

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: P509059

Luminaire Tested: **VERD-CA2-100-727-U-T1**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-100-727-U-T1
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1370mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12565 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 103.4
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: 24 FT

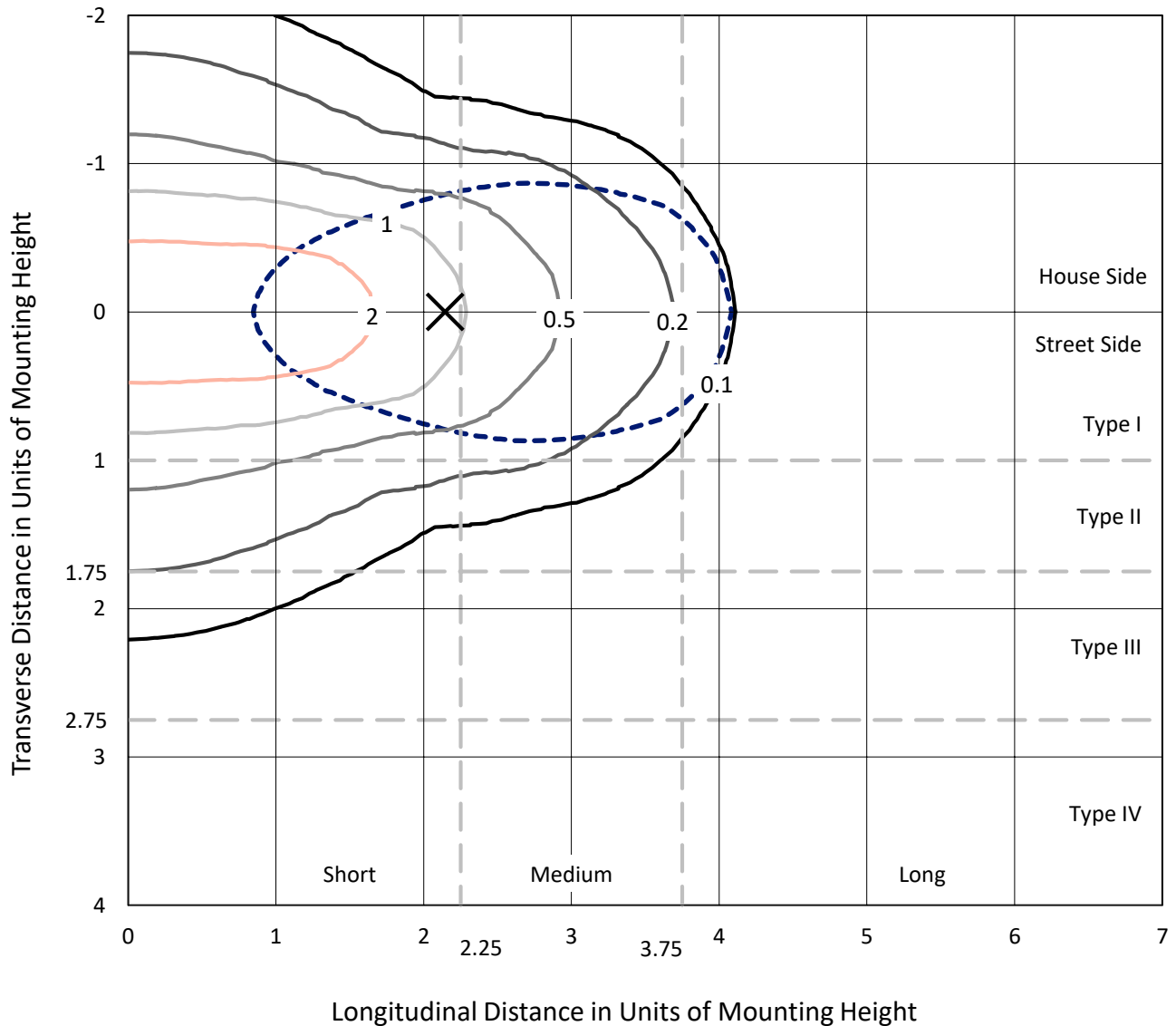


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Iso-Footcandle Lines of Horizontal Illumination

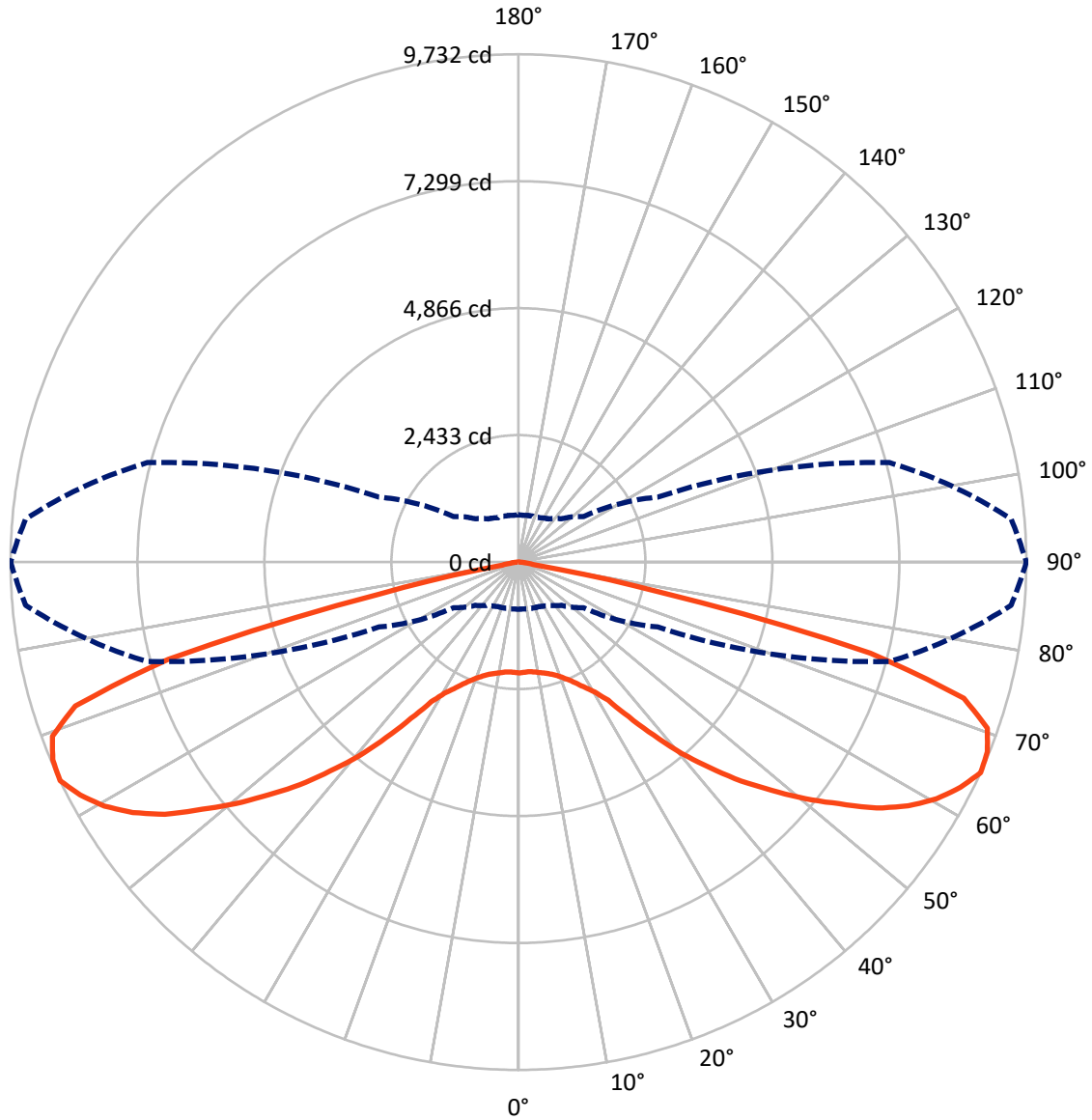
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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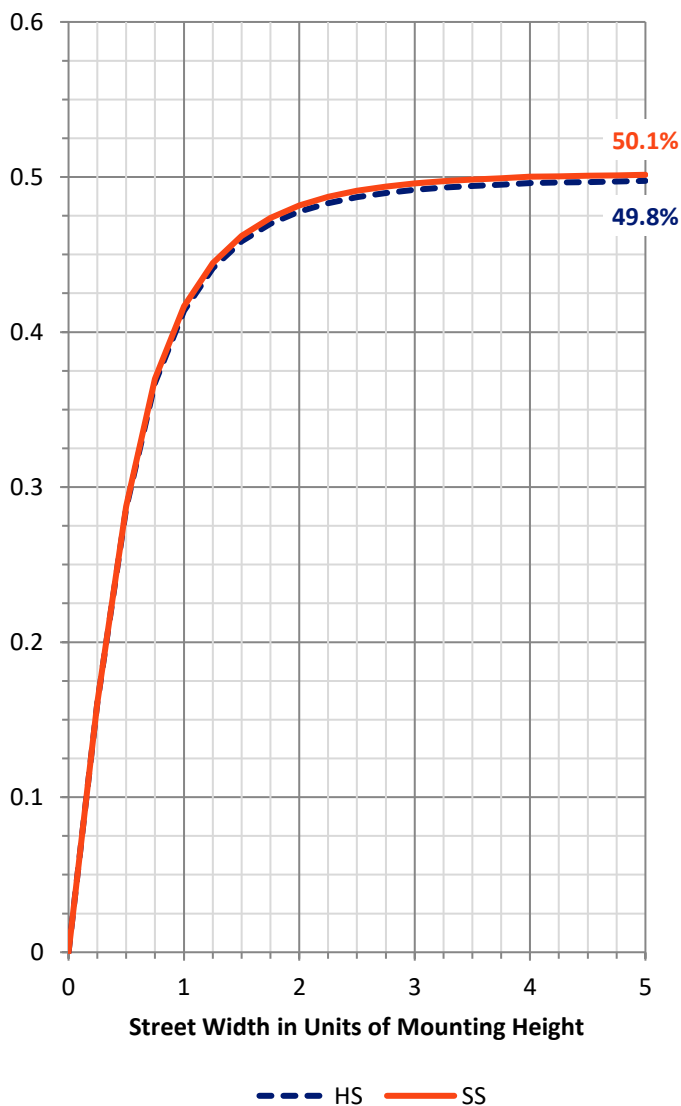
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6282.5	0.0	6282.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6282.5	0.0	6282.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12565.0	0.0	12565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.7	1.6
