

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: P509986

Luminaire Tested: **VERD-M-CA3-180-730-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509986
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-CA3-180-730-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1120mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25798 lumens
Efficiency: N/A
Efficacy: 140.9 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

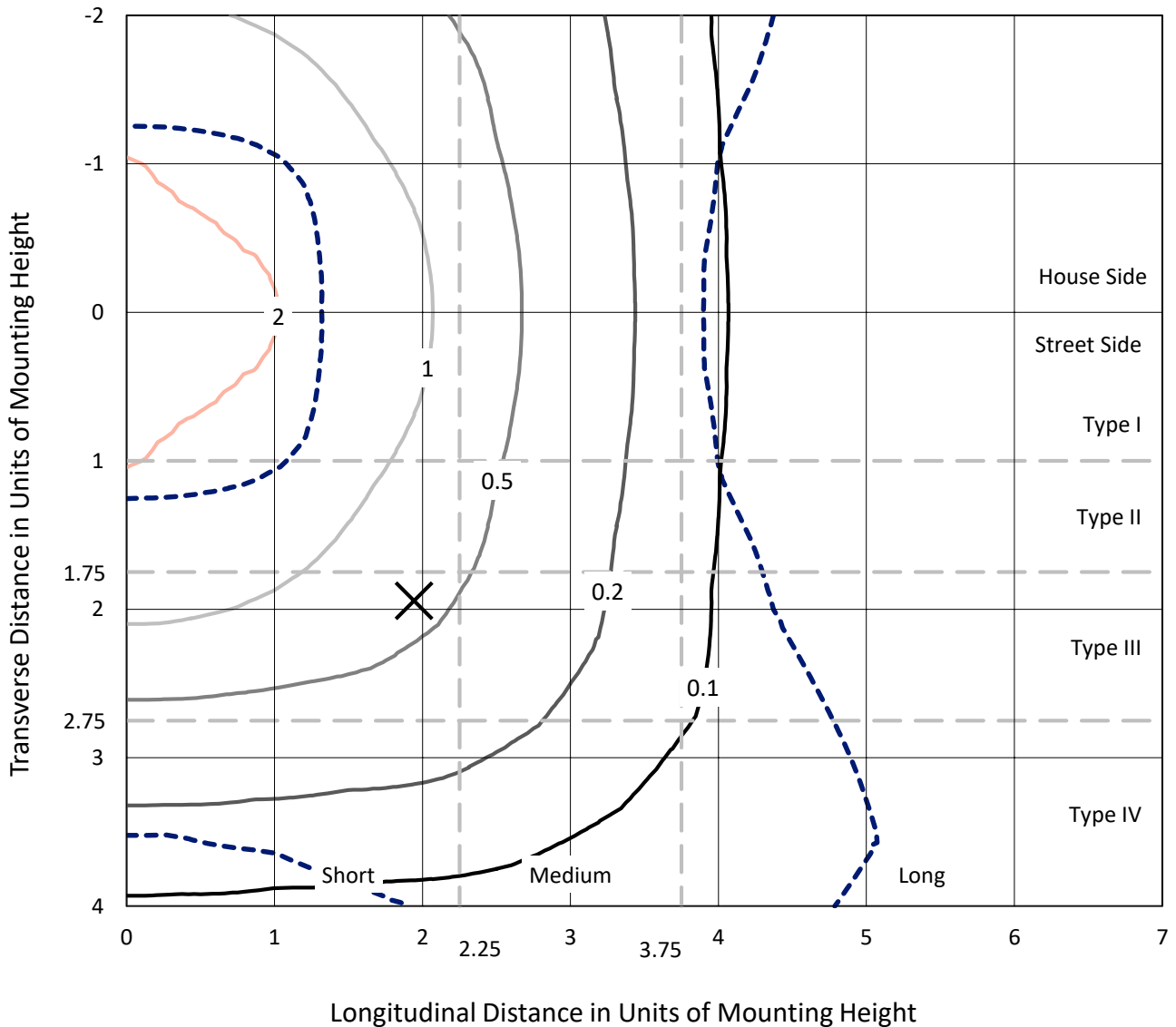
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

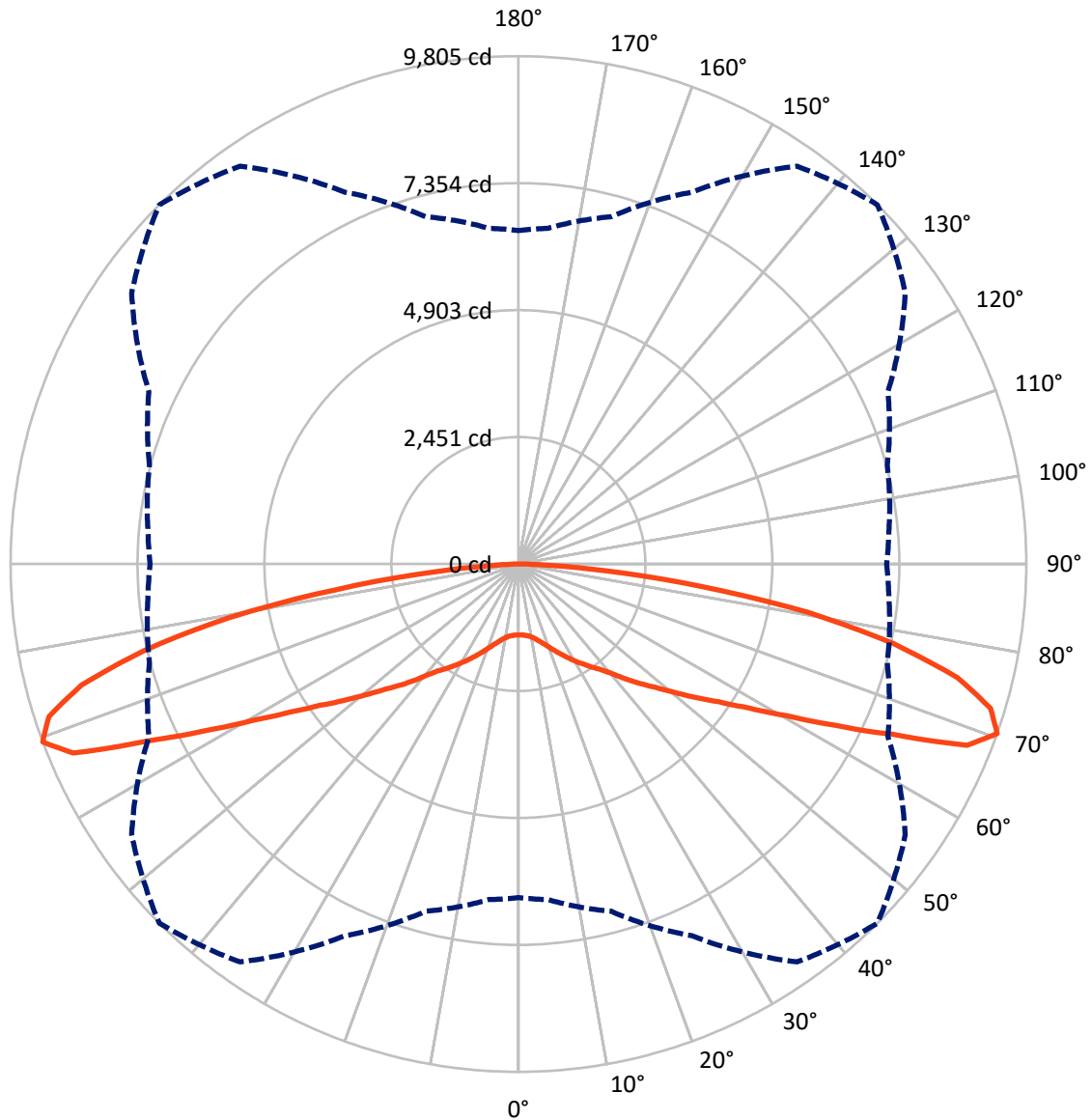
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	12899.0	0.0	12899.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12899.0	0.0	12899.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25798.0	0.0	25798.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	0.5
10°-20°	444.2	1.7
20°-30°	888.3	3.4
30°-40°	1545.6	6.0
40°-50°	2689.0	10.4
50°-60°	4681.9	18.1
60°-70°	7582.8	29.4
70°-80°	6505.2	25.2
80°-90°	1326.9	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°	25798.0	100.0
0°-180°	25798.0	100.0



