

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: P256599

Luminaire Tested: **CST-10-9-D-U-T5R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256599
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-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: 97048 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G5

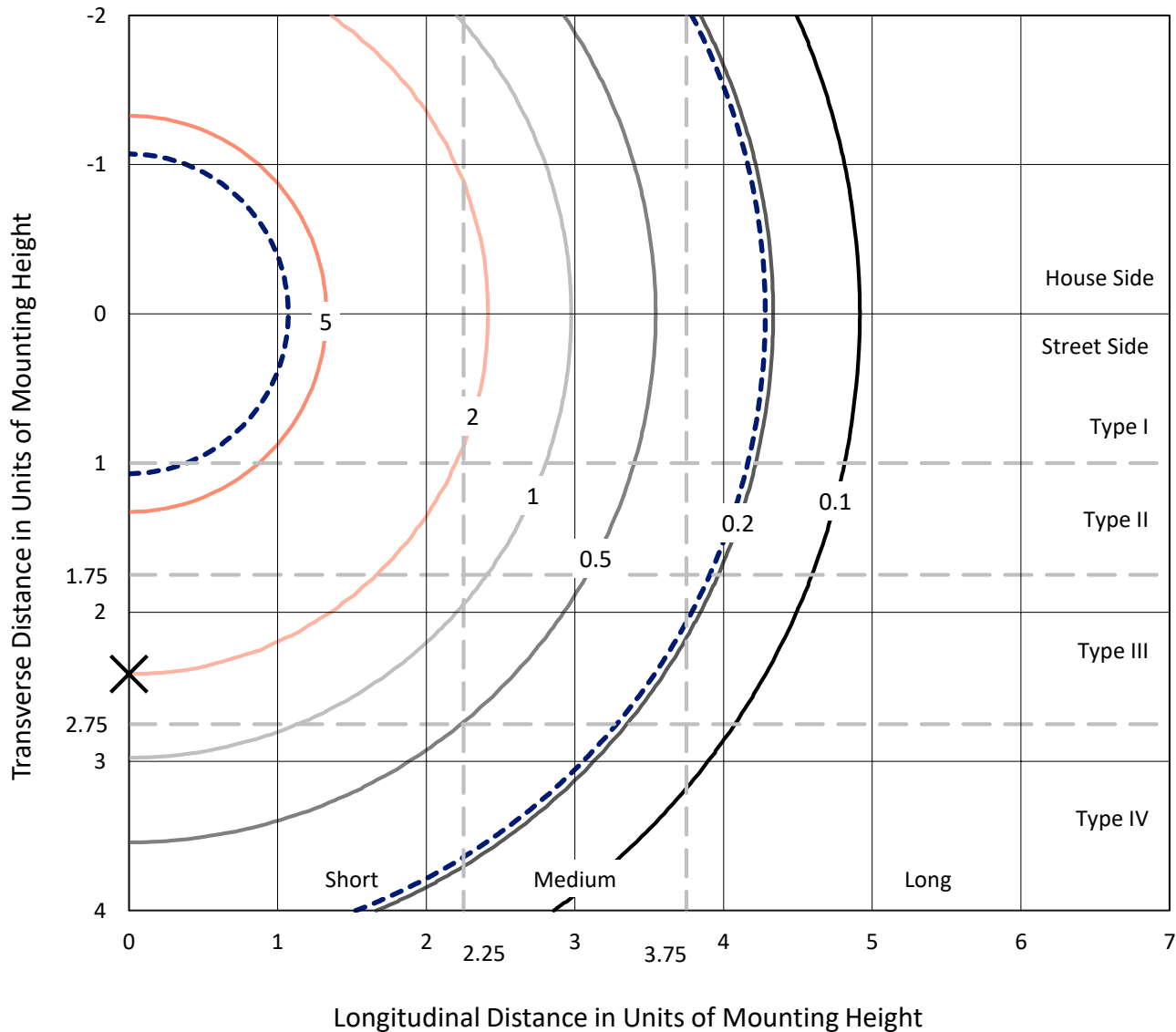
Input Watts (W): 760
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

