

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: P509411

Luminaire Tested: **VERD-CA2-90-740-U-T1**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509411
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-CA2-90-740-U-T1
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1250mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13785 lumens
Efficiency: N/A
Efficacy: 146.3 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

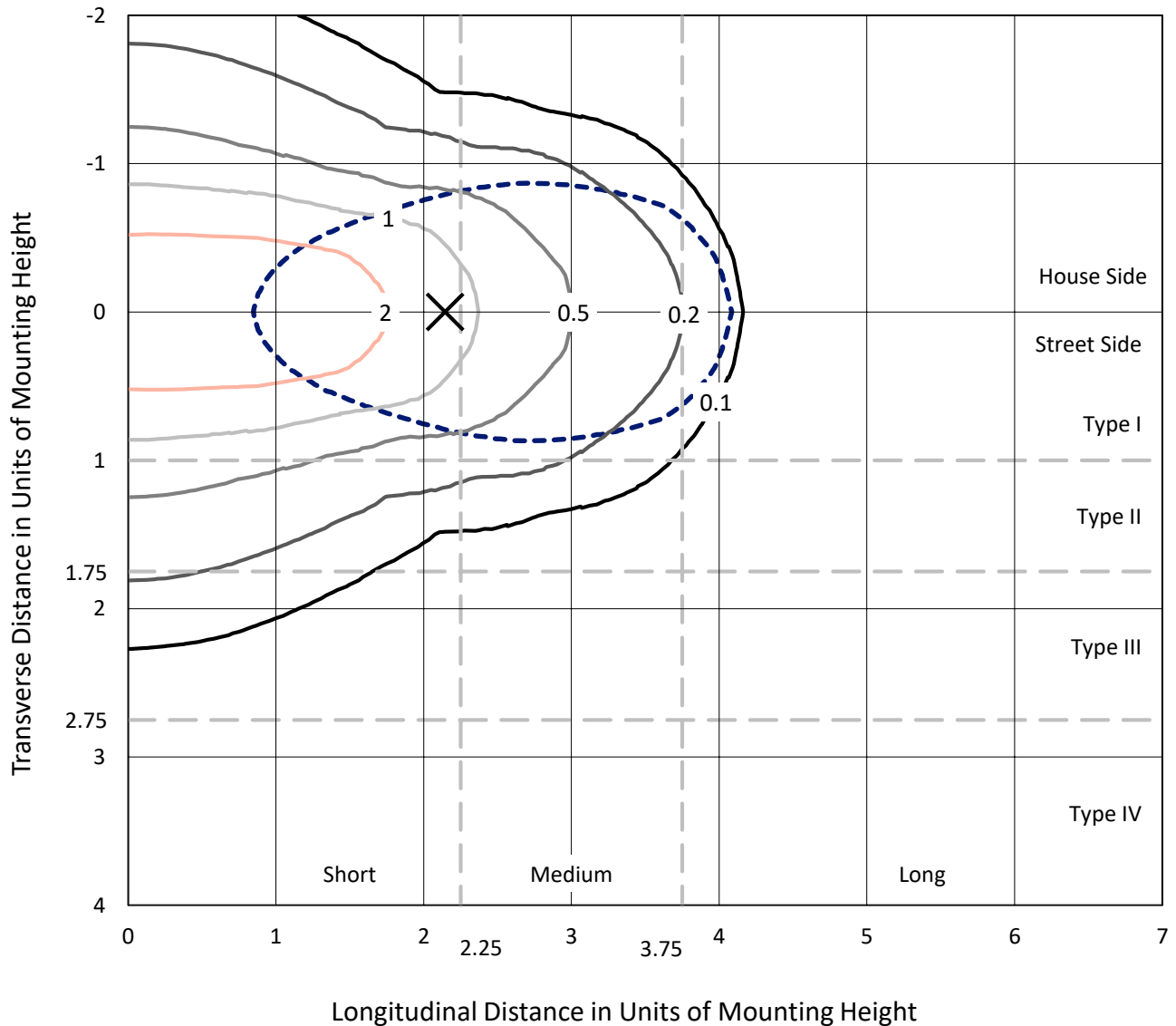
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

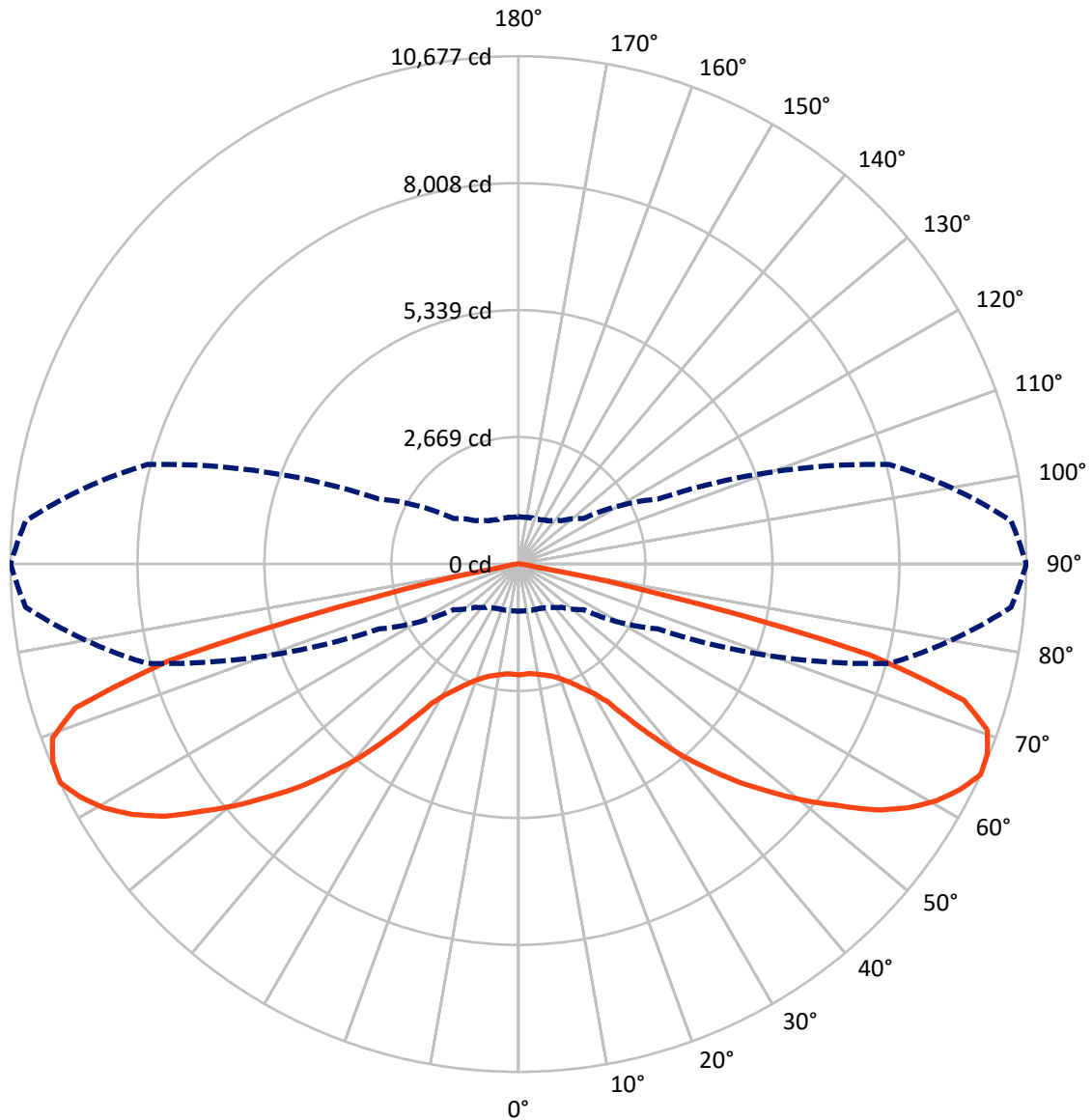
✕ Max cd
 - - - 1/2 Max cd



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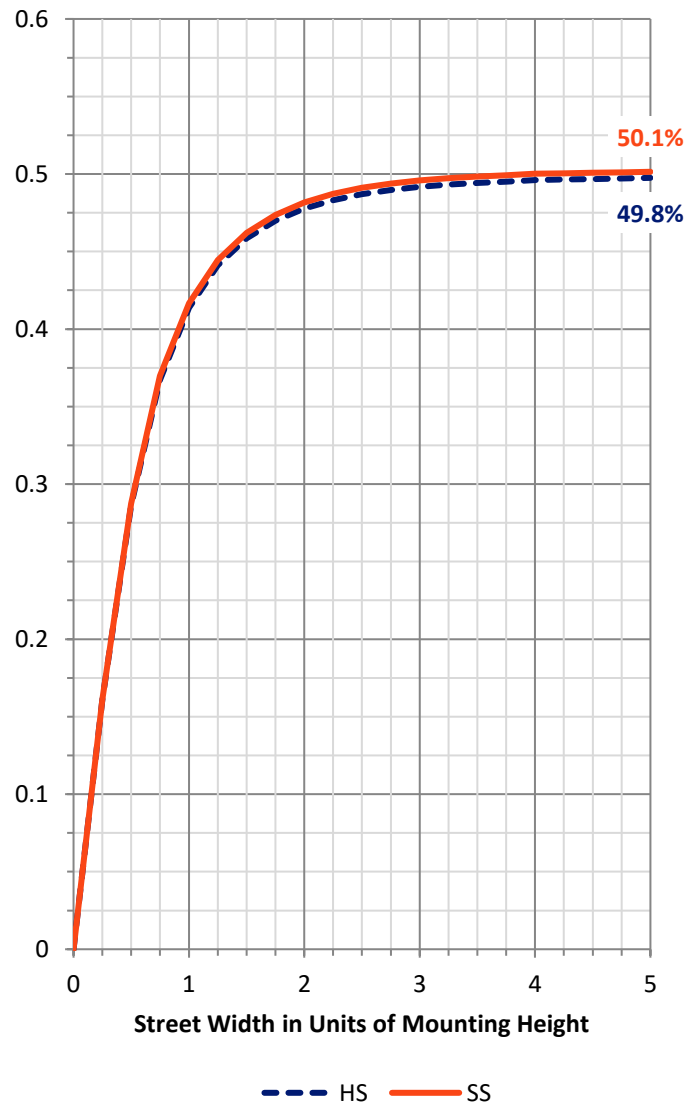
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6892.5	0.0	6892.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6892.5	0.0	6892.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13785.0	0.0	13785.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.2	1.6
