

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: P233965

Luminaire Tested: **CST-10-4-D-U-T1-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233965  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-24)  
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-T1-7030  
Description: CELESTEON HIGH MAST LUMINAIRE  
(10) 70 CRI, 3000K LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44799 lumens  
Efficiency: N/A  
Efficacy: 145.5 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Medium - Semi-Cutoff  
BUG Rating: B5 - U0 - G4

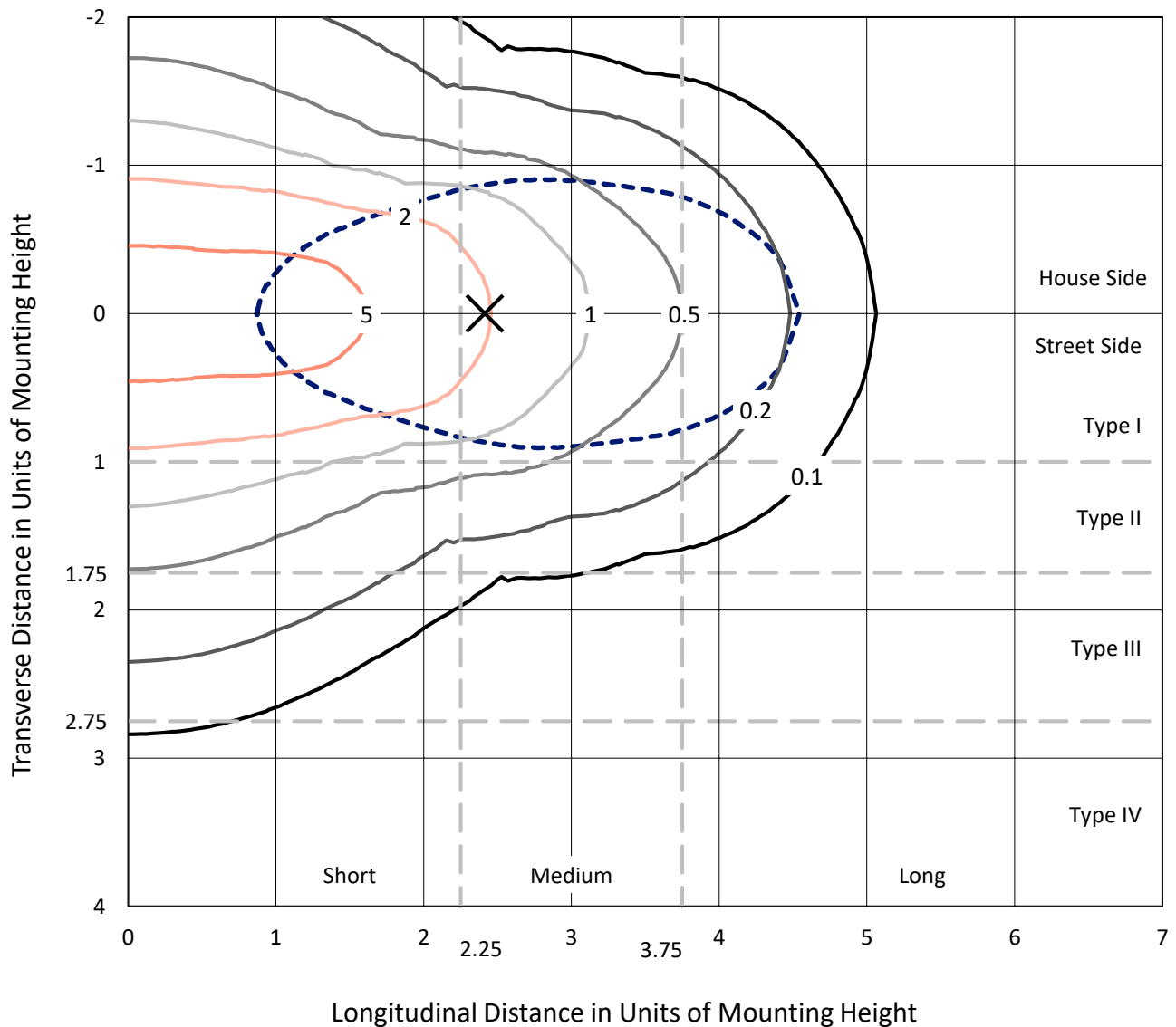
Input Watts (W): 308  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

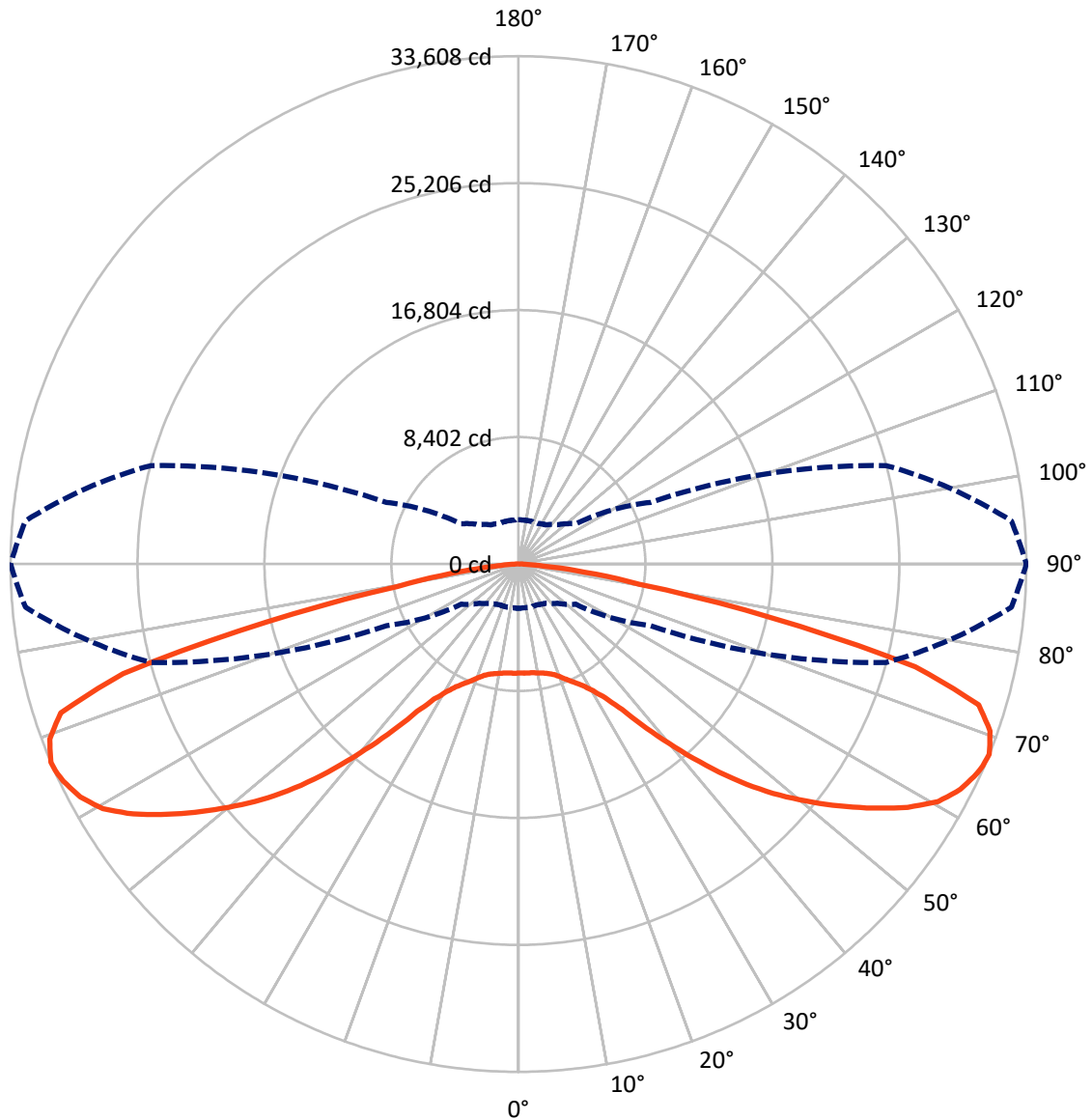
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 fc  
 Type V - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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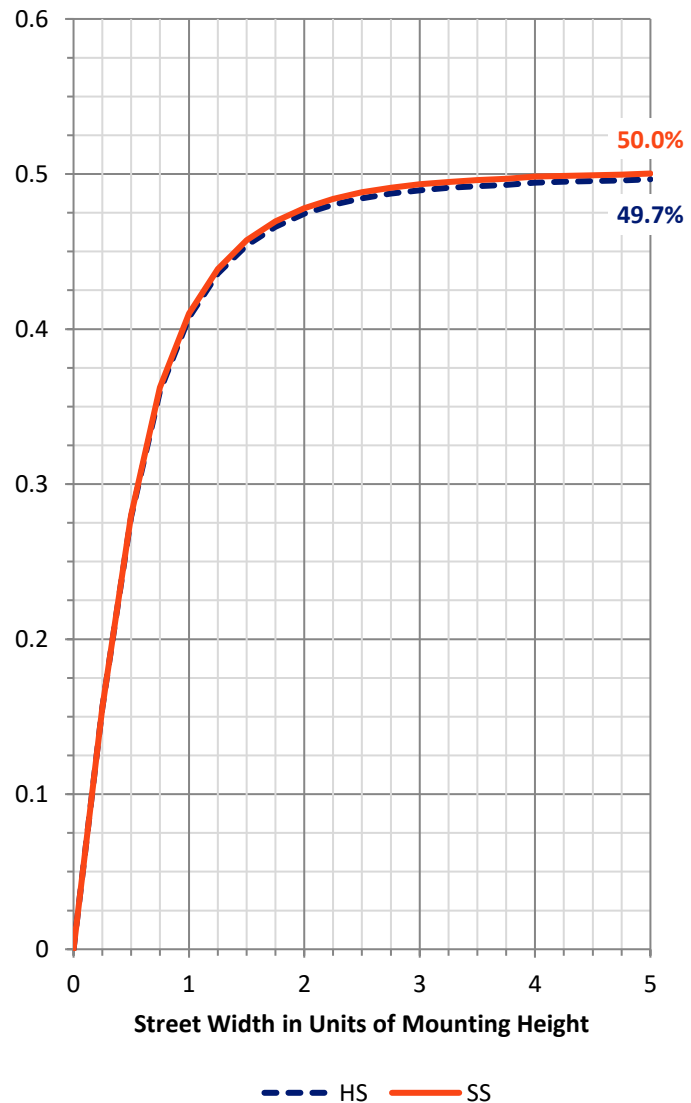
