

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: P233952

Luminaire Tested: **VERD-G-C02H-D-U-T4-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-34)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C02H-D-U-T4-7030-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1370mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16314 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

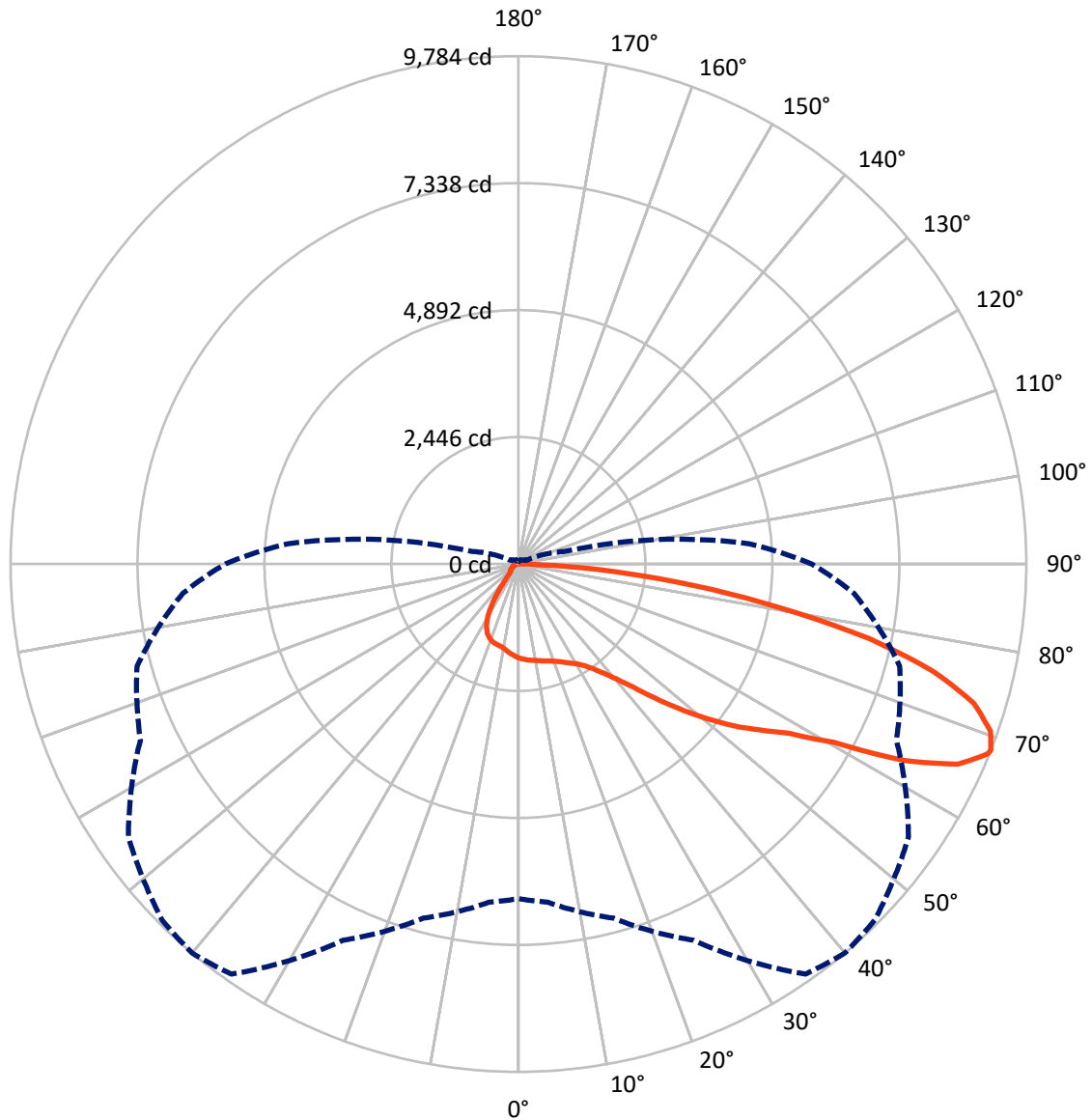
Input Watts (W): 155
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2646.4	0.0	2646.4
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	13667.5	0.0	13667.5
	% Fixture	83.8	0.0	83.8
Total	Lumens	16314.0	0.0	16314.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	1.1
10°-20°	515.1	3.2
20°-30°	864.5	5.3
30°-40°	1280.4	7.8
40°-50°	2166.0	13.3
50°-60°	3305.8	20.3
60°-70°	4328.5	26.5
70°-80°	3112.0	19.1
80°-90°	569.7	3.5
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°	16314.0	100.0
0°-180°	16314.0	100.0



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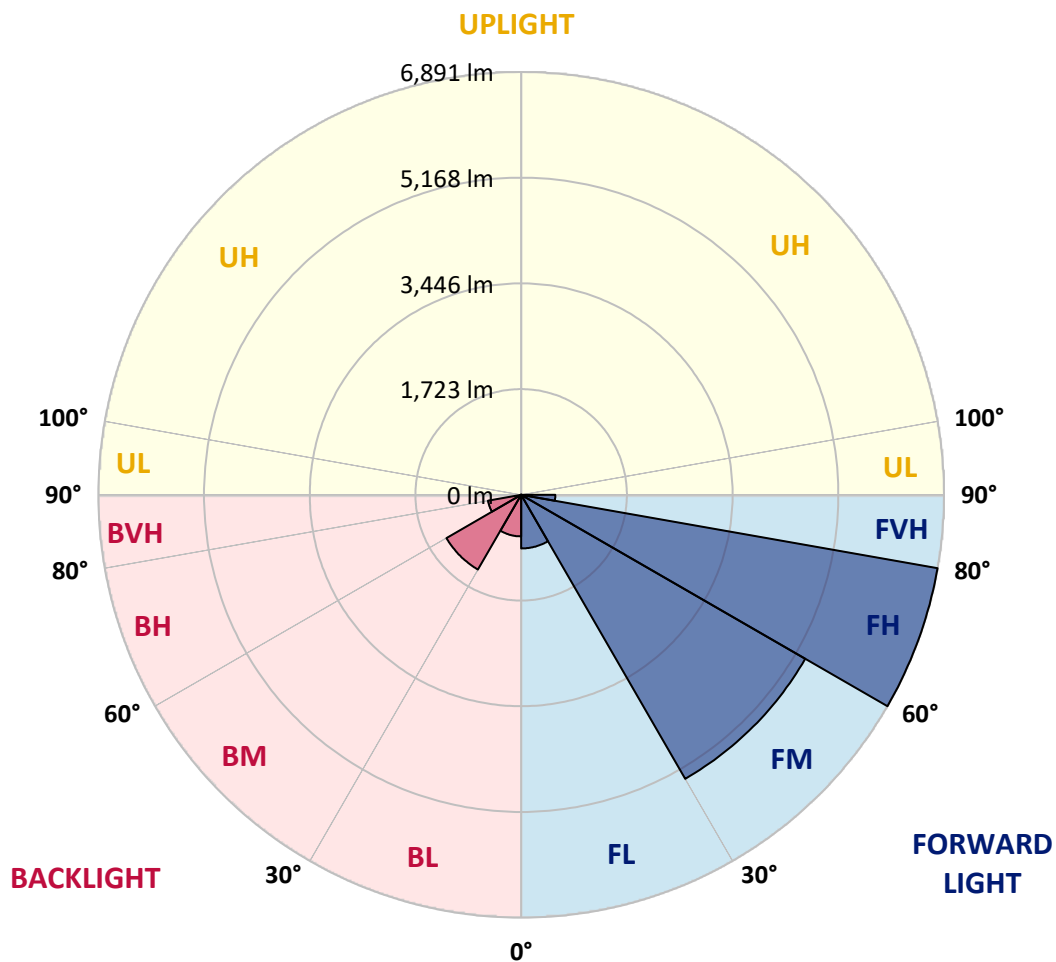
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	874.6	5.4			
FM (30°-60°)	5345.6	32.8			
FH (60°-80°)	6891.3	42.2			G3/7500
FVH (80°-90°)	556.1	3.4			G4/750
BL (0°-30°)	677.1	4.2	B2/1000		
BM (30°-60°)	1406.6	8.6	B2/2500		
BH (60°-80°)	549.2	3.4	B2/1000		G2/1000
BVH (80°-90°)	13.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8
2.5°	1870.2	1874.3	1868.8	1855.1	1840.1	1831.9	1830.6	1829.2	1822.4	1812.8	1799.1
5°	1889.3	1890.7	1885.2	1874.3	1860.6	1857.9	1853.8	1855.1	1851.1	1841.5	1826.5
7.5°	1897.5	1900.2	1893.4	1882.5	1871.5	1871.5	1870.2	1874.3	1871.5	1867.4	1849.7
10°	1894.8	1898.9	1894.8	1890.7	1886.6	1890.7	1887.9	1897.5	1898.9	1898.9	1878.4
