

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: P509107

Luminaire Tested: **VERD-CA2-110-727-U-T1**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509107
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-CA2-110-727-U-T1
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1020mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14488 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

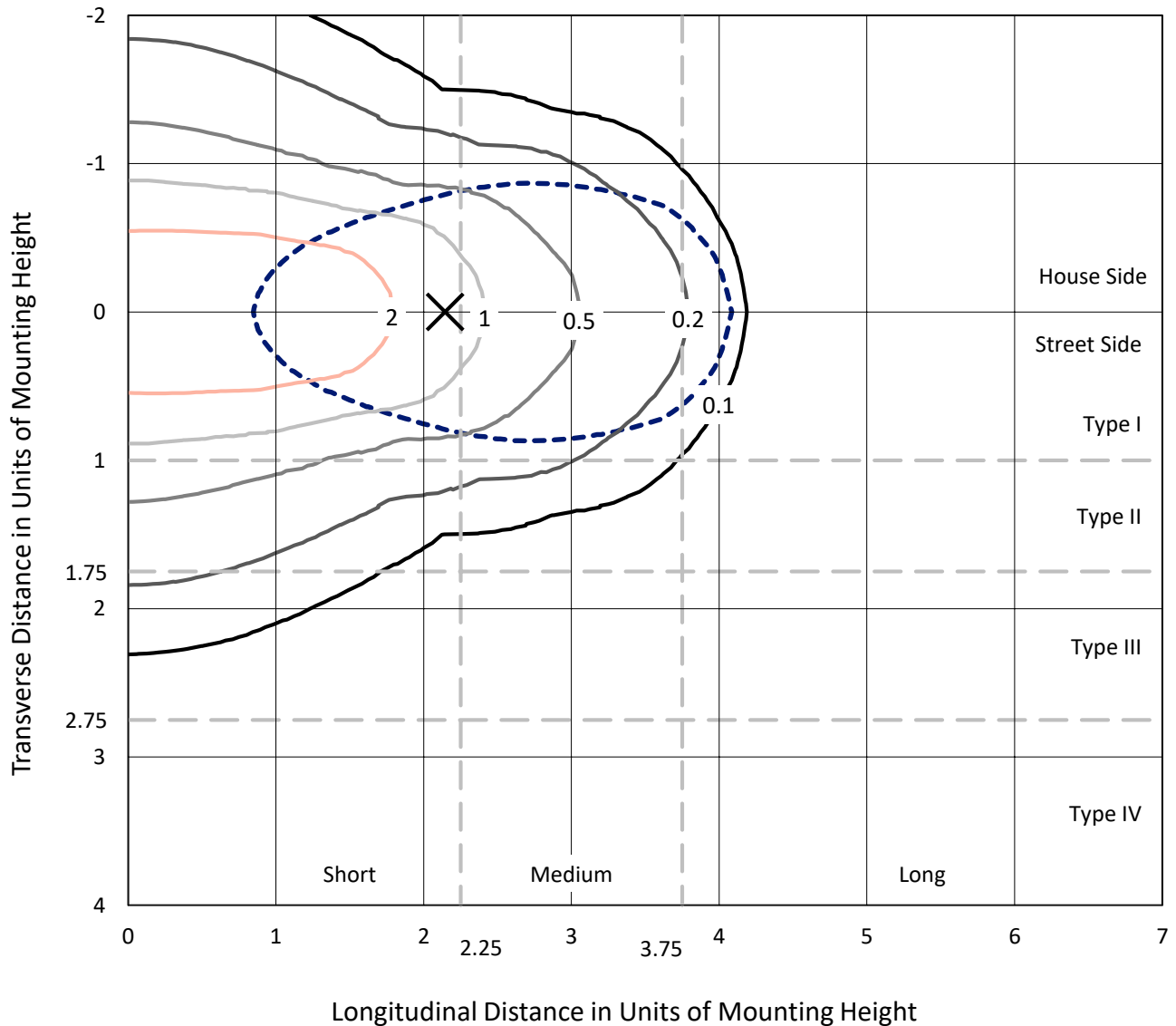
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

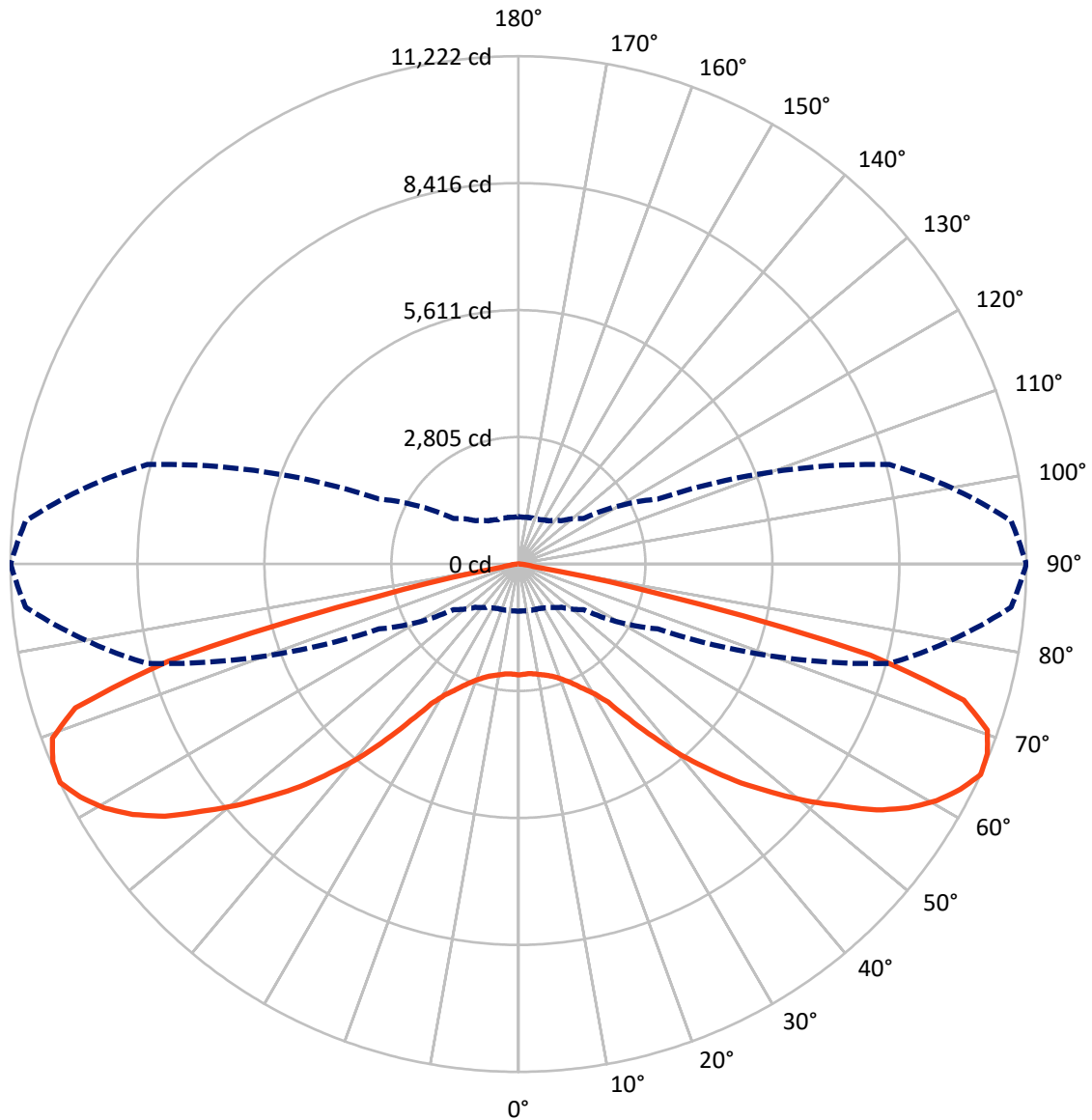
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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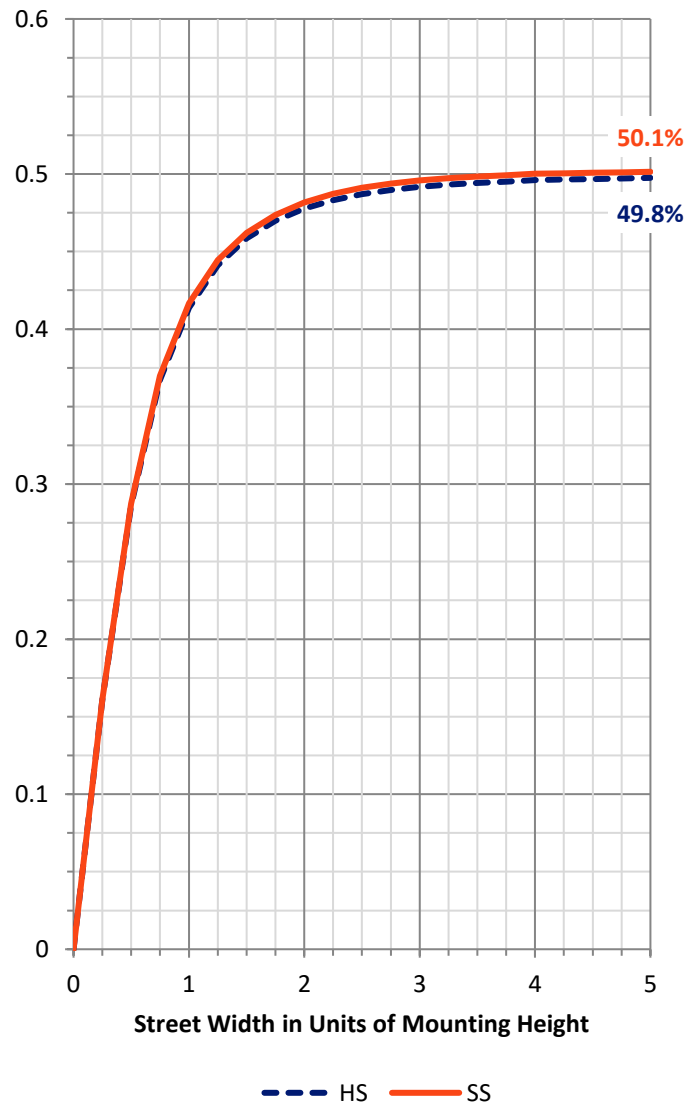
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7244.0	0.0	7244.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7244.0	0.0	7244.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14488.0	0.0	14488.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.5	1.6
