

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: P256597

Luminaire Tested: **CST-8-6-D-U-T5R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256597
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-8-6-D-U-T5R-7030
Description: CELESTEON HIGH MAST LUMINAIRE
(8) 70 CRI, 3000K LEDS AND TYPE V ROUND OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65692 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G5

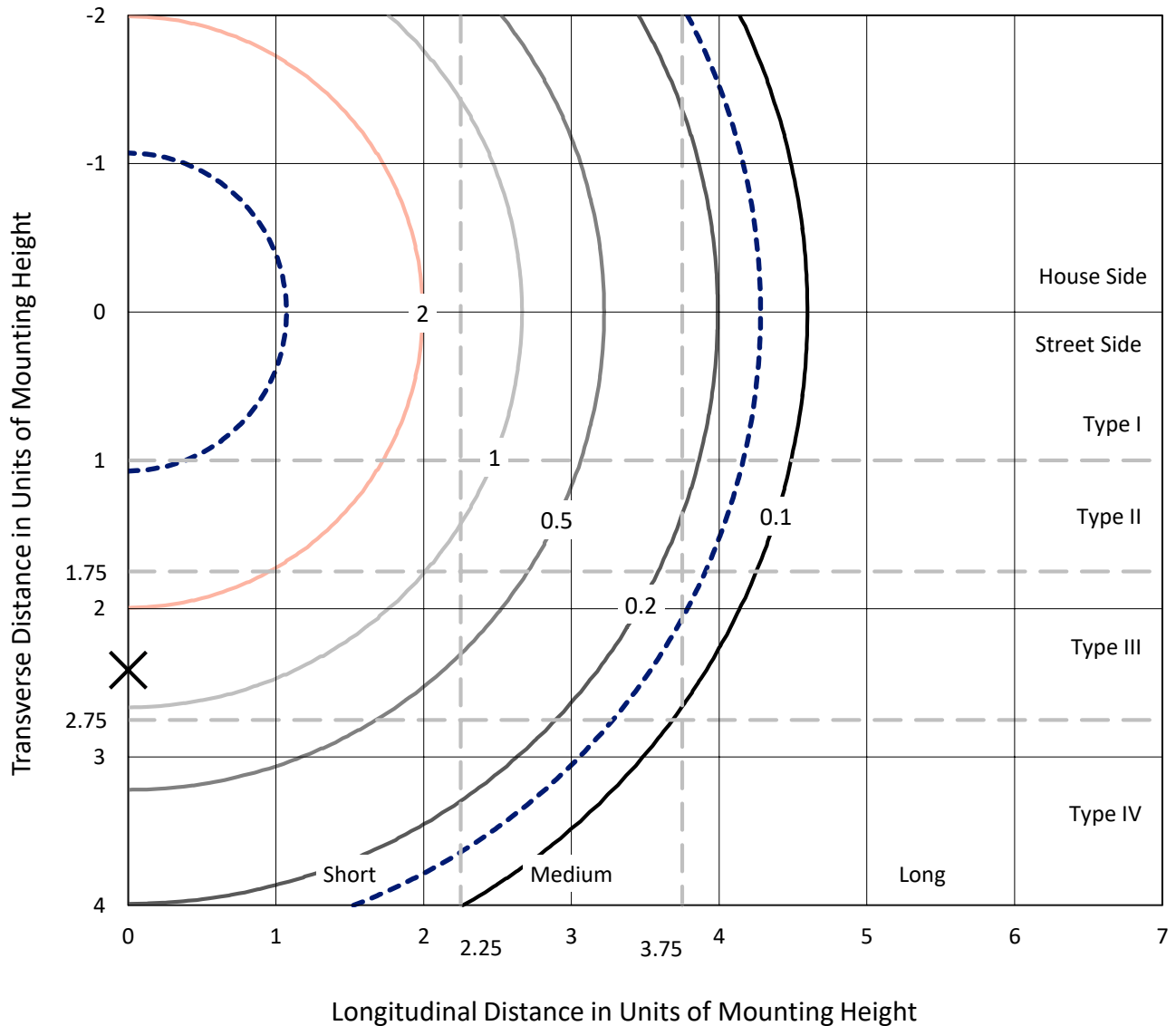
Input Watts (W): 477
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

