

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: P509962

Luminaire Tested: **VERD-M-CA3-170-760-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509962
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-CA3-170-760-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 1060mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25077 lumens
Efficiency: N/A
Efficacy: 145.1 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

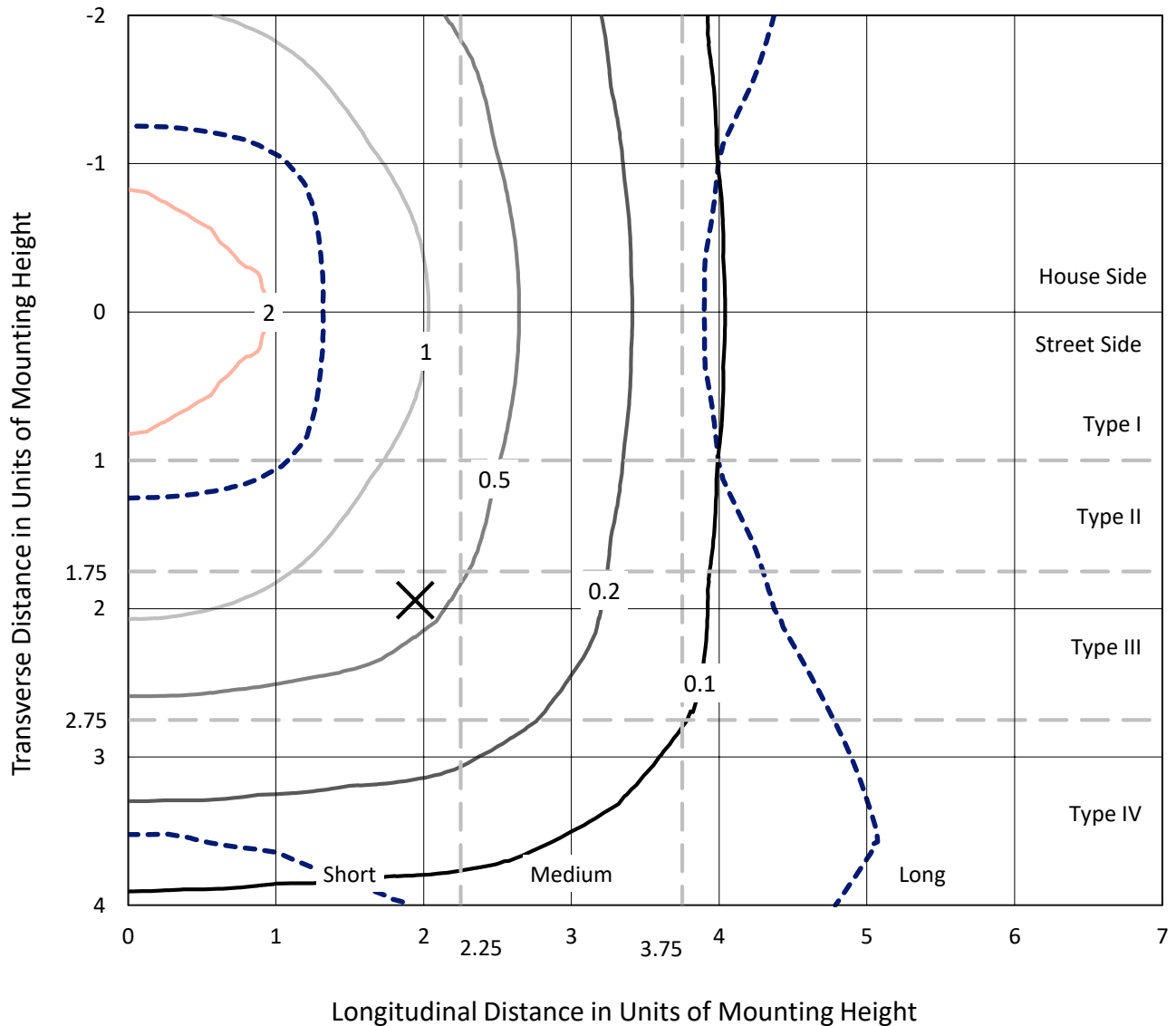
Input Watts (W): 172.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

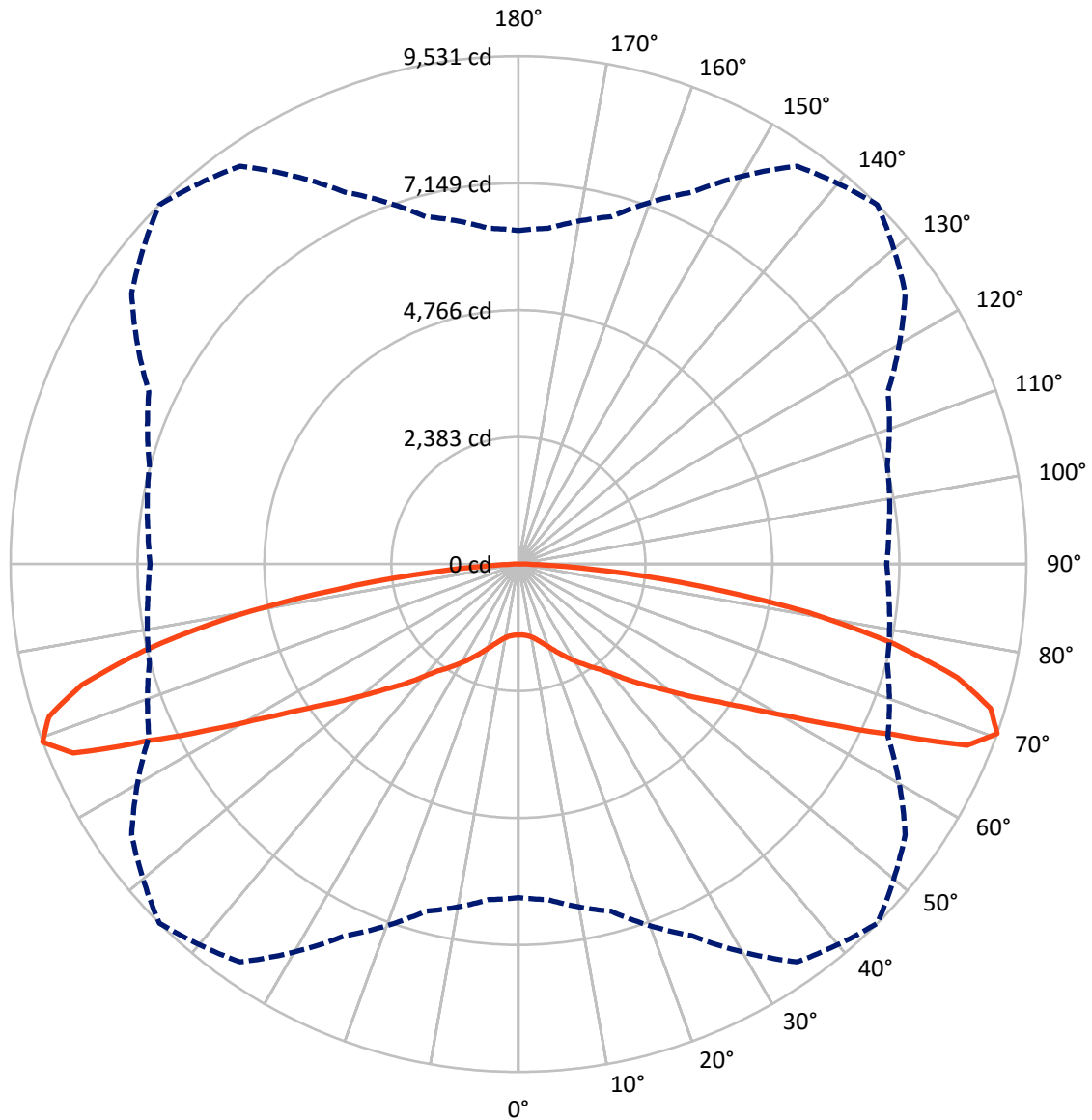
✕ Max cd
 - - - 1/2 Max cd



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	12538.5	0.0	12538.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12538.5	0.0	12538.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25077.0	0.0	25077.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	0.5
10°-20°	431.8	1.7
20°-30°	863.5	3.4
30°-40°	1502.4	6.0
40°-50°	2613.9	10.4
50°-60°	4551.1	18.1
60°-70°	7370.8	29.4
70°-80°	6323.4	25.2
80°-90°	1289.8	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°	25077.0	100.0
0°-180°	25077.0	100.0



