

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: P509994

Luminaire Tested: **VERD-M-CA3-180-740-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509994
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-CA3-180-740-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1120mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26274 lumens
Efficiency: N/A
Efficacy: 143.5 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

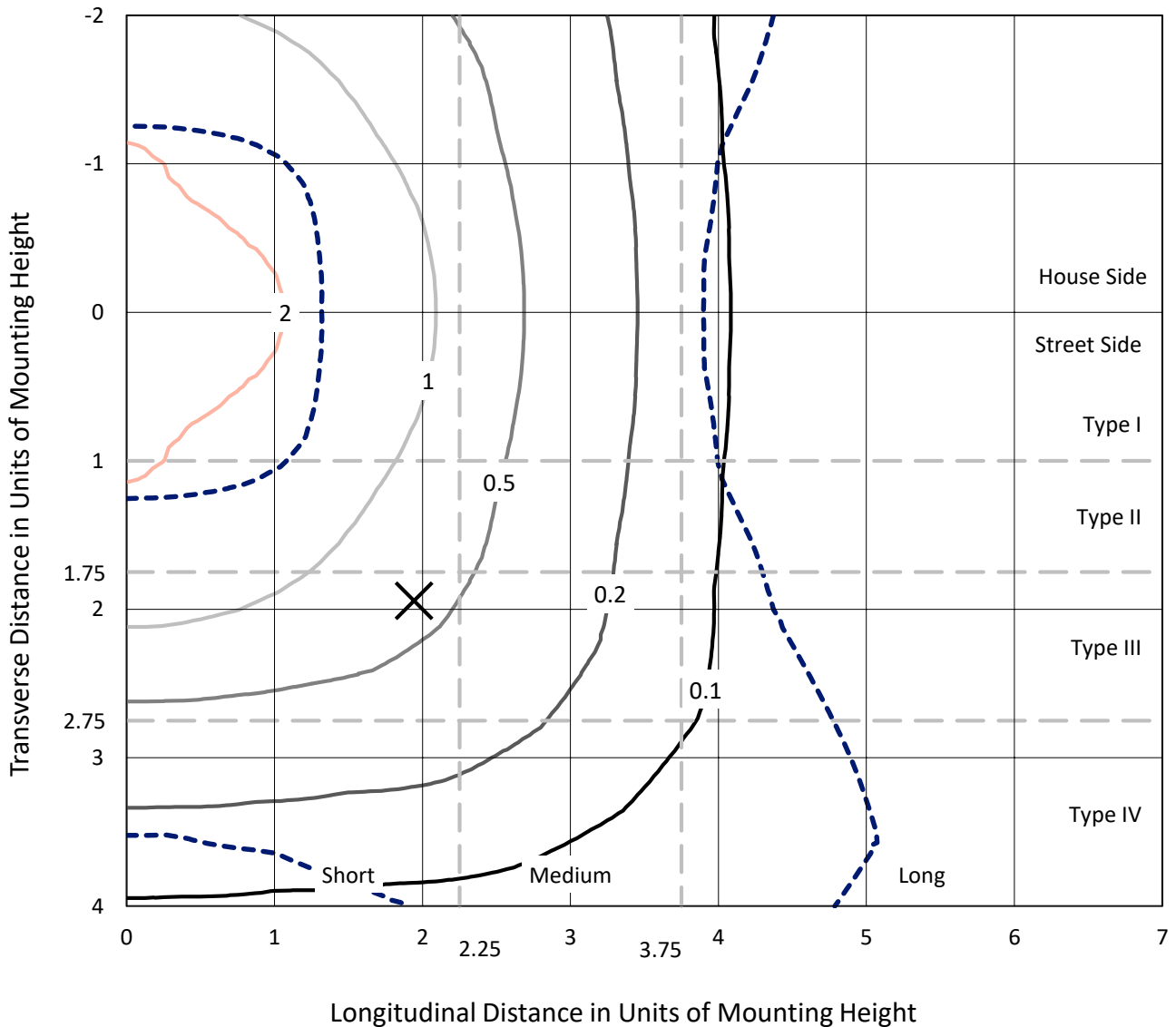
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

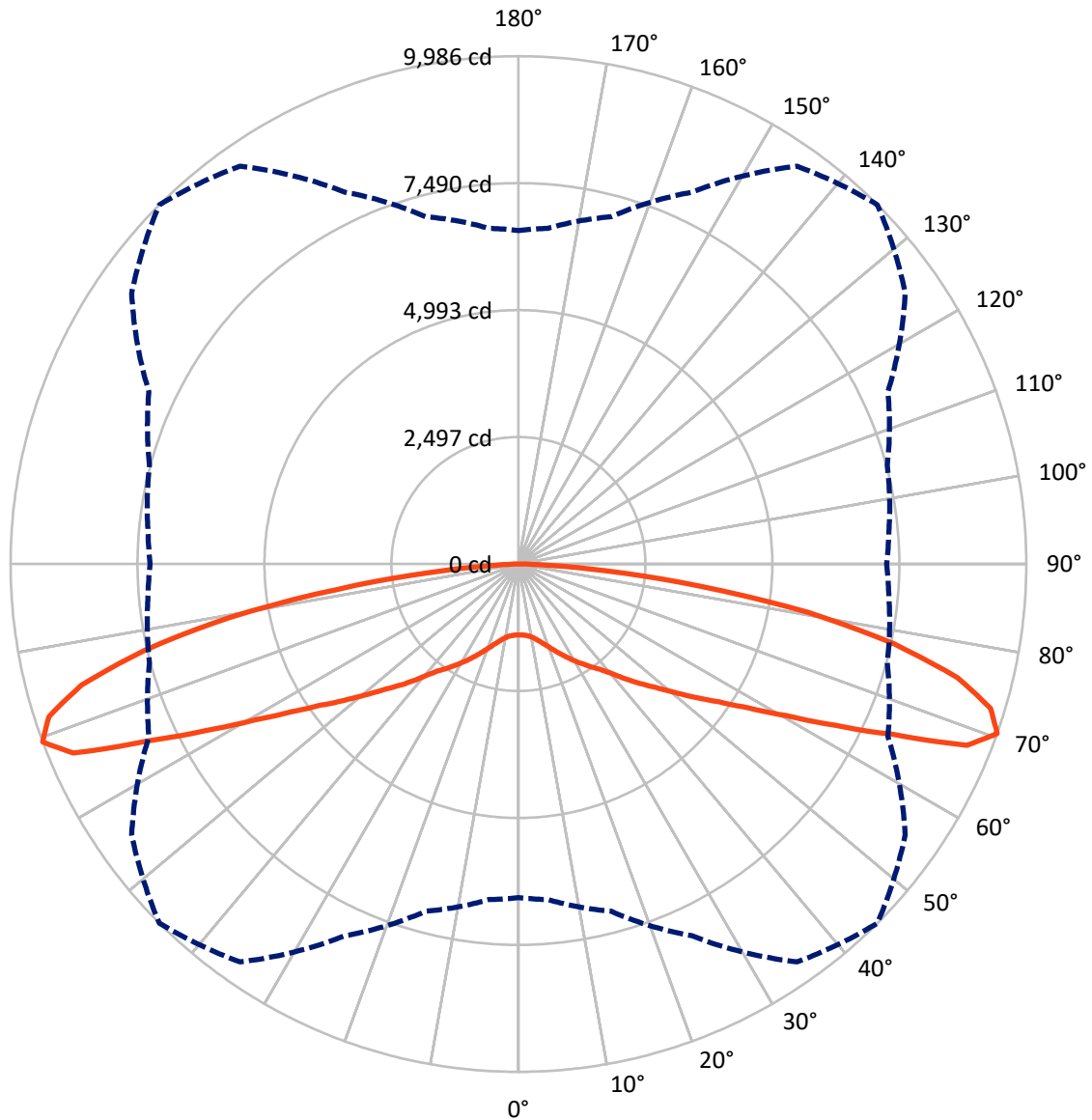
× Max cd
 - - - 1/2 Max cd



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	13137.0	0.0	13137.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13137.0	0.0	13137.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26274.0	0.0	26274.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	0.5
10°-20°	452.4	1.7
20°-30°	904.7	3.4
30°-40°	1574.1	6.0
40°-50°	2738.7	10.4
50°-60°	4768.3	18.1
60°-70°	7722.7	29.4
70°-80°	6625.2	25.2
80°-90°	1351.4	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°	26274.0	100.0
0°-180°	26274.0	100.0



