

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: P256607

Luminaire Tested: **CST-10-9-D-U-T5R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256607
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-10-9-D-U-T5R
Description: CELESTEON HIGH MAST LUMINAIRE
(10) 70 CRI, 4000K LEDS AND TYPE V ROUND OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 99729 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G5

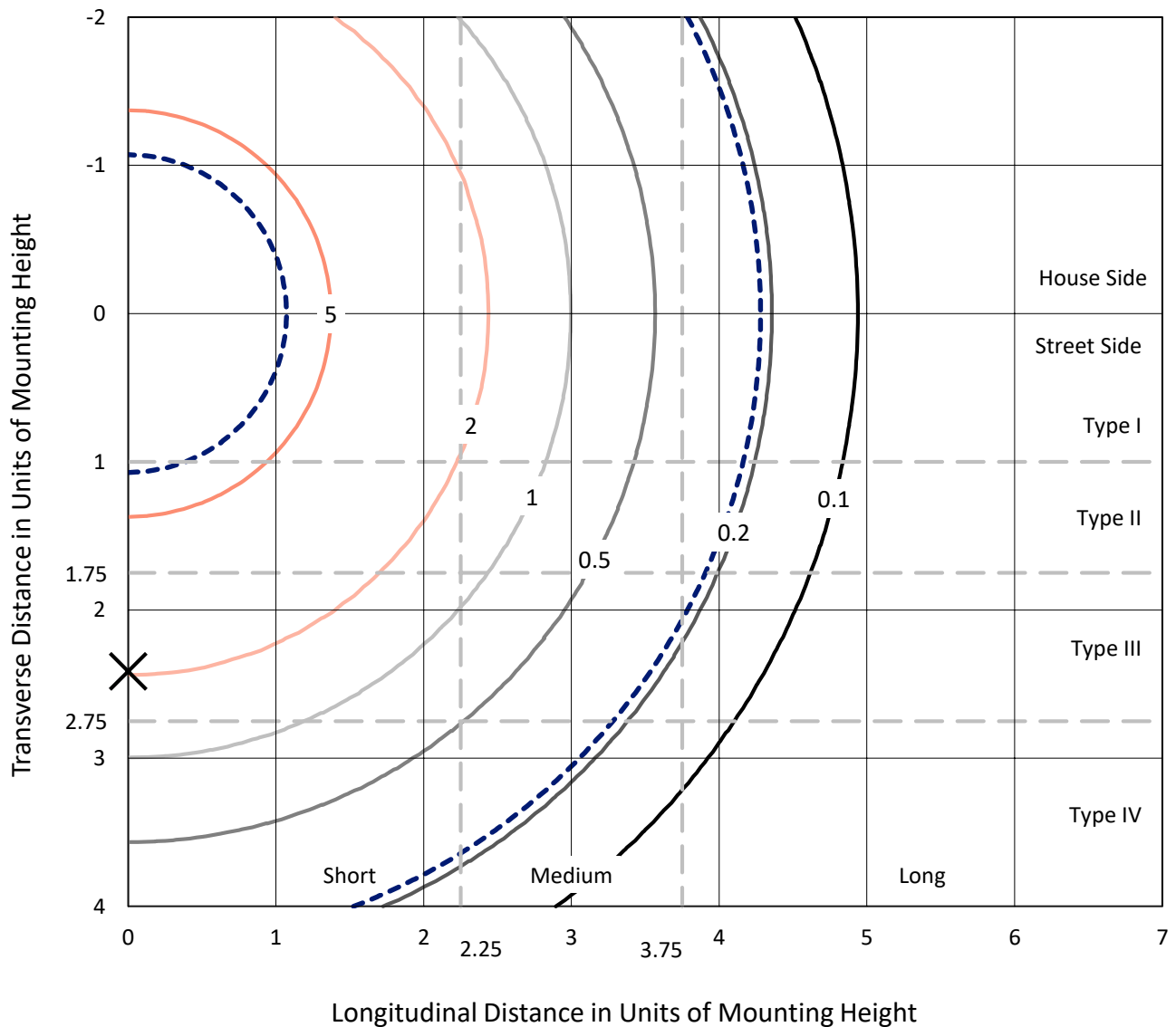
Input Watts (W): 760
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

