

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: P509427

Luminaire Tested: **VERD-CA2-90-760-U-T1**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509427
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-CA2-90-760-U-T1
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1250mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13740 lumens
Efficiency: N/A
Efficacy: 145.9 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

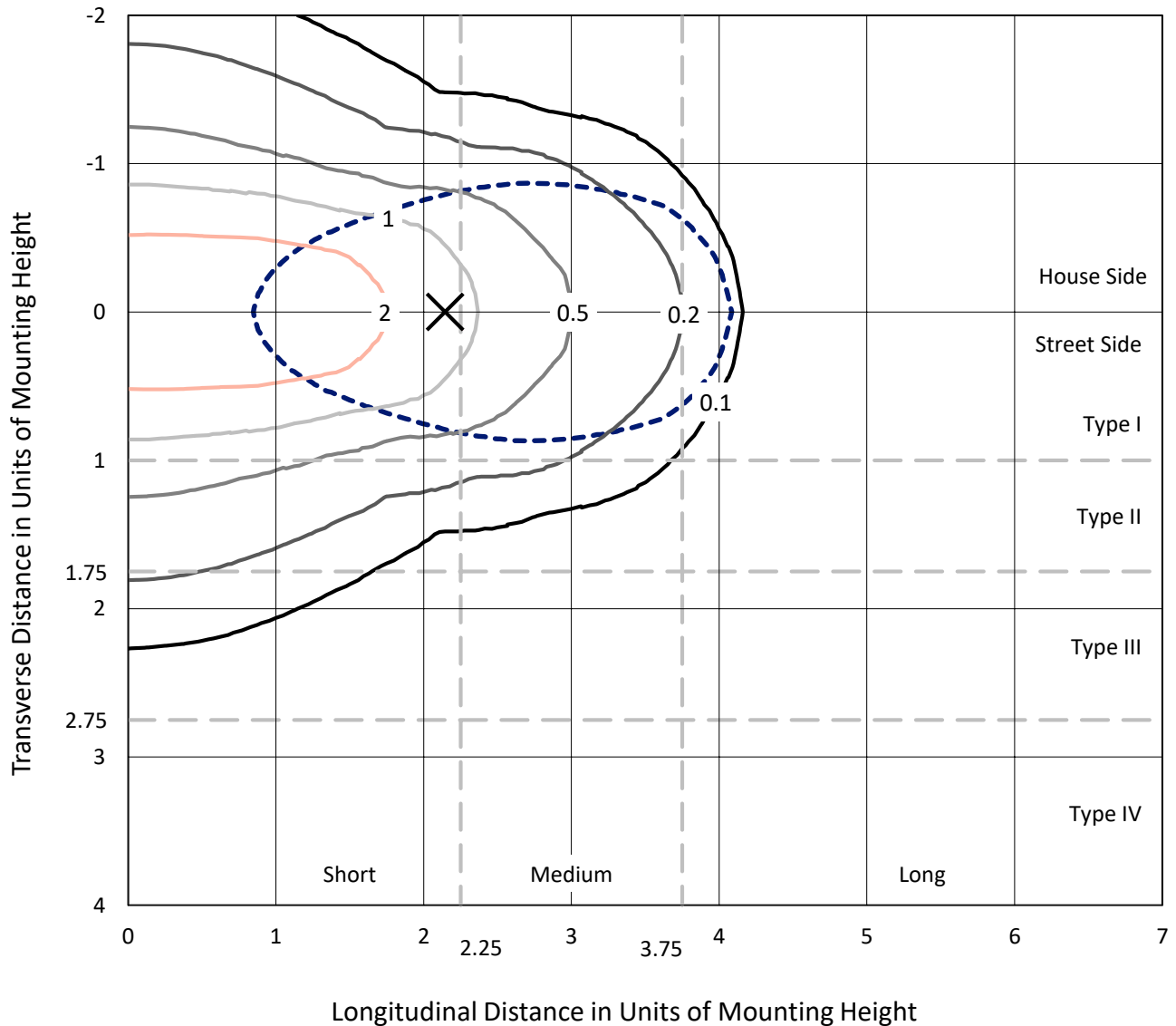
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

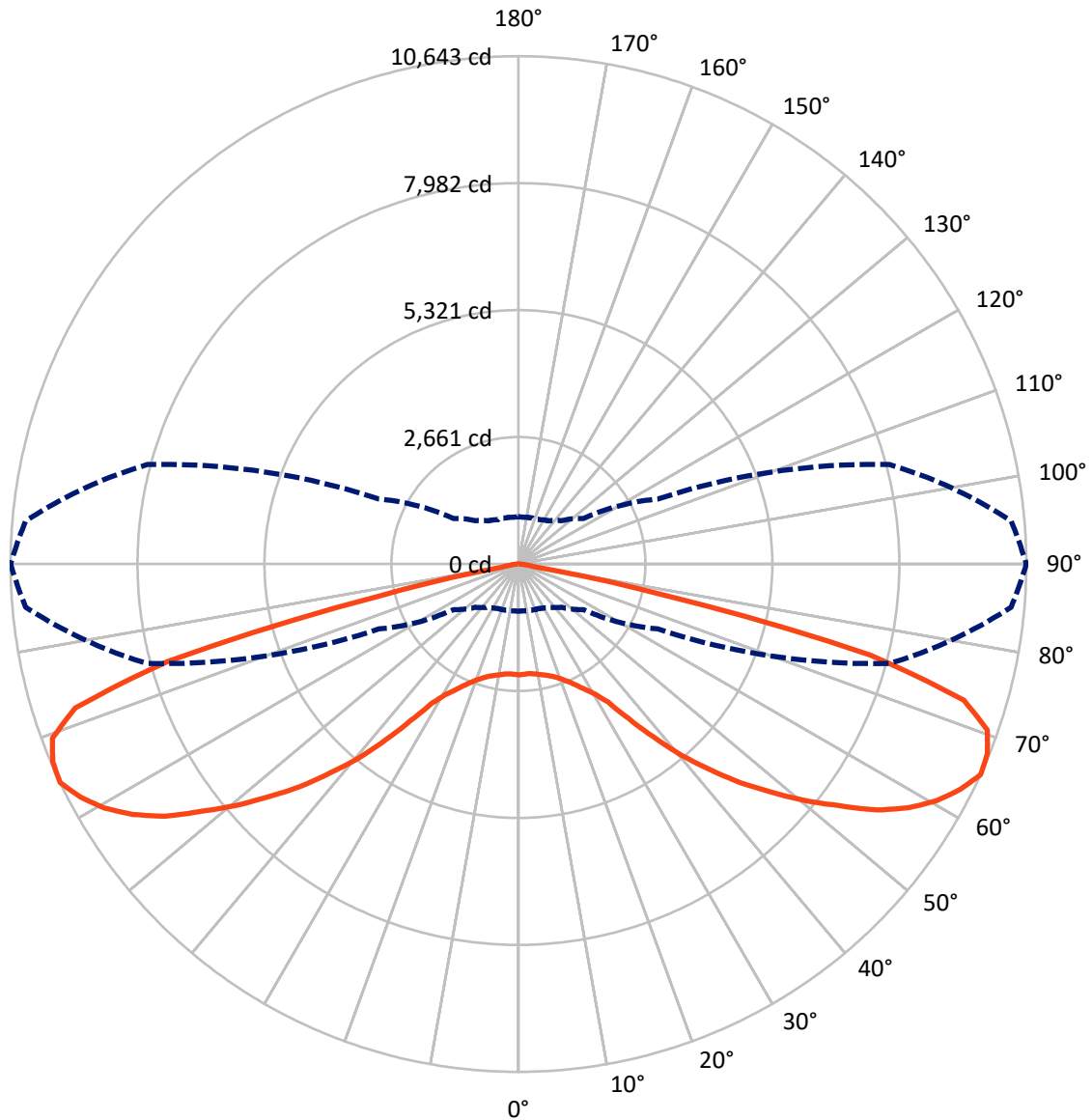
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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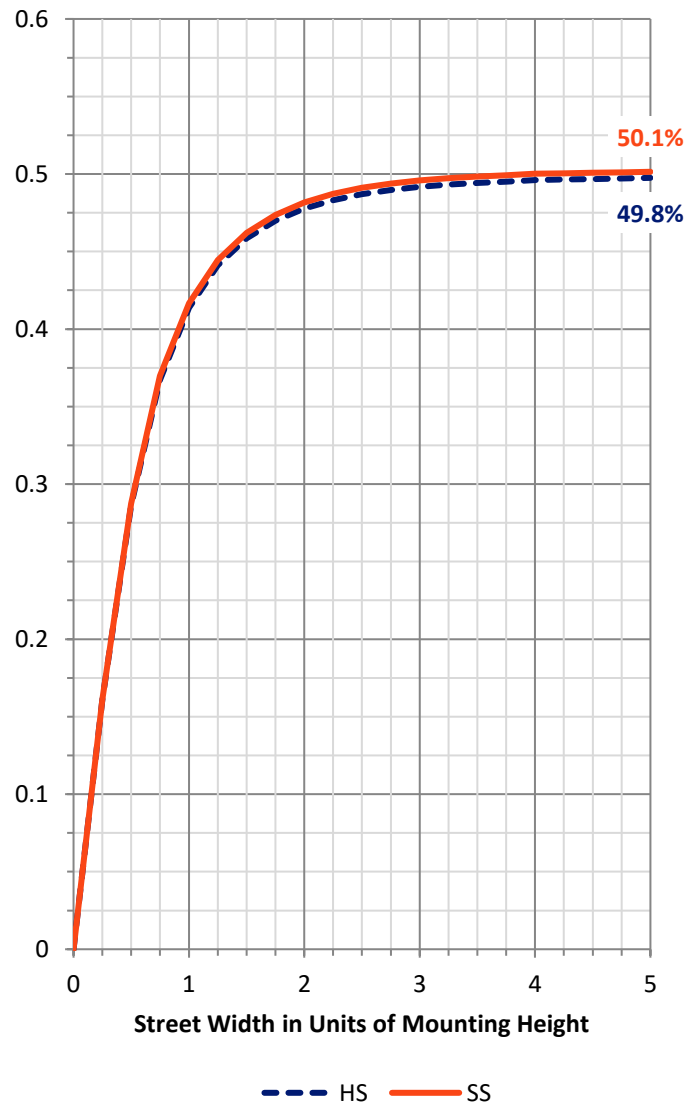
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6870.0	0.0	6870.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6870.0	0.0	6870.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13740.0	0.0	13740.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.5	1.6
