

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: P256603

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256603
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
Description: CELESTEON HIGH MAST LUMINAIRE
(8) 70 CRI, 4000K LEDS AND TYPE V ROUND OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46517 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G5

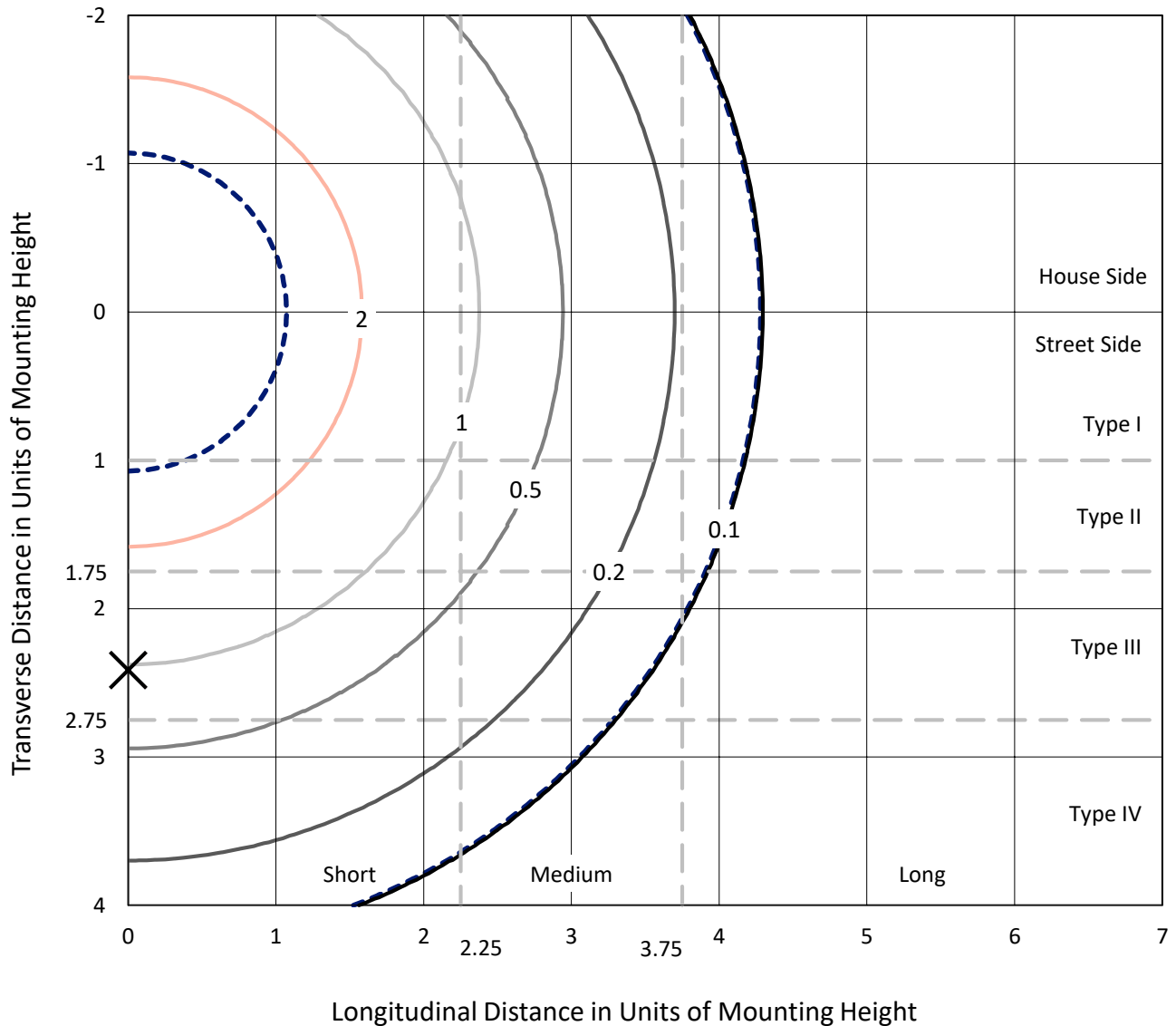
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

