

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: P232748

Luminaire Tested: **CST-8-6-D-U-T5**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232748  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-21)  
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-T5  
Description: CELESTEON HIGH MAST LUMINAIRE  
(8) 70 CRI, 4000K LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 63883 lumens  
Efficiency: N/A  
Efficacy: 133.9 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B5 - U0 - G5

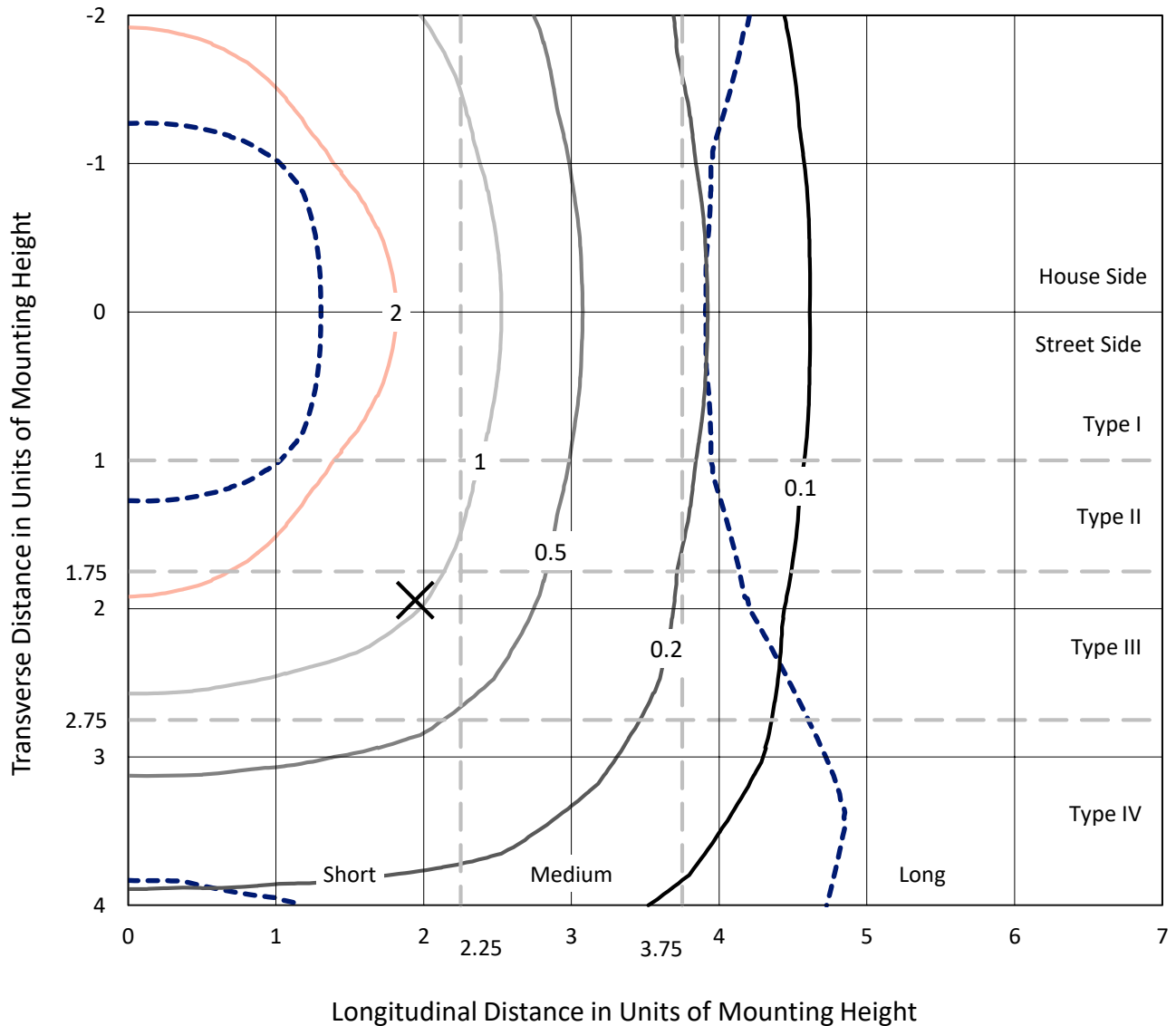
Input Watts (W): 477  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

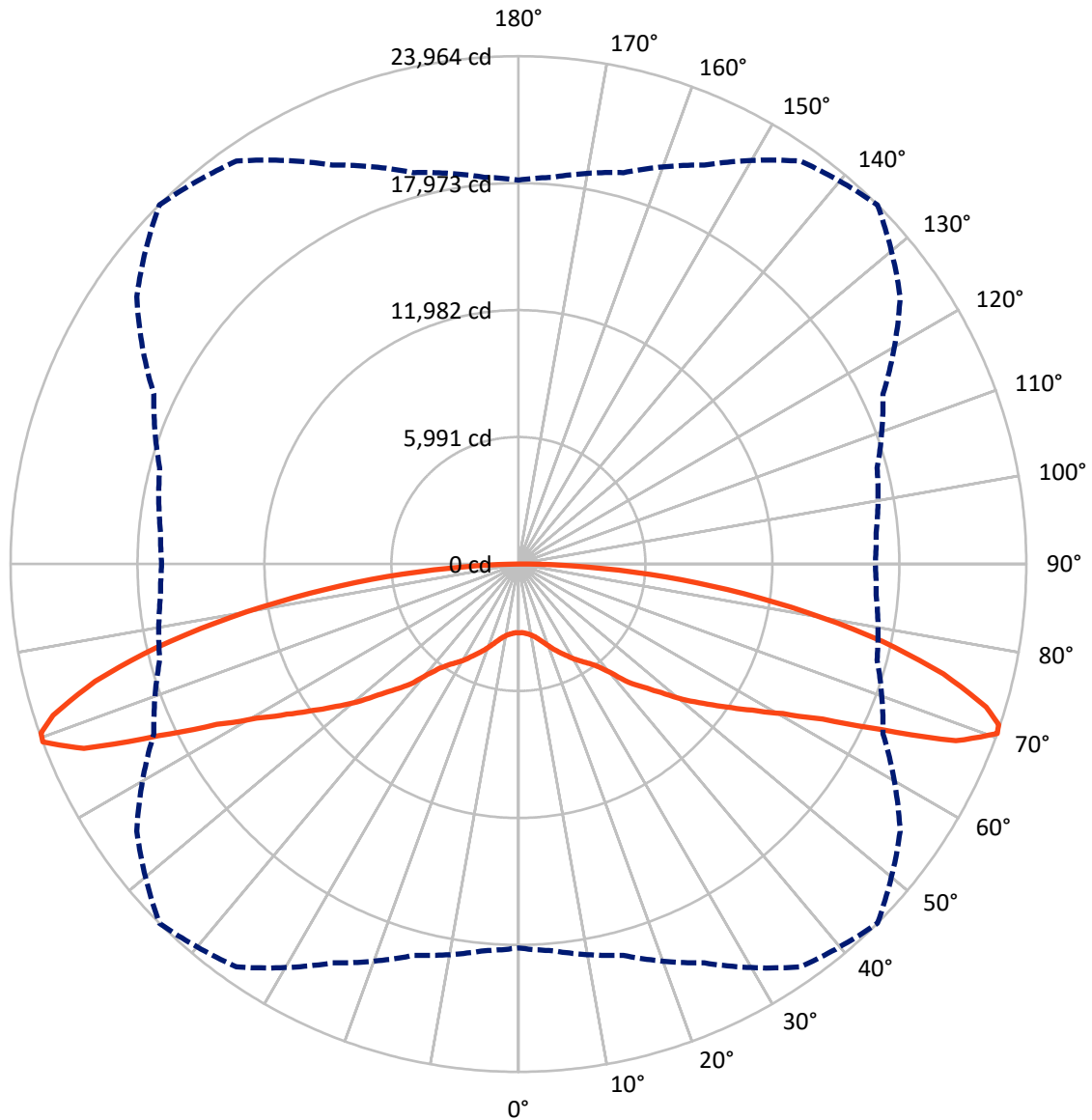
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.8 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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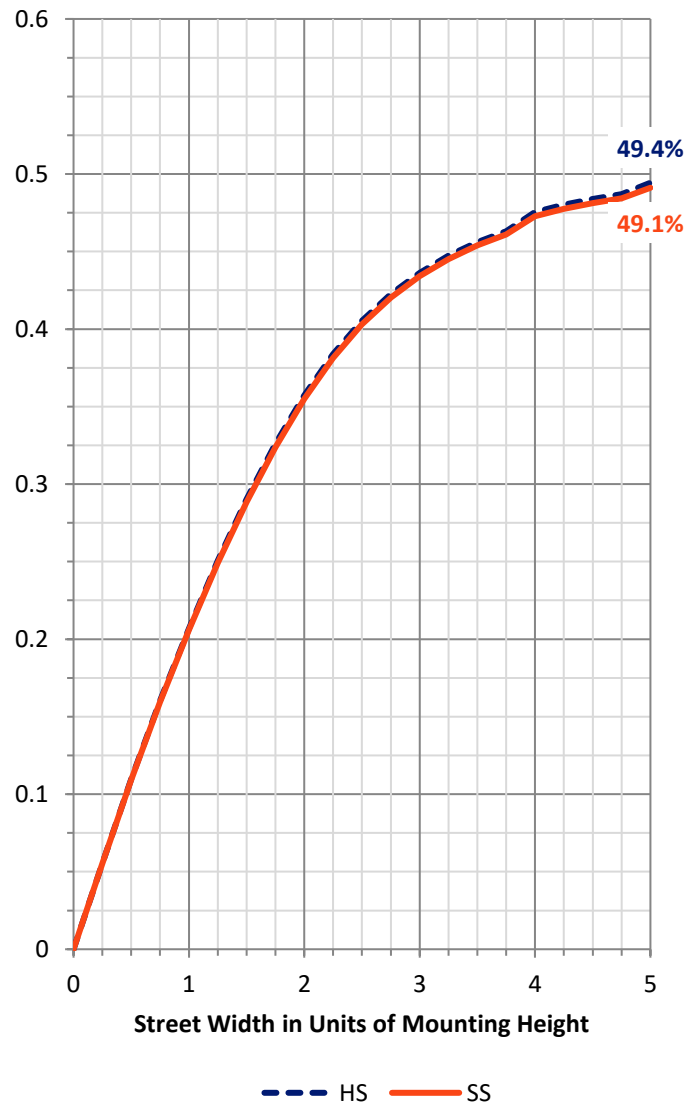
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	31941.5	0.0	31941.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	31941.5	0.0	31941.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	63883.0	0.0	63883.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.3	0.5