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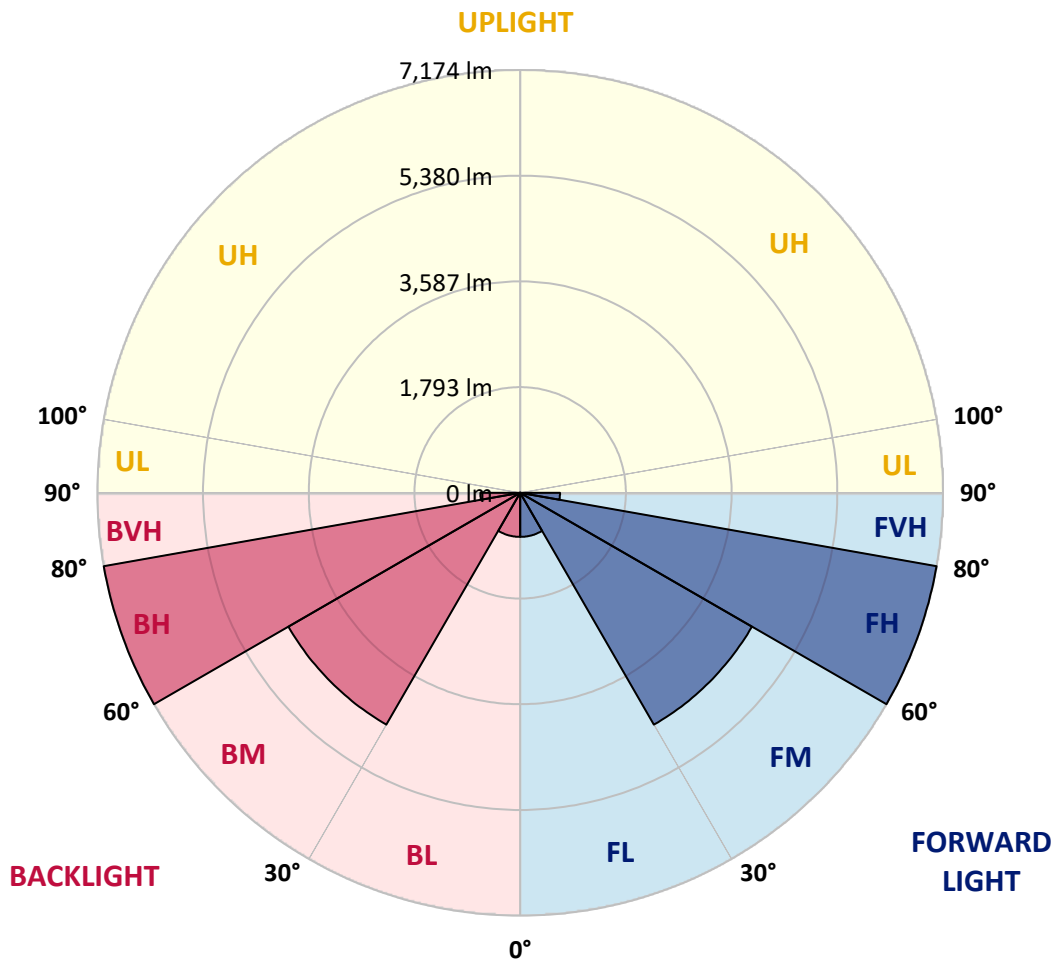
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	746.9	2.8			
FM	(30°-60°)	4540.5	17.3			
FH	(60°-80°)	7173.9	27.3			G3/7500
FVH	(80°-90°)	675.7	2.6			G4/750
BL	(0°-30°)	746.9	2.8	B2/1000		
BM	(30°-60°)	4540.5	17.3	B3/5000		
BH	(60°-80°)	7173.9	27.3	B5		G3/7500
BVH	(80°-90°)	675.7	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°	1397.5	1397.5	1397.5	1397.5	1397.5	1397.5	1397.5	1397.5	1397.5	1397.5	1397.5
2.5°	1392.9	1400.9	1399.8	1397.5	1394.0	1394.0	1396.3	1404.4	1405.5	1405.5	1405.5
5°	1409.0	1417.1	1415.9	1413.6	1410.1	1409.0	1411.3	1419.4	1420.5	1420.5	1421.7
7.5°	1427.4	1436.7	1436.7	1435.5	1427.4	1427.4	1429.8	1440.1	1440.1	1442.4	1444.7
10°	1458.6	1469.0	1472.4	1467.8	1463.2	1460.9	1463.2	1473.6	1472.4	1470.1	1471.3
12.5°	1501.2	1511.6	1519.7	1518.5	1513.9	1511.6	1513.9	1519.7	1512.8	1503.5	1503.5
15°	1554.3	1568.1	1577.3	1577.3	1583.1	1579.6	1576.2	1577.3	1567.0	1558.9	1558.9
17.5°	1622.3	1633.8	1641.9	1648.8	1658.0	1658.0	1650.0	1647.7	1633.8	1626.9	1628.1
20°	1705.3	1714.5	1726.1	1731.8	1750.3	1751.4	1737.6	1731.8	1718.0	1708.8	1711.1
