

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: P509930

Luminaire Tested: **VERD-M-CA3-170-727-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509930
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-CA3-170-727-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1060mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21304 lumens
Efficiency: N/A
Efficacy: 123.3 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

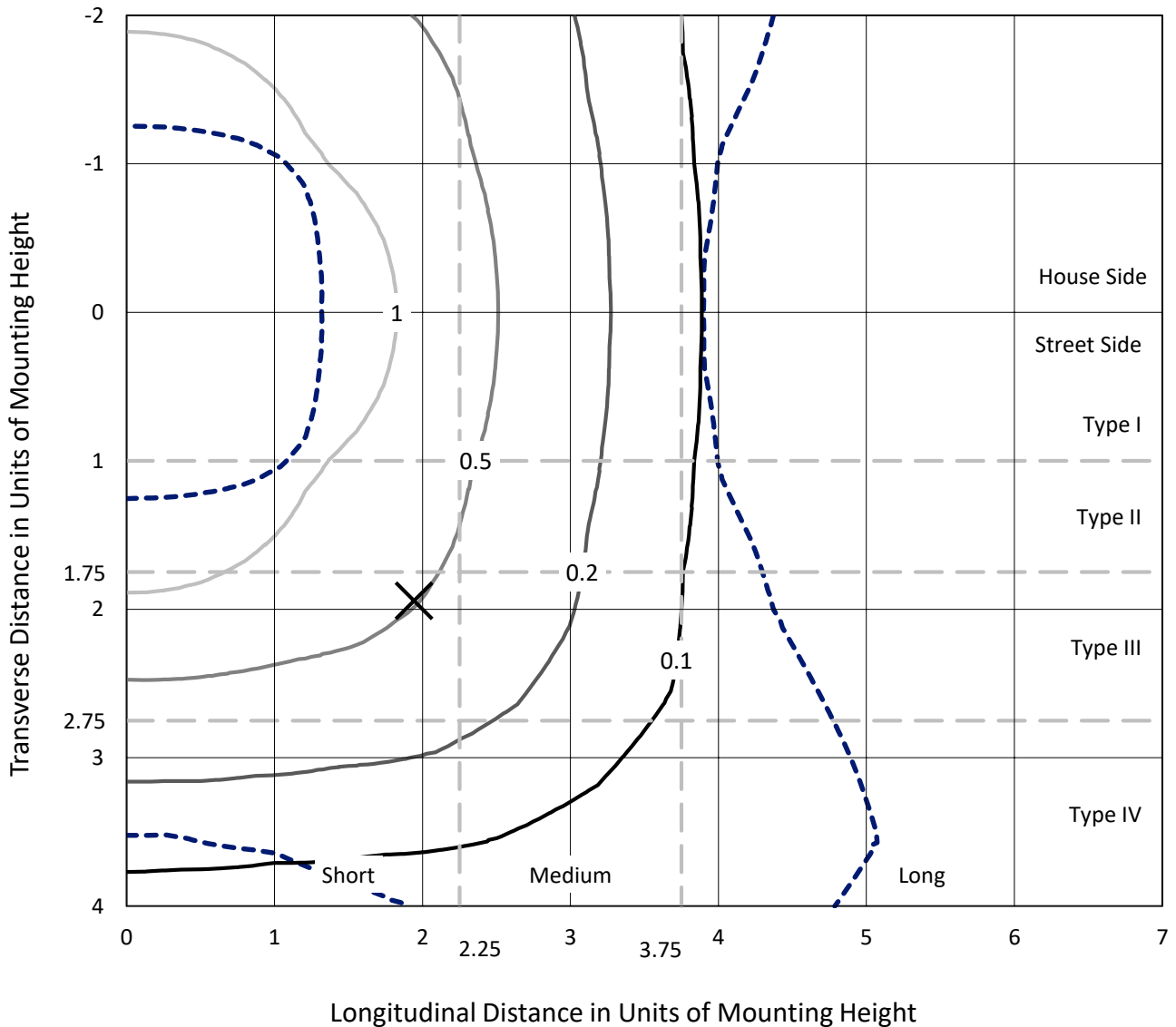
Input Watts (W): 172.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

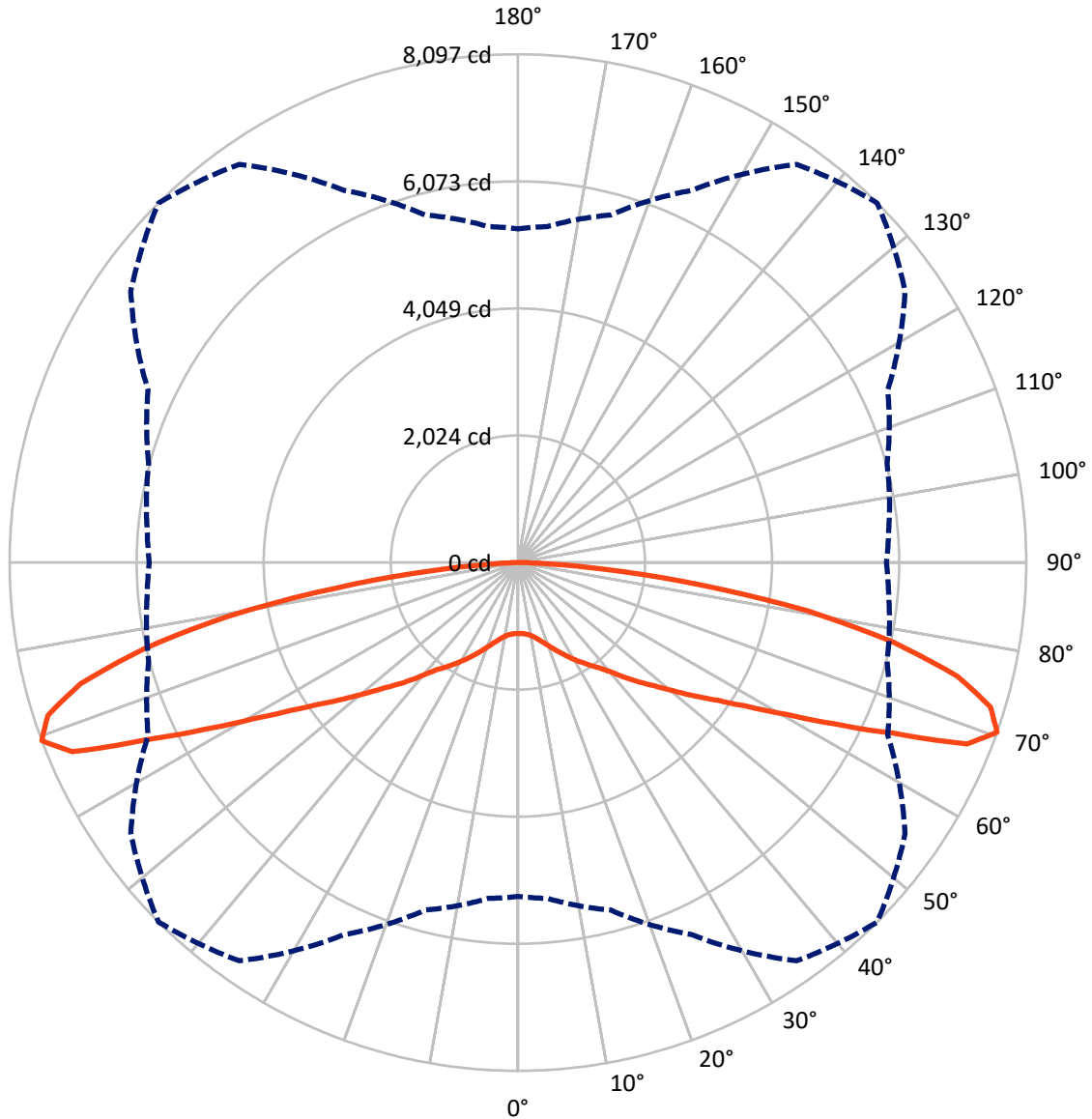
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	10652.0	0.0	10652.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10652.0	0.0	10652.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21304.0	0.0	21304.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	0.5
10°-20°	366.8	1.7
20°-30°	733.6	3.4
30°-40°	1276.4	6.0
40°-50°	2220.6	10.4
50°-60°	3866.3	18.1
60°-70°	6261.8	29.4
70°-80°	5372.0	25.2
80°-90°	1095.7	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°	21304.0	100.0
0°-180°	21304.0	100.0