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22399.5	0.0	22399.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22399.5	0.0	22399.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	44799.0	0.0	44799.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	685.7	1.5
10°-20°	2040.1	4.6
20°-30°	3375.6	7.5
30°-40°	4945.9	11.0
40°-50°	7276.4	16.2
50°-60°	9435.7	21.1
60°-70°	10028.2	22.4
70°-80°	6190.4	13.8
80°-90°	821.1	1.8
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°	44799.0	100.0
0°-180°	44799.0	100.0

**Coefficient of Utilization**



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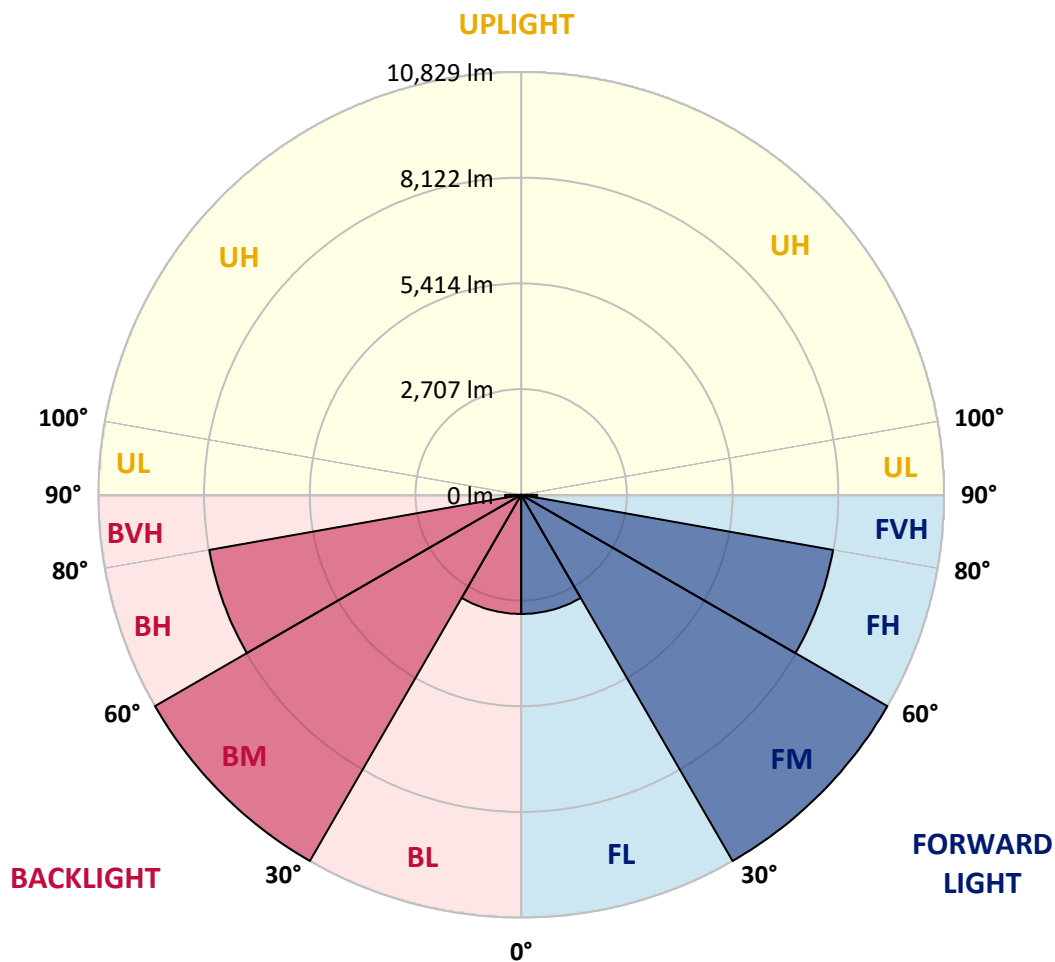
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3050.7	6.8			
FM	(30°-60°)	10829.0	24.2			
FH	(60°-80°)	8109.3	18.1			G4/12000
FVH	(80°-90°)	410.6	0.9			G3/500
BL	(0°-30°)	3050.7	6.8	B4/5000		
BM	(30°-60°)	10829.0	24.2	B5		
BH	(60°-80°)	8109.3	18.1	B5		G4/12000
BVH	(80°-90°)	410.6	0.9			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7214.5	7214.5	7214.5	7214.5	7214.5	7214.5	7214.5	7214.5	7214.5	7214.5	7214.5
