

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: P509914

Luminaire Tested: **VERD-M-CA3-160-760-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-8)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-160-760-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 1000mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23933 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

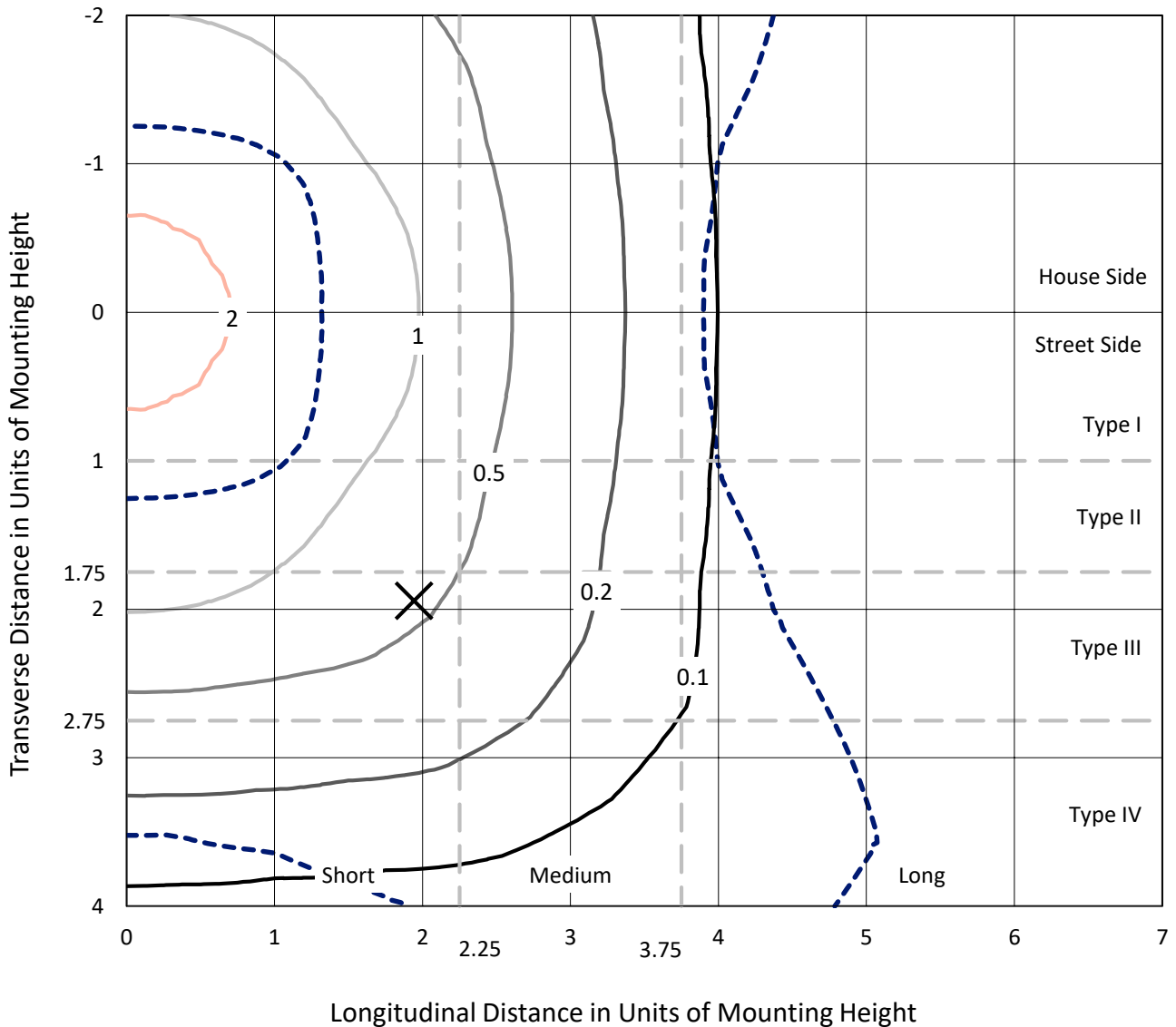
Input Watts (W): 162.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

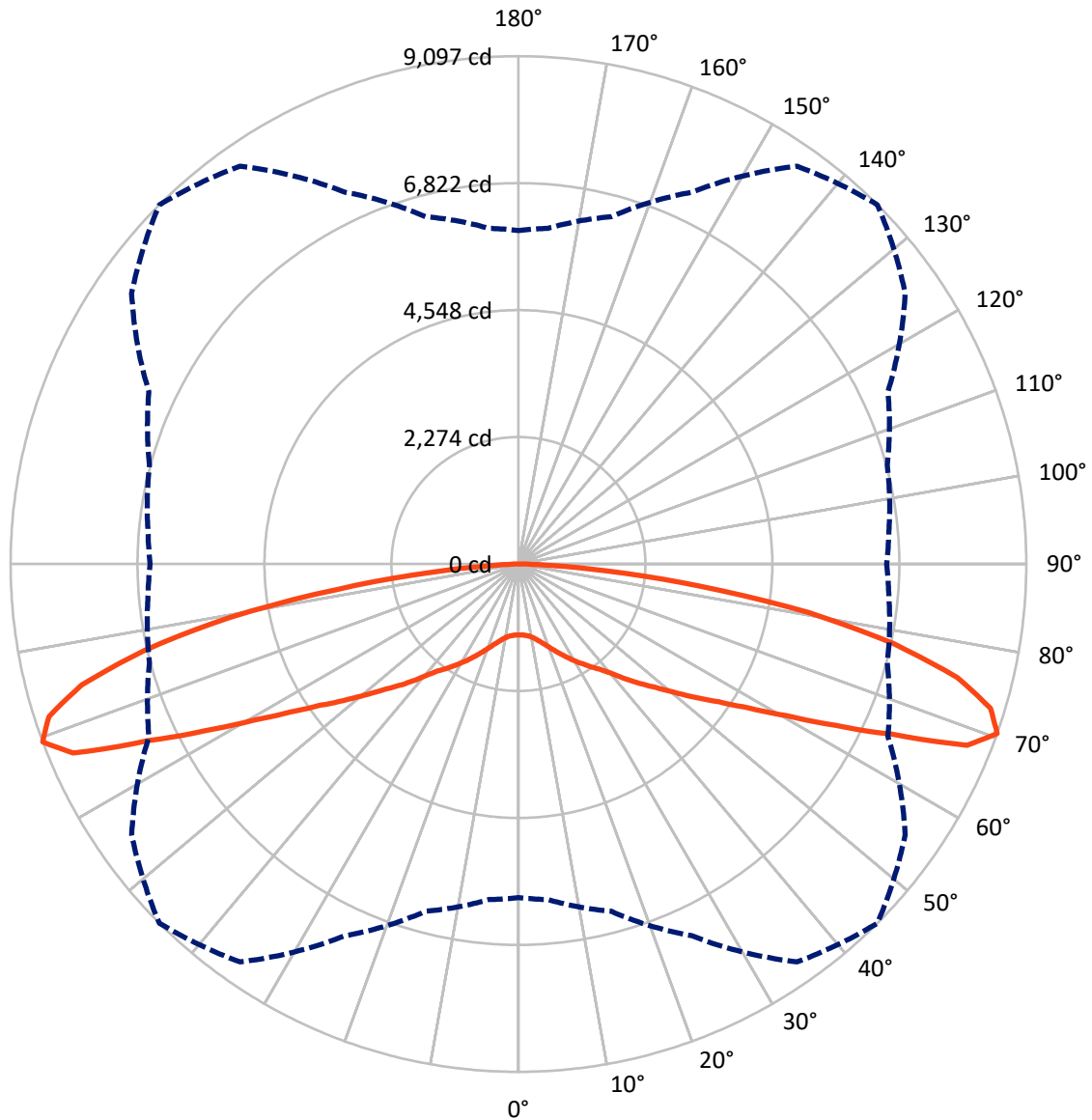
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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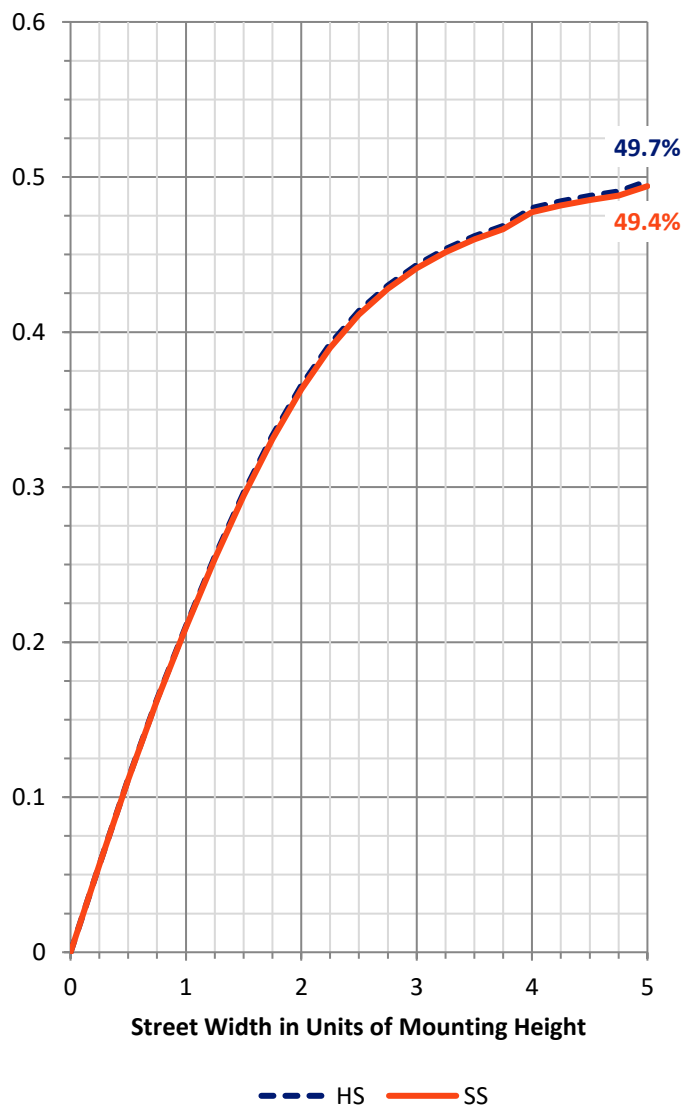
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11966.5	0.0	11966.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11966.5	0.0	11966.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23933.0	0.0	23933.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	0.5