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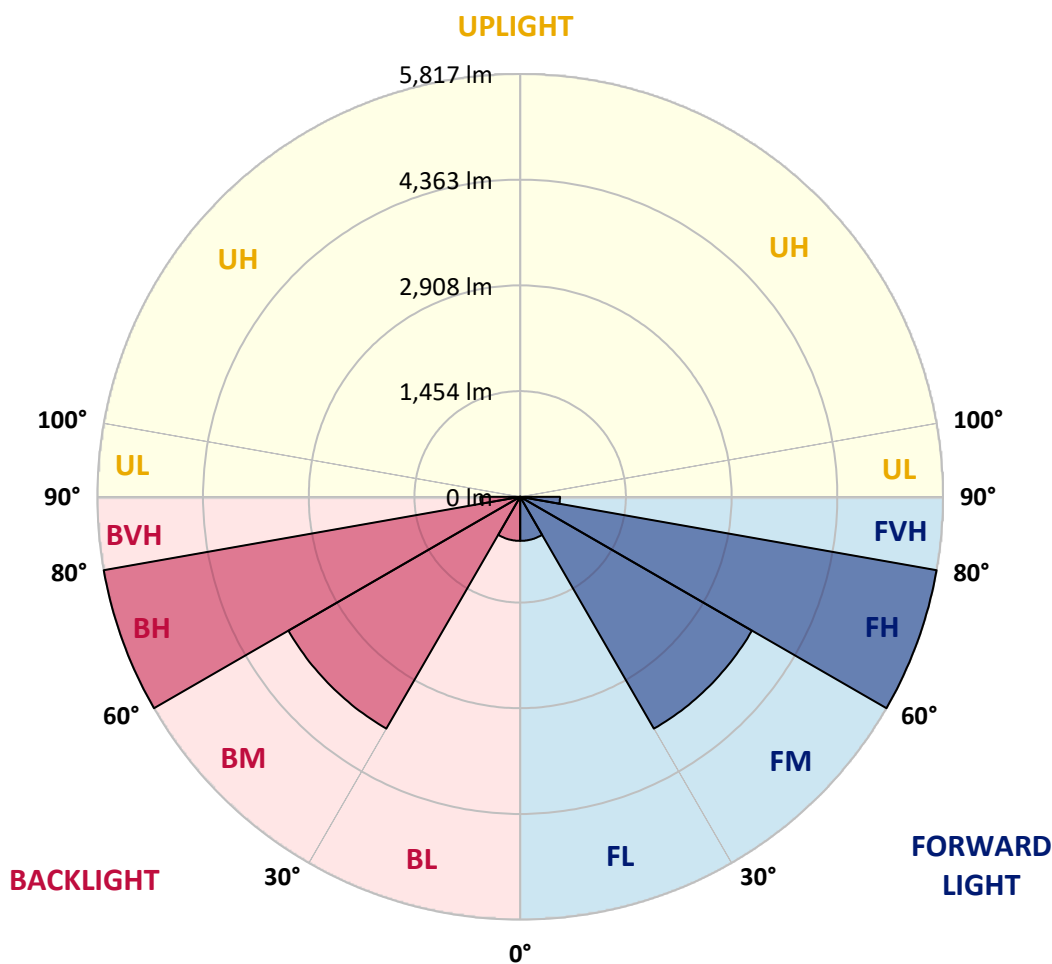
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	605.6	2.8			
FM	(30°-60°)	3681.6	17.3			
FH	(60°-80°)	5816.9	27.3			G3/7500
FVH	(80°-90°)	547.9	2.6			G4/750
BL	(0°-30°)	605.6	2.8	B2/1000		
BM	(30°-60°)	3681.6	17.3	B3/5000		
BH	(60°-80°)	5816.9	27.3	B5		G3/7500
BVH	(80°-90°)	547.9	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°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1
2.5°	1129.4	1135.9	1135.0	1133.1	1130.3	1130.3	1132.2	1138.7	1139.7	1139.7	1139.7
5°	1142.5	1149.0	1148.1	1146.2	1143.4	1142.5	1144.3	1150.9	1151.8	1151.8	1152.8
7.5°	1157.4	1164.9	1164.9	1164.0	1157.4	1157.4	1159.3	1167.7	1167.7	1169.6	1171.5
10°	1182.7	1191.1	1193.9	1190.2	1186.4	1184.5	1186.4	1194.8	1193.9	1192.0	1193.0
12.5°	1217.3	1225.7	1232.2	1231.3	1227.5	1225.7	1227.5	1232.2	1226.6	1219.1	1219.1
15°	1260.3	1271.5	1279.0	1279.0	1283.6	1280.8	1278.0	1279.0	1270.6	1264.0	1264.0
17.5°	1315.4	1324.8	1331.3	1336.9	1344.4	1344.4	1337.9	1336.0	1324.8	1319.2	1320.1
20°	1382.7	1390.2	1399.6	1404.2	1419.2	1420.1	1408.9	1404.2	1393.0	1385.5	1387.4