10°-20°	692.5	4.8
20°-30°	1143.6	7.9
30°-40°	1688.0	11.7
40°-50°	2456.1	17.0
50°-60°	3144.0	21.7
60°-70°	3287.7	22.7
70°-80°	1773.7	12.2
80°-90°	69.8	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°	14488.0	100.0
0°-180°	14488.0	100.0



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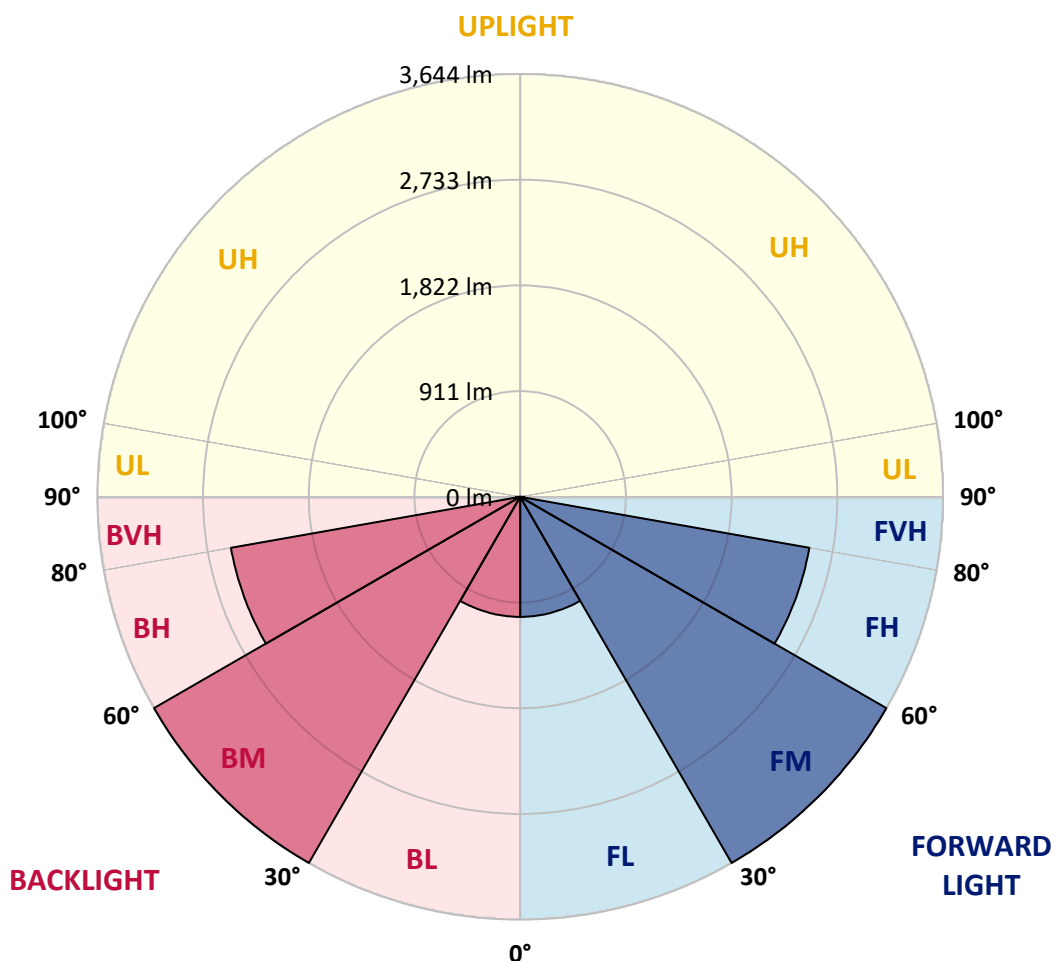
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1034.3	7.1			
FM	(30°-60°)	3644.0	25.2			
FH	(60°-80°)	2530.7	17.5			G2/5000
FVH	(80°-90°)	34.9	0.2			G1/100
BL	(0°-30°)	1034.3	7.1	B3/2500		
BM	(30°-60°)	3644.0	25.2	B3/5000		
BH	(60°-80°)	2530.7	17.5	B4/5000		G4/5000
BVH	(80°-90°)	34.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3
2.5°	2438.0	2446.9	2451.3	2449.8	2440.9	2440.9	2440.9	2440.9	2438.0	2436.5	2438.0
5°	2420.3	2427.7	2436.5	2432.1	2427.7	2432.1	2432.1	2432.1	2433.6	2433.6	2433.6