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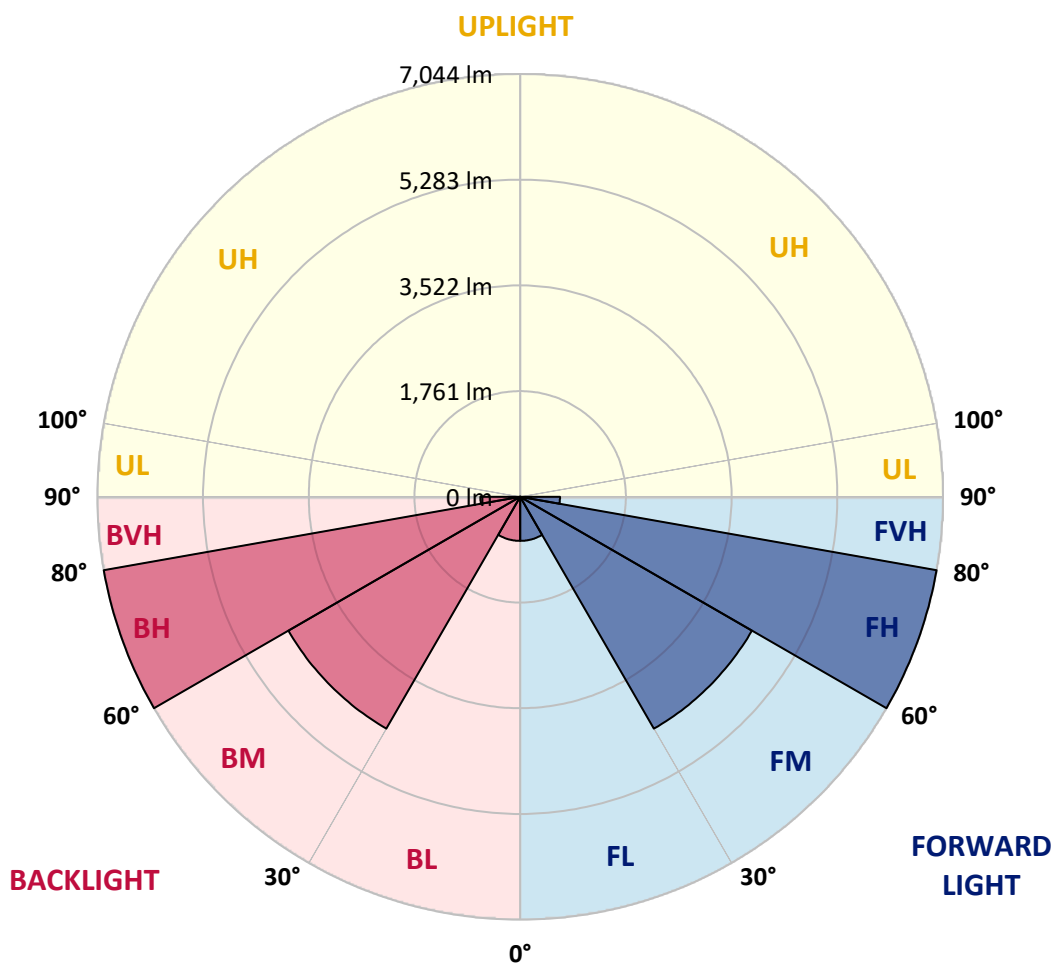
CATALOG NUMBER: VERD-M-CA3-180-730-U-T5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	733.3	2.8			
FM	(30°-60°)	4458.3	17.3			
FH	(60°-80°)	7044.0	27.3			G3/7500
FVH	(80°-90°)	663.4	2.6			G4/750
BL	(0°-30°)	733.3	2.8	B2/1000		
BM	(30°-60°)	4458.3	17.3	B3/5000		
BH	(60°-80°)	7044.0	27.3	B5		G3/7500
BVH	(80°-90°)	663.4	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°	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1
2.5°	1367.6	1375.5	1374.4	1372.1	1368.8	1368.8	1371.0	1378.9	1380.1	1380.1	1380.1
5°	1383.5	1391.4	1390.3	1388.0	1384.6	1383.5	1385.7	1393.7	1394.8	1394.8	1395.9
7.5°	1401.6	1410.6	1410.6	1409.5	1401.6	1401.6	1403.8	1414.0	1414.0	1416.3	1418.6
10°	1432.2	1442.3	1445.7	1441.2	1436.7	1434.4	1436.7	1446.9	1445.7	1443.5	1444.6
12.5°	1474.0	1484.2	1492.2	1491.0	1486.5	1484.2	1486.5	1492.2	1485.4	1476.3	1476.3
15°	1526.1	1539.7	1548.8	1548.8	1554.4	1551.0	1547.6	1548.8	1538.6	1530.6	1530.6
17.5°	1592.9	1604.2	1612.2	1619.0	1628.0	1628.0	1620.1	1617.8	1604.2	1597.4	1598.6
20°	1674.4	1683.5	1694.8	1700.5	1718.6	1719.7	1706.1	1700.5	1686.9	1677.8	1680.1