10°-20°	658.9	4.8
20°-30°	1088.2	7.9
30°-40°	1606.1	11.7
40°-50°	2336.9	17.0
50°-60°	2991.4	21.7
60°-70°	3128.2	22.7
70°-80°	1687.7	12.2
80°-90°	66.4	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°	13785.0	100.0
0°-180°	13785.0	100.0



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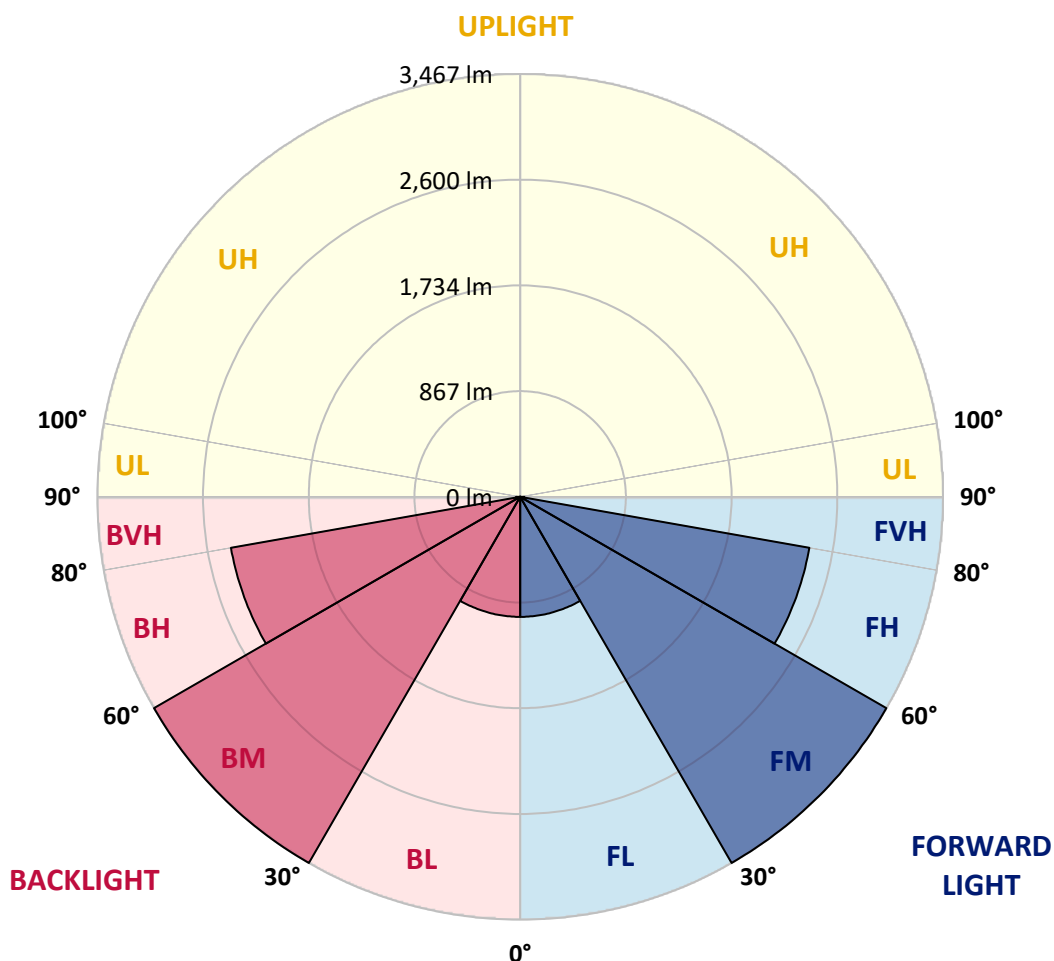
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	984.2	7.1			
FM	(30°-60°)	3467.2	25.2			
FH	(60°-80°)	2407.9	17.5			G2/5000
FVH	(80°-90°)	33.2	0.2			G1/100
BL	(0°-30°)	984.2	7.1	B2/1000		
BM	(30°-60°)	3467.2	25.2	B3/5000		
BH	(60°-80°)	2407.9	17.5	B3/2500		G3/2500
BVH	(80°-90°)	33.2	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°	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3
2.5°	2319.7	2328.1	2332.3	2330.9	2322.5	2322.5	2322.5	2322.5	2319.7	2318.3	2319.7
