

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: P509315

Luminaire Tested: **VERD-CA2-70-740-U-T1**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509315
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-CA2-70-740-U-T1
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 980mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11194 lumens
Efficiency: N/A
Efficacy: 152.1 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

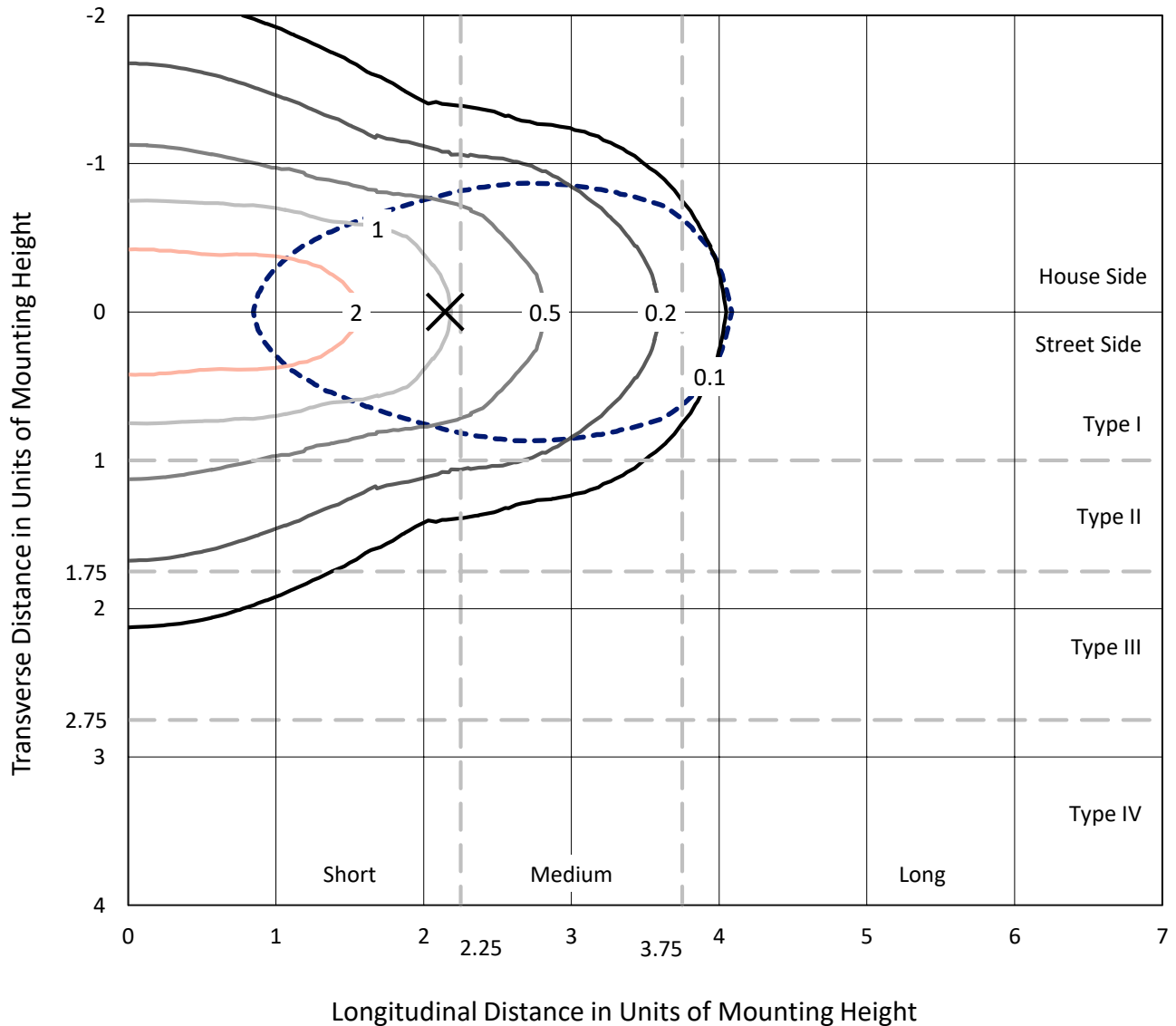
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

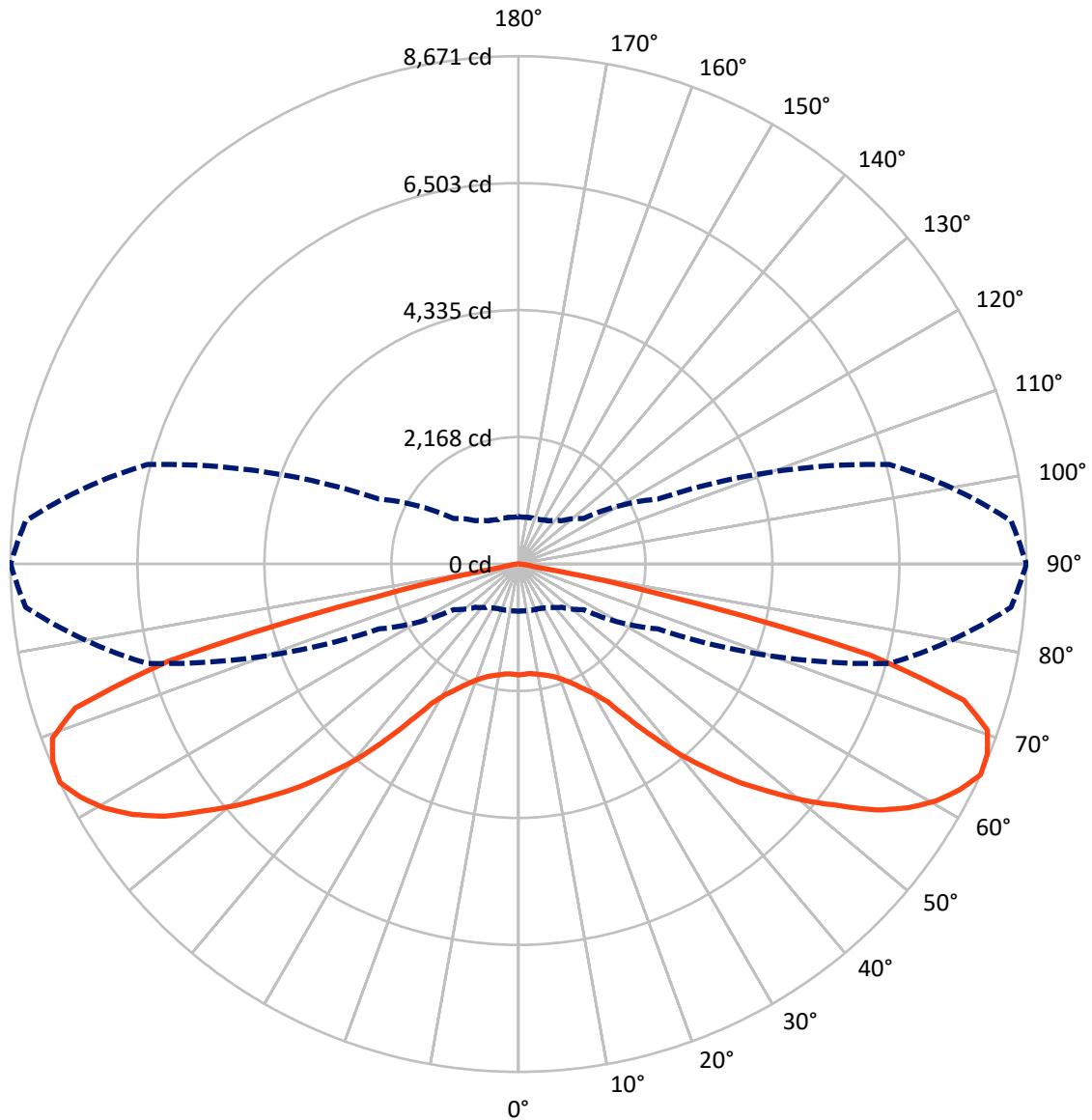
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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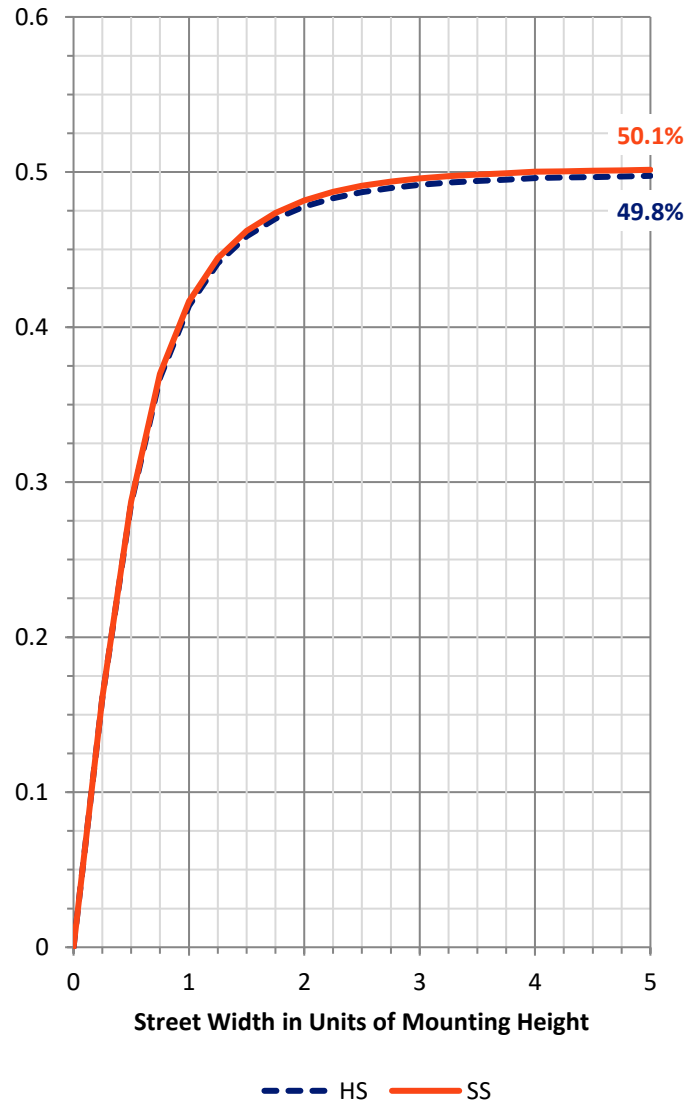
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5597.0	0.0	5597.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5597.0	0.0	5597.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11194.0	0.0	11194.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.7	1.6