10°-20°	656.8	4.8
20°-30°	1084.6	7.9
30°-40°	1600.9	11.7
40°-50°	2329.3	17.0
50°-60°	2981.6	21.7
60°-70°	3118.0	22.7
70°-80°	1682.1	12.2
80°-90°	66.2	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°	13740.0	100.0
0°-180°	13740.0	100.0



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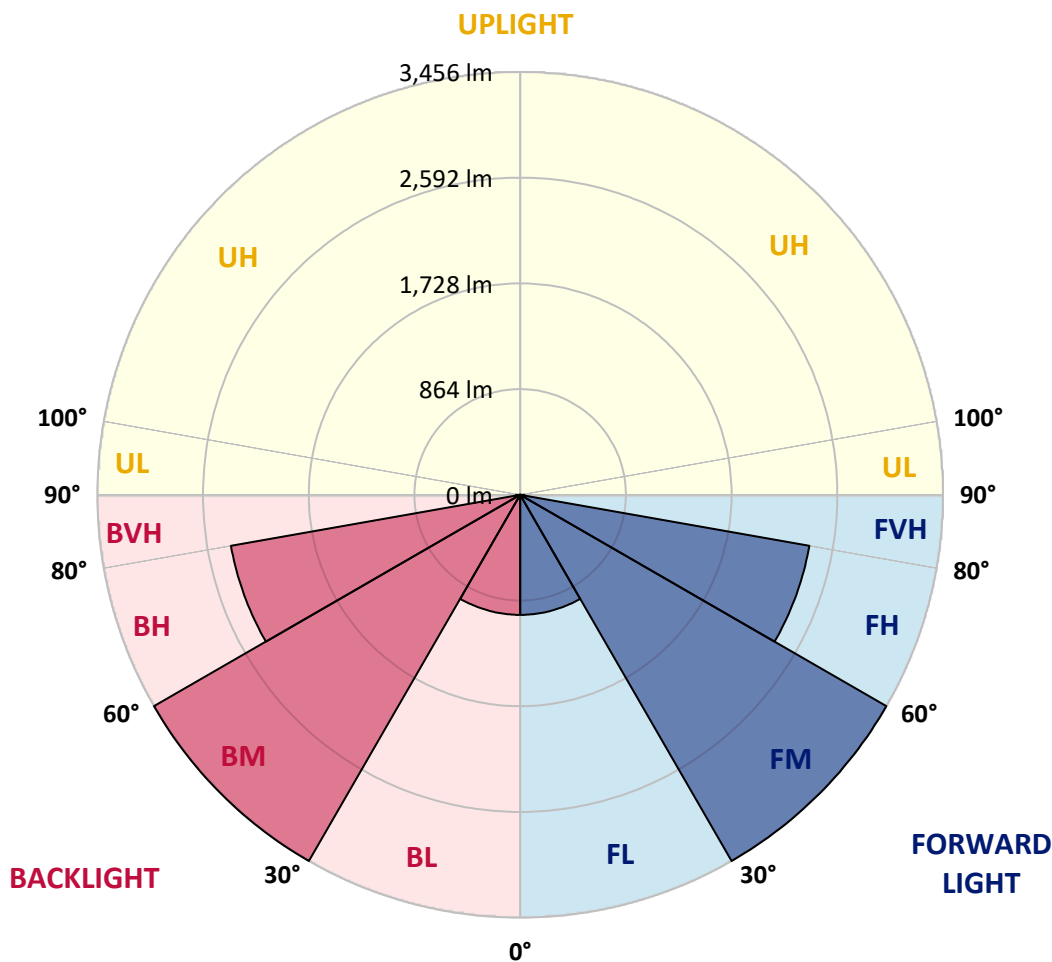
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	980.9	7.1			
FM (30°-60°)	3455.9	25.2			
FH (60°-80°)	2400.1	17.5			G2/5000
FVH (80°-90°)	33.1	0.2			G1/100
BL (0°-30°)	980.9	7.1	B2/1000		
BM (30°-60°)	3455.9	25.2	B3/5000		
BH (60°-80°)	2400.1	17.5	B3/2500		G3/2500
BVH (80°-90°)	33.1	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°	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7
2.5°	2312.1	2320.5	2324.7	2323.3	2314.9	2314.9	2314.9	2314.9	2312.1	2310.7	2312.1