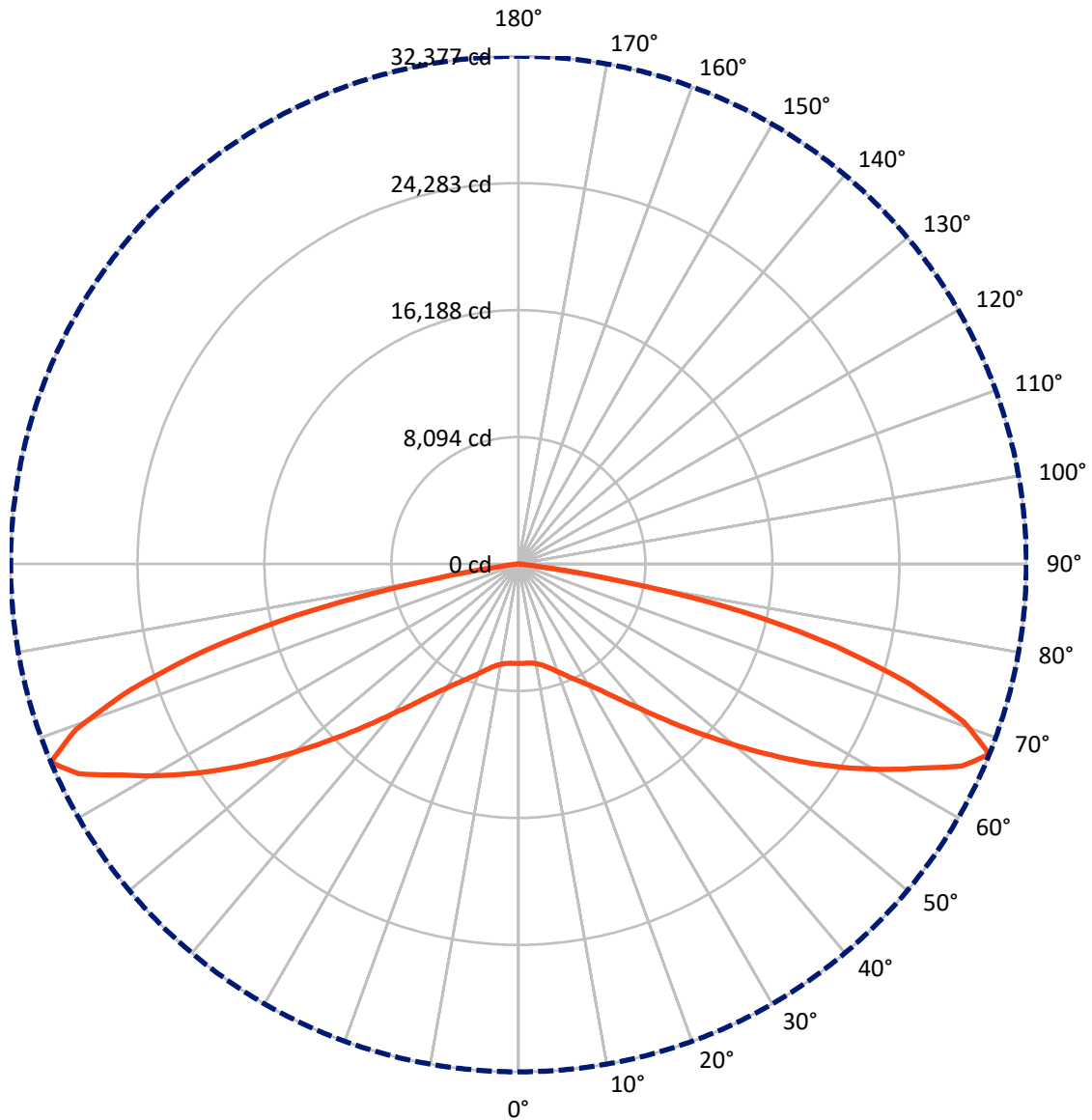


Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type V - Short - Full Cutoff