12.5°	1890.7	1896.1	1897.5	1901.6	1908.4	1912.5	1918.0	1938.5	1948.0	1954.9	1938.5
15°	1894.8	1897.5	1908.4	1915.3	1928.9	1938.5	1950.8	1984.9	2001.3	2020.4	2012.2
17.5°	1912.5	1919.4	1935.7	1942.6	1956.2	1963.1	1978.1	2020.4	2053.2	2087.4	2092.8
20°	1950.8	1954.9	1982.2	1984.9	1991.8	1998.6	2015.0	2061.4	2110.6	2159.8	2173.4
22.5°	1993.1	2002.7	2028.6	2024.5	2038.2	2040.9	2056.0	2106.5	2174.8	2234.9	2265.0
25°	2036.8	2045.0	2071.0	2073.7	2090.1	2101.0	2118.8	2168.0	2255.4	2331.9	2385.2
27.5°	2073.7	2090.1	2114.7	2117.4	2148.9	2162.5	2188.5	2244.5	2349.7	2443.9	2531.4
30°	2142.0	2146.1	2169.3	2177.5	2219.9	2232.2	2262.2	2333.3	2461.7	2579.2	2715.8
32.5°	2226.7	2225.4	2247.2	2260.9	2312.8	2334.6	2372.9	2454.9	2596.9	2743.1	2937.1
35°	2382.5	2368.8	2382.5	2396.1	2456.2	2479.5	2520.4	2643.4	2810.0	3058.7	3297.7
37.5°	2740.4	2719.9	2691.2	2622.9	2637.9	2668.0	2728.1	2894.7	3140.6	3602.4	3833.2
40°	3360.6	3315.5	3195.3	3015.0	2908.4	2911.1	2967.1	3185.7	3546.4	4225.3	4398.8
42.5°	3922.0	3890.6	3745.8	3498.6	3252.7	3239.0	3258.1	3513.6	3989.0	4803.2	4893.3
45°	4450.7	4465.7	4255.4	4061.4	3767.7	3677.5	3654.3	3863.3	4479.4	5318.2	5326.4
47.5°	4939.8	4964.4	4710.3	4527.2	4237.6	4159.7	4087.3	4230.8	4942.5	5756.7	5689.8
50°	5465.7	5484.8	5132.4	4982.1	4739.0	4666.6	4611.9	4674.8	5416.5	6163.8	6013.5
52.5°	6192.5	6085.9	5643.3	5394.7	5178.8	5173.4	5131.0	5170.6	5956.1	6529.9	6259.4
55°	7050.4	6771.7	6301.8	5904.2	5626.9	5641.9	5591.4	5657.0	6490.3	6844.1	6487.6
57.5°	7353.7	7346.8	7128.3	6747.1	6184.3	6150.1	6062.7	6136.5	6952.0	7137.8	6648.8
60°	7774.4	7811.3	7835.9	7606.4	7281.3	6971.2	6678.8	6672.0	7382.3	7405.6	6728.0
62.5°	8046.3	8080.4	8271.7	8241.6	8442.4	8340.0	8006.6	7267.6	7711.6	7579.1	6758.0
65°	7538.1	7622.8	8105.0	8472.5	9156.9	9300.3	9252.5	8182.9	7935.6	7629.6	6702.0