22.5°	1795.3	1811.4	1816.0	1833.3	1855.2	1856.4	1837.9	1825.2	1811.4	1804.5	1805.6
25°	1903.6	1919.8	1916.3	1931.3	1964.8	1968.2	1947.5	1929.0	1917.5	1910.6	1912.9
27.5°	2022.4	2038.5	2037.4	2037.4	2076.6	2091.6	2062.8	2043.2	2045.5	2032.8	2037.4
30°	2149.2	2163.1	2171.1	2157.3	2195.4	2219.6	2173.5	2175.8	2174.6	2166.5	2165.4
32.5°	2298.0	2310.7	2309.5	2300.3	2311.8	2346.4	2309.5	2321.0	2324.5	2325.7	2334.9
35°	2467.5	2482.5	2466.3	2453.6	2454.8	2488.2	2460.6	2479.0	2497.5	2504.4	2504.4
37.5°	2648.5	2656.6	2639.3	2619.7	2615.1	2633.5	2628.9	2658.9	2690.0	2707.3	2716.5
40°	2882.6	2889.5	2856.0	2818.0	2811.1	2831.8	2837.6	2903.3	2950.6	2982.9	2988.6
42.5°	3207.7	3206.6	3159.3	3089.0	3055.5	3087.8	3129.3	3205.4	3285.0	3291.9	3316.1
45°	3626.3	3610.1	3549.0	3444.1	3359.9	3348.4	3398.0	3511.0	3599.7	3637.8	3652.8
47.5°	4103.6	4085.2	3974.5	3811.9	3667.8	3622.8	3664.3	3806.1	3938.7	3994.1	4024.1
50°	4636.3	4614.4	4502.6	4282.3	4042.5	3960.6	3986.0	4162.4	4316.9	4387.3	4440.3
52.5°	5209.4	5205.9	5062.9	4809.3	4488.7	4356.1	4348.1	4560.2	4767.8	4861.2	4890.0
55°	5823.9	5806.6	5678.6	5403.1	5031.8	4783.9	4785.1	5020.3	5273.9	5396.2	5410.0