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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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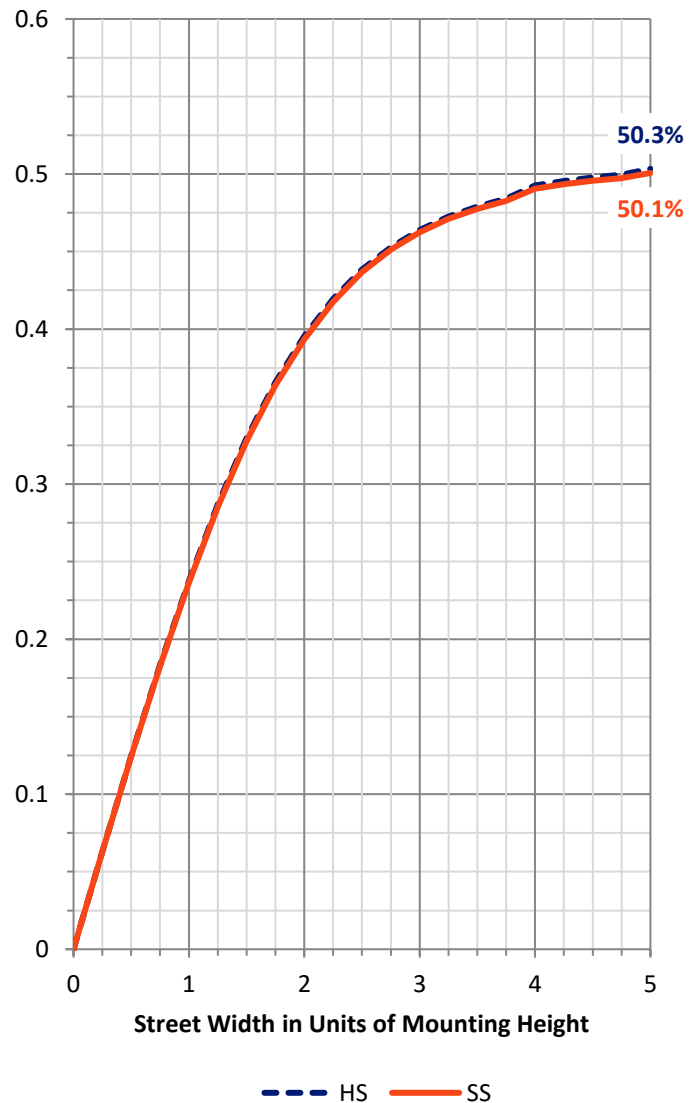
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	48524.0	0.0	48524.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	48524.0	0.0	48524.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	97048.0	0.0	97048.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.3	0.6
10°-20°	1952.8	2.0
20°-30°	3777.7	3.9
30°-40°	6590.0	6.8
40°-50°	11697.7	12.1
50°-60°	20147.4	20.8
60°-70°	29921.3	30.8
70°-80°	20997.3	21.6
80°-90°	1354.5	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°	97048.0	100.0
0°-180°	97048.0	100.0



