

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: P509946

Luminaire Tested: **VERD-M-CA3-170-740-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509946
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-CA3-170-740-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1060mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25158 lumens
Efficiency: N/A
Efficacy: 145.6 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

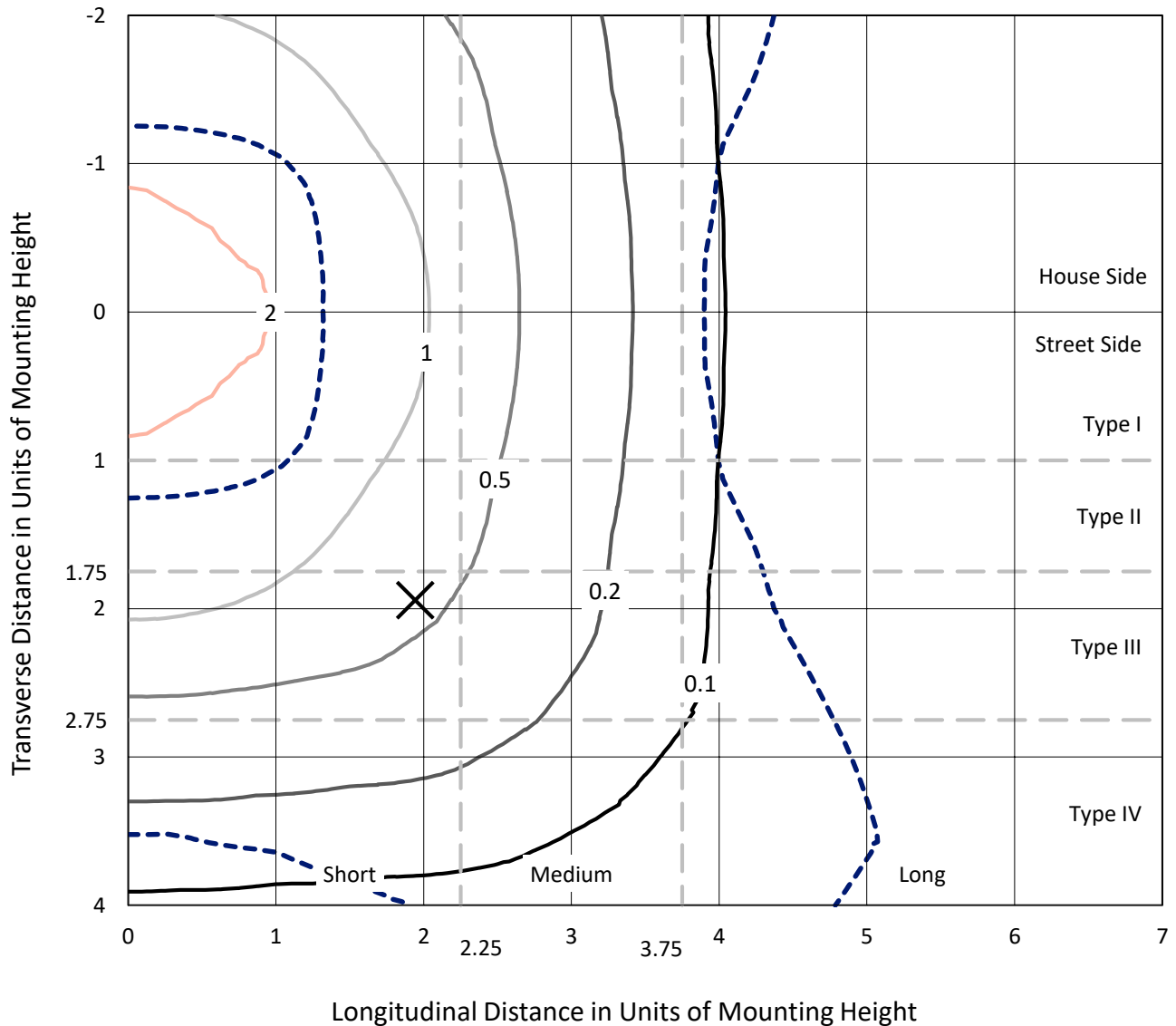
Input Watts (W): 172.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

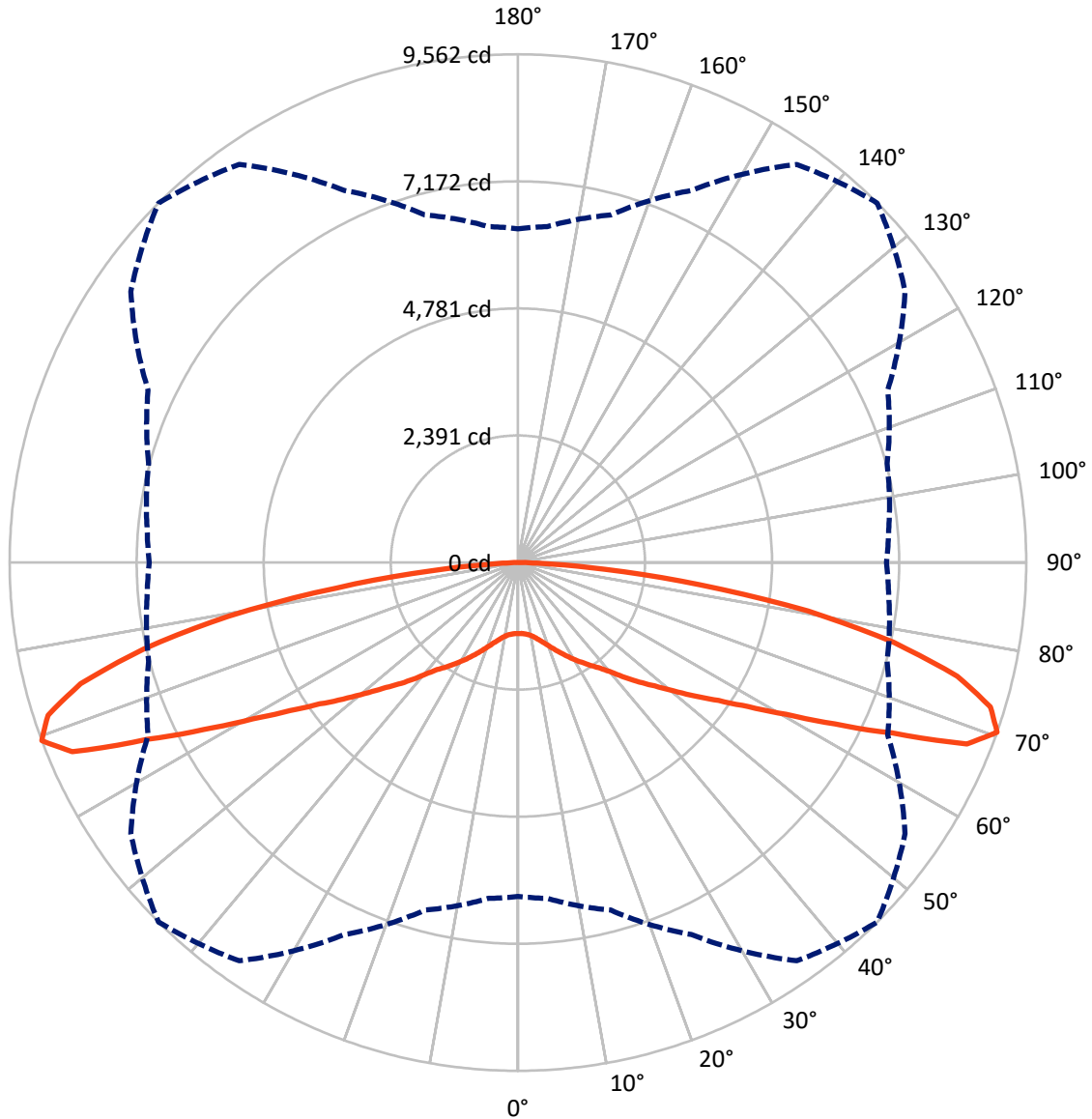
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	12579.0	0.0	12579.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12579.0	0.0	12579.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25158.0	0.0	25158.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	0.5
10°-20°	433.1	1.7
20°-30°	866.3	3.4
30°-40°	1507.3	6.0
40°-50°	2622.3	10.4
50°-60°	4565.8	18.1
60°-70°	7394.6	29.4
70°-80°	6343.8	25.2
80°-90°	1294.0	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°	25158.0	100.0
0°-180°	25158.0	100.0



