

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: P233413

Luminaire Tested: **VERD-C02H-D-U-T1-8027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233413  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-18)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-C02H-D-U-T1-8027  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 1040mA LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13777 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 120  
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

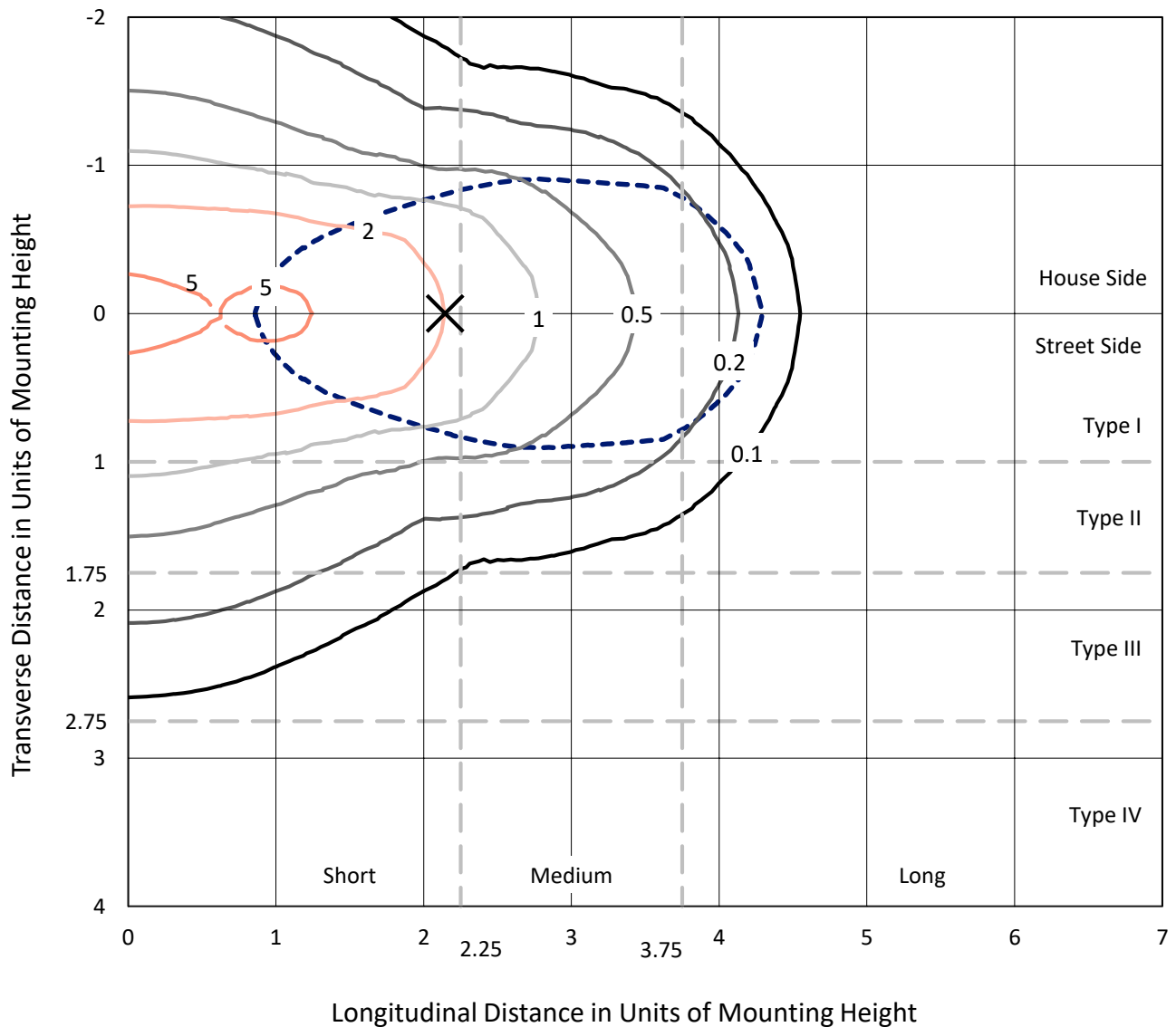


REPORT NUMBER: P233413

CATALOG NUMBER: VERD-C02H-D-U-T1-8027

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

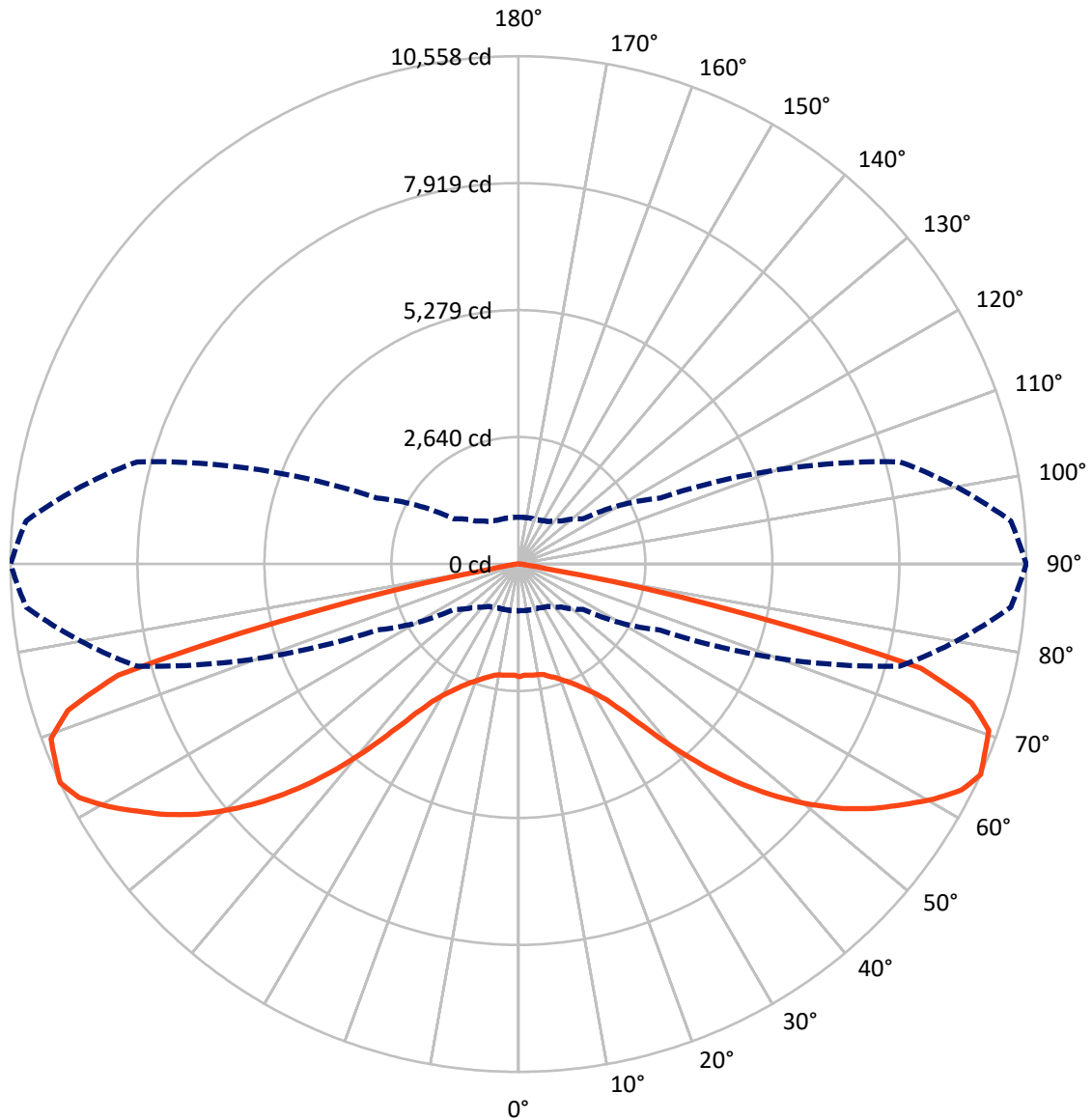


Based on 20 foot mounting height. Maximum calculated value = 5.9 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P233413

CATALOG NUMBER: VERD-C02H-D-U-T1-8027

### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P233413

CATALOG NUMBER: VERD-C02H-D-U-T1-8027

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6888.5	0.0	6888.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6888.5	0.0	6888.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13777.0	0.0	13777.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.1	1.6
10°-20°	656.1	4.8
20°-30°	1075.8	7.8
30°-40°	1555.5	11.3
40°-50°	2277.8	16.5
50°-60°	2954.8	21.4
60°-70°	3124.9	22.7
70°-80°	1834.4	13.3
80°-90°	75.6	0.5
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°	13777.0	100.0
0°-180°	13777.0	100.0