10°-20°	535.1	4.8
20°-30°	883.6	7.9
30°-40°	1304.2	11.7
40°-50°	1897.6	17.0
50°-60°	2429.1	21.7
60°-70°	2540.2	22.7
70°-80°	1370.5	12.2
80°-90°	54.0	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°	11194.0	100.0
0°-180°	11194.0	100.0



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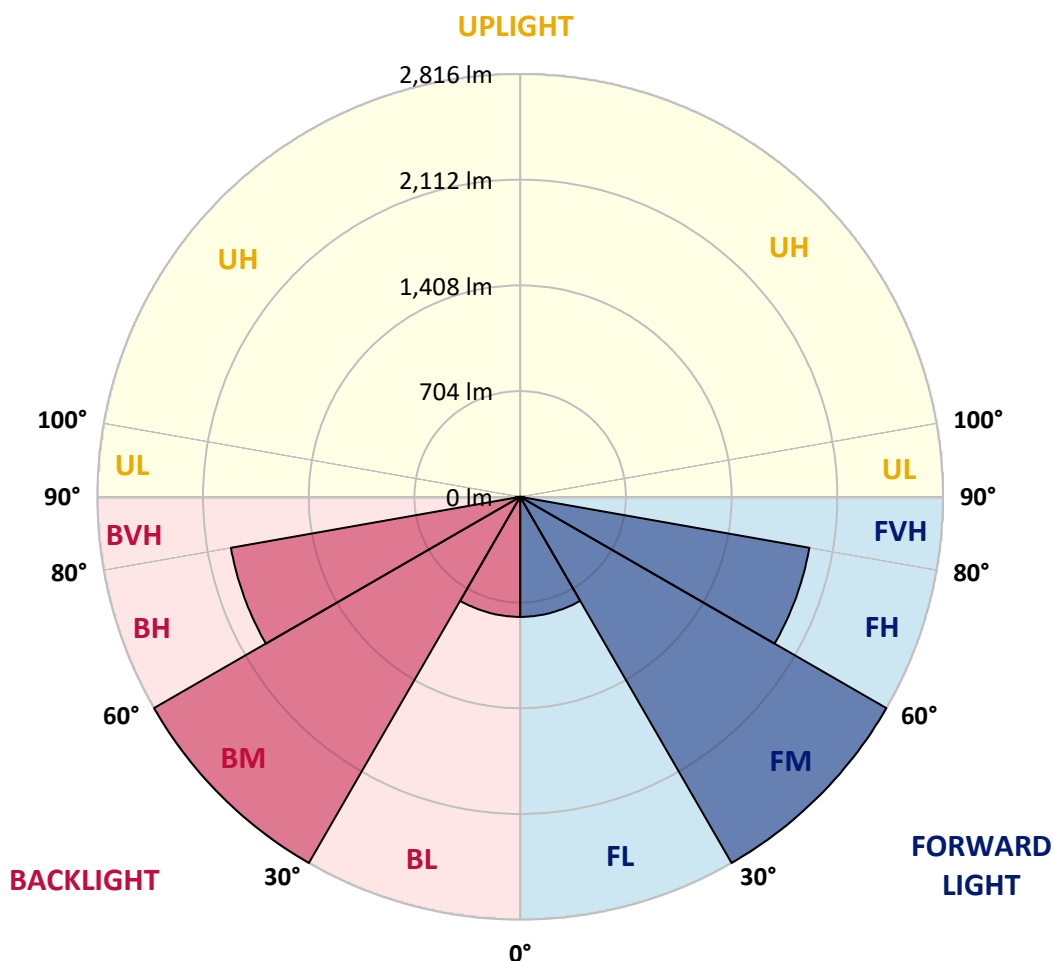
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	799.2	7.1			
FM	(30°-60°)	2815.5	25.2			
FH	(60°-80°)	1955.3	17.5			G2/5000
FVH	(80°-90°)	27.0	0.2			G1/100
BL	(0°-30°)	799.2	7.1	B2/1000		
BM	(30°-60°)	2815.5	25.2	B3/5000		
BH	(60°-80°)	1955.3	17.5	B3/2500		G3/2500
BVH	(80°-90°)	27.0	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°	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0
2.5°	1883.7	1890.5	1894.0	1892.8	1886.0	1886.0	1886.0	1886.0	1883.7	1882.6	1883.7
