

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: P509898

Luminaire Tested: **VERD-M-CA3-160-740-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509898
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-CA3-160-740-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1000mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24011 lumens
Efficiency: N/A
Efficacy: 147.6 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

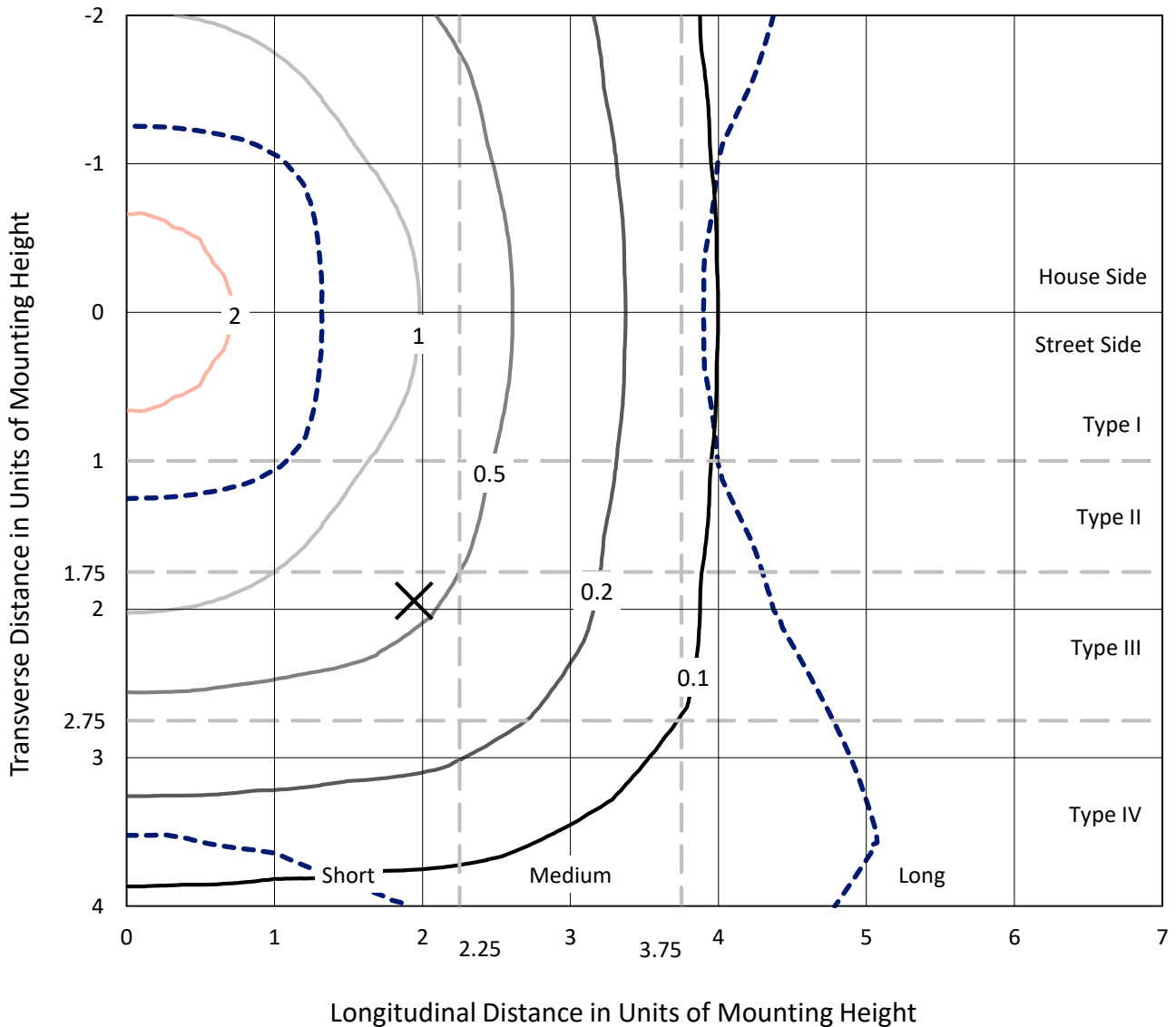
Input Watts (W): 162.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509898
 CATALOG NUMBER: VERD-M-CA3-160-740-U-T5

