

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: P232753

Luminaire Tested: **CST-10-3-D-U-T5-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232753
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-10-3-D-U-T5-7050
Description: CELESTEON HIGH MAST LUMINAIRE
(10) 70 CRI, 5000K LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32572 lumens
Efficiency: N/A
Efficacy: 153.6 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): 212
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

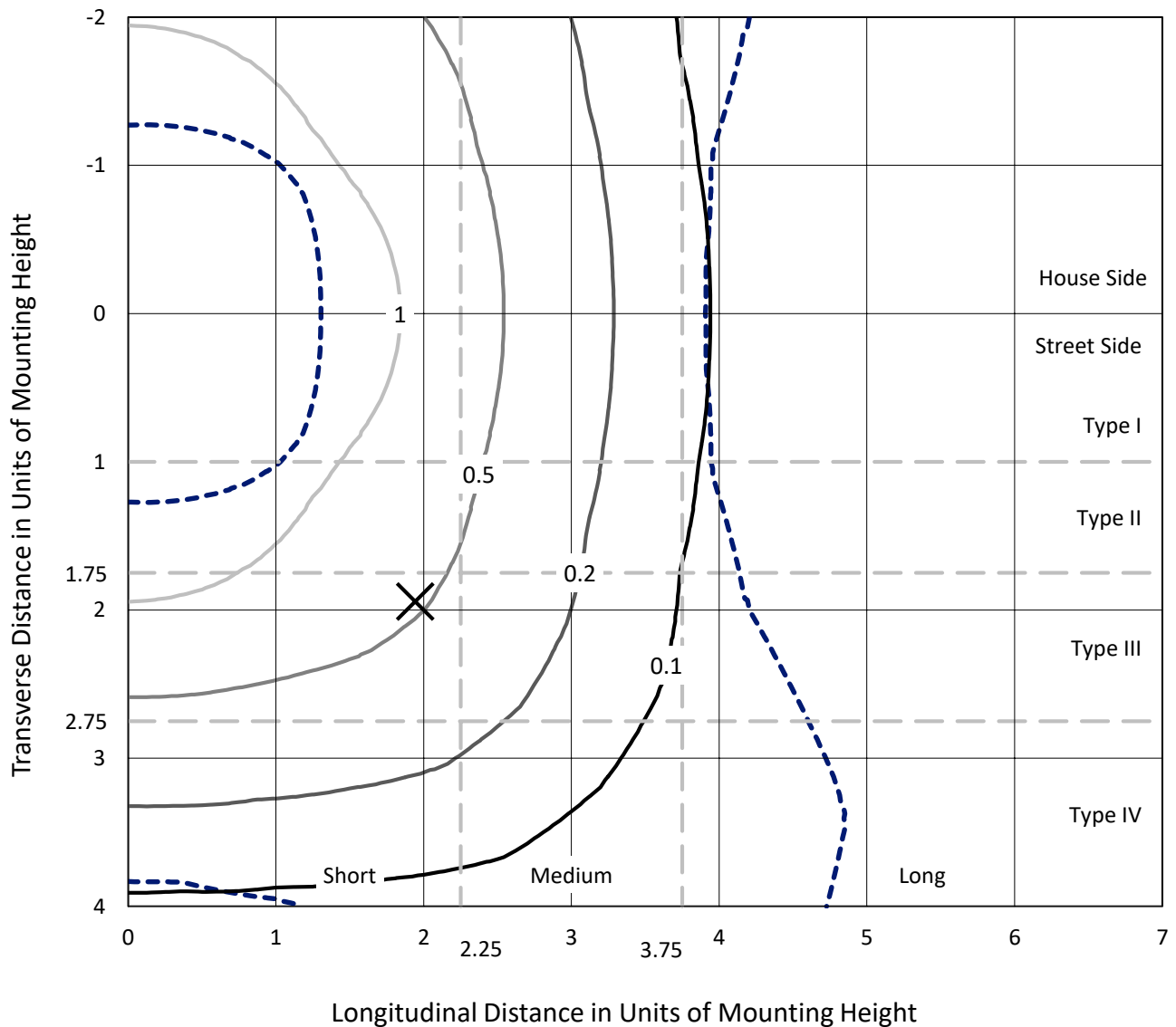


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

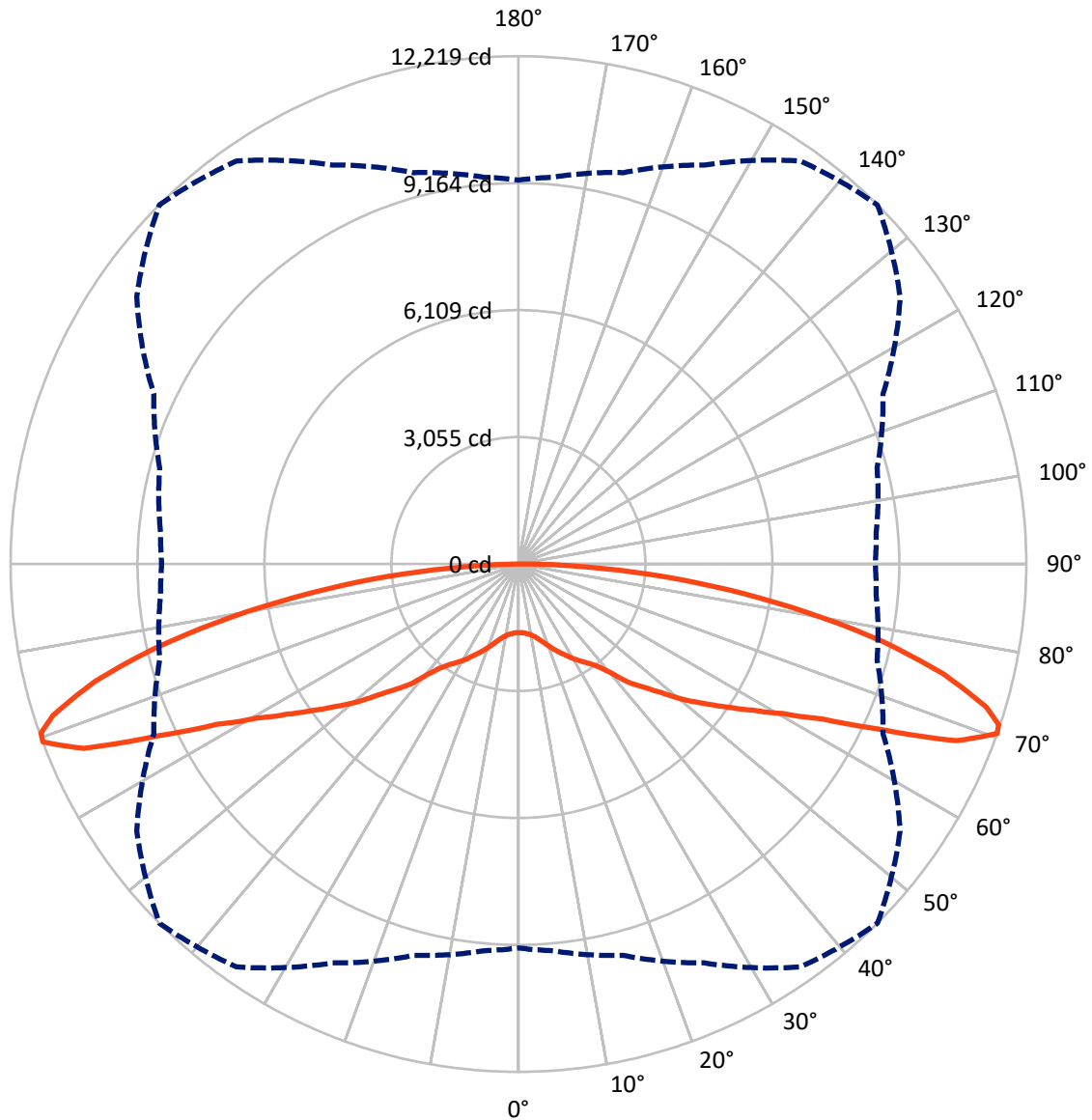


Based on 30 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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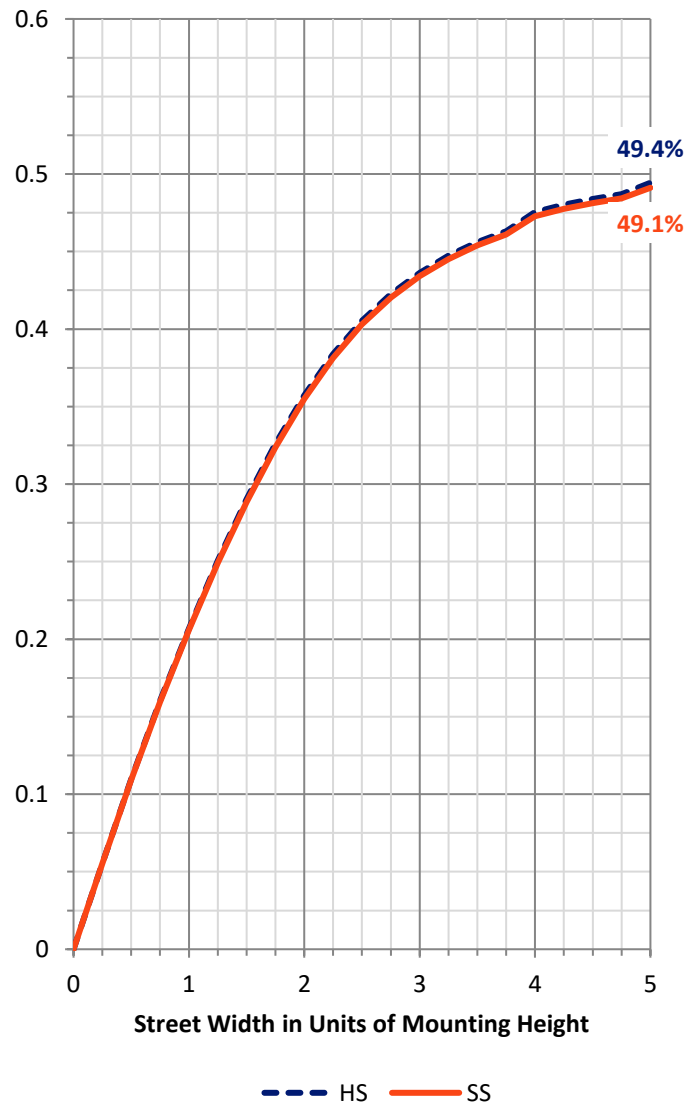
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16286.0	0.0	16286.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16286.0	0.0	16286.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32572.0	0.0	32572.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	0.5