22.5°	1762.7	1778.6	1783.1	1800.1	1821.6	1822.7	1804.6	1792.2	1778.6	1771.8	1772.9
25°	1869.2	1885.0	1881.6	1896.3	1929.2	1932.6	1912.2	1894.1	1882.7	1875.9	1878.2
27.5°	1985.8	2001.6	2000.5	2000.5	2039.0	2053.7	2025.4	2006.1	2008.4	1996.0	2000.5
30°	2110.3	2123.9	2131.8	2118.2	2155.6	2179.4	2134.1	2136.3	2135.2	2127.3	2126.2
32.5°	2256.3	2268.8	2267.7	2258.6	2269.9	2303.9	2267.7	2279.0	2282.4	2283.5	2292.6
35°	2422.8	2437.5	2421.6	2409.2	2410.3	2443.1	2416.0	2434.1	2452.2	2459.0	2459.0
37.5°	2600.5	2608.4	2591.5	2572.2	2567.7	2585.8	2581.3	2610.7	2641.3	2658.3	2667.3
40°	2830.3	2837.1	2804.3	2766.9	2760.1	2780.5	2786.2	2850.7	2897.1	2928.8	2934.5
42.5°	3149.6	3148.5	3102.1	3033.0	3000.2	3031.9	3072.6	3147.3	3225.5	3232.2	3256.0
45°	3560.6	3544.7	3484.7	3381.7	3299.0	3287.7	3336.4	3447.4	3534.5	3571.9	3586.6
47.5°	4029.3	4011.2	3902.5	3742.8	3601.3	3557.2	3597.9	3737.2	3867.4	3921.7	3951.2
50°	4552.3	4530.8	4421.0	4204.8	3969.3	3888.9	3913.8	4087.0	4238.7	4307.8	4359.9
52.5°	5115.0	5111.6	4971.2	4722.1	4407.4	4277.2	4269.3	4477.6	4681.4	4773.1	4801.4
55°	5718.4	5701.4	5575.8	5305.2	4940.6	4697.2	4698.4	4929.3	5178.4	5298.4	5312.0