5°	2295.3	2302.3	2310.7	2306.5	2302.3	2306.5	2306.5	2306.5	2307.9	2307.9	2307.9
7.5°	2281.3	2291.1	2295.3	2300.9	2291.1	2302.3	2319.1	2321.9	2323.3	2323.3	2323.3
10°	2268.7	2277.1	2288.3	2286.9	2291.1	2307.9	2326.1	2347.1	2348.5	2352.7	2352.7
12.5°	2237.9	2249.1	2261.7	2270.1	2275.7	2314.9	2333.1	2359.7	2380.7	2383.5	2384.9
15°	2200.2	2207.2	2221.2	2240.7	2270.1	2312.1	2352.7	2386.3	2419.9	2428.3	2428.3
17.5°	2142.8	2151.2	2170.8	2198.8	2251.9	2320.5	2384.9	2429.7	2471.7	2484.3	2487.1
20°	2064.4	2079.8	2106.4	2155.4	2226.8	2326.1	2419.9	2487.1	2541.7	2569.7	2571.0
22.5°	1970.6	1981.8	2029.4	2099.4	2200.2	2326.1	2456.3	2554.3	2629.8	2673.2	2677.4
25°	1868.5	1878.3	1939.8	2037.8	2166.6	2327.5	2492.7	2628.4	2746.0	2803.4	2809.0
27.5°	1776.1	1785.9	1855.9	1974.8	2137.2	2331.7	2531.9	2719.4	2883.2	2960.1	2975.5
30°	1690.7	1694.9	1774.7	1906.2	2105.0	2334.5	2579.4	2818.8	3027.3	3151.9	3160.3