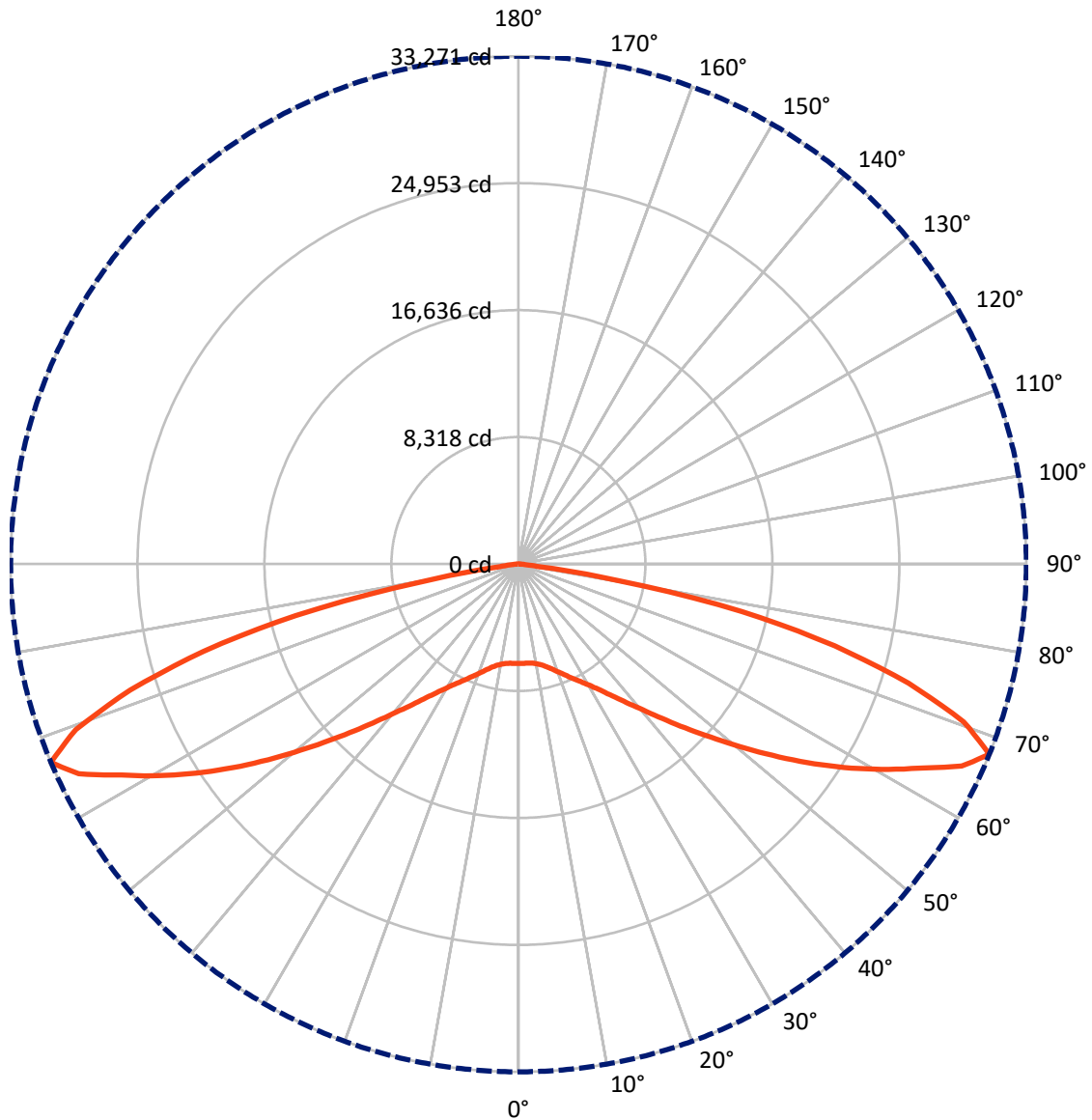
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 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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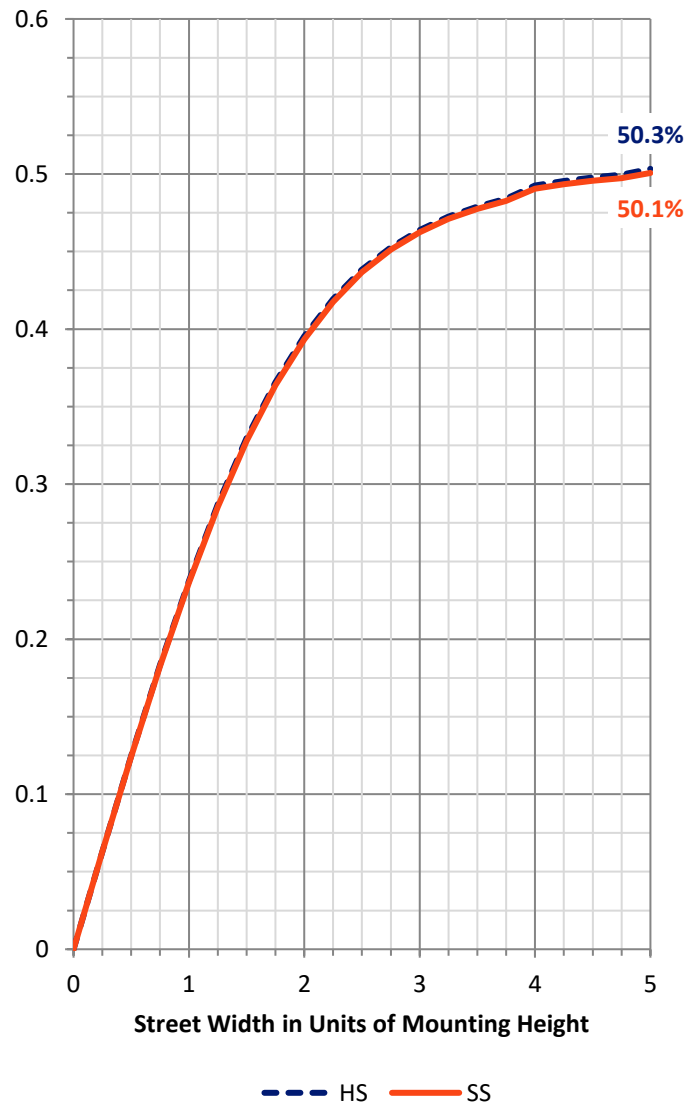
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	49864.5	0.0	49864.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	49864.5	0.0	49864.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	99729.0	0.0	99729.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	626.1	0.6
10°-20°	2006.8	2.0
20°-30°	3882.0	3.9