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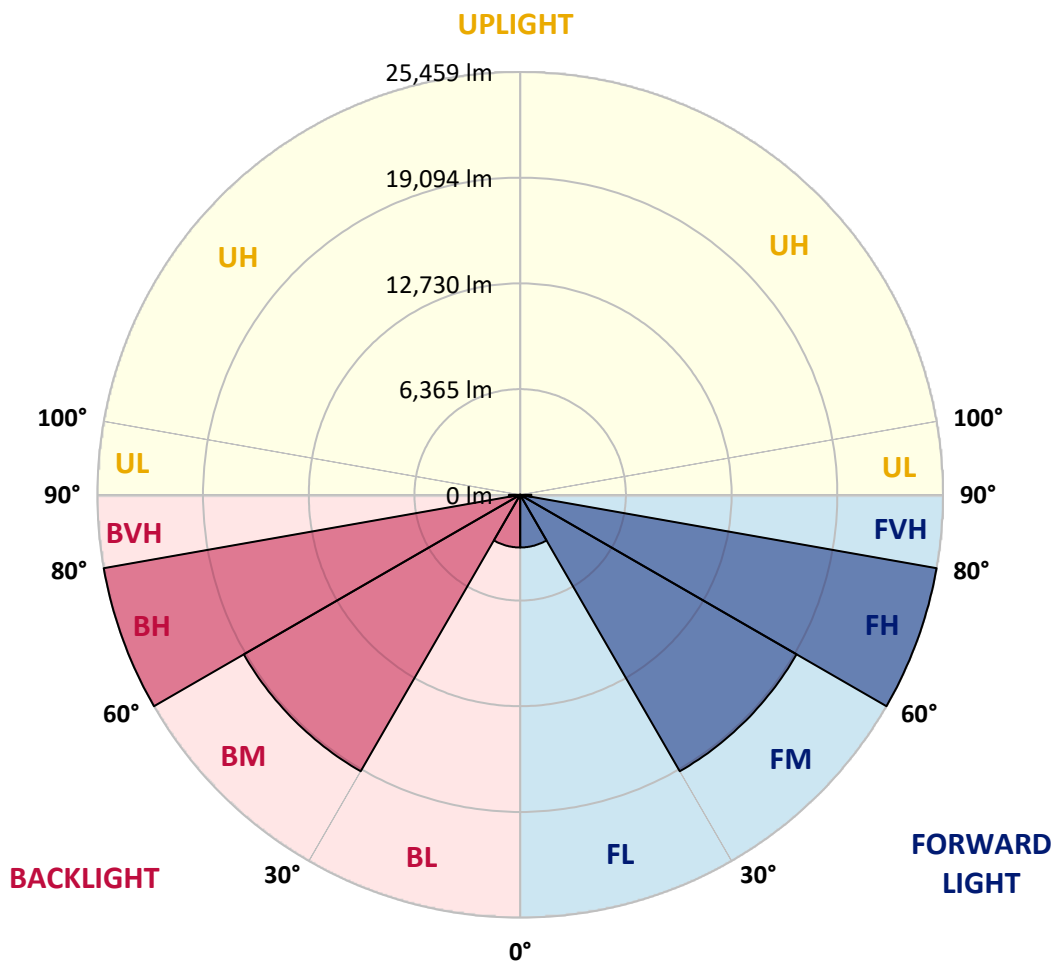
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3169.9	3.3			
FM	(30°-60°)	19217.5	19.8			
FH	(60°-80°)	25459.3	26.2			G5
FVH	(80°-90°)	677.2	0.7			G4/750
BL	(0°-30°)	3169.9	3.3	B4/5000		
BM	(30°-60°)	19217.5	19.8	B5		
BH	(60°-80°)	25459.3	26.2	B5		G5
BVH	(80°-90°)	677.2	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°	6330.3
2.5°	6339.0
5°	6344.8
7.5°	6379.4
10°	6466.1
12.5°	6601.9
15°	6798.4
17.5°	7058.4
20°	7361.8
22.5°	7702.7
25°	8081.2
27.5°	8500.1
30°	8985.5
32.5°	9580.7
35°	10320.3
37.5°	11207.3
40°	12215.7
42.5°	13452.3
45°	14894.0
47.5°	16491.7
50°	18283.1
52.5°	20262.2
55°	22342.4
57.5°	24468.9
60°	26586.7
62.5°	28661.2
65°	31053.5
67.5°	32376.7
70°	30117.4
72.5°	26008.9
75°	20825.6
77.5°	14561.7
80°	6549.9
82.5°	1193.3
85°	364.0
87.5°	158.9
90°	0.0

(END OF REPORT)