10°-20°	600.6	4.8
20°-30°	991.9	7.9
30°-40°	1464.0	11.7
40°-50°	2130.1	17.0
50°-60°	2726.7	21.7
60°-70°	2851.4	22.7
70°-80°	1538.3	12.2
80°-90°	60.6	0.5
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°	12565.0	100.0
0°-180°	12565.0	100.0

Coefficient of Utilization



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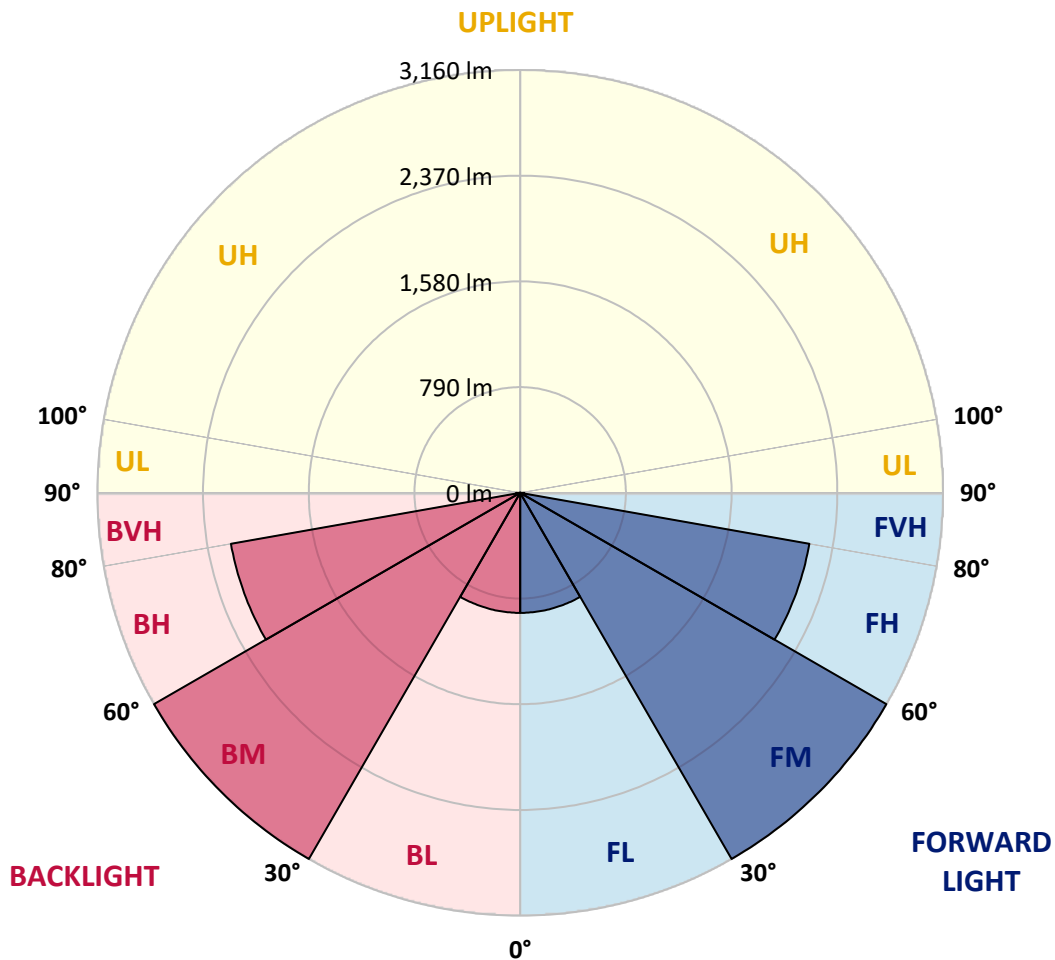
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	897.1	7.1			
FM	(30°-60°)	3160.3	25.2			
FH	(60°-80°)	2194.8	17.5			G2/5000
FVH	(80°-90°)	30.3	0.2			G1/100
BL	(0°-30°)	897.1	7.1	B2/1000		
BM	(30°-60°)	3160.3	25.2	B3/5000		
BH	(60°-80°)	2194.8	17.5	B3/2500		G3/2500
BVH	(80°-90°)	30.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2125.9	2125.9	2125.9	2125.9	2125.9	2125.9	2125.9	2125.9	2125.9	2125.9	2125.9
