

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: P256596

Luminaire Tested: **CST-10-4-D-U-T5R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256596
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-10-4-D-U-T5R-7030
Description: CELESTEON HIGH MAST LUMINAIRE
(10) 70 CRI, 3000K LEDS AND TYPE V ROUND OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45086 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

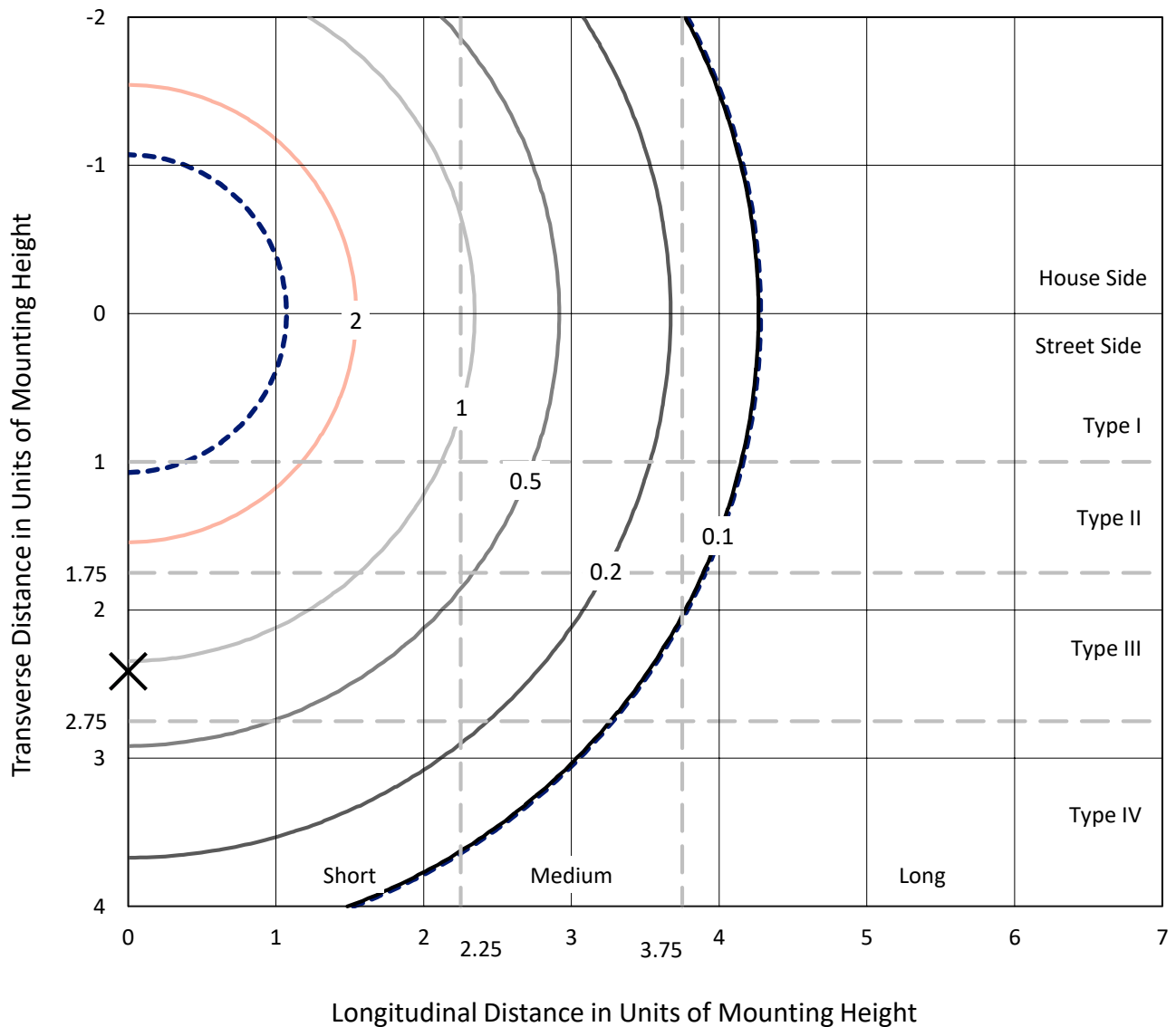
Input Watts (W): 308
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