5°	2302.8	2309.9	2318.3	2314.1	2309.9	2314.1	2314.1	2314.1	2315.5	2315.5	2315.5
7.5°	2288.8	2298.6	2302.8	2308.5	2298.6	2309.9	2326.7	2329.5	2330.9	2330.9	2330.9
10°	2276.2	2284.6	2295.8	2294.4	2298.6	2315.5	2333.7	2354.8	2356.2	2360.4	2360.4
12.5°	2245.3	2256.5	2269.1	2277.6	2283.2	2322.5	2340.8	2367.4	2388.5	2391.3	2392.7
15°	2207.4	2214.4	2228.4	2248.1	2277.6	2319.7	2360.4	2394.1	2427.8	2436.2	2436.2
17.5°	2149.8	2158.2	2177.9	2206.0	2259.3	2328.1	2392.7	2437.6	2479.8	2492.4	2495.2
20°	2071.2	2086.6	2113.3	2162.4	2234.0	2333.7	2427.8	2495.2	2550.0	2578.1	2579.5
22.5°	1977.1	1988.3	2036.1	2106.3	2207.4	2333.7	2464.3	2562.6	2638.4	2682.0	2686.2
25°	1874.6	1884.4	1946.2	2044.5	2173.7	2335.1	2500.8	2637.0	2755.0	2812.6	2818.2
27.5°	1781.9	1791.7	1861.9	1981.3	2144.2	2339.4	2540.2	2728.3	2892.6	2969.8	2985.3
30°	1696.2	1700.5	1780.5	1912.5	2111.9	2342.2	2587.9	2828.0	3037.2	3162.2	3170.6
