

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: P233439

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233439
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
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1040mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15640 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - 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

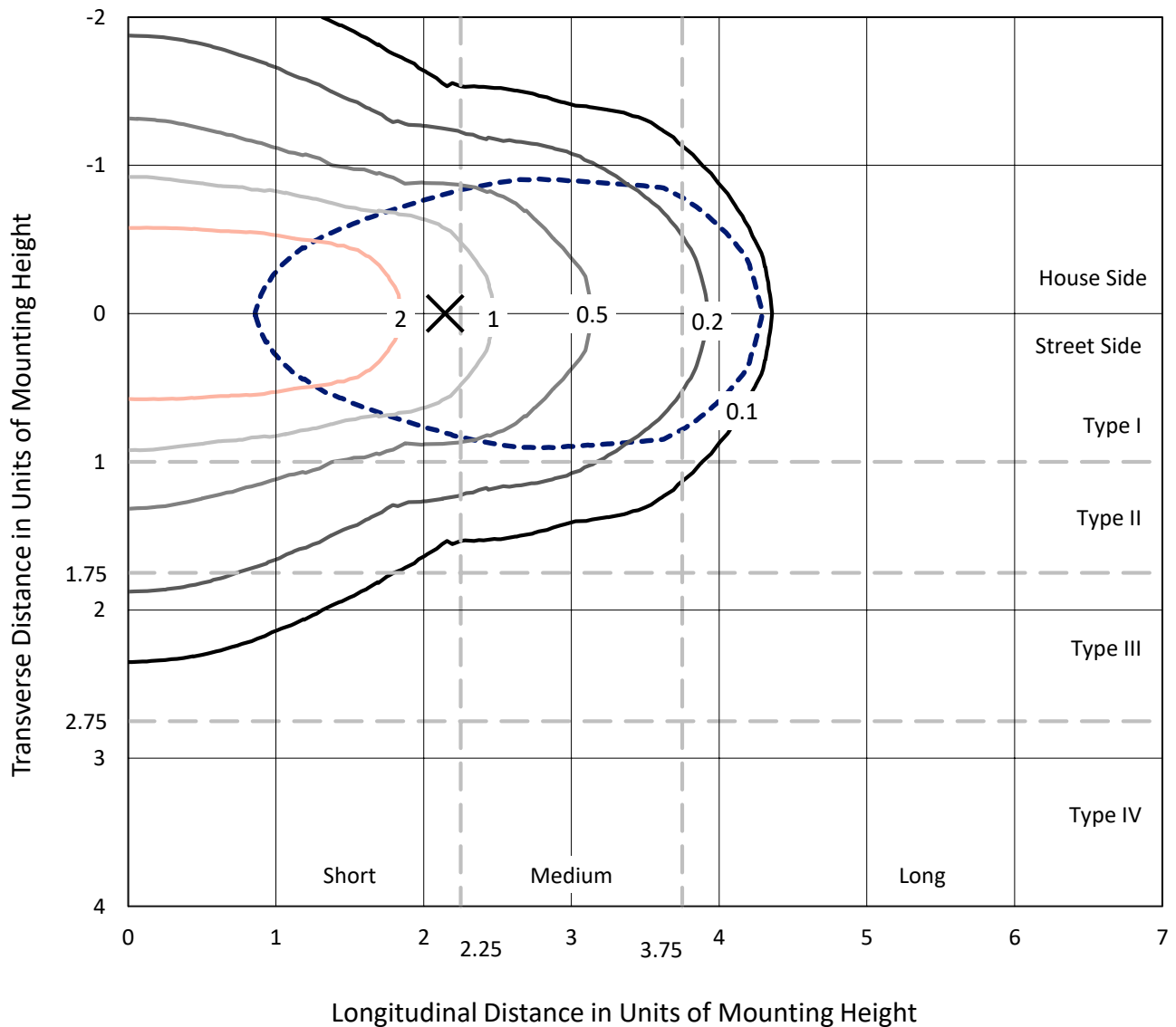


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Iso-Footcandle Lines of Horizontal Illumination

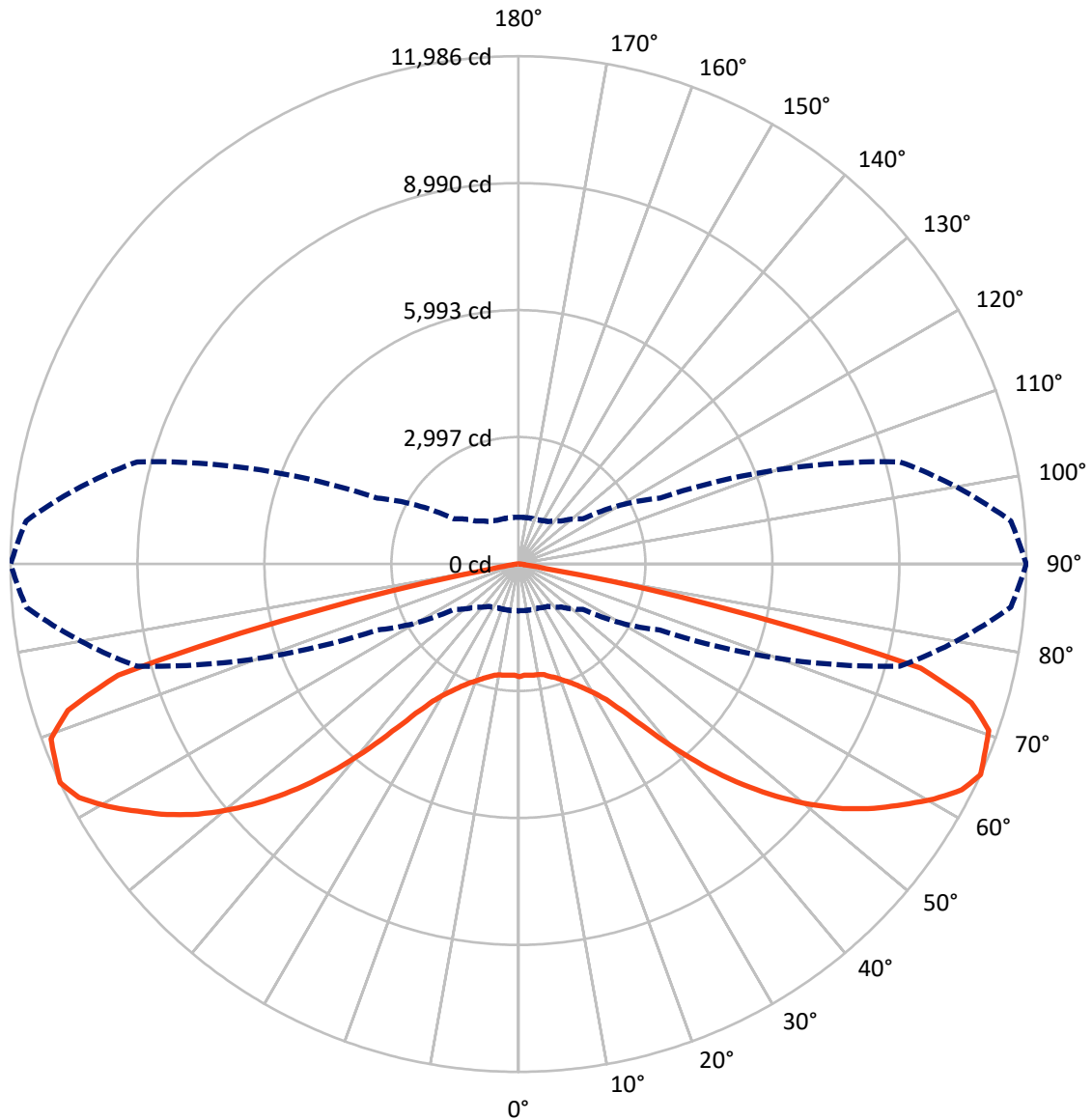
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7820.0	0.0	7820.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7820.0	0.0	7820.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15640.0	0.0	15640.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.1	1.6
10°-20°	744.8	4.8
20°-30°	1221.2	7.8
30°-40°	1765.9	11.3
40°-50°	2585.8	16.5
50°-60°	3354.4	21.4
60°-70°	3547.5	22.7
70°-80°	2082.5	13.3
80°-90°	85.8	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°	15640.0	100.0
0°-180°	15640.0	100.0