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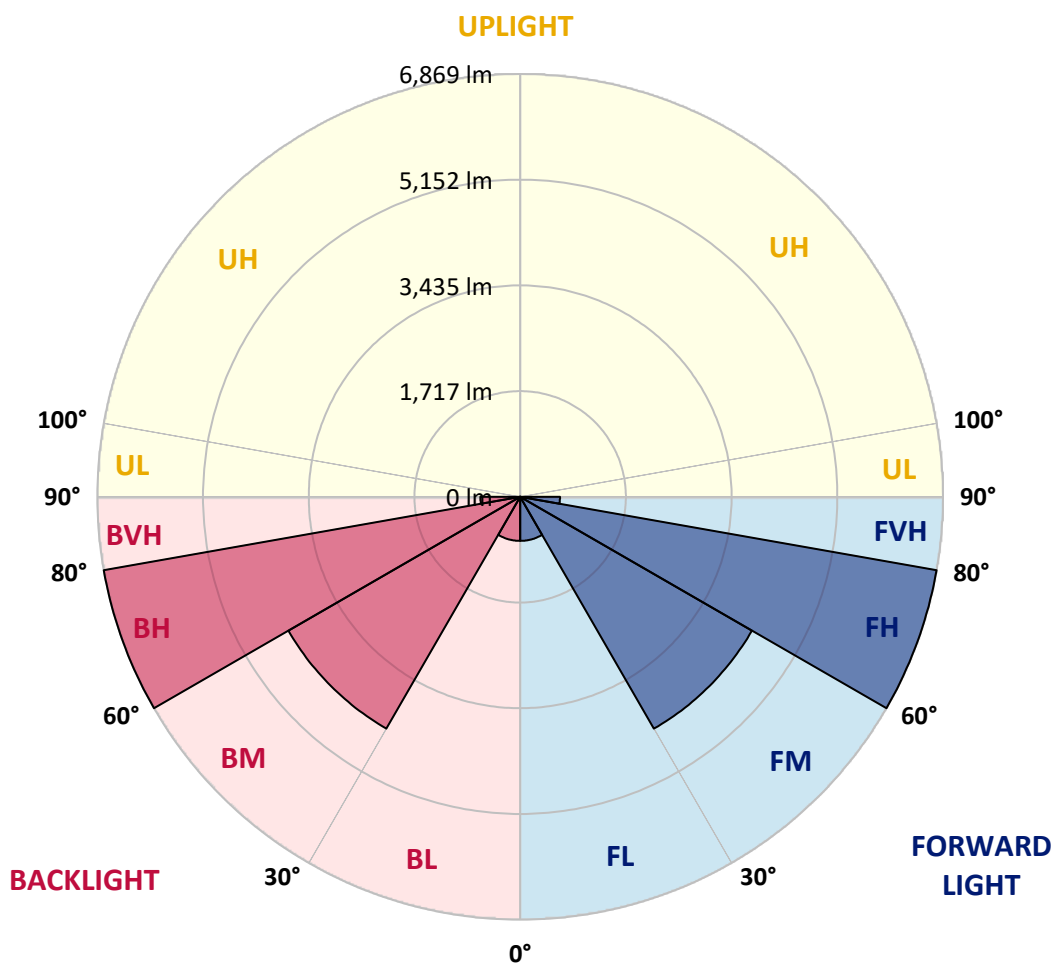
CATALOG NUMBER: VERD-M-CA3-170-740-U-T5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	715.1	2.8			
FM	(30°-60°)	4347.7	17.3			
FH	(60°-80°)	6869.2	27.3			G3/7500
FVH	(80°-90°)	647.0	2.6			G4/750
BL	(0°-30°)	715.1	2.8	B2/1000		
BM	(30°-60°)	4347.7	17.3	B3/5000		
BH	(60°-80°)	6869.2	27.3	B5		G3/7500
BVH	(80°-90°)	647.0	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°	1338.1	1338.1	1338.1	1338.1	1338.1	1338.1	1338.1	1338.1	1338.1	1338.1	1338.1
2.5°	1333.7	1341.4	1340.3	1338.1	1334.8	1334.8	1337.0	1344.7	1345.8	1345.8	1345.8
5°	1349.1	1356.9	1355.8	1353.6	1350.3	1349.1	1351.4	1359.1	1360.2	1360.2	1361.3
7.5°	1366.8	1375.6	1375.6	1374.5	1366.8	1366.8	1369.0	1379.0	1379.0	1381.2	1383.4
10°	1396.6	1406.6	1409.9	1405.5	1401.0	1398.8	1401.0	1411.0	1409.9	1407.7	1408.8
12.5°	1437.5	1447.4	1455.1	1454.0	1449.6	1447.4	1449.6	1455.1	1448.5	1439.7	1439.7
15°	1488.3	1501.5	1510.3	1510.3	1515.9	1512.5	1509.2	1510.3	1500.4	1492.7	1492.7
17.5°	1553.4	1564.4	1572.2	1578.8	1587.6	1587.6	1579.9	1577.7	1564.4	1557.8	1558.9
20°	1632.9	1641.7	1652.8	1658.3	1675.9	1677.1	1663.8	1658.3	1645.0	1636.2	1638.4
