

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: P256598

Luminaire Tested: **CST-10-8-D-U-T5R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256598
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-10-8-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: 84520 lumens
Efficiency: N/A
Efficacy: 133.9 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): 631
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

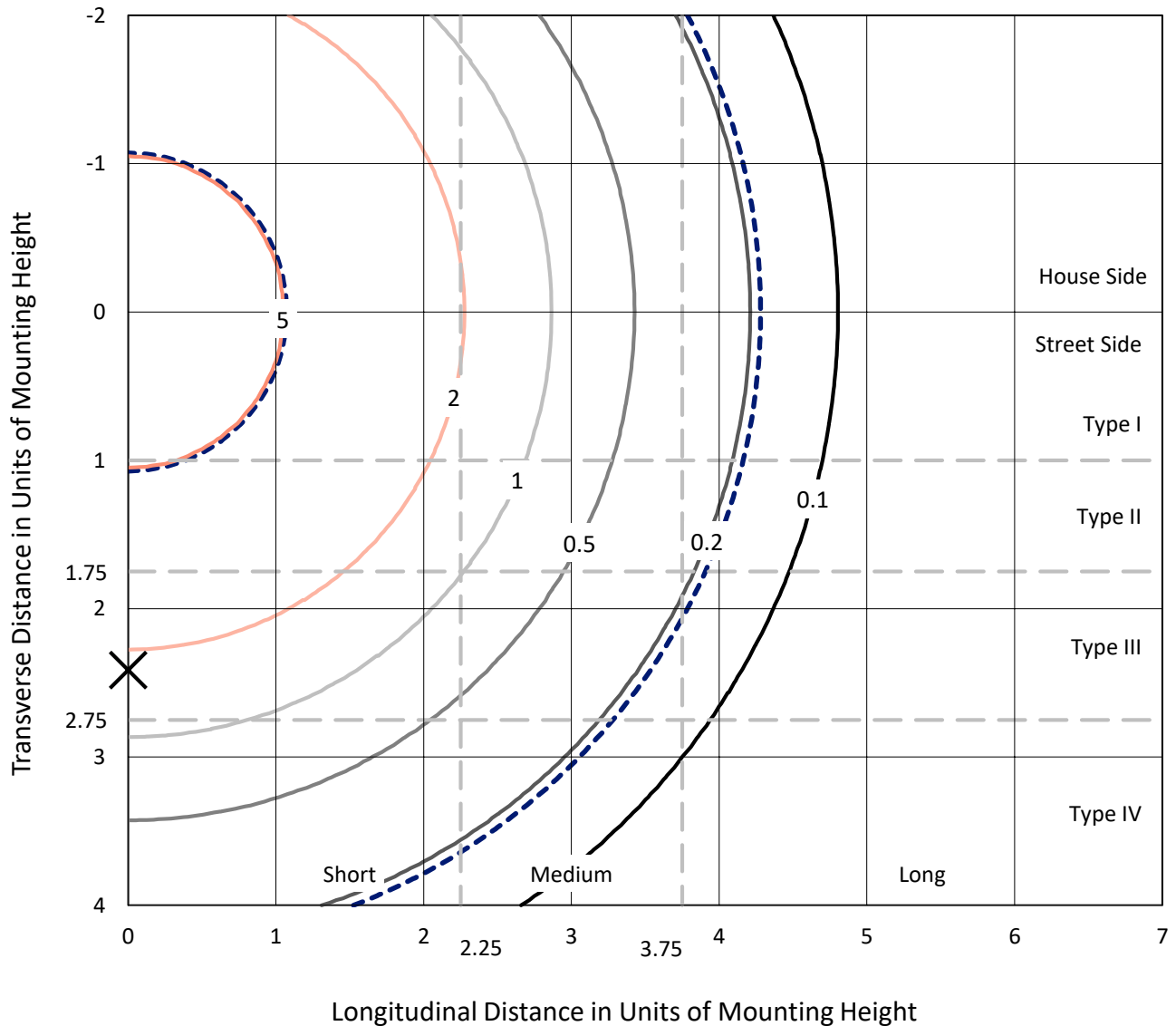


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

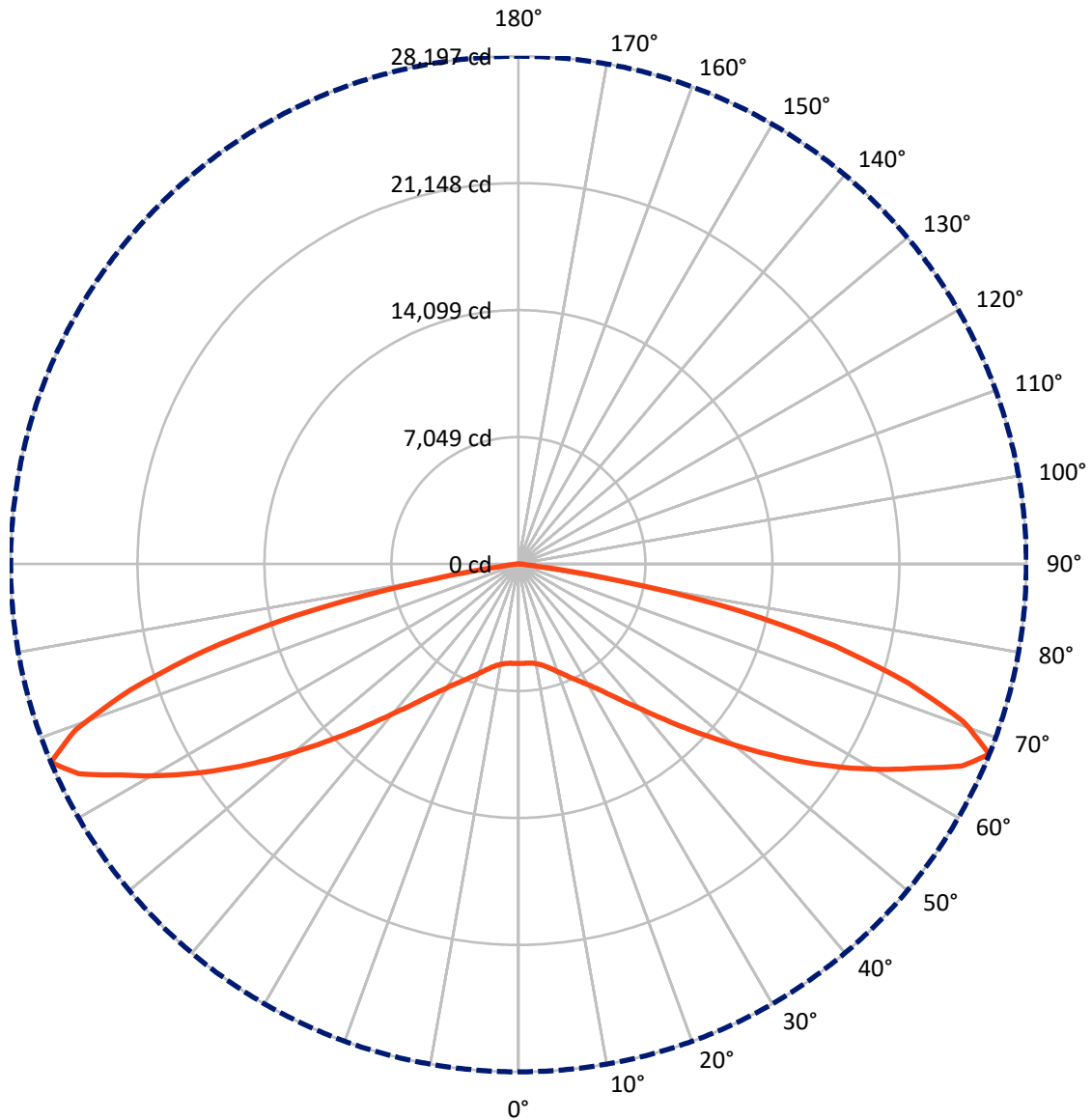


Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - Full Cutoff

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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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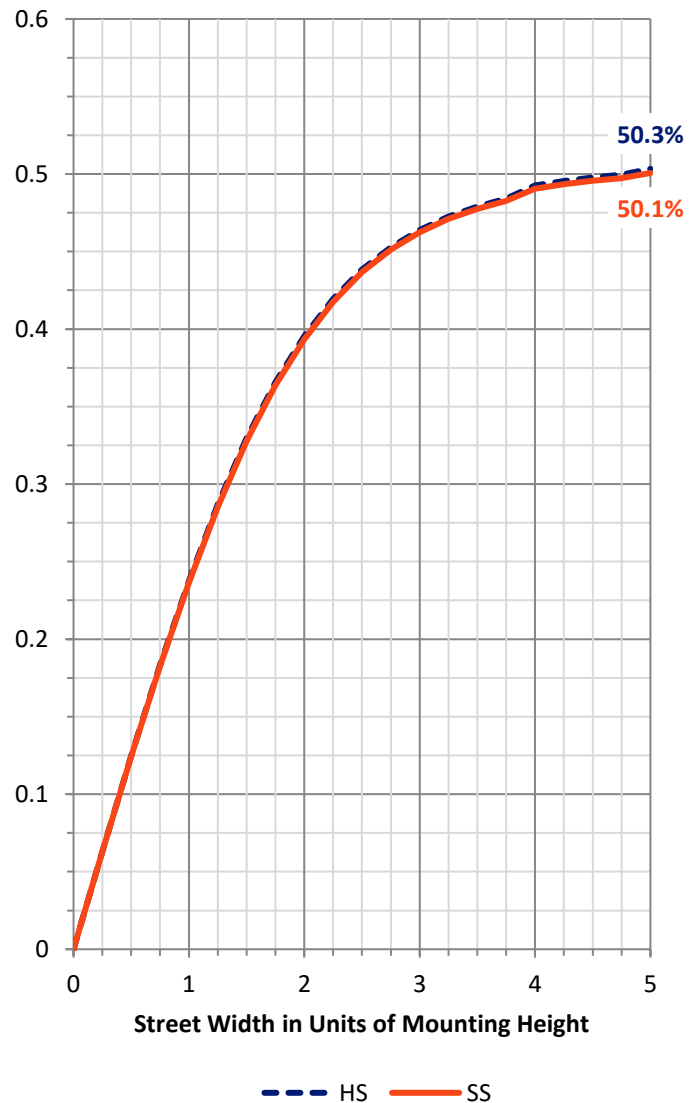
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	42260.0	0.0	42260.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	42260.0	0.0	42260.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	84520.0	0.0	84520.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.6	0.6
10°-20°	1700.7	2.0
20°-30°	3290.0	3.9
30°-40°	5739.3	6.8
40°-50°	10187.6	12.1
50°-60°	17546.5	20.8
60°-70°	26058.8	30.8
70°-80°	18286.8	21.6
80°-90°	1179.6	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°	84520.0	100.0
0°-180°	84520.0	100.0