30°-40°	6772.0	6.8
40°-50°	12020.8	12.1
50°-60°	20704.0	20.8
60°-70°	30747.9	30.8
70°-80°	21577.4	21.6
80°-90°	1391.9	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°	99729.0	100.0
0°-180°	99729.0	100.0



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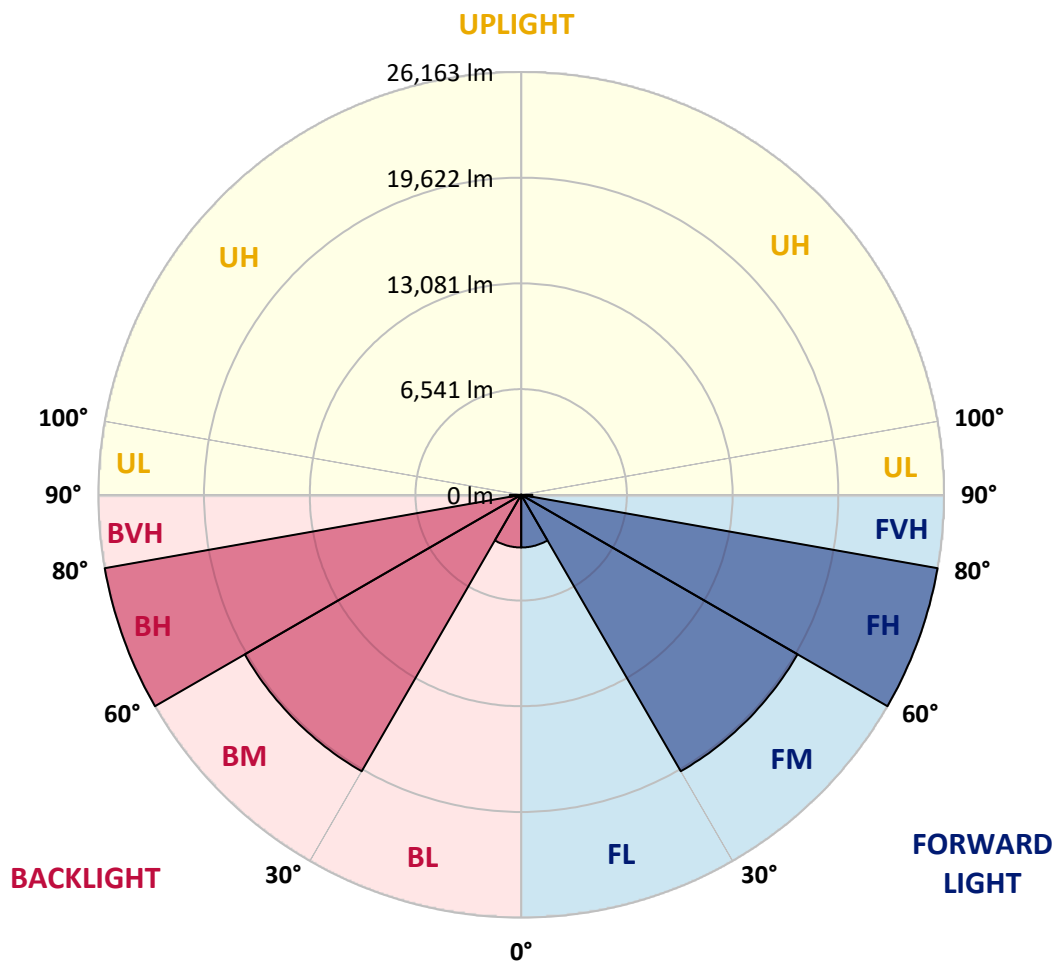
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3257.5	3.3			
FM (30°-60°)	19748.4	19.8			
FH (60°-80°)	26162.7	26.2			G5
FVH (80°-90°)	695.9	0.7			G4/750
BL (0°-30°)	3257.5	3.3	B4/5000		
BM (30°-60°)	19748.4	19.8	B5		
BH (60°-80°)	26162.7	26.2	B5		G5
BVH (80°-90°)	695.9	0.7			G4/750
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°	6505.2
2.5°	6514.1
5°	6520.0
7.5°	6555.7
10°	6644.7
12.5°	6784.3
15°	6986.2
17.5°	7253.4
20°	7565.1
22.5°	7915.5
25°	8304.4
27.5°	8734.9
30°	9233.7
32.5°	9845.4
35°	10605.4
37.5°	11516.9
40°	12553.1
42.5°	13823.9
45°	15305.4
47.5°	16947.3
50°	18788.1
52.5°	20821.9
55°	22959.7
57.5°	25144.9
60°	27321.2
62.5°	29453.0
65°	31911.3
67.5°	33271.2
70°	30949.4
72.5°	26727.4
75°	21400.9
77.5°	14964.0
80°	6730.8
82.5°	1226.2
85°	374.1
87.5°	163.3
90°	0.0

(END OF REPORT)