2.5°	2114.4	2122.1	2125.9	2124.6	2117.0	2117.0	2117.0	2117.0	2114.4	2113.1	2114.4
5°	2099.0	2105.4	2113.1	2109.3	2105.4	2109.3	2109.3	2109.3	2110.6	2110.6	2110.6
7.5°	2086.2	2095.2	2099.0	2104.2	2095.2	2105.4	2120.8	2123.4	2124.6	2124.6	2124.6
10°	2074.7	2082.4	2092.6	2091.4	2095.2	2110.6	2127.2	2146.4	2147.7	2151.5	2151.5
12.5°	2046.6	2056.8	2068.3	2076.0	2081.1	2117.0	2133.6	2157.9	2177.1	2179.7	2181.0
15°	2012.0	2018.4	2031.2	2049.1	2076.0	2114.4	2151.5	2182.2	2213.0	2220.6	2220.6
17.5°	1959.5	1967.2	1985.1	2010.7	2059.4	2122.1	2181.0	2221.9	2260.3	2271.8	2274.4
20°	1887.9	1901.9	1926.3	1971.1	2036.3	2127.2	2213.0	2274.4	2324.3	2349.9	2351.2
22.5°	1802.1	1812.3	1855.9	1919.9	2012.0	2127.2	2246.2	2335.8	2404.9	2444.6	2448.5
25°	1708.7	1717.6	1773.9	1863.5	1981.3	2128.5	2279.5	2403.7	2511.2	2563.6	2568.8
27.5°	1624.2	1633.2	1697.2	1805.9	1954.4	2132.3	2315.3	2486.9	2636.6	2707.0	2721.1
30°	1546.1	1550.0	1622.9	1743.2	1925.0	2134.9	2358.9	2577.7	2768.4	2882.3	2890.0