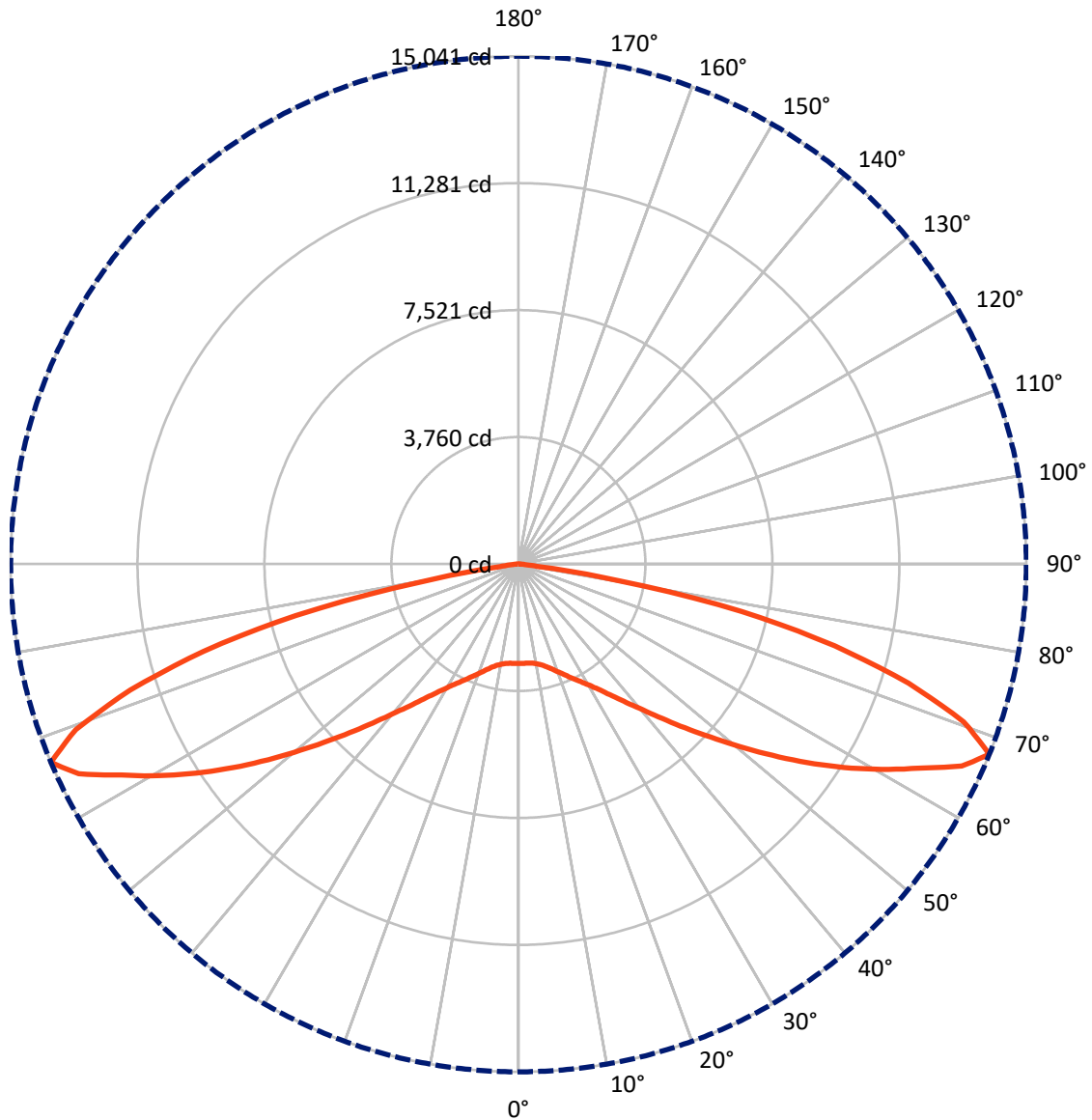


Based on 30 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Full Cutoff

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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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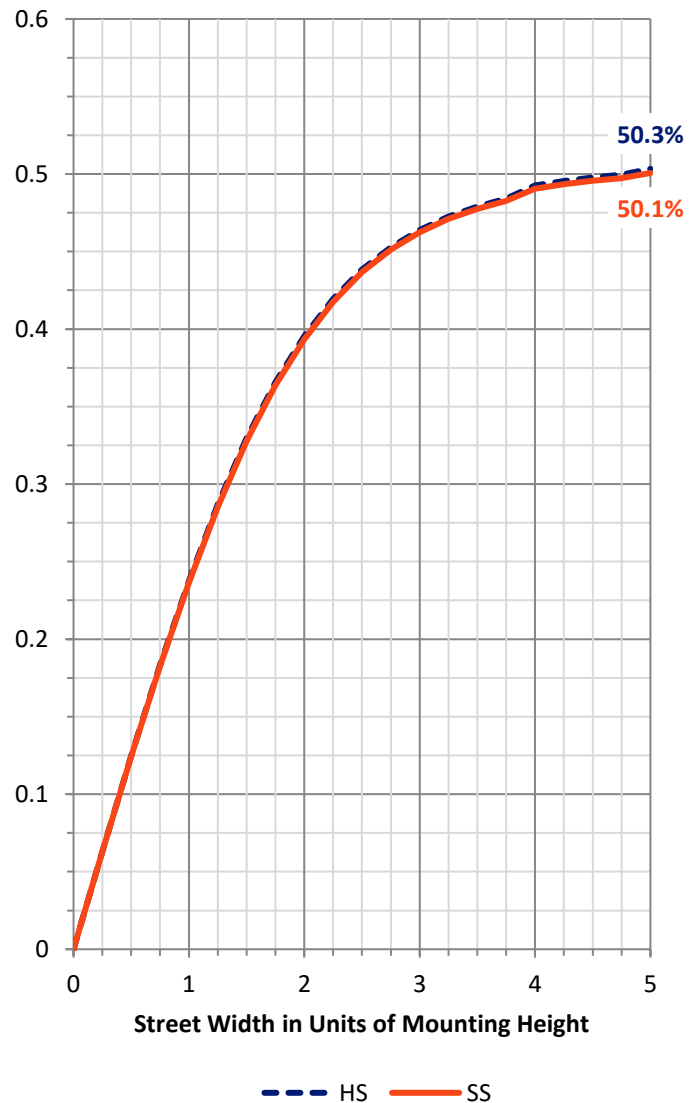
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22543.0	0.0	22543.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22543.0	0.0	22543.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	45086.0	0.0	45086.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.1	0.6
10°-20°	907.2	2.0
20°-30°	1755.0	3.9
30°-40°	3061.5	6.8
40°-50°	5434.4	12.1
50°-60°	9359.9	20.8
60°-70°	13900.7	30.8
70°-80°	9754.8	21.6
80°-90°	629.2	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°	45086.0	100.0
0°-180°	45086.0	100.0