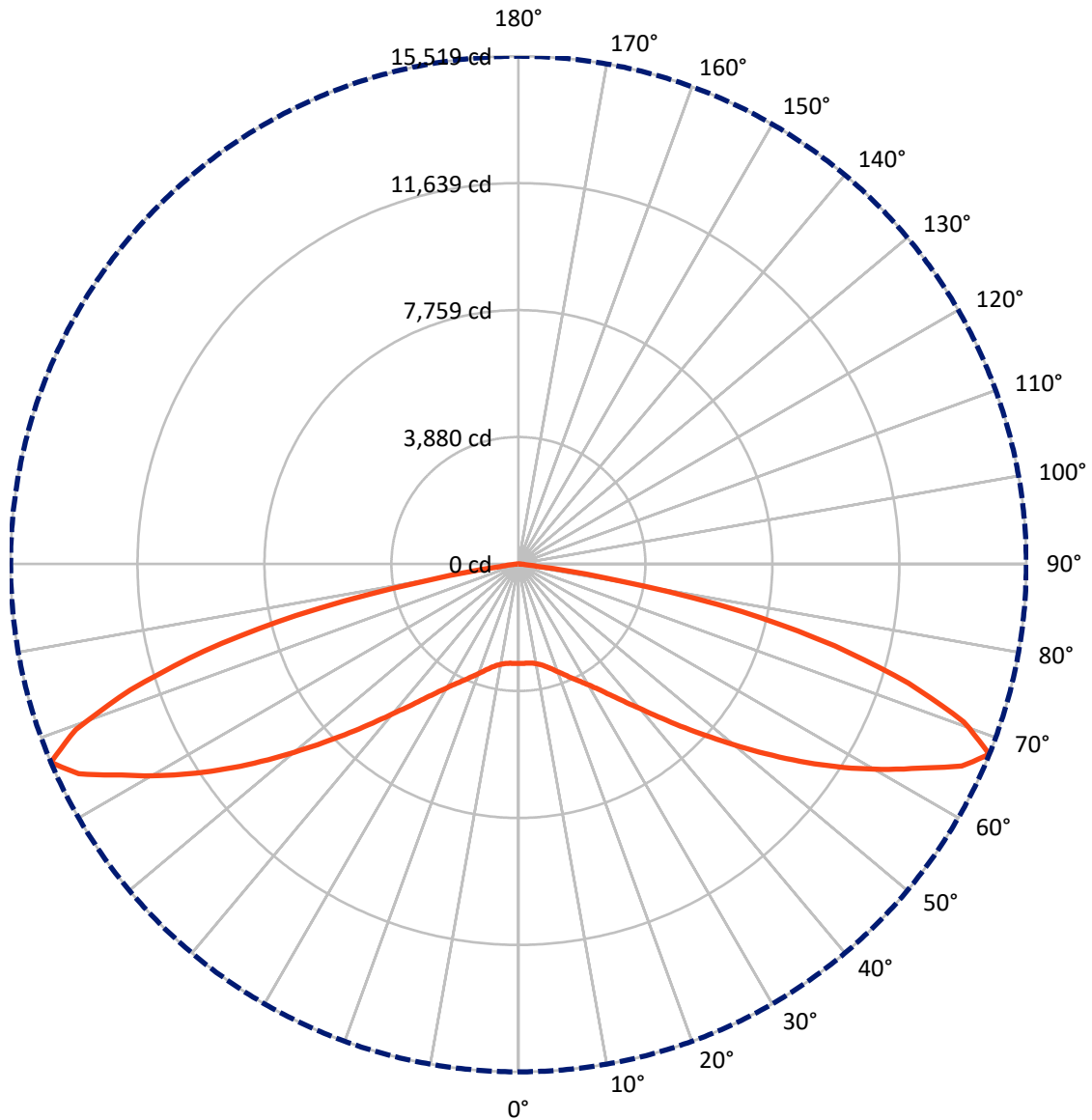
× Max cd
 - - - 1/2 Max cd



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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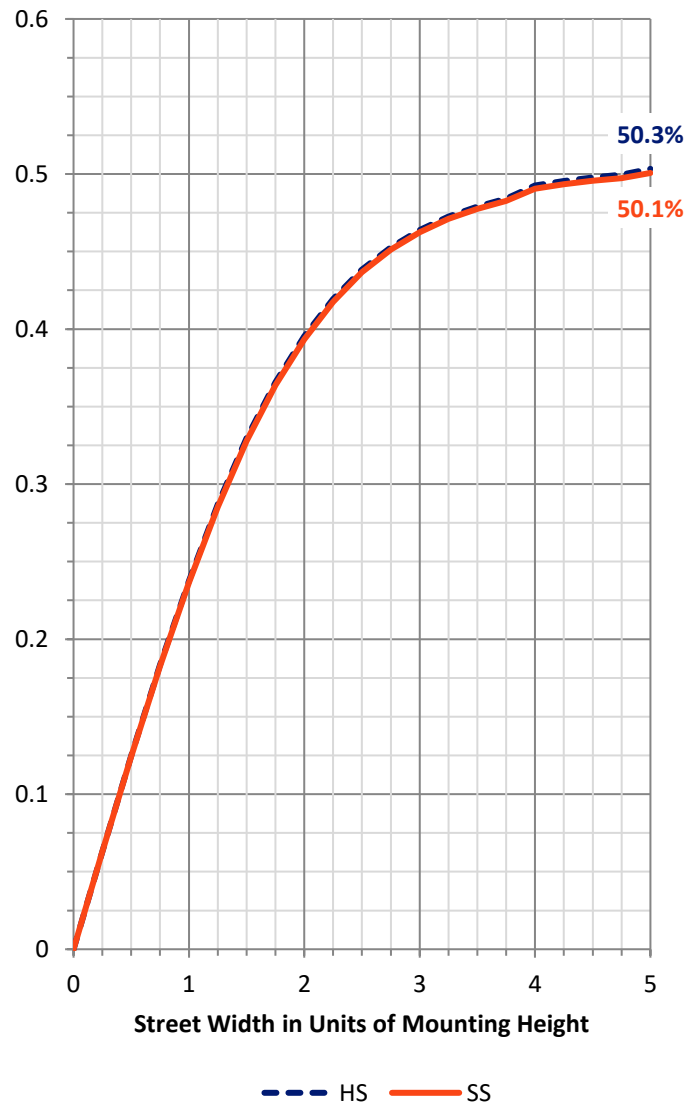
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23258.5	0.0	23258.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23258.5	0.0	23258.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	46517.0	0.0	46517.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.1	0.6
10°-20°	936.0	2.0
20°-30°	1810.7	3.9
30°-40°	3158.7	6.8
40°-50°	5606.9	12.1
50°-60°	9657.0	20.8
60°-70°	14341.9	30.8
70°-80°	10064.4	21.6
80°-90°	649.2	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°	46517.0	100.0
0°-180°	46517.0	100.0