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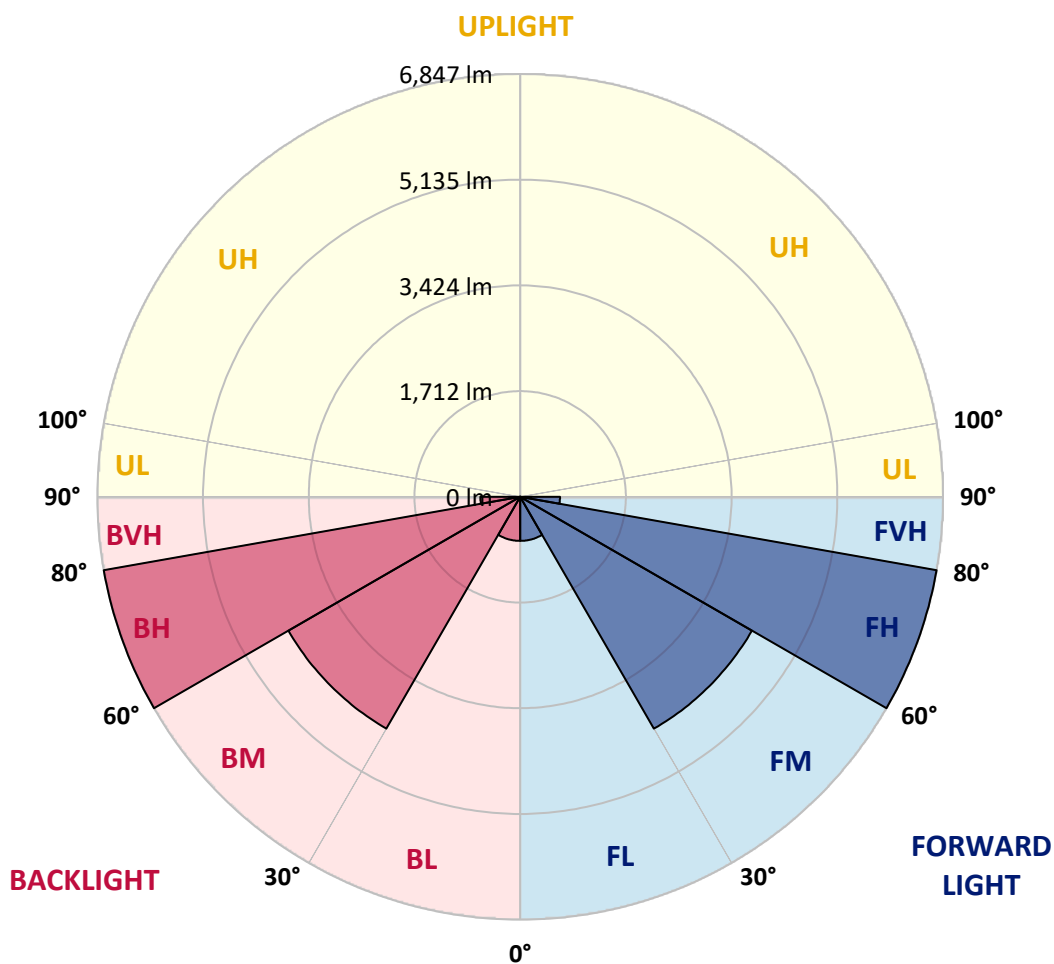
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	712.8	2.8			
FM (30°-60°)	4333.7	17.3			
FH (60°-80°)	6847.1	27.3			G3/7500
FVH (80°-90°)	644.9	2.6			G4/750
BL (0°-30°)	712.8	2.8	B2/1000		
BM (30°-60°)	4333.7	17.3	B3/5000		
BH (60°-80°)	6847.1	27.3	B5		G3/7500
BVH (80°-90°)	644.9	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°	1333.8	1333.8	1333.8	1333.8	1333.8	1333.8	1333.8	1333.8	1333.8	1333.8	1333.8
2.5°	1329.4	1337.1	1336.0	1333.8	1330.5	1330.5	1332.7	1340.4	1341.5	1341.5	1341.5
5°	1344.8	1352.5	1351.4	1349.2	1345.9	1344.8	1347.0	1354.7	1355.8	1355.8	1356.9
7.5°	1362.4	1371.2	1371.2	1370.1	1362.4	1362.4	1364.6	1374.5	1374.5	1376.7	1378.9
10°	1392.1	1402.0	1405.3	1400.9	1396.5	1394.3	1396.5	1406.4	1405.3	1403.1	1404.2
12.5°	1432.8	1442.7	1450.5	1449.4	1444.9	1442.7	1444.9	1450.5	1443.8	1435.0	1435.0
15°	1483.5	1496.7	1505.5	1505.5	1511.0	1507.7	1504.4	1505.5	1495.6	1487.9	1487.9
17.5°	1548.4	1559.4	1567.1	1573.7	1582.5	1582.5	1574.8	1572.6	1559.4	1552.8	1553.9
20°	1627.6	1636.4	1647.4	1652.9	1670.6	1671.7	1658.4	1652.9	1639.7	1630.9	1633.1