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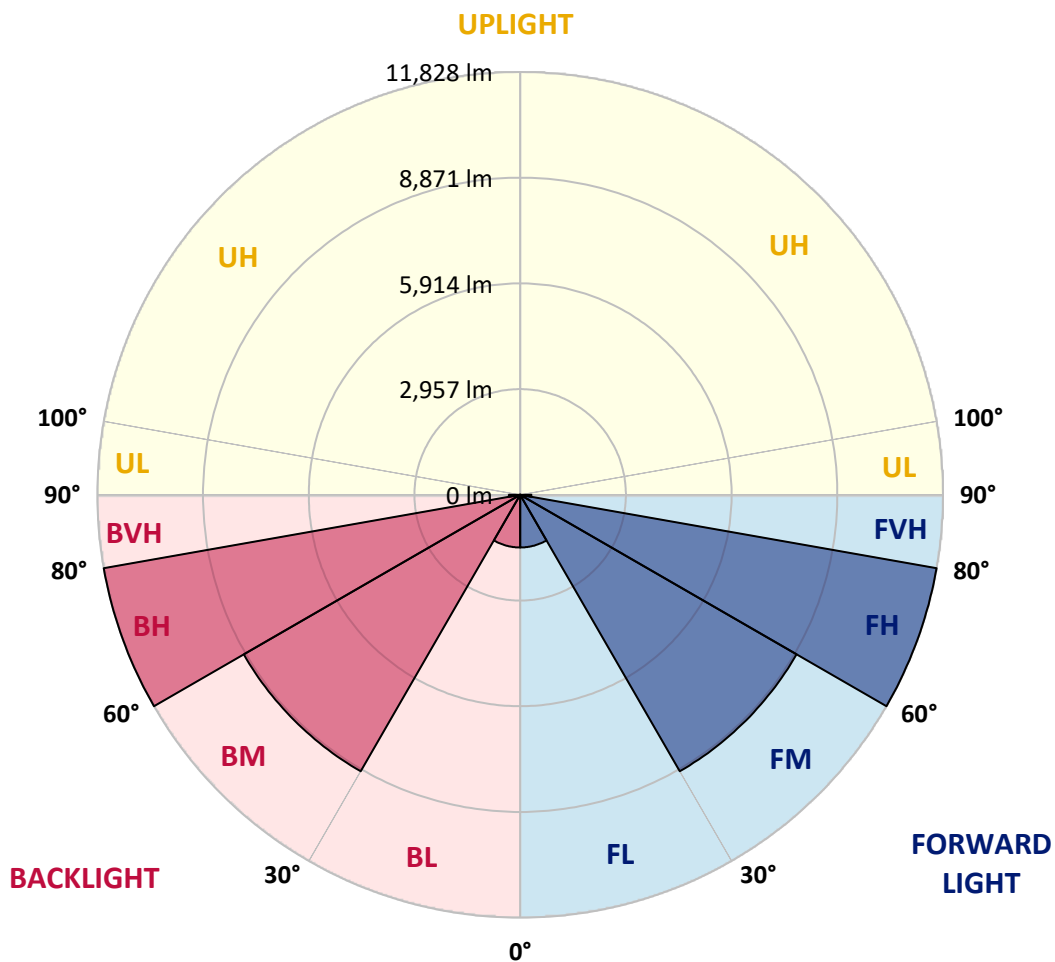
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1472.7	3.3			
FM	(30°-60°)	8928.0	19.8			
FH	(60°-80°)	11827.7	26.2			G4/12000
FVH	(80°-90°)	314.6	0.7			G3/500
BL	(0°-30°)	1472.7	3.3	B3/2500		
BM	(30°-60°)	8928.0	19.8	B5		
BH	(60°-80°)	11827.7	26.2	B5		G4/12000
BVH	(80°-90°)	314.6	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°
0°	2940.9
2.5°	2944.9
5°	2947.6
7.5°	2963.7
10°	3004.0
12.5°	3067.1
15°	3158.3
17.5°	3279.1
20°	3420.1
22.5°	3578.5
25°	3754.3
27.5°	3948.9
30°	4174.4
32.5°	4450.9
35°	4794.6
37.5°	5206.6
40°	5675.1
42.5°	6249.6
45°	6919.4
47.5°	7661.6
50°	8493.8
52.5°	9413.3
55°	10379.7
57.5°	11367.6
60°	12351.5
62.5°	13315.2
65°	14426.6
67.5°	15041.4
70°	13991.8
72.5°	12083.1
75°	9675.0
77.5°	6765.0
80°	3042.9
82.5°	554.4
85°	169.1
87.5°	73.8
90°	0.0

(END OF REPORT)