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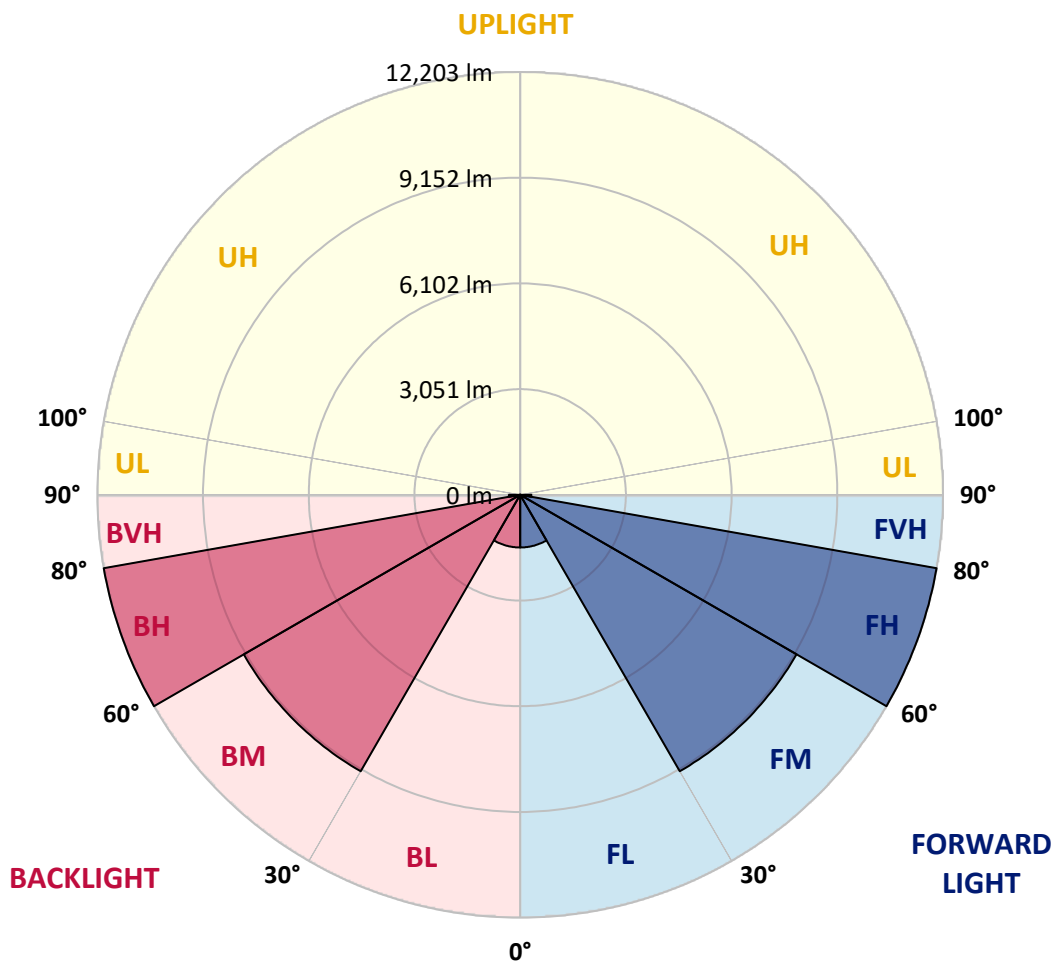
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1519.4	3.3			
FM	(30°-60°)	9211.3	19.8			
FH	(60°-80°)	12203.1	26.2			G5
FVH	(80°-90°)	324.6	0.7			G3/500
BL	(0°-30°)	1519.4	3.3	B3/2500		
BM	(30°-60°)	9211.3	19.8	B5		
BH	(60°-80°)	12203.1	26.2	B5		G5
BVH	(80°-90°)	324.6	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°	3034.2
2.5°	3038.4
5°	3041.2
7.5°	3057.8
10°	3099.3
12.5°	3164.4
15°	3258.6
17.5°	3383.2
20°	3528.6
22.5°	3692.1
25°	3873.5
27.5°	4074.3
30°	4306.9
32.5°	4592.2
35°	4946.7
37.5°	5371.9
40°	5855.2
42.5°	6447.9
45°	7139.0
47.5°	7904.8
50°	8763.4
52.5°	9712.1
55°	10709.2
57.5°	11728.4
60°	12743.5
62.5°	13737.9
65°	14884.5
67.5°	15518.8
70°	14435.8
72.5°	12466.6
75°	9982.1
77.5°	6979.7
80°	3139.5
82.5°	571.9
85°	174.5
87.5°	76.2
90°	0.0

(END OF REPORT)