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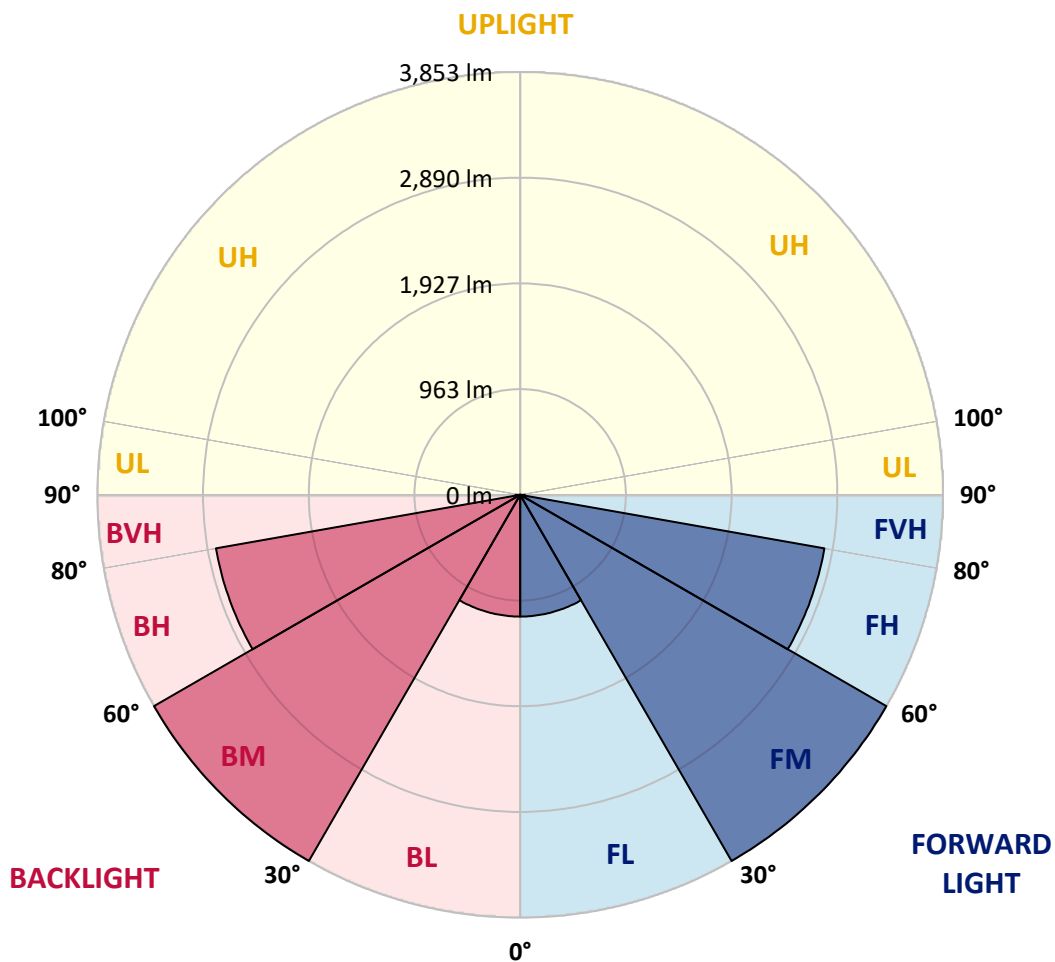
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1109.1	7.1			
FM	(30°-60°)	3853.0	24.6			
FH	(60°-80°)	2815.0	18.0			G2/5000
FVH	(80°-90°)	42.9	0.3			G1/100
BL	(0°-30°)	1109.1	7.1	B3/2500		
BM	(30°-60°)	3853.0	24.6	B3/5000		
BH	(60°-80°)	2815.0	18.0	B4/5000		G2/5000
BVH	(80°-90°)	42.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2662.1	2662.1	2662.1	2662.1	2662.1	2662.1	2662.1	2662.1	2662.1	2662.1	2662.1
2.5°	2687.7	2685.0	2670.2	2648.6	2641.8	2647.2	2645.9	2639.1	2639.1	2641.8	2624.3
5°	2671.5	2667.5	2649.9	2644.5	2645.9	2652.6	2651.3	2645.9	2648.6	2645.9	2632.4
7.5°	2643.2	2639.1	2628.3	2625.6	2622.9	2633.7	2644.5	2651.3	2659.4	2655.3	2645.9
10°	2616.2	2608.1	2609.4	2595.9	2601.3	2621.6	2632.4	2644.5	2656.7	2655.3	2652.6
12.5°	2575.7	2567.6	2571.6	2567.6	2586.5	2610.8	2643.2	2666.1	2679.6	2675.6	2679.6
15°	2525.7	2523.0	2529.8	2535.2	2568.9	2624.3	2659.4	2709.3	2739.0	2740.4	2749.8
17.5°	2469.0	2463.6	2475.8	2496.0	2558.1	2618.9	2706.6	2761.9	2805.1	2811.9	2820.0
