

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: P510026

Luminaire Tested: **VERD-M-CA4-190-727-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510026
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-CA4-190-727-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 870mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24108 lumens
Efficiency: N/A
Efficacy: 124.8 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

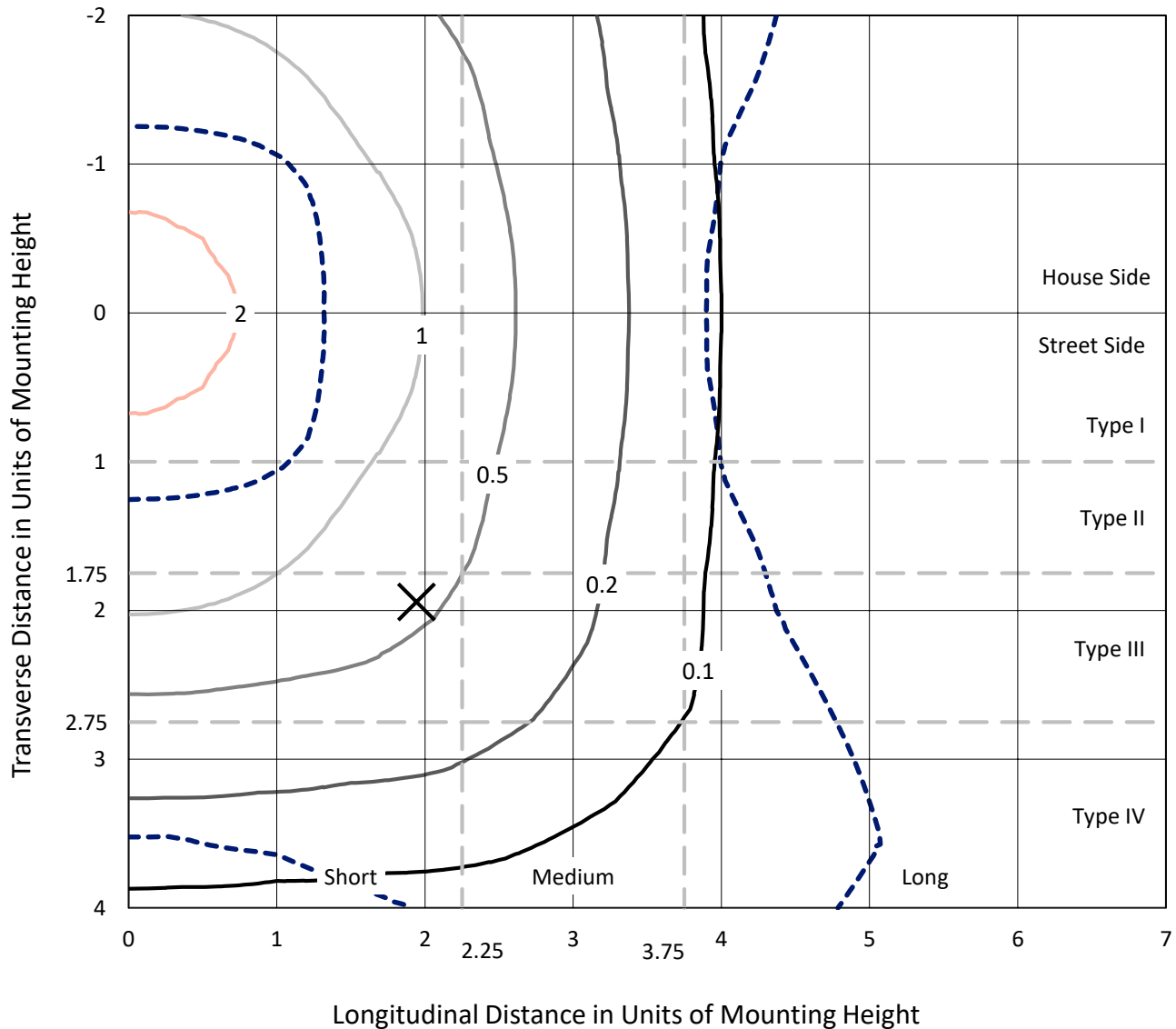
Input Watts (W): 193.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