22.5°	1713.5	1728.9	1733.3	1749.8	1770.7	1771.8	1754.2	1742.1	1728.9	1722.3	1723.4
25°	1816.9	1832.3	1829.0	1843.3	1875.2	1878.5	1858.7	1841.1	1830.1	1823.5	1825.7
27.5°	1930.3	1945.7	1944.6	1944.6	1982.0	1996.3	1968.8	1950.1	1952.3	1940.2	1944.6
30°	2051.3	2064.5	2072.2	2059.0	2095.3	2118.5	2074.4	2076.6	2075.5	2067.8	2066.7
32.5°	2193.3	2205.4	2204.3	2195.5	2206.5	2239.5	2204.3	2215.3	2218.6	2219.7	2228.5
35°	2355.1	2369.4	2354.0	2341.9	2343.0	2374.9	2348.5	2366.1	2383.7	2390.3	2390.3
37.5°	2527.8	2535.5	2519.0	2500.3	2495.9	2513.5	2509.1	2537.7	2567.5	2584.0	2592.8
40°	2751.2	2757.8	2725.9	2689.6	2683.0	2702.8	2708.3	2771.0	2816.2	2847.0	2852.5
42.5°	3061.6	3060.5	3015.4	2948.2	2916.3	2947.1	2986.7	3059.4	3135.3	3141.9	3165.0
45°	3461.1	3445.6	3387.3	3287.2	3206.8	3195.8	3243.2	3351.0	3435.7	3472.1	3486.4
47.5°	3916.7	3899.1	3793.4	3638.2	3500.7	3457.8	3497.4	3632.7	3759.3	3812.1	3840.7
50°	4425.1	4404.2	4297.4	4087.2	3858.3	3780.2	3804.4	3972.8	4120.3	4187.4	4238.0
52.5°	4972.0	4968.7	4832.3	4590.2	4284.2	4157.7	4150.0	4352.5	4550.5	4639.7	4667.2