10°-20°	412.1	1.7
20°-30°	824.1	3.4
30°-40°	1433.9	6.0
40°-50°	2494.6	10.4
50°-60°	4343.5	18.1
60°-70°	7034.6	29.4
70°-80°	6034.9	25.2
80°-90°	1231.0	5.1
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°	23933.0	100.0
0°-180°	23933.0	100.0

Coefficient of Utilization



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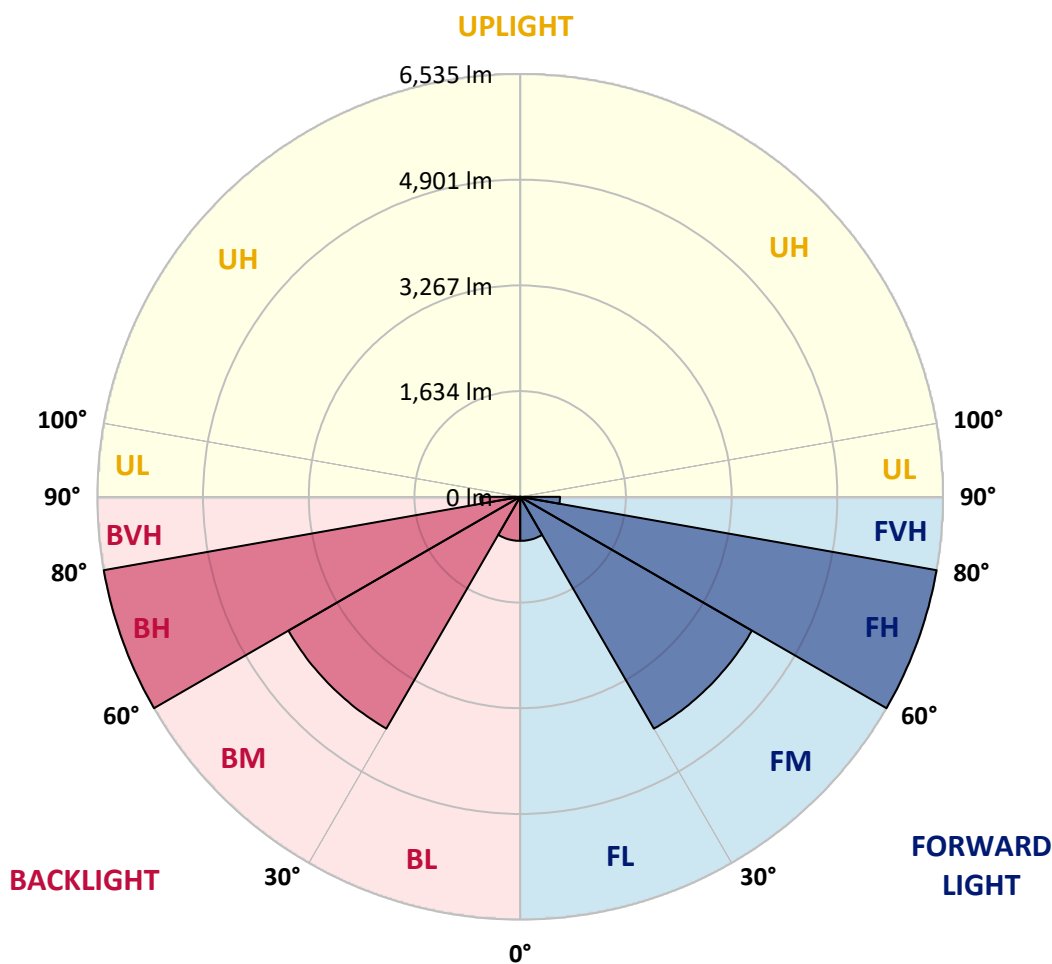
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	680.3	2.8			
FM (30°-60°)	4136.0	17.3			
FH (60°-80°)	6534.7	27.3			G3/7500
FVH (80°-90°)	615.5	2.6			G4/750
BL (0°-30°)	680.3	2.8	B2/1000		
BM (30°-60°)	4136.0	17.3	B3/5000		
BH (60°-80°)	6534.7	27.3	B5		G3/7500
BVH (80°-90°)	615.5	2.6			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0
2.5°	1268.8	1276.1	1275.1	1273.0	1269.8	1269.8	1271.9	1279.3	1280.3	1280.3	1280.3
5°	1283.5	1290.8	1289.8	1287.7	1284.5	1283.5	1285.6	1292.9	1294.0	1294.0	1295.0