10°-20°	540.1	1.7
20°-30°	1079.3	3.3
30°-40°	1856.1	5.7
40°-50°	3433.6	10.5
50°-60°	5836.2	17.9
60°-70°	9407.2	28.9
70°-80°	8314.4	25.5
80°-90°	1942.8	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°	32572.0	100.0
0°-180°	32572.0	100.0



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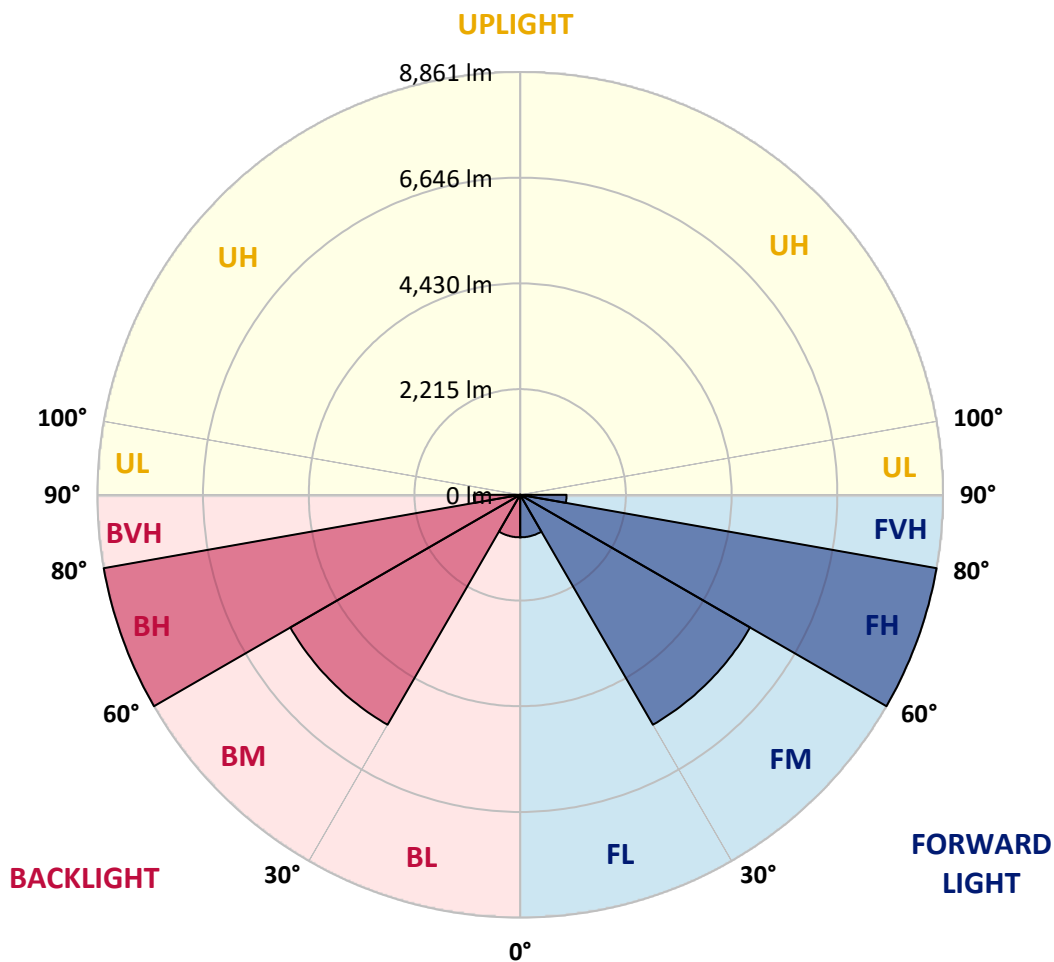
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	890.9	2.7			
FM	(30°-60°)	5562.9	17.1			
FH	(60°-80°)	8860.8	27.2			G4/12000
FVH	(80°-90°)	971.4	3.0			G5
BL	(0°-30°)	890.9	2.7	B2/1000		
BM	(30°-60°)	5562.9	17.1	B4/8500		
BH	(60°-80°)	8860.8	27.2	B5		G4/12000
BVH	(80°-90°)	971.4	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°	1654.9	1654.9	1654.9	1654.9	1654.9	1654.9	1654.9	1654.9	1654.9	1654.9	1654.9
2.5°	1669.3	1666.2	1667.2	1667.2	1648.8	1652.9	1653.9	1665.2	1665.2	1670.3	1671.3