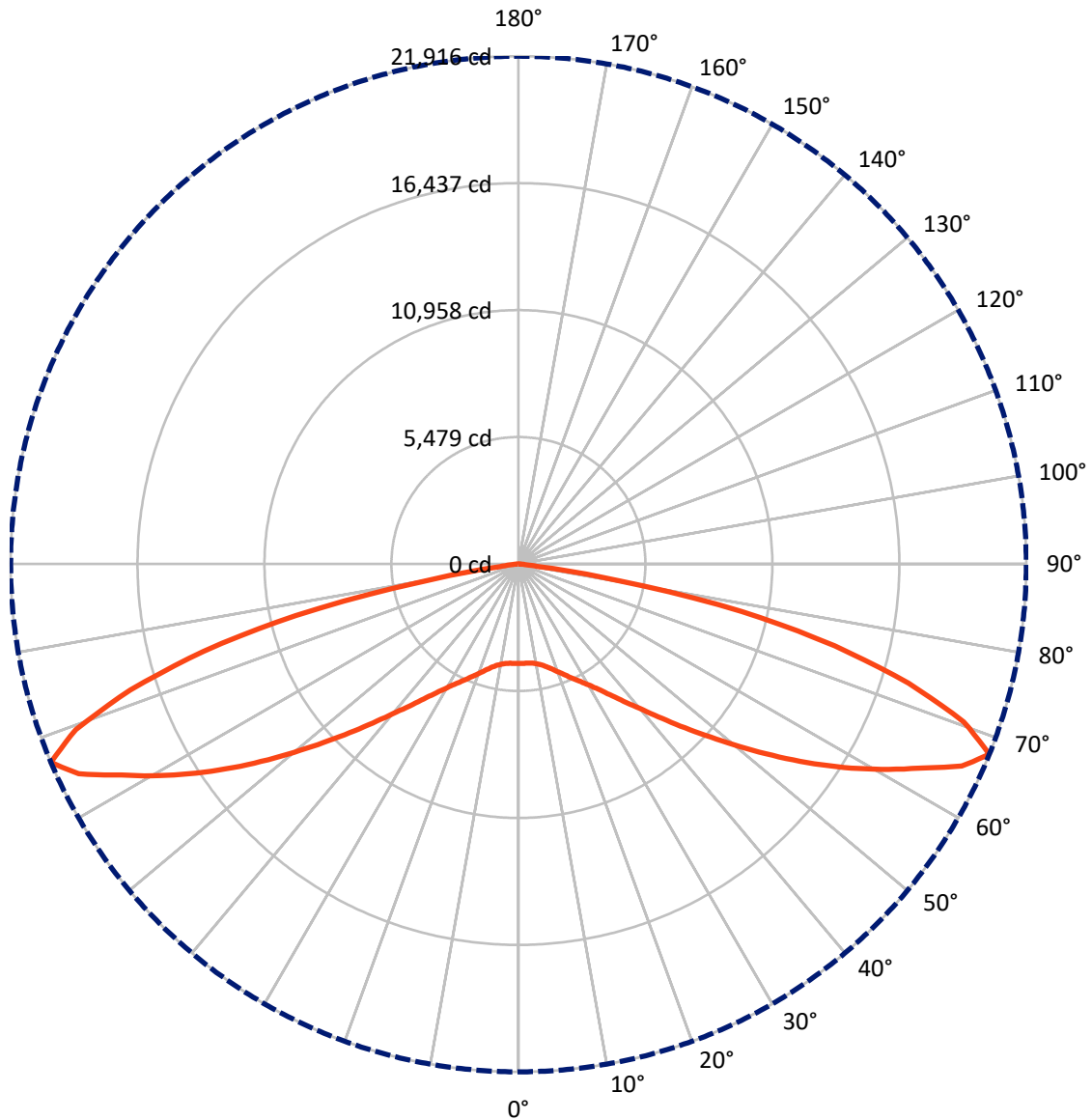


Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - Full Cutoff

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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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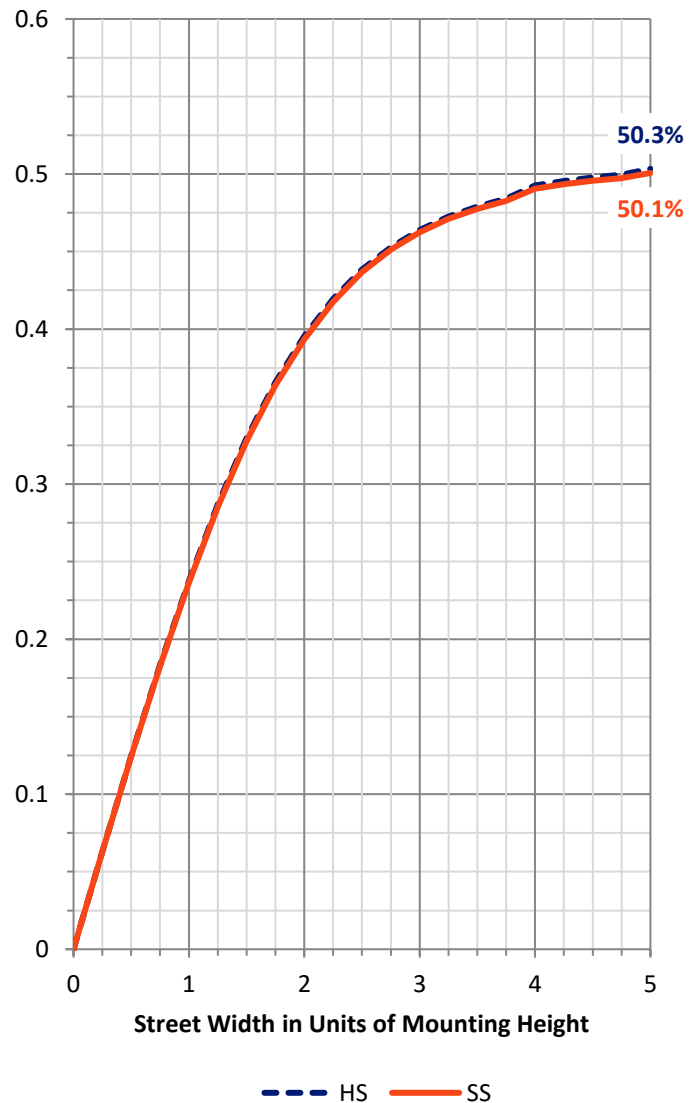
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32846.0	0.0	32846.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	32846.0	0.0	32846.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	65692.0	0.0	65692.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.4	0.6
10°-20°	1321.9	2.0
20°-30°	2557.1	3.9
30°-40°	4460.8	6.8
40°-50°	7918.2	12.1
50°-60°	13637.8	20.8
60°-70°	20253.8	30.8
70°-80°	14213.1	21.6
80°-90°	916.8	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°	65692.0	100.0
0°-180°	65692.0	100.0