Iso-Footcandle Lines of Horizontal Illumination

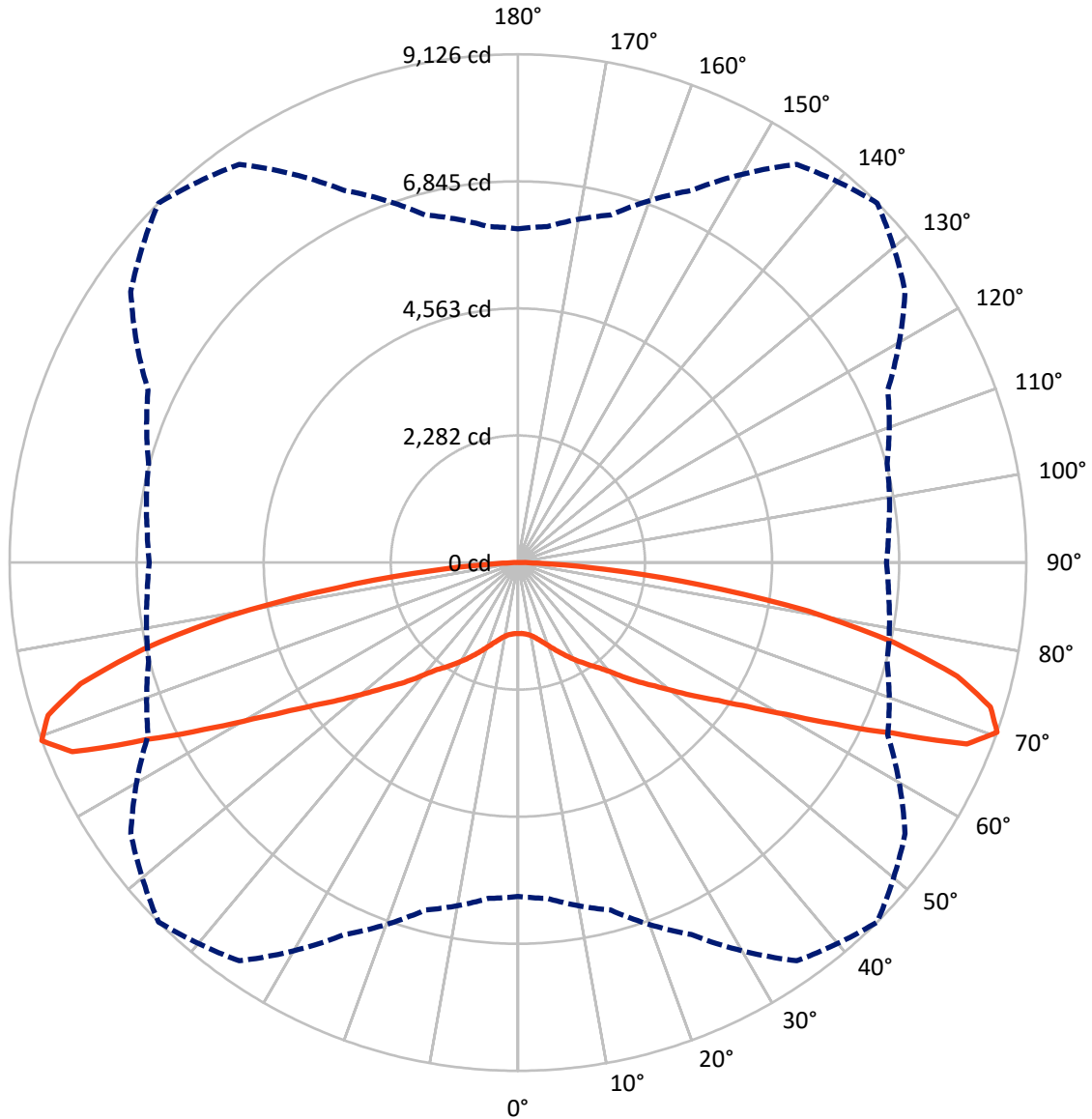
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P509898
CATALOG NUMBER: VERD-M-CA3-160-740-U-T5