7.5°	1300.3	1308.7	1308.7	1307.6	1300.3	1300.3	1302.4	1311.8	1311.8	1313.9	1316.0
10°	1328.6	1338.1	1341.2	1337.0	1332.8	1330.7	1332.8	1342.3	1341.2	1339.1	1340.2
12.5°	1367.5	1376.9	1384.3	1383.2	1379.0	1376.9	1379.0	1384.3	1378.0	1369.6	1369.6
15°	1415.8	1428.4	1436.8	1436.8	1442.0	1438.9	1435.7	1436.8	1427.3	1420.0	1420.0
17.5°	1477.8	1488.3	1495.6	1501.9	1510.3	1510.3	1503.0	1500.9	1488.3	1482.0	1483.0
20°	1553.4	1561.8	1572.3	1577.5	1594.3	1595.4	1582.8	1577.5	1564.9	1556.5	1558.6
22.5°	1635.3	1650.0	1654.2	1670.0	1689.9	1691.0	1674.2	1662.6	1650.0	1643.7	1644.8
25°	1734.0	1748.7	1745.6	1759.2	1789.7	1792.8	1773.9	1757.1	1746.6	1740.3	1742.4
27.5°	1842.2	1856.9	1855.9	1855.9	1891.6	1905.2	1879.0	1861.1	1863.2	1851.7	1855.9
30°	1957.7	1970.3	1977.7	1965.1	1999.8	2021.8	1979.8	1981.9	1980.8	1973.5	1972.4
32.5°	2093.2	2104.8	2103.7	2095.3	2105.8	2137.3	2103.7	2114.2	2117.4	2118.4	2126.8