32.5°	1473.2	1483.4	1551.2	1680.5	1890.4	2138.7	2416.5	2707.0	2979.6	3151.1	3157.5
35°	1407.9	1416.9	1484.7	1616.5	1844.3	2149.0	2479.2	2872.1	3285.5	3585.0	3634.9
37.5°	1355.4	1364.4	1424.5	1548.7	1797.0	2146.4	2561.1	3073.0	3659.2	4132.8	4208.3
40°	1313.2	1323.4	1372.1	1484.7	1734.3	2127.2	2646.8	3290.6	4066.3	4710.0	4822.7
42.5°	1277.3	1286.3	1328.5	1428.4	1666.4	2096.5	2723.6	3487.7	4459.2	5297.5	5387.1
45°	1236.4	1246.6	1287.6	1381.0	1603.7	2049.1	2774.8	3681.0	4857.2	5855.6	5983.5
47.5°	1209.5	1215.9	1247.9	1334.9	1533.3	1974.9	2783.8	3818.0	5283.4	6445.6	6533.9
50°	1185.2	1183.9	1212.1	1288.9	1468.0	1880.2	2736.4	3924.2	5689.2	6996.0	7127.8
52.5°	1150.6	1151.9	1175.0	1244.1	1404.1	1770.1	2623.8	3951.1	6106.4	7547.6	7690.9
55°	1109.7	1113.5	1135.3	1192.9	1338.8	1661.3	2431.8	3902.4	6555.7	8092.8	8323.2
57.5°	1070.0	1067.4	1089.2	1140.4	1268.4	1551.2	2213.0	3778.3	6987.0	8666.2	8810.9