5°	1685.6	1680.5	1681.5	1685.6	1668.2	1671.3	1671.3	1682.6	1680.5	1686.7	1689.7
7.5°	1714.3	1710.2	1710.2	1714.3	1693.8	1699.0	1695.9	1706.1	1702.0	1705.1	1711.3
10°	1760.4	1759.4	1756.4	1758.4	1735.9	1738.9	1732.8	1744.1	1735.9	1736.9	1748.2
12.5°	1813.7	1812.7	1812.7	1815.8	1796.3	1801.4	1791.2	1795.3	1780.9	1783.0	1792.2
15°	1879.3	1881.4	1883.4	1892.6	1880.3	1885.5	1870.1	1868.0	1851.6	1851.6	1862.9
17.5°	1969.5	1969.5	1970.5	1991.0	1983.8	1992.0	1970.5	1956.2	1939.8	1941.8	1943.9
20°	2082.2	2078.1	2080.2	2104.8	2106.8	2112.9	2079.1	2059.7	2042.2	2043.3	2041.2
22.5°	2202.1	2193.9	2192.9	2226.7	2241.0	2243.1	2196.0	2177.5	2155.0	2158.0	2156.0
25°	2316.9	2308.7	2304.6	2332.2	2370.2	2368.1	2316.9	2290.2	2280.0	2280.0	2282.0
27.5°	2430.6	2420.4	2416.3	2432.7	2492.1	2502.3	2434.7	2411.1	2400.9	2410.1	2414.2
30°	2545.4	2537.2	2535.1	2540.3	2607.9	2653.0	2548.5	2538.2	2537.2	2545.4	2554.6
32.5°	2684.7	2683.7	2675.5	2674.5	2724.7	2790.3	2684.7	2690.9	2707.3	2725.7	2738.0
