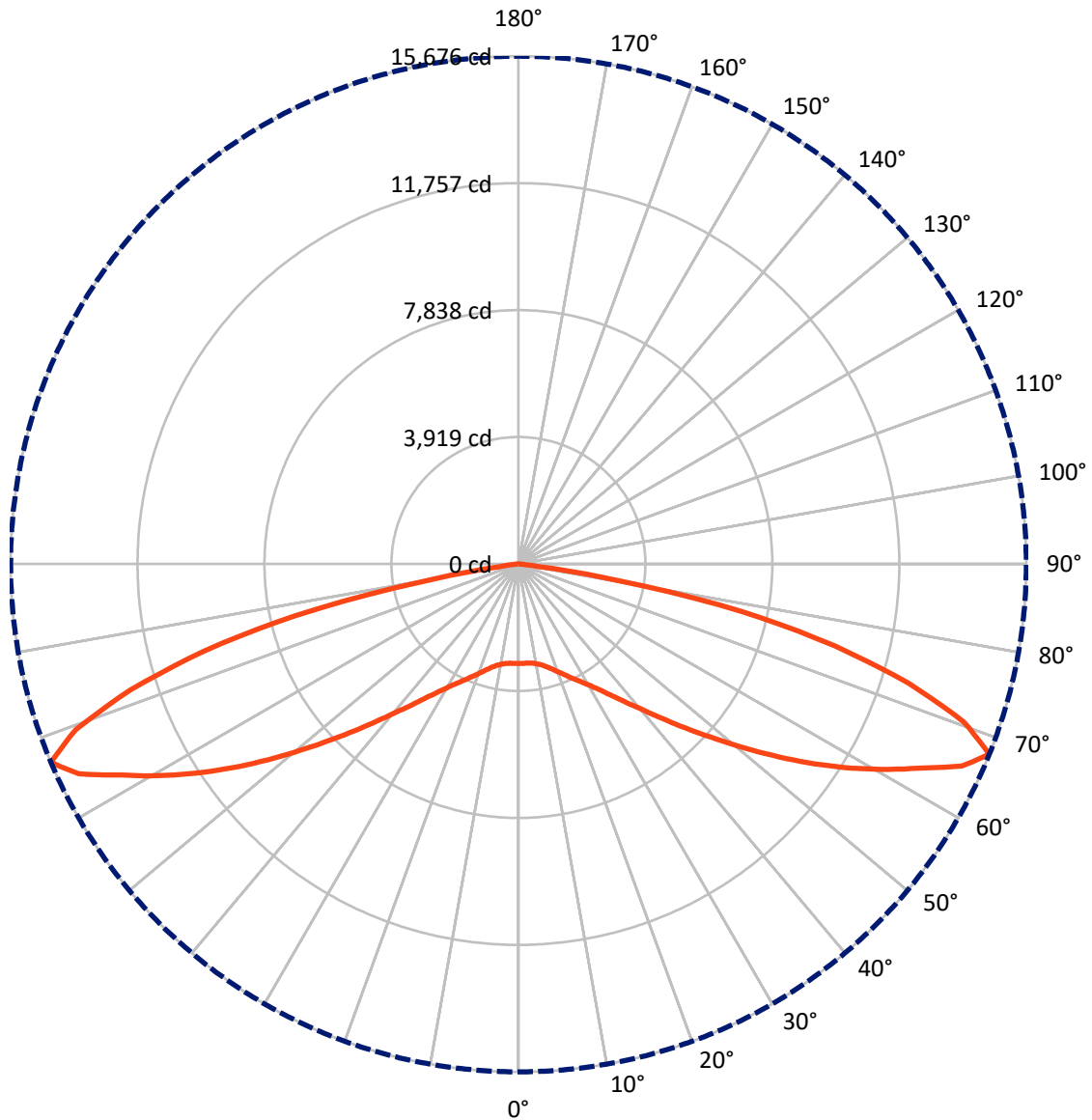


Based on 30 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Full Cutoff

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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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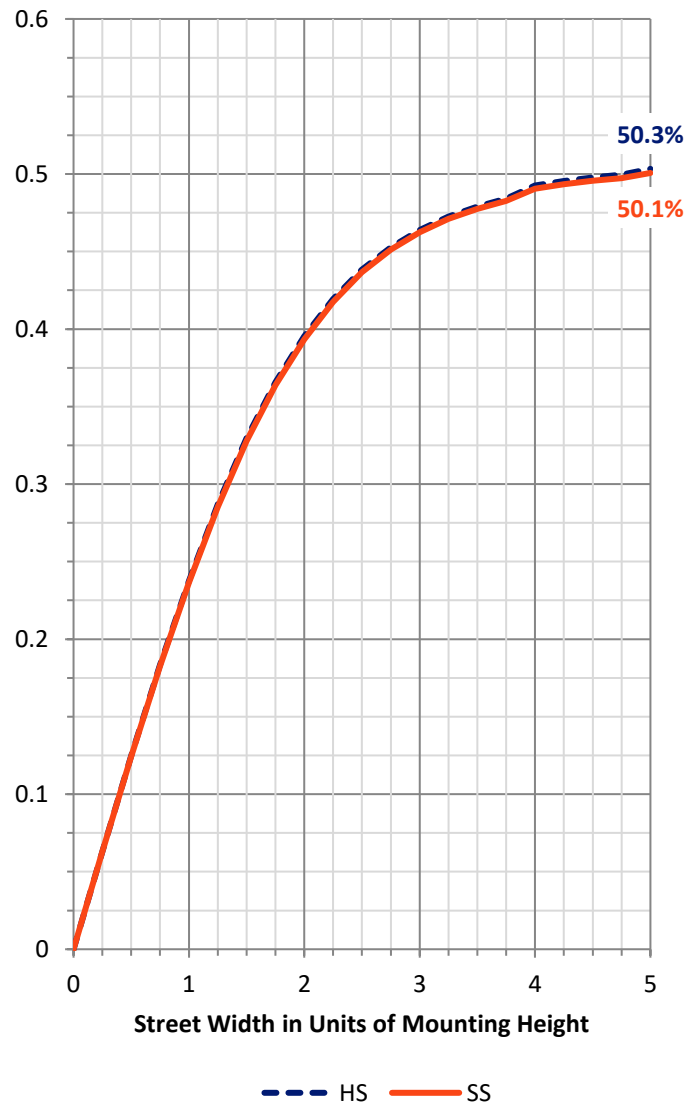
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23494.5	0.0	23494.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23494.5	0.0	23494.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	46989.0	0.0	46989.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.0	0.6