REPORT NUMBER: P233413

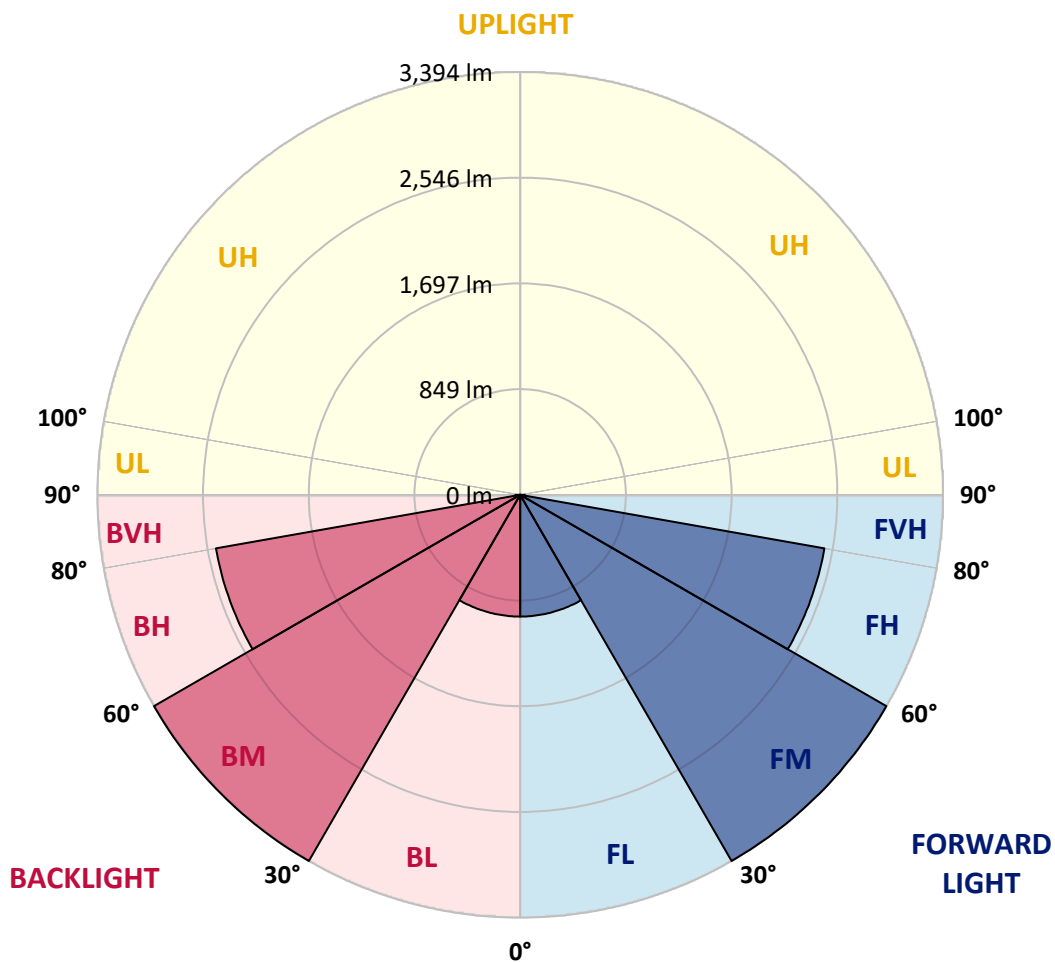
CATALOG NUMBER: VERD-C02H-D-U-T1-8027

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	977.0	7.1			
FM (30°-60°)	3394.1	24.6			
FH (60°-80°)	2479.7	18.0			G2/5000
FVH (80°-90°)	37.8	0.3			G1/100
BL (0°-30°)	977.0	7.1	B2/1000		
BM (30°-60°)	3394.1	24.6	B3/5000		
BH (60°-80°)	2479.7	18.0	B3/2500		G2/5000
BVH (80°-90°)	37.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short