7.5°	2405.5	2415.9	2420.3	2426.2	2415.9	2427.7	2445.4	2448.3	2449.8	2449.8	2449.8
10°	2392.2	2401.1	2412.9	2411.4	2415.9	2433.6	2452.8	2474.9	2476.4	2480.8	2480.8
12.5°	2359.8	2371.6	2384.9	2393.7	2399.6	2440.9	2460.1	2488.2	2510.3	2513.3	2514.7
15°	2319.9	2327.3	2342.1	2362.7	2393.7	2438.0	2480.8	2516.2	2551.6	2560.5	2560.5
17.5°	2259.4	2268.3	2288.9	2318.5	2374.5	2446.9	2514.7	2562.0	2606.2	2619.5	2622.5
20°	2176.8	2193.0	2221.1	2272.7	2348.0	2452.8	2551.6	2622.5	2680.0	2709.5	2711.0
22.5°	2077.9	2089.7	2139.9	2213.7	2319.9	2452.8	2590.0	2693.3	2773.0	2818.7	2823.2
25°	1970.2	1980.5	2045.4	2148.7	2284.5	2454.2	2628.4	2771.5	2895.5	2956.0	2961.9
27.5°	1872.8	1883.1	1956.9	2082.3	2253.5	2458.7	2669.7	2867.5	3040.1	3121.3	3137.5
30°	1782.7	1787.2	1871.3	2010.0	2219.6	2461.6	2719.9	2972.2	3192.1	3323.5	3332.3
32.5°	1698.6	1710.4	1788.7	1937.7	2179.7	2466.0	2786.3	3121.3	3435.6	3633.4	3640.8