35°	2247.6	2261.3	2246.6	2235.0	2236.1	2266.5	2241.3	2258.1	2274.9	2281.2	2281.2
37.5°	2412.5	2419.9	2404.1	2386.3	2382.1	2398.9	2394.7	2422.0	2450.3	2466.1	2474.5
40°	2625.7	2632.0	2601.6	2566.9	2560.6	2579.5	2584.8	2644.6	2687.7	2717.1	2722.4
42.5°	2921.9	2920.9	2877.8	2813.7	2783.3	2812.7	2850.5	2919.8	2992.3	2998.6	3020.6
45°	3303.2	3288.5	3232.8	3137.2	3060.5	3050.0	3095.2	3198.1	3279.0	3313.7	3327.3
47.5°	3738.0	3721.2	3620.4	3472.3	3341.0	3300.0	3337.8	3467.0	3587.8	3638.2	3665.5
50°	4223.2	4203.3	4101.4	3900.8	3682.3	3607.7	3630.9	3791.6	3932.3	3996.4	4044.7
52.5°	4745.2	4742.1	4611.8	4380.8	4088.8	3968.0	3960.6	4153.9	4343.0	4428.0	4454.3
55°	5305.0	5289.3	5172.7	4921.7	4583.5	4357.7	4358.7	4573.0	4804.0	4915.4	4928.0
57.5°	5854.3	5848.0	5718.8	5504.6	5159.0	4861.8	4832.4	5117.0	5350.2	5441.6	5445.8
60°	6373.2	6393.1	6325.9	6129.5	5851.2	5515.1	5472.0	5712.5	5911.0	5989.8	6018.2