67.5°	6618.7	6729.4	7258.0	8117.3	9599.5	9759.3	9671.9	9105.0	8032.6	7607.8	6547.7
68°	6446.6	6542.2	7061.3	7998.5	9644.6	9783.9	9704.7	9173.3	8036.7	7605.0	6488.9
70°	5618.7	5696.6	6203.4	7389.2	9518.9	9648.7	9637.8	9237.5	8001.2	7520.3	6094.1
72.5°	4359.2	4437.1	4886.5	6128.3	8938.3	9176.0	9166.5	8980.7	7935.6	7088.6	5109.2
75°	3151.6	3237.6	3647.5	4708.9	7734.8	8258.0	8363.2	8540.8	7253.9	5965.7	3635.2
77.5°	2275.9	2338.7	2692.6	3557.3	6318.2	6916.5	7129.6	7308.6	5937.0	4348.3	1729.5
80°	1517.7	1562.8	1904.3	2644.7	4759.5	5111.9	5341.4	5042.2	3378.3	1572.4	187.2
82.5°	934.4	963.1	1232.2	1855.1	3292.3	3402.9	3404.3	2689.8	1088.8	150.3	101.1
85°	501.4	510.9	669.4	1012.3	1739.0	1822.4	1789.6	1129.8	219.9	80.6	54.6
87.5°	80.6	87.4	210.4	379.8	536.9	413.9	265.0	83.3	21.9	12.3	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8
2.5°	1806.0	1801.9	1790.9	1785.5	1771.8	1775.9	1775.9	1765.0	1770.5	1792.3	1789.6
5°	1822.4	1823.7	1797.8	1784.1	1754.1	1745.9	1733.6	1717.2	1715.8	1730.8	1732.2
7.5°	1836.0	1842.9	1806.0	1778.6	1737.7	1709.0	1684.4	1655.7	1648.9	1658.4	1658.4
10°	1857.9	1864.7	1818.3	1780.0	1719.9	1673.5	1631.1	1594.2	1579.2	1579.2	1580.6
12.5°	1915.3	1911.2	1857.9	1799.1	1728.1	1654.3	1587.4	1538.2	1502.7	1501.3	1495.9
15°	1994.5	1979.5	1927.6	1838.8	1747.2	1653.0	1560.1	1483.6	1422.1	1405.7	1398.9
17.5°	2079.2	2060.1	1997.2	1889.3	1777.3	1651.6	1528.7	1422.1	1319.6	1280.0	1267.7
20°	2170.7	2147.5	2083.3	1948.0	1807.3	1642.0	1482.2	1333.3	1194.0	1118.8	1099.7
22.5°	2271.8	2252.7	2174.8	2008.2	1827.8	1621.5	1409.8	1221.3	1043.7	935.8	927.6
25°	2403.0	2385.2	2270.4	2061.4	1829.2	1583.3	1314.2	1077.8	855.2	728.1	702.2
27.5°	2560.1	2528.6	2346.9	2094.2	1807.3	1516.4	1189.9	886.6	635.2	528.7	525.9
30°	2730.8	2673.4	2408.4	2102.4	1758.2	1409.8	1019.1	651.6	450.8	378.4	378.4