32.5°	1610.9	1622.1	1696.3	1837.7	2067.2	2338.7	2642.4	2960.1	3258.2	3445.8	3452.8
35°	1539.6	1549.3	1623.5	1767.7	2016.8	2349.9	2711.0	3140.7	3592.8	3920.3	3974.8
37.5°	1482.2	1492.0	1557.7	1693.5	1965.0	2347.1	2800.6	3360.4	4001.4	4519.3	4601.9
40°	1436.0	1447.2	1500.4	1623.5	1896.4	2326.1	2894.4	3598.4	4446.5	5150.5	5273.7
42.5°	1396.8	1406.6	1452.8	1561.9	1822.3	2292.5	2978.3	3813.9	4876.2	5792.9	5890.9
45°	1352.0	1363.2	1408.0	1510.2	1753.7	2240.7	3034.3	4025.2	5311.5	6403.1	6543.1
47.5°	1322.6	1329.6	1364.6	1459.8	1676.7	2159.6	3044.1	4175.0	5777.5	7048.3	7144.9
50°	1296.0	1294.6	1325.4	1409.4	1605.3	2056.0	2992.3	4291.1	6221.2	7650.2	7794.3
52.5°	1258.2	1259.6	1284.8	1360.4	1535.4	1935.6	2869.2	4320.5	6677.5	8253.4	8410.1
55°	1213.4	1217.6	1241.4	1304.4	1464.0	1816.7	2659.2	4267.4	7168.7	8849.6	9101.5
57.5°	1170.1	1167.3	1191.1	1247.0	1387.0	1696.3	2419.9	4131.6	7640.4	9476.6	9634.8