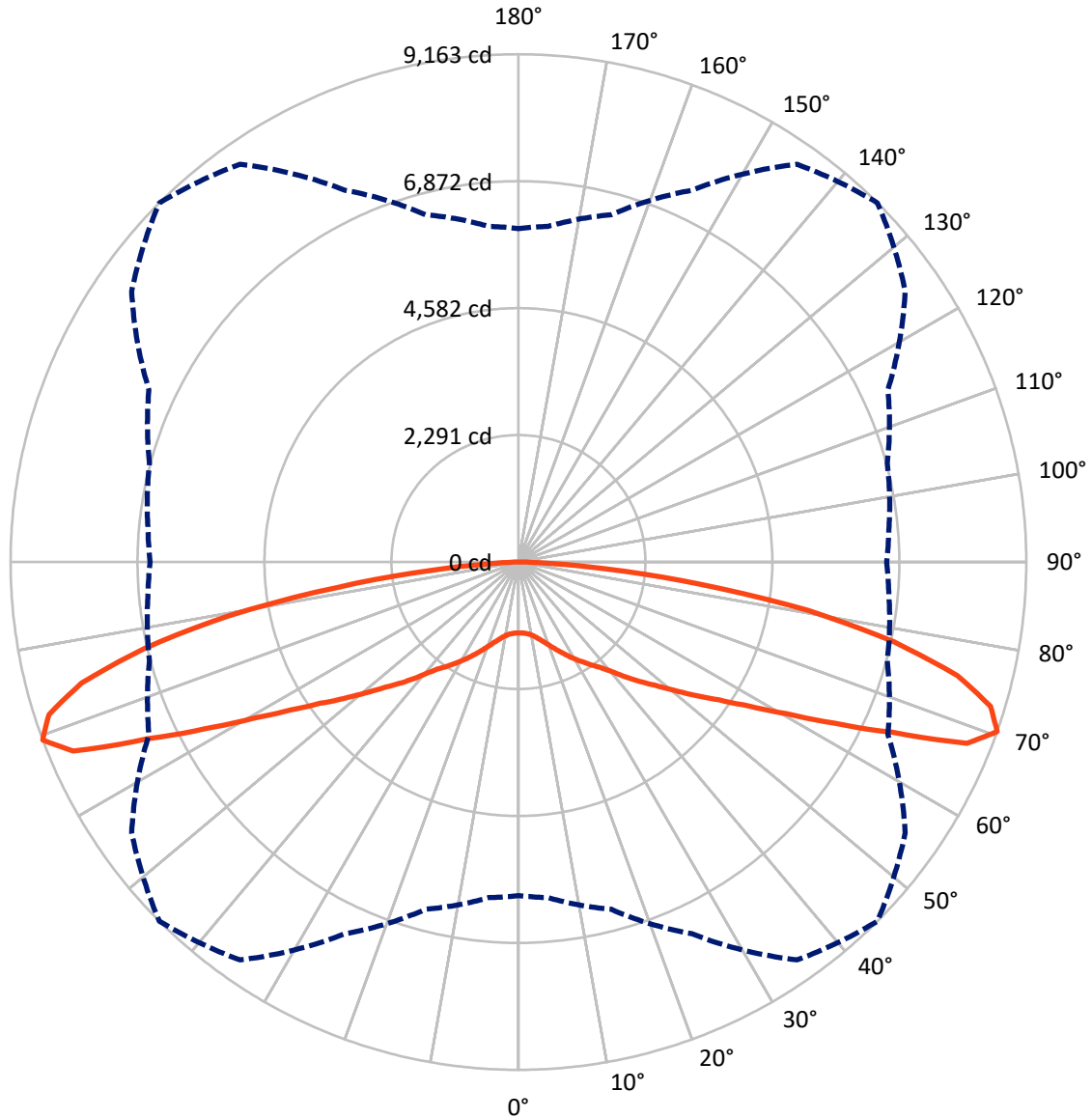
× Max cd
 - - - 1/2 Max cd



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

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CATALOG NUMBER: VERD-M-CA4-190-727-U-T5

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	12054.0	0.0	12054.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12054.0	0.0	12054.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24108.0	0.0	24108.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	0.5
10°-20°	415.1	1.7
20°-30°	830.1	3.4
30°-40°	1444.4	6.0
40°-50°	2512.9	10.4
50°-60°	4375.2	18.1
60°-70°	7086.0	29.4
70°-80°	6079.0	25.2
80°-90°	1240.0	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°	24108.0	100.0
0°-180°	24108.0	100.0