10°-20°	1059.3	1.7
20°-30°	2116.8	3.3
30°-40°	3640.3	5.7
40°-50°	6734.4	10.5
50°-60°	11446.4	17.9
60°-70°	18450.3	28.9
70°-80°	16306.9	25.5
80°-90°	3810.3	6.0
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°	63883.0	100.0
0°-180°	63883.0	100.0



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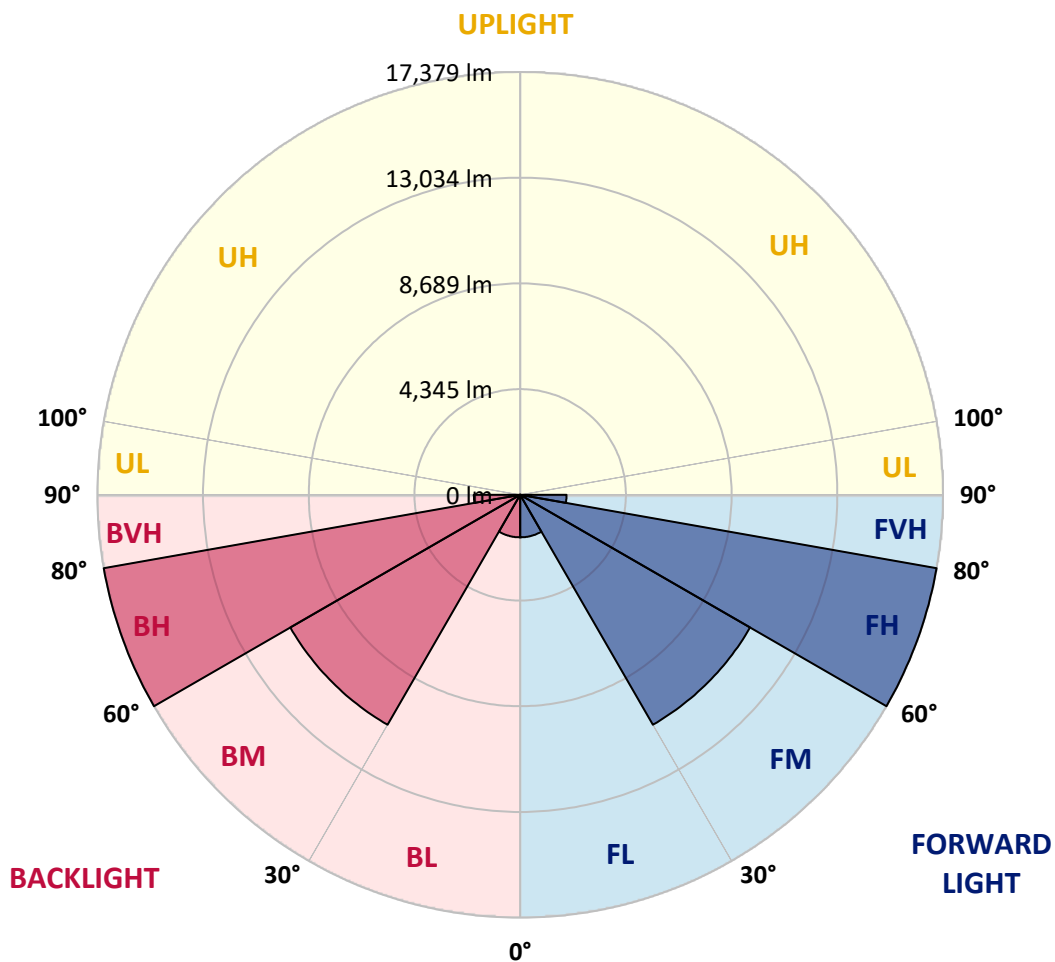
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1747.2	2.7			
FM	(30°-60°)	10910.5	17.1			
FH	(60°-80°)	17378.6	27.2			G5
FVH	(80°-90°)	1905.2	3.0			G5
BL	(0°-30°)	1747.2	2.7	B3/2500		
BM	(30°-60°)	10910.5	17.1	B5		
BH	(60°-80°)	17378.6	27.2	B5		G5
BVH	(80°-90°)	1905.2	3.0			G5
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°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3245.7	3245.7	3245.7	3245.7	3245.7	3245.7	3245.7	3245.7	3245.7	3245.7	3245.7
2.5°	3273.9	3267.8	3269.9	3269.9	3233.7	3241.7	3243.7	3265.8	3265.8	3275.9	3277.9