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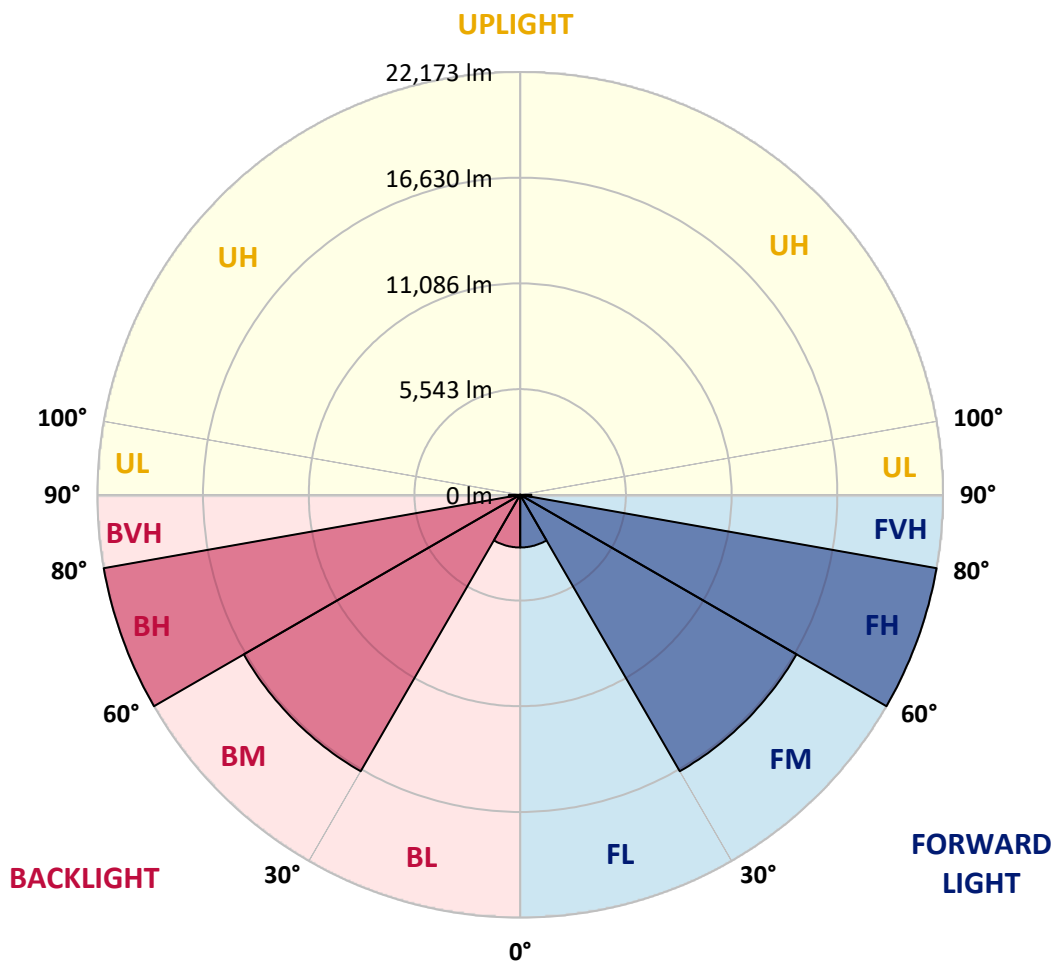
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2760.7	3.3			
FM (30°-60°)	16736.7	19.8			
FH (60°-80°)	22172.8	26.2			G5
FVH (80°-90°)	589.8	0.7			G4/750
BL (0°-30°)	2760.7	3.3	B4/5000		
BM (30°-60°)	16736.7	19.8	B5		
BH (60°-80°)	22172.8	26.2	B5		G5
BVH (80°-90°)	589.8	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°	5513.1
2.5°	5520.7
5°	5525.7
7.5°	5555.9
10°	5631.4
12.5°	5749.7
15°	5920.8
17.5°	6147.2
20°	6411.4
22.5°	6708.3
25°	7038.0
27.5°	7402.8
30°	7825.6
32.5°	8343.9
35°	8988.1
37.5°	9760.6
40°	10638.7
42.5°	11715.7
45°	12971.3
47.5°	14362.8
50°	15922.9
52.5°	17646.5
55°	19458.2
57.5°	21310.2
60°	23154.6
62.5°	24961.3
65°	27044.8
67.5°	28197.2
70°	26229.5
72.5°	22651.4
75°	18137.2
77.5°	12681.9
80°	5704.4
82.5°	1039.2
85°	317.0
87.5°	138.4
90°	0.0

(END OF REPORT)