22.5°	1455.7	1468.8	1472.5	1486.5	1504.3	1505.2	1490.3	1480.0	1468.8	1463.1	1464.1
25°	1543.5	1556.6	1553.8	1566.0	1593.1	1595.9	1579.1	1564.1	1554.8	1549.2	1551.0
27.5°	1639.8	1652.9	1652.0	1652.0	1683.8	1695.9	1672.6	1656.7	1658.5	1648.3	1652.0
30°	1742.7	1753.9	1760.5	1749.2	1780.1	1799.7	1762.3	1764.2	1763.3	1756.7	1755.8
32.5°	1863.3	1873.6	1872.6	1865.2	1874.5	1902.6	1872.6	1882.0	1884.8	1885.7	1893.2
35°	2000.7	2012.9	1999.8	1989.5	1990.4	2017.6	1995.1	2010.1	2025.0	2030.6	2030.6
37.5°	2147.5	2154.1	2140.0	2124.1	2120.4	2135.4	2131.6	2155.9	2181.2	2195.2	2202.7
40°	2337.3	2342.9	2315.8	2284.9	2279.3	2296.2	2300.8	2354.1	2392.5	2418.6	2423.3
42.5°	2600.9	2600.0	2561.7	2504.6	2477.5	2503.7	2537.4	2599.1	2663.6	2669.2	2688.8
45°	2940.3	2927.2	2877.7	2792.6	2724.4	2715.0	2755.2	2846.8	2918.8	2949.7	2961.8
47.5°	3327.4	3312.4	3222.7	3090.8	2974.0	2937.5	2971.2	3086.2	3193.7	3238.6	3262.9
50°	3759.3	3741.5	3650.9	3472.3	3277.8	3211.4	3232.0	3375.1	3500.3	3557.4	3600.4
52.5°	4224.0	4221.2	4105.2	3899.5	3639.6	3532.1	3525.6	3697.6	3865.9	3941.6	3965.0
55°	4722.3	4708.2	4604.5	4381.0	4080.0	3879.0	3879.9	4070.6	4276.3	4375.4	4386.6