10°-20°	945.5	2.0
20°-30°	1829.1	3.9
30°-40°	3190.7	6.8
40°-50°	5663.8	12.1
50°-60°	9755.0	20.8
60°-70°	14487.4	30.8
70°-80°	10166.5	21.6
80°-90°	655.8	1.4
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°	46989.0	100.0
0°-180°	46989.0	100.0



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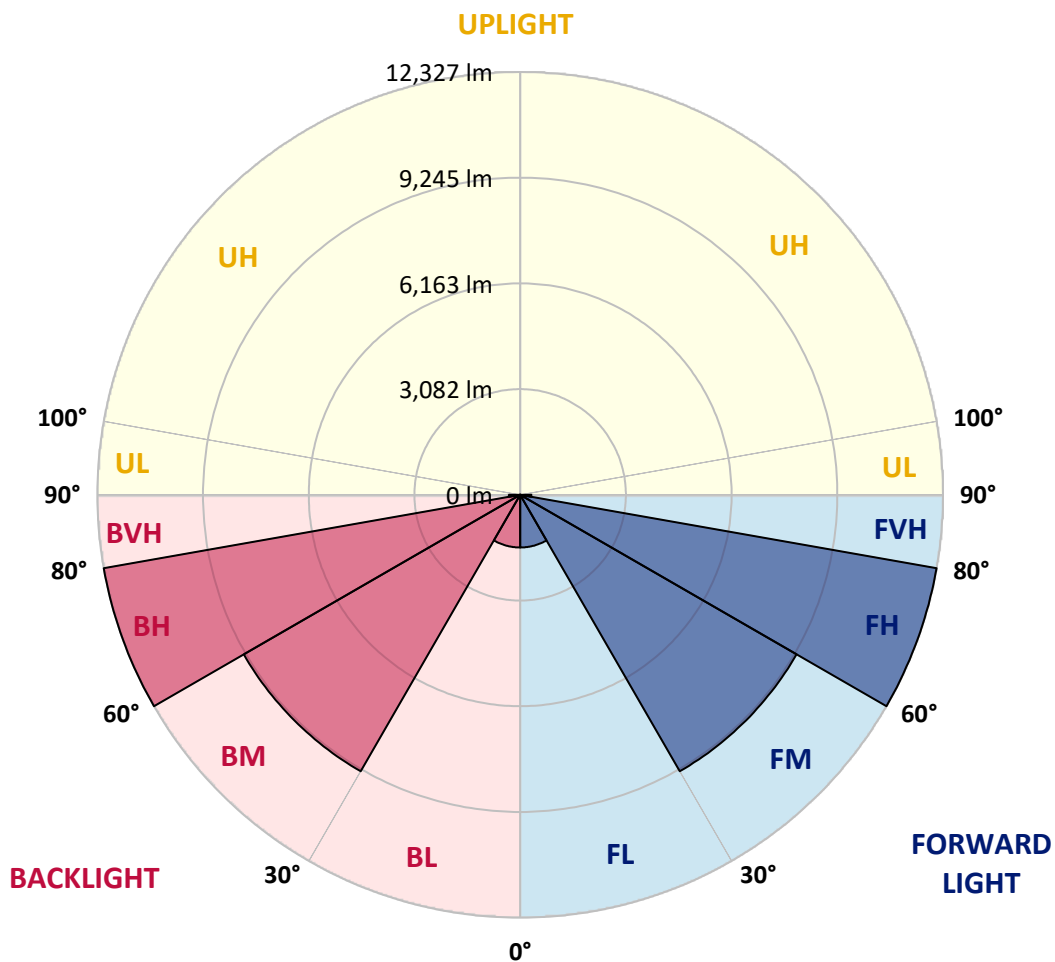
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1534.8	3.3			
FM (30°-60°)	9304.8	19.8			
FH (60°-80°)	12327.0	26.2			G5
FVH (80°-90°)	327.9	0.7			G3/500
BL (0°-30°)	1534.8	3.3	B3/2500		
BM (30°-60°)	9304.8	19.8	B5		
BH (60°-80°)	12327.0	26.2	B5		G5
BVH (80°-90°)	327.9	0.7			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°	3065.0
2.5°	3069.2
5°	3072.0
7.5°	3088.8
10°	3130.8
12.5°	3196.5
15°	3291.7
17.5°	3417.6
20°	3564.4
22.5°	3729.5
25°	3912.8
27.5°	4115.6
30°	4350.6
32.5°	4638.8
35°	4996.9
37.5°	5426.4
40°	5914.6
42.5°	6513.4
45°	7211.4
47.5°	7985.0
50°	8852.4
52.5°	9810.6
55°	10817.8
57.5°	11847.4
60°	12872.8
62.5°	13877.3
65°	15035.6
67.5°	15676.3
70°	14582.3
72.5°	12593.1
75°	10083.4
77.5°	7050.5
80°	3171.3
82.5°	577.8
85°	176.3
87.5°	76.9
90°	0.0

(END OF REPORT)