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509898

CATALOG NUMBER: VERD-M-CA3-160-740-U-T5

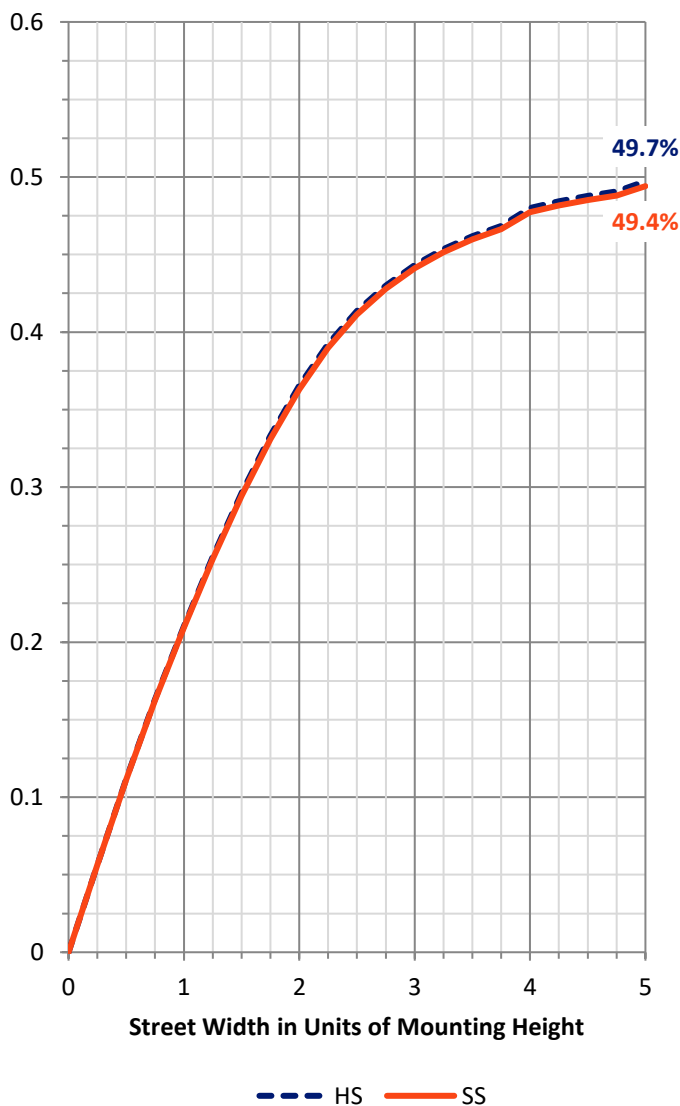
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12005.5	0.0	12005.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12005.5	0.0	12005.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24011.0	0.0	24011.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	0.5
10°-20°	413.4	1.7
20°-30°	826.8	3.4
30°-40°	1438.5	6.0
40°-50°	2502.8	10.4
50°-60°	4357.6	18.1
60°-70°	7057.5	29.4
70°-80°	6054.6	25.2
80°-90°	1235.0	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°	24011.0	100.0
0°-180°	24011.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509898