5°	3306.0	3296.0	3298.0	3306.0	3271.9	3277.9	3277.9	3300.0	3296.0	3308.0	3314.1
7.5°	3362.3	3354.3	3354.3	3362.3	3322.1	3332.2	3326.1	3346.2	3338.2	3344.2	3356.3
10°	3452.7	3450.7	3444.7	3448.7	3404.5	3410.5	3398.5	3420.6	3404.5	3406.5	3428.6
12.5°	3557.3	3555.2	3555.2	3561.3	3523.1	3533.1	3513.0	3521.1	3492.9	3497.0	3515.0
15°	3685.9	3689.9	3693.9	3712.0	3687.9	3697.9	3667.8	3663.8	3631.6	3631.6	3653.7
17.5°	3862.7	3862.7	3864.7	3904.9	3890.9	3906.9	3864.7	3836.6	3804.5	3808.5	3812.5
20°	4083.8	4075.8	4079.8	4128.0	4132.0	4144.1	4077.8	4039.6	4005.4	4007.4	4003.4
22.5°	4318.9	4302.9	4300.9	4367.2	4395.3	4399.3	4306.9	4270.7	4226.5	4232.5	4228.5
25°	4544.0	4528.0	4519.9	4574.2	4648.5	4644.5	4544.0	4491.8	4471.7	4471.7	4475.7
27.5°	4767.1	4747.0	4739.0	4771.1	4887.7	4907.8	4775.2	4728.9	4708.8	4726.9	4735.0
30°	4992.2	4976.1	4972.1	4982.2	5114.8	5203.2	4998.2	4978.1	4976.1	4992.2	5010.3
32.5°	5265.5	5263.5	5247.4	5245.4	5343.9	5472.5	5265.5	5277.6	5309.8	5345.9	5370.0
