

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: P256615

Luminaire Tested: **CST-10-9-D-U-T5R-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256615
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-7050
Description: CELESTEON HIGH MAST LUMINAIRE
(10) 70 CRI, 5000K LEDS AND TYPE V ROUND OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 100735 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G5

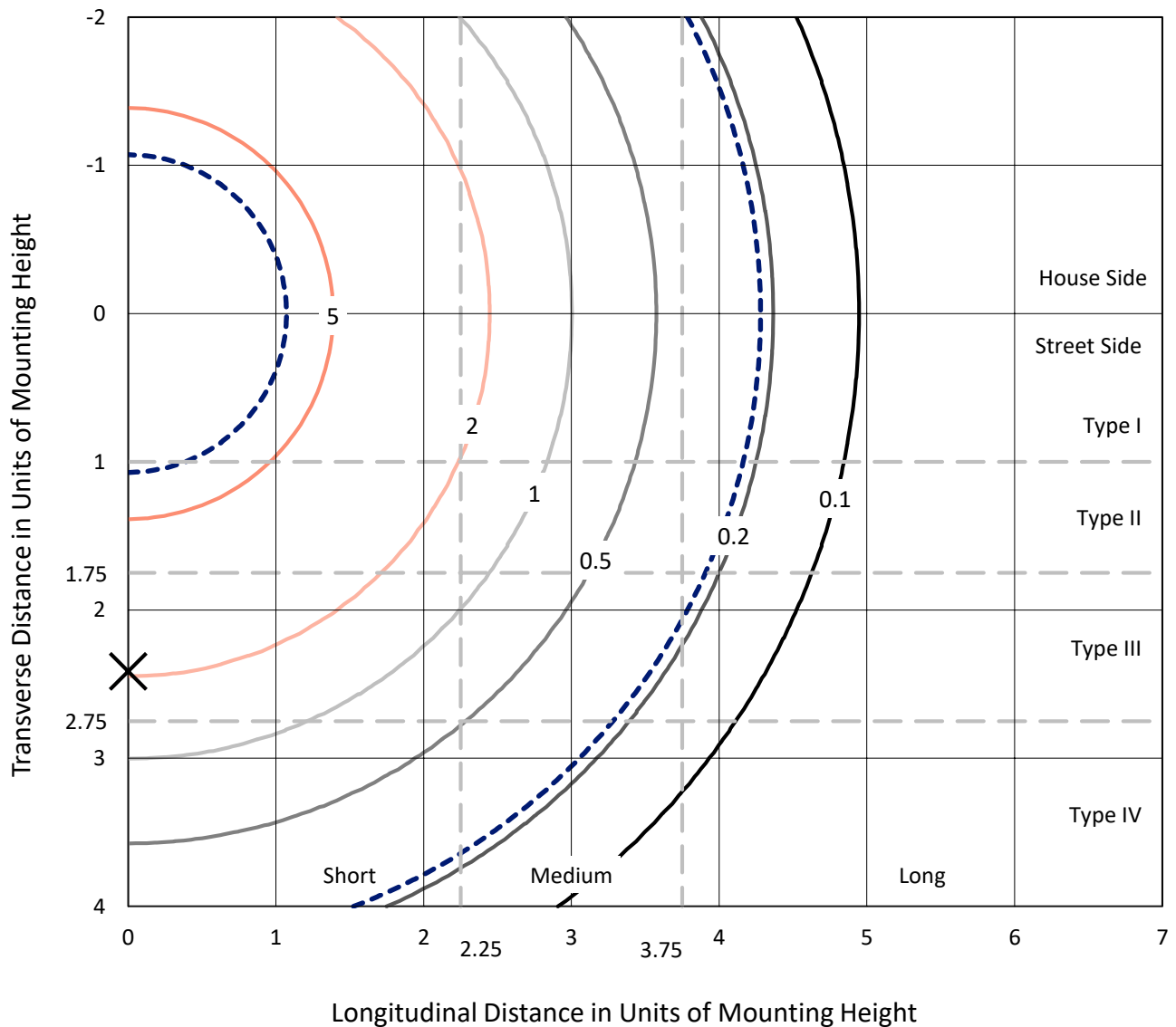
Input Watts (W): 760
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