57.5°	6427.0	6420.0	6278.2	6043.0	5663.7	5337.4	5305.1	5617.5	5873.5	5973.8	5978.4
60°	6996.6	7018.5	6944.7	6729.1	6423.5	6054.5	6007.3	6271.3	6489.2	6575.7	6606.8
62.5°	7630.7	7637.6	7628.4	7469.3	7236.4	6987.3	6870.9	7005.8	7221.4	7292.9	7277.9
65°	8083.9	8128.8	8233.8	8315.6	8266.0	8075.8	7922.4	7929.4	7972.0	7925.9	7922.4
67.5°	7506.2	7604.2	7961.6	8537.0	9215.0	9511.3	8888.7	8193.4	7935.1	7767.9	7766.8
70°	6558.4	6624.1	7070.3	8065.4	9550.5	9986.3	9284.2	8015.8	7509.7	7311.3	7241.0
72.5°	5579.5	5631.4	6122.6	7138.4	9017.8	9706.2	9031.6	7494.7	6828.2	6391.2	6399.3
75°	4646.7	4638.6	5009.9	6053.4	7982.4	8914.0	8362.9	6670.2	5721.3	5323.5	5278.5
77.5°	3221.6	3295.3	3717.4	4783.9	6471.9	7543.1	7462.4	5490.7	4385.0	3960.6	3988.3
80°	1688.0	1734.1	2234.6	3248.1	4735.5	5785.9	5679.8	3883.4	2833.0	2363.7	2274.9
82.5°	703.3	733.3	1021.6	1754.9	2894.1	3600.9	3552.5	2367.2	1579.6	1100.0	1097.7
85°	298.6	299.8	433.5	751.8	1460.9	1711.1	1373.3	1017.0	553.5	347.1	310.2
87.5°	126.8	131.4	176.4	344.8	462.4	373.6	220.2	136.1	91.1	55.3	42.7
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)