60°	1119.7	1122.5	1139.3	1185.5	1305.8	1568.9	2152.6	3896.5	7958.1	9960.9	10071.5
62.5°	1062.3	1062.3	1077.7	1112.7	1212.0	1430.4	1896.4	3585.8	8137.2	10212.8	10396.2
65°	989.5	985.3	1002.1	1027.3	1102.9	1282.0	1662.7	3220.5	8049.1	10365.4	10642.5
67.5°	911.1	902.7	911.1	922.3	978.3	1122.5	1426.2	2890.2	7637.6	10267.4	10600.5
70°	809.0	797.8	802.0	802.0	839.8	936.3	1195.3	2610.2	6698.4	9951.1	10424.2
72.5°	662.0	657.8	664.8	659.2	687.2	751.6	990.9	2270.1	5458.4	9192.5	9760.8
75°	403.1	408.7	431.1	470.3	495.5	544.4	725.0	1795.7	4133.0	6935.0	7613.8
77.5°	168.0	187.5	207.1	214.1	242.1	236.5	327.5	814.6	1673.9	2761.4	2989.5
80°	56.0	57.4	127.4	141.4	155.4	127.4	124.6	272.9	478.7	404.5	340.1
82.5°	33.6	36.4	70.0	75.6	65.8	68.6	72.8	92.4	89.6	145.6	165.2
85°	16.8	18.2	30.8	35.0	35.0	42.0	42.0	44.8	50.4	88.2	95.2
87.5°	4.2	4.2	8.4	12.6	14.0	16.8	16.8	19.6	22.4	32.2	37.8
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)