REPORT NUMBER: P233413

CATALOG NUMBER: VERD-C02H-D-U-T1-8027

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0
2.5°	2367.6	2365.2	2352.1	2333.1	2327.1	2331.9	2330.7	2324.7	2324.7	2327.1	2311.7
5°	2353.3	2349.7	2334.3	2329.5	2330.7	2336.6	2335.4	2330.7	2333.1	2330.7	2318.8
7.5°	2328.3	2324.7	2315.2	2312.9	2310.5	2320.0	2329.5	2335.4	2342.6	2339.0	2330.7
10°	2304.5	2297.4	2298.6	2286.7	2291.4	2309.3	2318.8	2329.5	2340.2	2339.0	2336.6
12.5°	2268.9	2261.7	2265.3	2261.7	2278.4	2299.8	2328.3	2348.5	2360.4	2356.8	2360.4
15°	2224.9	2222.5	2228.4	2233.2	2262.9	2311.7	2342.6	2386.6	2412.7	2413.9	2422.3
17.5°	2174.9	2170.2	2180.9	2198.7	2253.4	2306.9	2384.2	2433.0	2471.0	2477.0	2484.1
20°	2090.5	2092.9	2109.5	2140.4	2217.7	2314.0	2409.2	2482.9	2537.6	2551.9	2567.3
22.5°	1984.7	1990.6	2021.5	2085.7	2185.6	2305.7	2436.5	2541.2	2619.6	2651.8	2661.3
25°	1874.1	1883.6	1933.5	2019.1	2148.8	2302.1	2471.0	2608.9	2720.7	2771.9	2777.8
27.5°	1775.4	1783.7	1847.9	1957.3	2114.3	2303.3	2501.9	2691.0	2842.0	2916.9	2928.8
30°	1675.5	1685.0	1751.6	1887.1	2079.8	2301.0	2537.6	2783.7	2987.1	3094.1	3111.9
32.5°	1589.9	1599.4	1668.3	1809.9	2037.0	2297.4	2580.4	2896.7	3161.9	3335.5	3359.3
35°	1517.3	1528.0	1598.2	1737.3	1982.3	2298.6	2642.2	3051.3	3433.0	3719.6	3766.0
37.5°	1456.7	1467.4	1529.2	1669.5	1926.4	2289.1	2717.2	3246.3	3792.1	4266.6	4352.2
40°	1418.6	1428.1	1474.5	1599.4	1858.6	2267.7	2804.0	3462.7	4230.9	4923.0	5072.8
42.5°	1379.4	1390.1	1428.1	1535.2	1786.1	2235.6	2880.1	3680.3	4688.7	5611.5	5825.5
45°	1336.6	1343.7	1385.3	1481.7	1714.7	2185.6	2946.7	3888.4	5169.1	6310.7	6542.6
47.5°	1300.9	1304.5	1339.0	1428.1	1639.8	2111.9	2964.5	4066.8	5654.3	6990.9	7218.0
50°	1277.1	1271.2	1303.3	1380.6	1569.6	2009.6	2933.6	4200.0	6176.3	7640.1	7855.4
52.5°	1240.3	1239.1	1264.0	1334.2	1503.1	1891.9	2823.0	4264.2	6698.3	8247.8	8447.6
55°	1205.8	1205.8	1226.0	1280.7	1432.9	1770.6	2633.9	4238.0	7199.0	8823.3	8969.6
57.5°	1155.8	1154.6	1171.3	1221.2	1350.8	1656.5	2394.9	4116.8	7605.7	9356.0	9435.7
60°	1107.1	1105.9	1115.4	1153.5	1272.4	1534.0	2139.2	3878.9	8008.8	9826.9	9922.1
62.5°	1045.2	1044.1	1053.6	1086.9	1184.4	1403.2	1888.3	3588.8	8245.4	10098.1	10344.2
65°	971.5	972.7	984.6	1006.0	1075.0	1262.9	1639.8	3242.7	8206.2	10274.1	10558.3
67.5°	901.4	897.8	907.3	910.9	962.0	1115.4	1407.9	2968.1	7906.5	10305.0	10459.6
70°	814.6	809.8	809.8	795.5	831.2	943.0	1190.3	2680.3	7055.1	10023.1	10375.1
72.5°	681.4	681.4	674.2	658.8	681.4	764.6	991.7	2359.2	5716.1	9411.9	9848.3
75°	424.5	428.1	443.5	491.1	524.4	576.7	786.0	1988.2	4669.7	7830.4	8635.4
77.5°	217.6	222.4	228.3	229.5	237.8	248.5	374.6	1113.0	2373.5	3901.5	4161.9
80°	54.7	55.9	134.4	149.8	160.5	165.3	137.9	371.0	614.8	575.5	562.5
82.5°	36.9	39.2	77.3	95.1	88.0	66.6	76.1	113.0	91.6	124.9	140.3
85°	20.2	20.2	34.5	36.9	38.1	42.8	38.1	36.9	41.6	79.7	92.8
87.5°	9.5	9.5	14.3	17.8	17.8	21.4	17.8	19.0	19.0	36.9	42.8
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)