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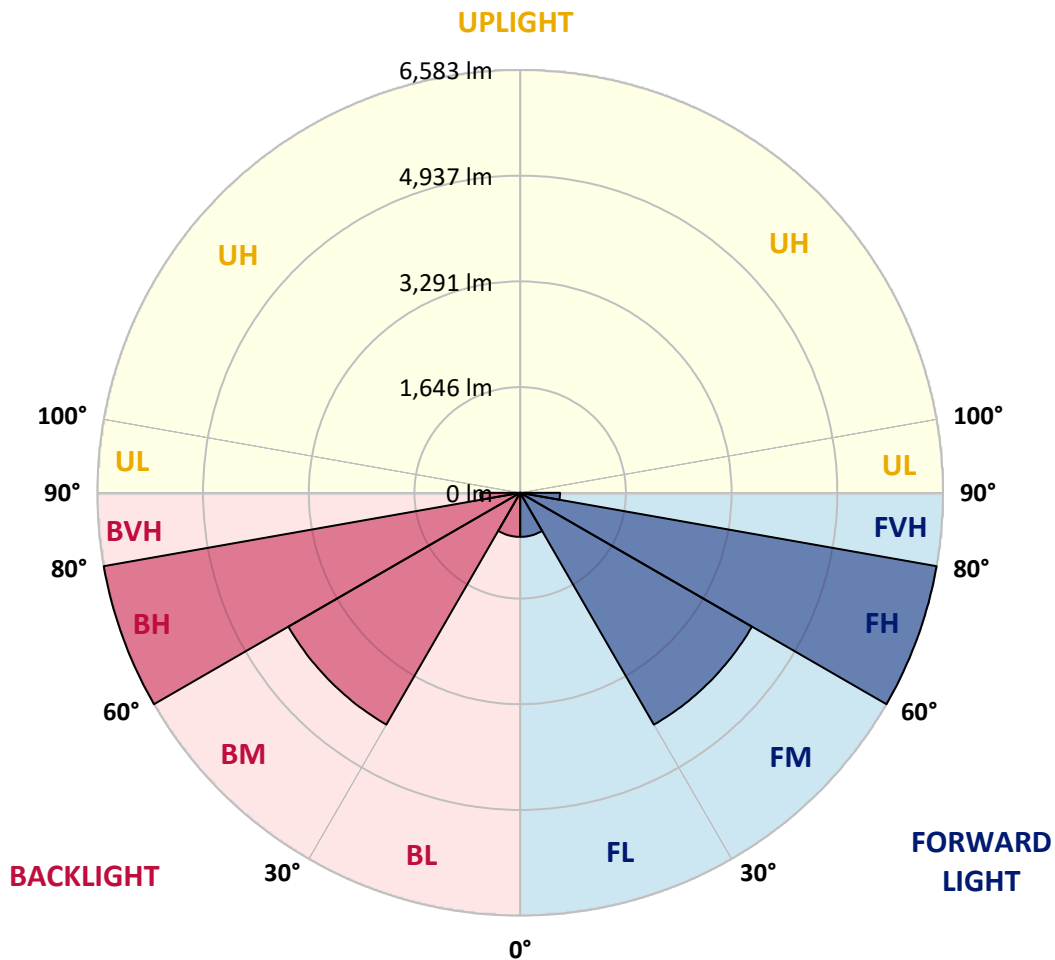
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	685.3	2.8			
FM (30°-60°)	4166.2	17.3			
FH (60°-80°)	6582.5	27.3			G3/7500
FVH (80°-90°)	620.0	2.6			G4/750
BL (0°-30°)	685.3	2.8	B2/1000		
BM (30°-60°)	4166.2	17.3	B3/5000		
BH (60°-80°)	6582.5	27.3	B5		G3/7500
BVH (80°-90°)	620.0	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°	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3
2.5°	1278.0	1285.4	1284.4	1282.3	1279.1	1279.1	1281.2	1288.6	1289.7	1289.7	1289.7
5°	1292.8	1300.2	1299.2	1297.1	1293.9	1292.8	1295.0	1302.4	1303.4	1303.4	1304.5
7.5°	1309.8	1318.2	1318.2	1317.2	1309.8	1309.8	1311.9	1321.4	1321.4	1323.5	1325.6
10°	1338.3	1347.9	1351.0	1346.8	1342.6	1340.4	1342.6	1352.1	1351.0	1348.9	1350.0
12.5°	1377.5	1387.0	1394.4	1393.3	1389.1	1387.0	1389.1	1394.4	1388.1	1379.6	1379.6
15°	1426.1	1438.8	1447.3	1447.3	1452.6	1449.4	1446.2	1447.3	1437.8	1430.4	1430.4
17.5°	1488.6	1499.1	1506.6	1512.9	1521.4	1521.4	1514.0	1511.8	1499.1	1492.8	1493.9
20°	1564.7	1573.2	1583.8	1589.1	1606.0	1607.1	1594.4	1589.1	1576.4	1567.9	1570.0
22.5°	1647.3	1662.1	1666.3	1682.2	1702.3	1703.3	1686.4	1674.8	1662.1	1655.7	1656.8
25°	1746.7	1761.5	1758.3	1772.1	1802.8	1806.0	1786.9	1770.0	1759.4	1753.1	1755.2
27.5°	1855.7	1870.5	1869.4	1869.4	1905.4	1919.2	1892.7	1874.7	1876.8	1865.2	1869.4
30°	1972.1	1984.8	1992.2	1979.5	2014.4	2036.6	1994.3	1996.4	1995.3	1987.9	1986.9
32.5°	2108.5	2120.2	2119.1	2110.7	2121.2	2153.0	2119.1	2129.7	2132.9	2133.9	2142.4
35°	2264.1	2277.8	2263.0	2251.4	2252.4	2283.1	2257.7	2274.6	2291.6	2297.9	2297.9
37.5°	2430.2	2437.6	2421.7	2403.7	2399.5	2416.4	2412.2	2439.7	2468.2	2484.1	2492.6