60°	1023.9	1026.5	1041.8	1084.1	1194.1	1434.8	1968.5	3563.3	7277.5	9109.1	9210.2
62.5°	971.4	971.4	985.5	1017.5	1108.4	1308.1	1734.3	3279.1	7441.4	9339.5	9507.1
65°	904.9	901.1	916.4	939.4	1008.6	1172.4	1520.5	2945.1	7360.7	9479.0	9732.4
67.5°	833.2	825.5	833.2	843.5	894.7	1026.5	1304.2	2643.0	6984.4	9389.4	9694.0
70°	739.8	729.5	733.4	733.4	767.9	856.3	1093.0	2387.0	6125.6	9100.1	9532.7
72.5°	605.4	601.6	608.0	602.8	628.4	687.3	906.2	2076.0	4991.6	8406.4	8926.0
75°	368.6	373.7	394.2	430.0	453.1	497.9	663.0	1642.1	3779.6	6341.9	6962.7
77.5°	153.6	171.5	189.4	195.8	221.4	216.3	299.5	744.9	1530.8	2525.2	2733.9
80°	51.2	52.5	116.5	129.3	142.1	116.5	113.9	249.6	437.7	369.9	311.0
82.5°	30.7	33.3	64.0	69.1	60.2	62.7	66.6	84.5	81.9	133.1	151.0
85°	15.4	16.6	28.2	32.0	32.0	38.4	38.4	41.0	46.1	80.6	87.0
87.5°	3.8	3.8	7.7	11.5	12.8	15.4	15.4	17.9	20.5	29.4	34.6
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)