62.5°	6950.8	6957.1	6948.7	6803.8	6591.6	6364.8	6258.7	6381.6	6578.0	6643.1	6629.4
65°	7363.6	7404.6	7500.1	7574.7	7529.5	7356.2	7216.5	7222.9	7261.7	7219.7	7216.5
67.5°	6837.4	6926.7	7252.3	7776.4	8393.9	8663.8	8096.7	7463.4	7228.1	7075.8	7074.8
70°	5974.1	6033.9	6440.4	7346.8	8699.6	9096.6	8456.9	7301.6	6840.5	6659.9	6595.8
72.5°	5082.4	5129.6	5577.0	6502.4	8214.3	8841.3	8226.9	6826.9	6219.8	5821.8	5829.1
75°	4232.7	4225.3	4563.5	5514.0	7271.2	8119.8	7617.8	6075.9	5211.5	4849.2	4808.2
77.5°	2934.5	3001.7	3386.1	4357.7	5895.3	6871.0	6797.5	5001.5	3994.3	3607.7	3633.0
80°	1537.6	1579.6	2035.5	2958.7	4313.5	5270.4	5173.7	3537.4	2580.6	2153.1	2072.2
82.5°	640.7	668.0	930.6	1598.5	2636.2	3280.1	3235.9	2156.2	1438.9	1002.0	999.9
85°	272.0	273.1	394.9	684.8	1330.7	1558.6	1250.9	926.4	504.1	316.1	282.5
87.5°	115.5	119.7	160.7	314.0	421.2	340.3	200.6	123.9	83.0	50.4	38.9
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)