35°	1623.4	1633.7	1711.9	1863.9	2126.6	2477.8	2858.6	3311.7	3788.3	4133.7	4191.2
37.5°	1562.9	1573.2	1642.5	1785.7	2072.0	2474.9	2953.0	3543.4	4219.3	4765.3	4852.4
40°	1514.2	1526.0	1582.0	1711.9	1999.7	2452.8	3051.9	3794.2	4688.6	5430.9	5560.8
42.5°	1472.8	1483.2	1531.9	1647.0	1921.5	2417.3	3140.5	4021.5	5141.6	6108.3	6211.6
45°	1425.6	1437.4	1484.6	1592.4	1849.2	2362.7	3199.5	4244.4	5600.6	6751.7	6899.3
47.5°	1394.6	1402.0	1438.9	1539.2	1768.0	2277.1	3209.8	4402.3	6092.0	7432.1	7533.9
50°	1366.6	1365.1	1397.6	1486.1	1692.7	2167.9	3155.2	4524.8	6559.9	8066.6	8218.6
52.5°	1326.7	1328.2	1354.8	1434.5	1618.9	2041.0	3025.4	4555.7	7041.0	8702.7	8868.0
55°	1279.5	1283.9	1309.0	1375.4	1543.7	1915.6	2804.0	4499.7	7559.0	9331.4	9597.0
57.5°	1233.8	1230.8	1255.9	1314.9	1462.5	1788.7	2551.6	4356.5	8056.3	9992.5	10159.3
60°	1180.6	1183.6	1201.3	1250.0	1376.9	1654.4	2269.8	4108.6	8391.3	10503.2	10619.7