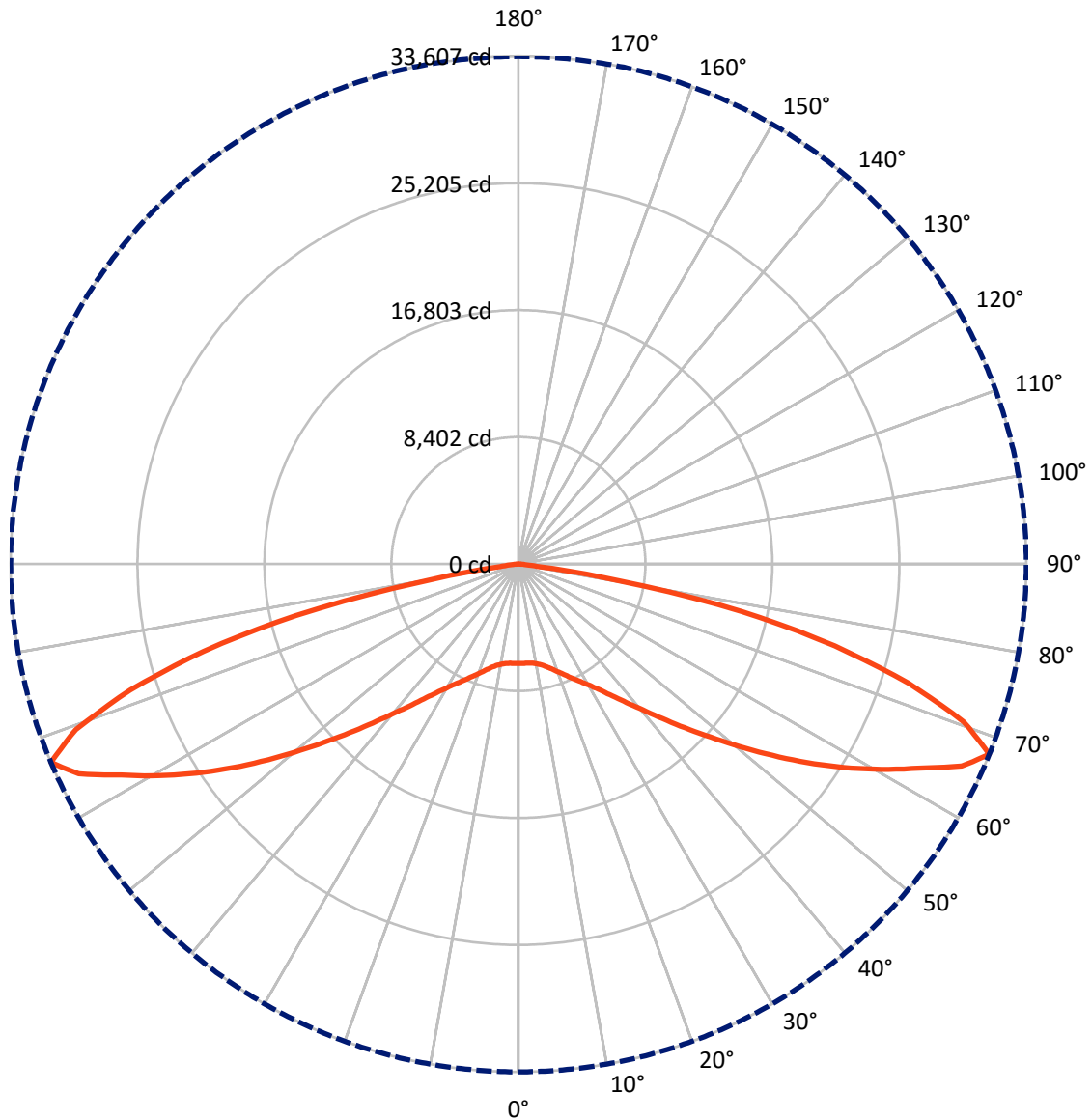


Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - Full Cutoff

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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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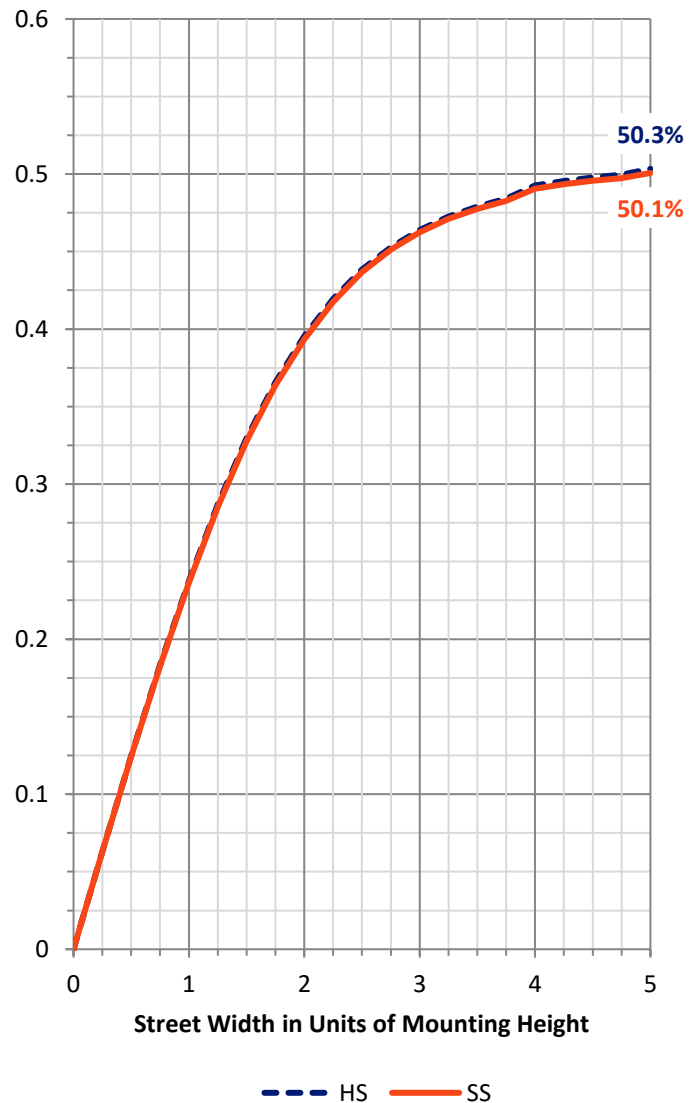
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	50367.5	0.0	50367.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	50367.5	0.0	50367.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	100735.0	0.0	100735.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.5	0.6
10°-20°	2027.0	2.0
20°-30°	3921.2	3.9
30°-40°	6840.4	6.8
40°-50°	12142.1	12.1
50°-60°	20912.8	20.8
60°-70°	31058.1	30.8
70°-80°	21795.1	21.6
80°-90°	1405.9	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°	100735.0	100.0
0°-180°	100735.0	100.0