35°	5617.2	5613.2	5569.0	5589.1	5637.3	5757.9	5639.3	5647.4	5733.8	5788.1	5818.2
37.5°	6085.5	6055.4	5999.1	6001.1	6025.2	6147.8	6101.6	6163.9	6320.7	6421.1	6411.1
40°	6748.7	6700.5	6616.1	6592.0	6587.9	6762.8	6807.0	6947.7	7194.9	7343.6	7333.6
42.5°	7697.3	7647.1	7518.5	7484.3	7498.4	7635.0	7763.7	7986.7	8201.8	8374.6	8364.6
45°	8670.0	8605.7	8398.7	8282.2	8181.7	8286.2	8487.2	8836.9	9094.1	9321.2	9317.2
47.5°	9795.5	9695.0	9445.8	9222.7	9021.8	9059.9	9275.0	9674.9	9986.4	10213.5	10199.5
50°	11017.4	10916.9	10643.6	10308.0	9996.5	10022.6	10127.1	10549.2	10858.7	11079.7	11083.8
52.5°	12323.8	12251.4	11937.9	11493.7	11065.7	10919.0	10985.3	11375.2	11730.9	11939.9	11958.0
55°	13732.6	13662.3	13332.7	12820.2	12233.3	11903.7	11901.7	12293.6	12653.4	12836.3	12864.4
57.5°	15145.5	15107.3	14817.9	14259.2	13519.6	13015.1	12900.6	13308.5	13712.5	13901.4	13939.6
60°	16600.5	16548.3	16307.1	15838.8	15026.9	14335.5	14142.6	14550.6	15006.8	15201.7	15225.8
62.5°	18248.5	18196.2	18011.4	17517.0	16918.0	16118.2	15838.8	16214.6	16636.7	16948.2	16916.0