5°	1870.0	1875.7	1882.6	1879.1	1875.7	1879.1	1879.1	1879.1	1880.3	1880.3	1880.3
7.5°	1858.6	1866.6	1870.0	1874.6	1866.6	1875.7	1889.4	1891.7	1892.8	1892.8	1892.8
10°	1848.3	1855.2	1864.3	1863.2	1866.6	1880.3	1895.1	1912.2	1913.3	1916.8	1916.8
12.5°	1823.3	1832.4	1842.6	1849.5	1854.0	1886.0	1900.8	1922.5	1939.6	1941.8	1943.0
15°	1792.5	1798.2	1809.6	1825.5	1849.5	1883.7	1916.8	1944.1	1971.5	1978.3	1978.3
17.5°	1745.7	1752.6	1768.5	1791.3	1834.7	1890.5	1943.0	1979.5	2013.7	2023.9	2026.2
20°	1681.9	1694.4	1716.1	1756.0	1814.1	1895.1	1971.5	2026.2	2070.7	2093.5	2094.6
22.5°	1605.5	1614.6	1653.4	1710.4	1792.5	1895.1	2001.1	2081.0	2142.5	2177.9	2181.3
25°	1522.2	1530.2	1580.4	1660.2	1765.1	1896.2	2030.8	2141.4	2237.2	2283.9	2288.5
27.5°	1447.0	1455.0	1512.0	1608.9	1741.2	1899.7	2062.7	2215.5	2348.9	2411.6	2424.2
30°	1377.4	1380.8	1445.8	1553.0	1714.9	1901.9	2101.5	2296.5	2466.4	2567.8	2574.7