20°	2373.2	2375.9	2394.8	2429.9	2517.6	2627.0	2735.0	2818.6	2880.7	2896.9	2914.5
22.5°	2253.0	2259.8	2294.9	2367.8	2481.2	2617.5	2766.0	2884.8	2973.9	3010.3	3021.1
25°	2127.5	2138.3	2195.0	2292.2	2439.3	2613.5	2805.1	2961.7	3088.6	3146.7	3153.4
27.5°	2015.4	2024.9	2097.8	2222.0	2400.2	2614.8	2840.2	3054.9	3226.3	3311.4	3324.9
30°	1902.0	1912.8	1988.4	2142.3	2361.0	2612.1	2880.7	3160.2	3391.0	3512.5	3532.8
32.5°	1804.9	1815.7	1893.9	2054.6	2312.4	2608.1	2929.3	3288.4	3589.5	3786.5	3813.5
35°	1722.5	1734.7	1814.3	1972.2	2250.3	2609.4	2999.5	3463.9	3897.2	4222.6	4275.2
37.5°	1653.7	1665.8	1736.0	1895.3	2186.9	2598.6	3084.6	3685.3	4304.9	4843.5	4940.7
40°	1610.5	1621.3	1673.9	1815.7	2109.9	2574.3	3183.1	3931.0	4803.0	5588.7	5758.8
42.5°	1565.9	1578.1	1621.3	1742.8	2027.6	2537.9	3269.5	4178.0	5322.8	6370.3	6613.3
45°	1517.3	1525.4	1572.7	1682.0	1946.6	2481.2	3345.1	4414.3	5868.1	7164.1	7427.3
47.5°	1476.8	1480.9	1520.0	1621.3	1861.5	2397.5	3365.4	4616.7	6418.9	7936.2	8194.1
50°	1449.8	1443.1	1479.5	1567.3	1781.9	2281.4	3330.3	4767.9	7011.5	8673.3	8917.6
52.5°	1408.0	1406.6	1435.0	1514.6	1706.3	2147.7	3204.7	4840.8	7604.1	9363.1	9589.9