65°	19896.5	19884.4	19962.8	19739.7	19281.5	18823.3	18272.6	18684.6	18996.1	18966.0	18955.9
67.5°	19633.2	19709.6	20252.2	21026.0	21992.7	22266.0	20993.8	19840.2	19160.9	18767.0	18642.4
70°	18117.9	18314.8	19118.7	20768.7	23206.5	23964.2	21986.6	18980.0	17521.0	16946.2	16835.6
71°	17281.8	17436.6	18363.1	20378.8	23214.6	23897.9	21751.5	18332.9	16849.7	16061.9	15985.5
72.5°	15653.9	15893.1	16916.0	19311.7	22509.2	23084.0	20726.5	17127.1	15573.5	14805.8	14763.6
75°	12514.7	12587.0	13907.4	16628.6	20268.3	20724.5	18399.2	14862.1	13260.3	12735.8	12705.6
77.5°	8832.8	8834.8	10101.0	12962.9	16803.5	17543.1	15935.3	12253.4	10635.6	9976.4	9829.7
80°	4678.7	4869.6	6125.7	8909.2	12587.0	13805.0	12663.4	9264.9	7478.3	6515.6	6380.9
82.5°	2132.3	2269.0	3083.0	5050.5	8278.1	9942.2	8688.1	6015.2	4007.4	2968.4	2882.0
85°	828.0	848.1	1272.2	2399.6	4628.4	6236.2	5058.5	2819.7	1394.8	852.1	789.8
87.5°	271.3	289.4	414.0	924.5	1969.6	2490.1	1955.5	848.1	271.3	168.8	162.8
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)