55°	5558.6	5542.1	5419.9	5156.9	4802.6	4566.0	4567.1	4791.6	5033.7	5150.3	5163.5
57.5°	6134.2	6127.6	5992.2	5767.7	5405.6	5094.2	5063.4	5361.6	5605.9	5701.7	5706.1
60°	6677.8	6698.7	6628.3	6422.5	6130.9	5778.7	5733.6	5985.6	6193.6	6276.1	6305.8
62.5°	7283.1	7289.7	7280.9	7129.0	6906.7	6669.0	6557.8	6686.6	6892.4	6960.6	6946.3
65°	7715.6	7758.5	7858.6	7936.8	7889.4	7707.9	7561.5	7568.1	7608.8	7564.8	7561.5
67.5°	7164.2	7257.8	7598.9	8148.1	8795.2	9078.0	8483.7	7820.1	7573.6	7414.0	7412.9
70°	6259.6	6322.3	6748.2	7698.0	9115.4	9531.4	8861.2	7650.6	7167.5	6978.2	6911.1
72.5°	5325.3	5374.8	5843.6	6813.2	8607.0	9264.0	8620.2	7153.2	6517.1	6100.0	6107.7
75°	4435.0	4427.3	4781.7	5777.6	7618.7	8507.9	7981.9	6366.4	5460.7	5081.0	5038.1
77.5°	3074.8	3145.2	3548.0	4566.0	6177.1	7199.4	7122.4	5240.6	4185.2	3780.2	3806.6
80°	1611.1	1655.1	2132.8	3100.1	4519.7	5522.3	5421.0	3706.5	2703.9	2256.0	2171.3
82.5°	671.3	699.9	975.0	1675.0	2762.2	3436.8	3390.6	2259.3	1507.7	1049.9	1047.7
85°	285.0	286.1	413.8	717.5	1394.3	1633.1	1310.7	970.6	528.2	331.2	296.0
87.5°	121.1	125.5	168.4	329.0	441.3	356.6	210.2	129.9	86.9	52.8	40.7
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)