32.5°	2931.6	2826.4	2471.3	2088.8	1677.6	1262.3	780.0	452.2	310.1	276.0	276.0
35°	3225.3	3062.8	2551.9	2054.6	1564.2	1058.7	554.6	299.2	244.5	240.4	240.4
37.5°	3689.8	3419.3	2661.1	1997.2	1408.4	807.4	360.6	230.9	233.6	233.6	232.2
40°	4184.3	3831.9	2811.4	1905.7	1213.1	557.4	236.3	218.6	222.7	225.4	224.0
42.5°	4631.0	4223.9	2975.3	1782.7	982.2	351.1	215.8	210.4	207.6	210.4	211.7
45°	5017.6	4564.1	3140.6	1622.9	725.4	229.5	210.4	198.1	189.9	191.3	192.6
47.5°	5348.2	4831.9	3252.7	1454.9	480.9	203.5	203.5	181.7	173.5	173.5	173.5
50°	5637.9	5069.6	3321.0	1254.1	286.9	200.8	191.3	166.7	158.5	157.1	158.5
52.5°	5848.2	5236.2	3312.8	1009.5	192.6	194.0	174.9	153.0	143.4	146.2	147.5
55°	6014.9	5341.4	3240.4	739.1	180.3	181.7	162.6	138.0	131.1	132.5	132.5
57.5°	6120.1	5367.4	3092.8	480.9	176.2	162.6	146.2	122.9	114.8	114.8	114.8
60°	6154.2	5353.7	2892.0	307.4	174.9	146.2	132.5	110.7	102.5	102.5	102.5
62.5°	6125.5	5274.5	2551.9	221.3	162.6	136.6	120.2	98.4	90.2	87.4	87.4
65°	6023.1	5062.7	1967.2	183.1	146.2	125.7	109.3	88.8	77.9	73.8	72.4
67.5°	5723.9	4603.7	1144.8	172.1	132.5	114.8	101.1	80.6	68.3	61.5	60.1
68°	5646.0	4467.1	941.2	170.8	132.5	113.4	99.7	77.9	65.6	58.7	57.4
70°	5088.7	3603.7	270.5	162.6	129.8	109.3	91.5	71.0	58.7	50.5	49.2
72.5°	3831.9	2112.0	169.4	144.8	128.4	97.0	88.8	71.0	51.9	43.7	41.0
75°	2139.3	480.9	143.4	107.9	120.2	95.6	87.4	64.2	46.4	35.5	34.2
77.5°	439.9	139.3	122.9	75.1	91.5	83.3	73.8	54.6	42.3	27.3	26.0
80°	124.3	103.8	109.3	54.6	51.9	58.7	54.6	47.8	31.4	20.5	20.5
82.5°	80.6	76.5	98.4	36.9	27.3	27.3	35.5	28.7	27.3	16.4	16.4
85°	49.2	64.2	47.8	16.4	13.7	10.9	12.3	12.3	16.4	10.9	10.9
87.5°	6.8	6.8	6.8	6.8	6.8	5.5	4.1	4.1	4.1	5.5	5.5
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)