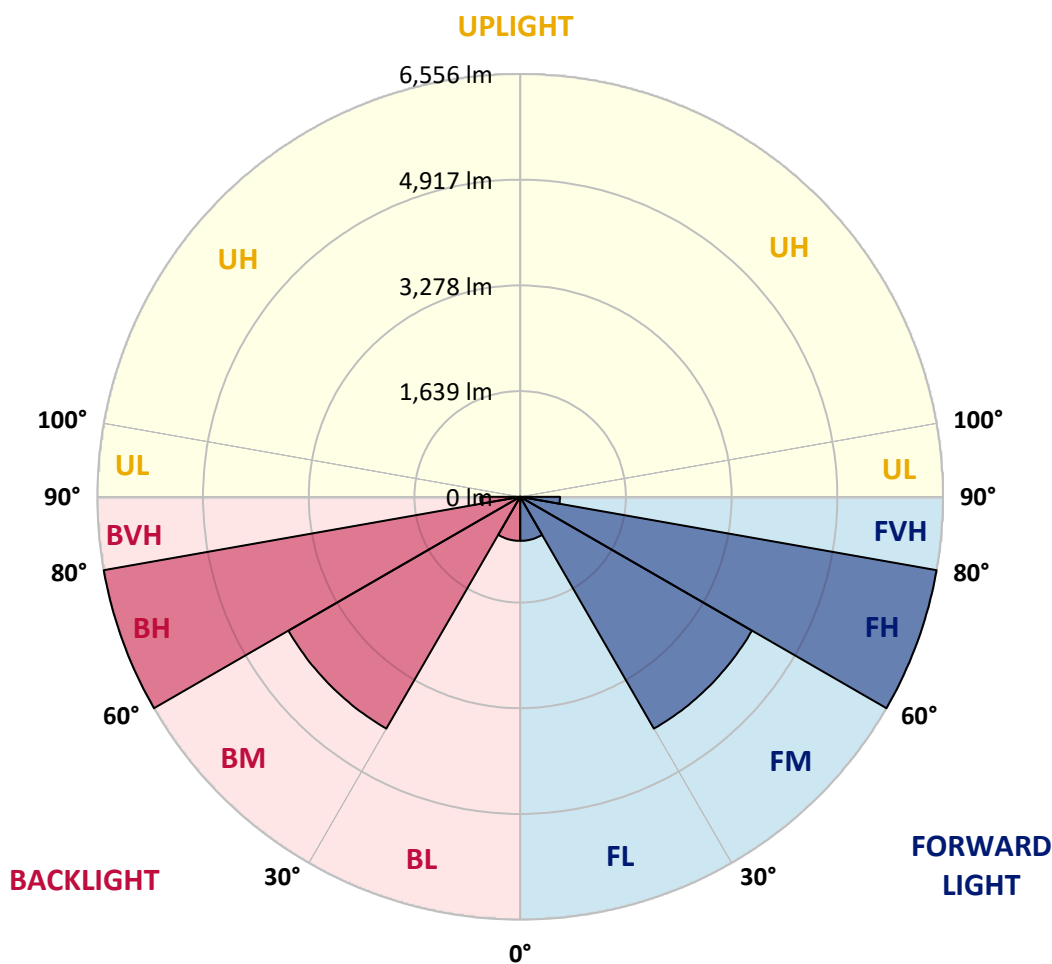
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	682.5	2.8			
FM (30°-60°)	4149.5	17.3			
FH (60°-80°)	6556.0	27.3			G3/7500
FVH (80°-90°)	617.5	2.6			G4/750
BL (0°-30°)	682.5	2.8	B2/1000		
BM (30°-60°)	4149.5	17.3	B3/5000		
BH (60°-80°)	6556.0	27.3	B5		G3/7500
BVH (80°-90°)	617.5	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