57.5°	6310.5	6303.7	6164.5	5933.5	5561.1	5240.7	5209.0	5515.8	5767.1	5865.6	5870.1
60°	6869.8	6891.3	6818.9	6607.1	6307.1	5944.8	5898.4	6157.7	6371.7	6456.6	6487.1
62.5°	7492.5	7499.3	7490.2	7334.0	7105.3	6860.7	6746.4	6878.9	7090.6	7160.8	7146.0
65°	7937.4	7981.6	8084.6	8165.0	8116.3	7929.5	7778.9	7785.7	7827.6	7782.3	7778.9
67.5°	7370.2	7466.4	7817.4	8382.3	9048.0	9339.0	8727.6	8045.0	7791.4	7627.2	7626.1
70°	6439.6	6504.1	6942.3	7919.3	9377.5	9805.4	9116.0	7870.6	7373.6	7178.9	7109.8
72.5°	5478.4	5529.4	6011.6	7009.1	8854.4	9530.3	8868.0	7358.9	6704.5	6275.4	6283.4
75°	4562.5	4554.6	4919.1	5943.7	7837.8	8752.5	8211.4	6549.4	5617.7	5227.1	5182.9
77.5°	3163.2	3235.6	3650.0	4697.2	6354.7	7406.4	7327.2	5391.2	4305.5	3888.9	3916.1
80°	1657.4	1702.7	2194.1	3189.2	4649.7	5681.1	5576.9	3813.0	2781.7	2320.9	2233.7
82.5°	690.6	720.0	1003.1	1723.1	2841.7	3535.7	3488.1	2324.3	1551.0	1080.1	1077.8
85°	293.2	294.4	425.7	738.2	1434.4	1680.1	1348.4	998.5	543.4	340.8	304.5
87.5°	124.5	129.1	173.2	338.5	454.0	366.8	216.2	133.6	89.4	54.3	41.9
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)