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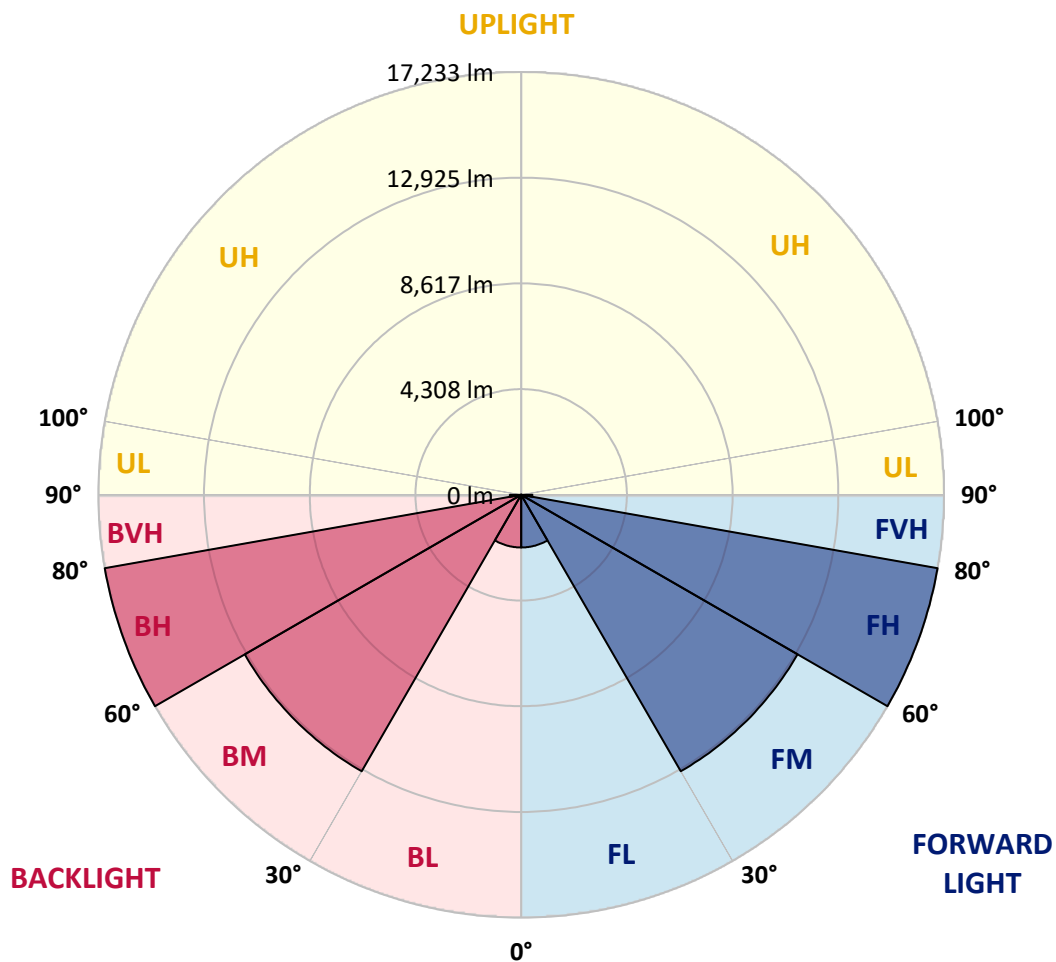
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2145.7	3.3			
FM	(30°-60°)	13008.4	19.8			
FH	(60°-80°)	17233.5	26.2			G5
FVH	(80°-90°)	458.4	0.7			G3/500
BL	(0°-30°)	2145.7	3.3	B3/2500		
BM	(30°-60°)	13008.4	19.8	B5		
BH	(60°-80°)	17233.5	26.2	B5		G5
BVH	(80°-90°)	458.4	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

0°	
0°	4285.0
2.5°	4290.9
5°	4294.8
7.5°	4318.2
10°	4376.9
12.5°	4468.8
15°	4601.8
17.5°	4777.8
20°	4983.2
22.5°	5214.0
25°	5470.2
27.5°	5753.8
30°	6082.3
32.5°	6485.2
35°	6985.9
37.5°	7586.3
40°	8268.8
42.5°	9105.9
45°	10081.8
47.5°	11163.3
50°	12375.8
52.5°	13715.5
55°	15123.6
57.5°	16563.1
60°	17996.6
62.5°	19400.8
65°	21020.2
67.5°	21915.9
70°	20386.5
72.5°	17605.5
75°	14096.9
77.5°	9856.9
80°	4433.6
82.5°	807.7
85°	246.4
87.5°	107.6
90°	0.0

(END OF REPORT)