32.5°	1616.2	1627.4	1701.9	1843.7	2074.0	2346.4	2651.1	2969.8	3268.9	3457.1	3464.1
35°	1544.6	1554.4	1628.8	1773.5	2023.4	2357.6	2719.9	3151.0	3604.5	3933.1	3987.9
37.5°	1487.0	1496.9	1562.8	1699.1	1971.5	2354.8	2809.8	3371.4	4014.5	4534.1	4616.9
40°	1440.7	1451.9	1505.3	1628.8	1902.7	2333.7	2903.8	3610.1	4461.1	5167.4	5290.9
42.5°	1401.4	1411.2	1457.5	1567.1	1828.2	2300.0	2988.1	3826.4	4892.1	5811.9	5910.2
45°	1356.4	1367.7	1412.6	1515.1	1759.4	2248.1	3044.3	4038.4	5328.8	6424.1	6564.5
47.5°	1326.9	1334.0	1369.1	1464.6	1682.2	2166.6	3054.1	4188.7	5796.4	7071.4	7168.3
50°	1300.3	1298.9	1329.8	1414.0	1610.6	2062.7	3002.1	4305.2	6241.6	7675.2	7819.9
52.5°	1262.4	1263.8	1289.0	1364.9	1540.4	1942.0	2878.6	4334.7	6699.3	8280.4	8437.7
55°	1217.4	1221.6	1245.5	1308.7	1468.8	1822.6	2667.9	4281.3	7192.2	8878.6	9131.4
57.5°	1173.9	1171.1	1195.0	1251.1	1391.5	1701.9	2427.8	4145.1	7665.4	9507.7	9666.3