32.5°	1312.4	1321.5	1382.0	1497.1	1684.1	1905.4	2152.8	2411.6	2654.5	2807.3	2813.0
35°	1254.3	1262.3	1322.7	1440.1	1643.1	1914.5	2208.7	2558.7	2927.0	3193.8	3238.3
37.5°	1207.5	1215.5	1269.1	1379.7	1600.9	1912.2	2281.6	2737.7	3260.0	3681.9	3749.1
40°	1169.9	1179.0	1222.3	1322.7	1545.0	1895.1	2358.0	2931.6	3622.6	4196.1	4296.5
42.5°	1138.0	1146.0	1183.6	1272.5	1484.6	1867.7	2426.5	3107.2	3972.6	4719.5	4799.3
45°	1101.5	1110.6	1147.1	1230.3	1428.7	1825.5	2472.1	3279.4	4327.2	5216.6	5330.7
47.5°	1077.5	1083.2	1111.7	1189.3	1366.0	1759.4	2480.0	3401.4	4707.0	5742.3	5821.0
50°	1055.9	1054.7	1079.8	1148.2	1307.9	1675.0	2437.9	3496.0	5068.4	6232.6	6350.1
52.5°	1025.1	1026.2	1046.7	1108.3	1250.9	1577.0	2337.5	3520.0	5440.1	6724.1	6851.8
55°	988.6	992.0	1011.4	1062.7	1192.7	1480.0	2166.5	3476.6	5840.4	7209.8	7415.0
57.5°	953.2	951.0	970.4	1016.0	1130.0	1382.0	1971.5	3366.0	6224.6	7720.6	7849.5