35°	2864.1	2862.0	2839.5	2849.7	2874.3	2935.8	2875.3	2879.4	2923.5	2951.2	2966.5
37.5°	3102.8	3087.4	3058.8	3059.8	3072.1	3134.6	3111.0	3142.8	3222.7	3273.9	3268.8
40°	3441.0	3416.4	3373.3	3361.0	3359.0	3448.1	3470.7	3542.4	3668.5	3744.3	3739.2
42.5°	3924.6	3899.0	3833.4	3816.0	3823.2	3892.9	3958.4	4072.2	4181.8	4270.0	4264.8
45°	4420.6	4387.8	4282.3	4222.8	4171.6	4224.9	4327.3	4505.6	4636.8	4752.6	4750.5
47.5°	4994.4	4943.2	4816.1	4702.4	4599.9	4619.4	4729.0	4932.9	5091.8	5207.6	5200.4
50°	5617.5	5566.2	5426.9	5255.7	5096.9	5110.2	5163.5	5378.7	5536.5	5649.2	5651.3
52.5°	6283.5	6246.6	6086.8	5860.3	5642.0	5567.2	5601.1	5799.9	5981.2	6087.8	6097.0
55°	7001.8	6966.0	6797.9	6536.6	6237.4	6069.4	6068.3	6268.1	6451.6	6544.8	6559.2
57.5°	7722.2	7702.7	7555.2	7270.3	6893.2	6636.0	6577.6	6785.6	6991.6	7087.9	7107.4
60°	8464.1	8437.5	8314.5	8075.7	7661.7	7309.2	7210.9	7418.9	7651.5	7750.9	7763.2
62.5°	9304.4	9277.7	9183.4	8931.4	8626.0	8218.2	8075.7	8267.4	8482.5	8641.4	8625.0