22.5°	1719.0	1734.5	1738.9	1755.4	1776.4	1777.5	1759.9	1747.7	1734.5	1727.8	1728.9
25°	1822.8	1838.2	1834.9	1849.3	1881.3	1884.6	1864.7	1847.1	1836.0	1829.4	1831.6
27.5°	1936.5	1952.0	1950.9	1950.9	1988.4	2002.7	1975.1	1956.4	1958.6	1946.4	1950.9
30°	2057.9	2071.2	2078.9	2065.7	2102.1	2125.3	2081.1	2083.3	2082.2	2074.5	2073.4
32.5°	2200.4	2212.5	2211.4	2202.6	2213.6	2246.7	2211.4	2222.5	2225.8	2226.9	2235.7
35°	2362.7	2377.0	2361.6	2349.4	2350.5	2382.5	2356.0	2373.7	2391.4	2398.0	2398.0
37.5°	2536.0	2543.7	2527.2	2508.4	2504.0	2521.6	2517.2	2545.9	2575.7	2592.3	2601.1
40°	2760.1	2766.7	2734.7	2698.3	2691.7	2711.5	2717.1	2780.0	2825.3	2856.2	2861.7
42.5°	3071.5	3070.4	3025.1	2957.7	2925.7	2956.6	2996.4	3069.3	3145.4	3152.1	3175.2
45°	3472.2	3456.8	3398.3	3297.8	3217.2	3206.2	3253.6	3361.8	3446.8	3483.3	3497.6
47.5°	3929.3	3911.6	3805.7	3650.0	3512.0	3468.9	3508.7	3644.5	3771.4	3824.4	3853.1
50°	4439.4	4418.4	4311.3	4100.4	3870.8	3792.4	3816.7	3985.6	4133.6	4200.9	4251.7
52.5°	4988.1	4984.8	4847.9	4605.0	4298.1	4171.1	4163.4	4366.5	4565.2	4654.7	4682.3