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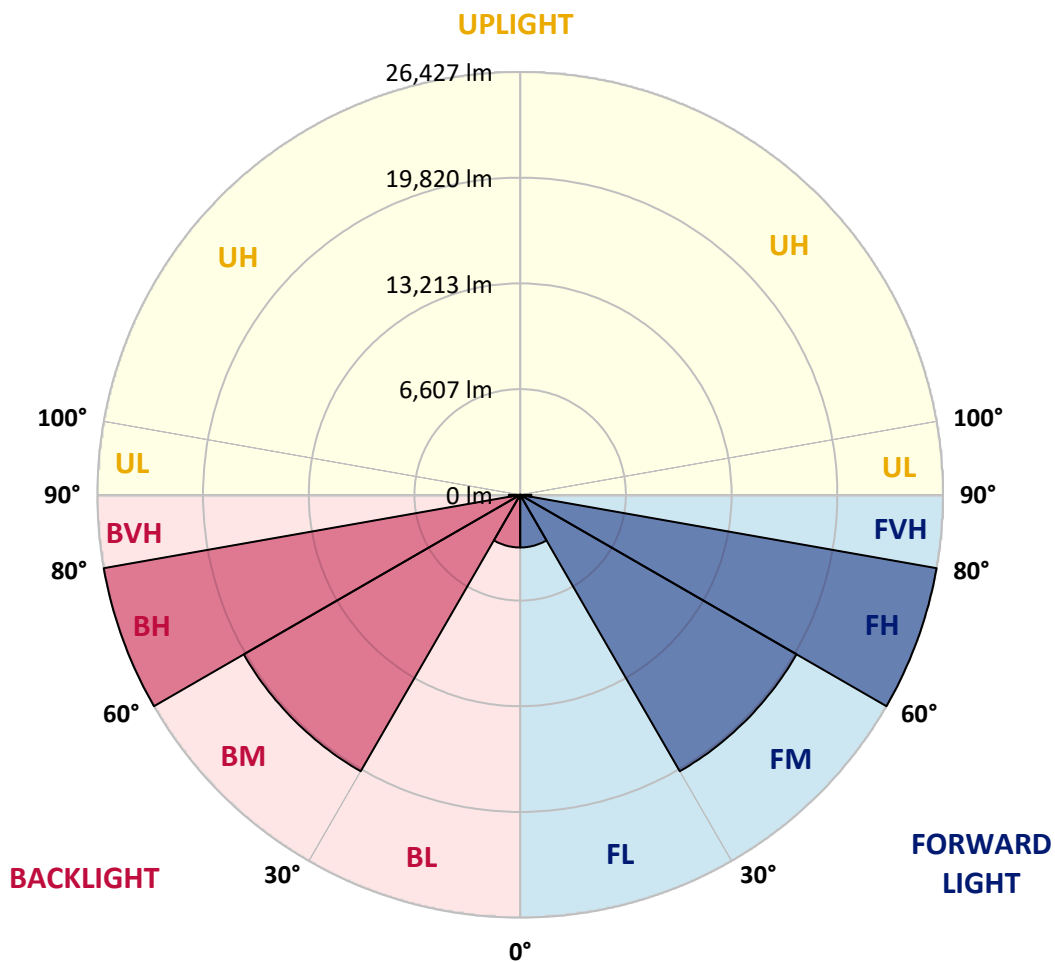
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3290.3	3.3			
FM (30°-60°)	19947.6	19.8			
FH (60°-80°)	26426.6	26.2			G5
FVH (80°-90°)	703.0	0.7			G4/750
BL (0°-30°)	3290.3	3.3	B4/5000		
BM (30°-60°)	19947.6	19.8	B5		
BH (60°-80°)	26426.6	26.2	B5		G5
BVH (80°-90°)	703.0	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°	6570.8
2.5°	6579.8
5°	6585.8
7.5°	6621.8
10°	6711.8
12.5°	6852.7
15°	7056.6
17.5°	7326.6
20°	7641.4
22.5°	7995.3
25°	8388.2
27.5°	8823.1
30°	9326.9
32.5°	9944.7
35°	10712.4
37.5°	11633.1
40°	12679.8
42.5°	13963.3
45°	15459.8
47.5°	17118.3
50°	18977.7
52.5°	21032.0
55°	23191.3
57.5°	25398.5
60°	27596.8
62.5°	29750.1
65°	32233.2
67.5°	33606.8
70°	31261.6
72.5°	26997.0
75°	21616.8
77.5°	15115.0
80°	6798.7
82.5°	1238.6
85°	377.9
87.5°	164.9
90°	0.0

(END OF REPORT)