65°	10144.6	10138.5	10178.4	10064.7	9831.1	9597.4	9316.7	9526.7	9685.5	9670.2	9665.1
67.5°	10010.4	10049.3	10326.0	10720.5	11213.4	11352.7	10704.1	10115.9	9769.6	9568.7	9505.2
70°	9237.7	9338.2	9748.1	10589.3	11832.3	12218.6	11210.3	9677.3	8933.4	8640.3	8584.0
71°	8811.5	8890.4	9362.8	10390.5	11836.4	12184.8	11090.4	9347.4	8591.2	8189.5	8150.5
72.5°	7981.5	8103.4	8625.0	9846.4	11476.7	11769.8	10567.8	8732.6	7940.5	7549.0	7527.5
75°	6380.9	6417.8	7091.0	8478.4	10334.2	10566.8	9381.2	7577.7	6761.0	6493.6	6478.2
77.5°	4503.6	4504.6	5150.2	6609.4	8567.6	8944.7	8124.9	6247.6	5422.8	5086.7	5011.9
80°	2385.5	2482.9	3123.3	4542.5	6417.8	7038.7	6456.7	4723.9	3812.9	3322.1	3253.5
82.5°	1087.2	1156.9	1571.9	2575.1	4220.8	5069.2	4429.8	3067.0	2043.3	1513.5	1469.4
85°	422.2	432.4	648.6	1223.5	2359.9	3179.7	2579.2	1437.7	711.1	434.5	402.7
87.5°	138.3	147.6	211.1	471.4	1004.2	1269.6	997.0	432.4	138.3	86.1	83.0
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)