55°	5576.6	5560.0	5437.4	5173.6	4818.1	4580.7	4581.8	4807.0	5049.9	5167.0	5180.2
57.5°	6154.0	6147.3	6011.5	5786.3	5423.1	5110.6	5079.7	5378.9	5624.0	5720.1	5724.5
60°	6699.4	6720.3	6649.7	6443.2	6150.7	5797.4	5752.1	6004.9	6213.6	6296.4	6326.2
62.5°	7306.6	7313.2	7304.4	7152.0	6929.0	6690.5	6579.0	6708.2	6914.7	6983.1	6968.8
65°	7740.5	7783.5	7884.0	7962.4	7914.9	7732.8	7585.9	7592.5	7633.4	7589.2	7585.9
67.5°	7187.4	7281.2	7623.5	8174.4	8823.6	9107.3	8511.1	7845.4	7598.1	7438.0	7436.9
70°	6279.8	6342.8	6770.0	7722.8	9144.8	9562.2	8889.8	7675.4	7190.7	7000.8	6933.4
72.5°	5342.5	5392.2	5862.5	6835.2	8634.8	9293.9	8648.0	7176.3	6538.2	6119.7	6127.5
75°	4449.3	4441.6	4797.1	5796.3	7643.3	8535.4	8007.7	6386.9	5478.3	5097.4	5054.3
77.5°	3084.7	3155.4	3559.5	4580.7	6197.0	7222.7	7145.4	5257.5	4198.7	3792.4	3818.9
80°	1616.3	1660.5	2139.6	3110.1	4534.3	5540.1	5438.5	3718.4	2712.6	2263.3	2178.3
82.5°	673.5	702.2	978.2	1680.4	2771.2	3447.9	3401.6	2266.6	1512.5	1053.3	1051.1
85°	285.9	287.1	415.1	719.8	1398.8	1638.4	1314.9	973.8	529.9	332.3	297.0
87.5°	121.4	125.9	168.9	330.1	442.7	357.7	210.9	130.3	87.2	53.0	40.8
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)