55°	1368.8	1368.8	1391.8	1453.9	1626.7	2010.0	2990.1	4811.1	8172.5	10016.5	10182.5
57.5°	1312.1	1310.8	1329.7	1386.4	1533.5	1880.4	2718.8	4673.4	8634.1	10621.2	10711.7
60°	1256.8	1255.4	1266.2	1309.4	1444.4	1741.4	2428.5	4403.5	9091.8	11155.8	11263.8
62.5°	1186.6	1185.2	1196.0	1233.8	1344.5	1592.9	2143.7	4074.1	9360.4	11463.6	11743.0
65°	1102.9	1104.2	1117.7	1142.0	1220.3	1433.6	1861.5	3681.2	9315.8	11663.4	11986.0
67.5°	1023.2	1019.2	1030.0	1034.0	1092.1	1266.2	1598.3	3369.4	8975.7	11698.5	11874.0
70°	924.7	919.3	919.3	903.1	943.6	1070.5	1351.3	3042.7	8009.1	11378.5	11778.1
72.5°	773.5	773.5	765.4	747.9	773.5	868.0	1125.8	2678.3	6489.1	10684.7	11180.1
75°	481.9	486.0	503.5	557.5	595.3	654.7	892.3	2257.1	5301.2	8889.3	9803.2
77.5°	247.0	252.4	259.2	260.5	270.0	282.1	425.2	1263.5	2694.5	4429.1	4724.7
80°	62.1	63.4	152.5	170.1	182.2	187.6	156.6	421.2	697.9	653.4	638.5
82.5°	41.8	44.5	87.7	108.0	99.9	75.6	86.4	128.2	103.9	141.7	159.3
85°	22.9	22.9	39.1	41.8	43.2	48.6	43.2	41.8	47.2	90.4	105.3
87.5°	10.8	10.8	16.2	20.2	20.2	24.3	20.2	21.6	21.6	41.8	48.6
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)