2.5°	7234.7	7211.9	7221.3	7254.8	7132.7	7193.1	7171.6	7225.3	7197.1	7221.3	7233.3
5°	7183.7	7155.5	7168.9	7232.0	7120.6	7182.3	7166.2	7226.6	7190.4	7223.9	7237.4
7.5°	7139.4	7109.9	7134.0	7186.4	7101.8	7170.3	7156.8	7238.7	7209.2	7252.1	7265.6
10°	7111.2	7079.0	7101.8	7159.5	7069.6	7177.0	7164.9	7273.6	7258.8	7317.9	7334.0
12.5°	7041.4	7007.8	7023.9	7100.5	7060.2	7171.6	7201.1	7326.0	7321.9	7393.1	7410.5
15°	6916.6	6883.0	6904.5	7006.5	7021.3	7175.6	7266.9	7414.5	7438.7	7509.8	7524.6
17.5°	6759.5	6735.4	6767.6	6903.1	6995.8	7230.7	7362.2	7550.1	7609.2	7681.6	7701.8
20°	6544.8	6531.3	6589.1	6774.3	6951.5	7270.9	7476.3	7740.7	7848.1	7966.2	7981.0
22.5°	6252.2	6236.1	6356.9	6617.2	6872.3	7280.3	7587.7	7938.0	8136.7	8288.3	8327.3
25°	5923.3	5917.9	6083.0	6425.3	6764.9	7273.6	7696.4	8148.7	8452.1	8652.1	8695.0
27.5°	5599.8	5615.9	5815.9	6219.9	6676.3	7288.4	7821.2	8418.5	8846.7	9096.4	9115.2
30°	5324.7	5338.1	5554.2	6017.3	6591.7	7305.8	7975.6	8740.7	9338.0	9674.9	9729.9