57.5°	5211.2	5205.6	5090.6	4899.9	4592.3	4327.7	4301.6	4554.9	4762.5	4843.8	4847.6
60°	5673.1	5690.8	5631.0	5456.2	5208.4	4909.3	4870.9	5085.0	5261.7	5331.8	5357.1
62.5°	6187.3	6192.9	6185.4	6056.4	5867.5	5665.6	5571.2	5680.6	5855.4	5913.4	5901.2
65°	6554.7	6591.2	6676.3	6742.6	6702.4	6548.2	6423.8	6429.4	6464.0	6426.6	6423.8
67.5°	6086.3	6165.8	6455.6	6922.1	7471.9	7712.1	7207.3	6643.5	6434.1	6298.5	6297.6
70°	5317.8	5371.1	5732.9	6539.8	7743.9	8097.3	7528.0	6499.6	6089.1	5928.3	5871.3
72.5°	4524.1	4566.1	4964.4	5788.1	7312.0	7870.1	7323.2	6077.0	5536.6	5182.3	5188.8
75°	3767.7	3761.2	4062.2	4908.3	6472.4	7227.9	6781.0	5408.5	4639.1	4316.5	4280.1
77.5°	2612.2	2672.0	3014.2	3879.0	5247.7	6116.2	6050.8	4452.1	3555.5	3211.4	3233.9
80°	1368.7	1406.1	1811.9	2633.7	3839.7	4691.4	4605.4	3148.8	2297.1	1916.6	1844.6
82.5°	570.3	594.6	828.3	1422.9	2346.6	2919.7	2880.5	1919.4	1280.8	891.9	890.0
85°	242.1	243.1	351.5	609.6	1184.5	1387.4	1113.5	824.6	448.8	281.4	251.5
87.5°	102.8	106.6	143.0	279.5	374.9	302.9	178.6	110.3	73.9	44.9	34.6
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)