40°	2644.9	2651.3	2620.6	2585.7	2579.3	2598.4	2603.7	2664.0	2707.3	2737.0	2742.3
42.5°	2943.3	2942.2	2898.8	2834.3	2803.6	2833.2	2871.3	2941.2	3014.2	3020.5	3042.7
45°	3327.3	3312.5	3256.4	3160.2	3082.9	3072.3	3117.8	3221.5	3303.0	3337.9	3351.7
47.5°	3765.3	3748.4	3646.8	3497.7	3365.4	3324.1	3362.2	3492.4	3614.0	3664.8	3692.3
50°	4254.1	4234.0	4131.4	3929.3	3709.2	3634.1	3657.4	3819.3	3961.0	4025.6	4074.2
52.5°	4779.9	4776.7	4645.5	4412.8	4118.7	3997.0	3989.6	4184.3	4374.7	4460.4	4486.9
55°	5343.8	5327.9	5210.5	4957.7	4617.0	4389.5	4390.6	4606.4	4839.2	4951.3	4964.0
57.5°	5897.1	5890.8	5760.7	5544.8	5196.8	4897.3	4867.7	5154.4	5389.3	5481.3	5485.6
60°	6419.8	6439.9	6372.2	6174.3	5894.0	5555.4	5512.0	5754.3	5954.3	6033.6	6062.2
62.5°	7001.7	7008.0	6999.5	6853.5	6639.8	6411.3	6304.4	6428.2	6626.1	6691.7	6677.9
65°	7417.4	7458.7	7555.0	7630.1	7584.6	7410.0	7269.3	7275.7	7314.8	7272.5	7269.3
67.5°	6887.4	6977.3	7305.3	7833.2	8455.3	8727.2	8155.9	7517.9	7281.0	7127.5	7126.5
70°	6017.7	6078.0	6487.5	7400.5	8763.2	9163.1	8518.8	7355.0	6890.6	6708.6	6644.1
72.5°	5119.5	5167.1	5617.8	6549.9	8274.4	8906.0	8287.1	6876.8	6265.3	5864.3	5871.7
75°	4263.6	4256.2	4596.9	5554.3	7324.3	8179.2	7673.5	6120.4	5249.7	4884.7	4843.4
77.5°	2956.0	3023.7	3410.9	4389.5	5938.4	6921.2	6847.2	5038.1	4023.5	3634.1	3659.5
80°	1548.9	1591.2	2050.3	2980.3	4345.1	5308.9	5211.6	3563.2	2599.4	2168.8	2087.4
82.5°	645.4	672.9	937.4	1610.2	2655.5	3304.0	3259.6	2172.0	1449.4	1009.3	1007.2
85°	274.0	275.1	397.8	689.8	1340.4	1570.0	1260.0	933.1	507.8	318.4	284.6
87.5°	116.4	120.6	161.9	316.3	424.2	342.8	202.1	124.8	83.6	50.8	39.1
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)