32.5°	5065.6	5096.5	5316.6	5797.1	6497.8	7339.4	8175.6	9160.8	9940.6	10472.2	10540.6
35°	4852.2	4879.0	5093.8	5573.0	6348.8	7366.2	8440.0	9692.3	10838.6	11723.1	11829.2
37.5°	4662.9	4695.2	4880.4	5366.3	6171.6	7375.6	8703.1	10347.3	12054.7	13462.7	13792.9
40°	4526.0	4551.5	4711.3	5159.6	5981.0	7332.7	9003.8	11080.2	13421.1	15539.1	15901.5
42.5°	4413.3	4434.8	4566.3	4956.9	5766.3	7248.1	9284.3	11810.4	14865.3	17739.1	18211.5
45°	4299.2	4304.6	4430.7	4782.4	5548.8	7113.9	9495.0	12509.7	16386.1	19983.3	20536.3
47.5°	4197.2	4190.5	4289.8	4610.6	5315.3	6888.4	9576.9	13089.5	17863.9	22086.6	22690.6
50°	4101.9	4073.7	4159.6	4446.8	5088.4	6564.9	9473.5	13490.9	19418.2	24118.7	24654.3
52.5°	3959.6	3946.2	4028.1	4285.8	4861.6	6178.3	9132.6	13702.9	21075.9	26043.5	26603.2
55°	3832.1	3822.7	3907.3	4122.0	4638.8	5785.1	8544.7	13645.2	22709.4	27899.8	28519.9
57.5°	3691.2	3684.5	3763.6	3943.5	4393.2	5420.0	7817.2	13272.1	24168.4	29502.5	30378.9
60°	3552.9	3556.9	3607.9	3762.3	4143.5	5017.3	6987.7	12622.4	25332.1	30953.4	31910.4