REPORT NUMBER: P509898

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1277.1	1277.1	1277.1	1277.1	1277.1	1277.1	1277.1	1277.1	1277.1	1277.1	1277.1
2.5°	1272.9	1280.3	1279.2	1277.1	1273.9	1273.9	1276.0	1283.4	1284.5	1284.5	1284.5
5°	1287.6	1295.0	1294.0	1291.9	1288.7	1287.6	1289.7	1297.1	1298.2	1298.2	1299.2
7.5°	1304.5	1312.9	1312.9	1311.9	1304.5	1304.5	1306.6	1316.1	1316.1	1318.2	1320.3
10°	1332.9	1342.4	1345.6	1341.4	1337.2	1335.1	1337.2	1346.6	1345.6	1343.5	1344.5
12.5°	1371.9	1381.4	1388.8	1387.7	1383.5	1381.4	1383.5	1388.8	1382.5	1374.0	1374.0
15°	1420.4	1433.1	1441.5	1441.5	1446.7	1443.6	1440.4	1441.5	1432.0	1424.6	1424.6
17.5°	1482.6	1493.1	1500.5	1506.8	1515.2	1515.2	1507.9	1505.8	1493.1	1486.8	1487.8
20°	1558.4	1566.9	1577.4	1582.7	1599.5	1600.6	1587.9	1582.7	1570.0	1561.6	1563.7
22.5°	1640.6	1655.4	1659.6	1675.4	1695.4	1696.5	1679.6	1668.0	1655.4	1649.1	1650.1
25°	1739.7	1754.4	1751.3	1765.0	1795.5	1798.7	1779.7	1762.9	1752.3	1746.0	1748.1
27.5°	1848.2	1863.0	1861.9	1861.9	1897.7	1911.4	1885.1	1867.2	1869.3	1857.7	1861.9
30°	1964.1	1976.8	1984.1	1971.5	2006.3	2028.4	1986.3	1988.4	1987.3	1979.9	1978.9
32.5°	2100.1	2111.6	2110.6	2102.2	2112.7	2144.3	2110.6	2121.1	2124.3	2125.3	2133.8
35°	2254.9	2268.6	2253.9	2242.3	2243.4	2273.9	2248.6	2265.5	2282.3	2288.7	2288.7
37.5°	2420.4	2427.8	2412.0	2394.0	2389.8	2406.7	2402.5	2429.9	2458.3	2474.1	2482.5
40°	2634.3	2640.6	2610.0	2575.3	2569.0	2587.9	2593.2	2653.3	2696.5	2726.0	2731.2
42.5°	2931.4	2930.4	2887.2	2822.9	2792.3	2821.8	2859.8	2929.3	3002.0	3008.4	3030.5
45°	3313.9	3299.2	3243.3	3147.4	3070.5	3060.0	3105.3	3208.6	3289.7	3324.5	3338.2
47.5°	3750.2	3733.3	3632.2	3483.6	3351.9	3310.8	3348.7	3478.3	3599.5	3650.1	3677.5
50°	4237.0	4217.0	4114.8	3913.5	3694.3	3619.5	3642.7	3803.9	3945.1	4009.4	4057.9
52.5°	4760.7	4757.5	4626.9	4395.0	4102.1	3980.9	3973.6	4167.4	4357.1	4442.5	4468.8
55°	5322.3	5306.5	5189.5	4937.7	4598.4	4371.9	4372.9	4587.9	4819.7	4931.4	4944.0
57.5°	5873.4	5867.1	5737.5	5522.5	5175.8	4877.6	4848.1	5133.7	5367.6	5459.3	5463.5
60°	6393.9	6414.0	6346.5	6149.5	5870.2	5533.1	5489.8	5731.1	5930.3	6009.3	6037.8
62.5°	6973.5	6979.8	6971.4	6826.0	6613.1	6385.5	6279.1	6402.4	6599.4	6664.7	6651.0
65°	7387.6	7428.7	7524.6	7599.4	7554.1	7380.2	7240.1	7246.4	7285.4	7243.2	7240.1
67.5°	6859.7	6949.2	7275.9	7801.7	8421.3	8692.1	8123.1	7487.7	7251.7	7098.9	7097.8
70°	5993.5	6053.6	6461.4	7370.7	8727.9	9126.2	8484.5	7325.4	6862.8	6681.6	6617.3
72.5°	5098.9	5146.3	5595.2	6523.5	8241.1	8870.2	8253.7	6849.1	6240.1	5840.7	5848.1
75°	4246.5	4239.1	4578.4	5532.0	7294.9	8146.3	7642.6	6095.7	5228.5	4865.0	4823.9
77.5°	2944.1	3011.5	3397.2	4371.9	5914.5	6893.4	6819.6	5017.8	4007.3	3619.5	3644.8
80°	1542.6	1584.8	2042.1	2968.3	4327.6	5287.5	5190.6	3548.9	2589.0	2160.1	2079.0
82.5°	642.8	670.2	933.6	1603.8	2644.8	3290.7	3246.5	2163.3	1443.6	1005.2	1003.1
85°	272.9	274.0	396.2	687.0	1335.1	1563.7	1255.0	929.4	505.8	317.2	283.4
87.5°	115.9	120.1	161.2	315.1	422.5	341.4	201.3	124.3	83.2	50.6	39.0
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)