60°	1123.3	1126.1	1143.0	1189.3	1310.1	1574.1	2159.6	3909.2	7984.1	9993.5	10104.4
62.5°	1065.8	1065.8	1081.2	1116.3	1216.0	1435.1	1902.7	3597.5	8163.9	10246.3	10430.2
65°	992.8	988.5	1005.4	1030.7	1106.5	1286.2	1668.2	3231.0	8075.4	10399.3	10677.4
67.5°	914.1	905.7	914.1	925.4	981.5	1126.1	1430.9	2899.6	7662.6	10301.0	10635.2
70°	811.6	800.4	804.6	804.6	842.5	939.4	1199.2	2618.8	6720.4	9983.7	10458.3
72.5°	664.2	660.0	667.0	661.4	689.5	754.0	994.2	2277.6	5476.3	9222.6	9792.7
75°	404.4	410.0	432.5	471.8	497.1	546.2	727.4	1801.6	4146.5	6957.7	7638.7
77.5°	168.5	188.2	207.8	214.8	242.9	237.3	328.6	817.2	1679.4	2770.4	2999.3
80°	56.2	57.6	127.8	141.8	155.9	127.8	125.0	273.8	480.2	405.8	341.2
82.5°	33.7	36.5	70.2	75.8	66.0	68.8	73.0	92.7	89.9	146.0	165.7
85°	16.9	18.3	30.9	35.1	35.1	42.1	42.1	44.9	50.6	88.5	95.5
87.5°	4.2	4.2	8.4	12.6	14.0	16.9	16.9	19.7	22.5	32.3	37.9
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)