62.5°	3391.8	3387.8	3425.4	3554.3	3857.6	4582.4	6170.3	11721.8	26014.0	32220.5	32832.6
65°	3174.4	3159.6	3202.6	3284.5	3511.3	4136.8	5364.9	10631.9	26031.4	32850.0	33370.8
66°	3081.8	3065.7	3104.6	3162.3	3375.7	3956.9	5068.3	10170.2	25764.3	32868.8	33515.8
67.5°	2938.2	2919.4	2944.9	2971.7	3163.7	3669.7	4633.4	9646.7	25179.1	32750.7	33608.4
70°	2581.1	2583.8	2610.7	2601.3	2699.2	3030.8	3826.7	8674.9	22356.4	32272.8	33111.7
72.5°	2009.3	1986.5	1947.6	1910.0	1957.0	2248.3	2897.9	7280.3	18306.8	30212.5	31843.3
75°	1296.6	1292.6	1291.2	1336.9	1343.6	1540.9	2238.9	5873.6	14270.7	24793.9	27141.5
77.5°	810.7	804.0	861.7	973.1	990.6	995.9	1468.4	4464.3	10316.5	15865.3	17096.1
80°	581.2	581.2	585.2	600.0	693.9	708.7	1014.7	2802.6	5866.9	7734.0	8125.9
82.5°	440.3	433.5	434.9	441.6	449.7	483.2	610.7	1244.3	2343.6	3919.3	4434.8
85°	318.1	327.5	343.6	331.5	299.3	303.3	346.3	428.2	900.6	1518.1	1641.6
87.5°	115.4	132.9	136.9	142.3	136.9	138.3	142.3	134.2	182.5	374.5	432.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)