62.5°	1120.1	1120.1	1136.4	1173.2	1278.0	1508.3	1999.7	3781.0	8580.2	10768.8	10962.1
65°	1043.4	1039.0	1056.7	1083.2	1162.9	1351.8	1753.2	3395.8	8487.2	10929.7	11221.9
67.5°	960.7	951.9	960.7	972.5	1031.6	1183.6	1503.8	3047.5	8053.4	10826.4	11177.6
70°	853.0	841.2	845.6	845.6	885.5	987.3	1260.3	2752.3	7063.1	10492.8	10991.6
72.5°	698.0	693.6	701.0	695.1	724.6	792.5	1044.9	2393.7	5755.6	9693.0	10292.1
75°	425.0	430.9	454.5	495.9	522.4	574.1	764.5	1893.4	4358.0	7312.5	8028.3
77.5°	177.1	197.8	218.4	225.8	255.3	249.4	345.3	858.9	1765.0	2911.7	3152.3
80°	59.0	60.5	134.3	149.1	163.8	134.3	131.3	287.8	504.7	426.5	358.6
82.5°	35.4	38.4	73.8	79.7	69.4	72.3	76.7	97.4	94.5	153.5	174.1
85°	17.7	19.2	32.5	36.9	36.9	44.3	44.3	47.2	53.1	93.0	100.4
87.5°	4.4	4.4	8.9	13.3	14.8	17.7	17.7	20.7	23.6	33.9	39.8
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)