60°	912.2	914.5	928.2	965.8	1063.9	1278.2	1753.7	3174.5	6483.5	8115.2	8205.2
62.5°	865.4	865.4	878.0	906.5	987.5	1165.3	1545.0	2921.3	6629.4	8320.4	8469.8
65°	806.2	802.7	816.4	836.9	898.5	1044.5	1354.6	2623.7	6557.6	8444.7	8670.5
67.5°	742.3	735.5	742.3	751.4	797.0	914.5	1161.9	2354.6	6222.3	8364.9	8636.3
70°	659.1	649.9	653.4	653.4	684.1	762.8	973.8	2126.6	5457.2	8107.2	8492.6
72.5°	539.3	535.9	541.6	537.1	559.9	612.3	807.3	1849.5	4447.0	7489.2	7952.1
75°	328.4	333.0	351.2	383.1	403.6	443.6	590.6	1462.9	3367.2	5649.9	6203.0
77.5°	136.8	152.8	168.8	174.5	197.3	192.7	266.8	663.6	1363.7	2249.7	2435.6
80°	45.6	46.8	103.8	115.2	126.6	103.8	101.5	222.3	390.0	329.5	277.1
82.5°	27.4	29.6	57.0	61.6	53.6	55.9	59.3	75.3	73.0	118.6	134.5
85°	13.7	14.8	25.1	28.5	28.5	34.2	34.2	36.5	41.0	71.8	77.5
87.5°	3.4	3.4	6.8	10.3	11.4	13.7	13.7	16.0	18.2	26.2	30.8
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)