

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: P509461

Luminaire Tested: **VERD-G-CA2-100-740-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509461  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-100-740-U-T2  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 930mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15250.1 lumens  
Efficiency: N/A  
Efficacy: 148.6 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

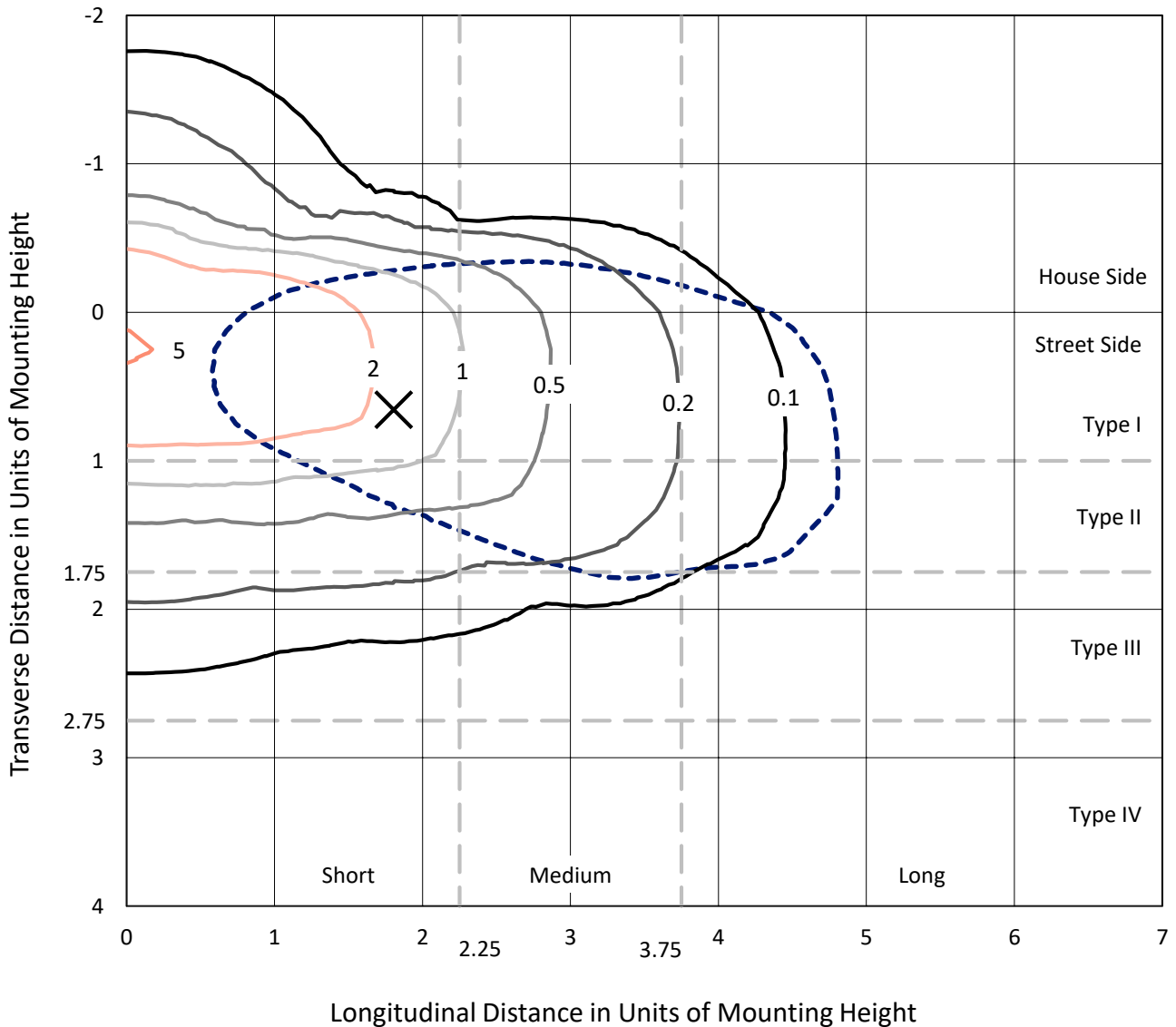
Input Watts (W): 102.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P509461  
 CATALOG NUMBER: VERD-G-CA2-100-740-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

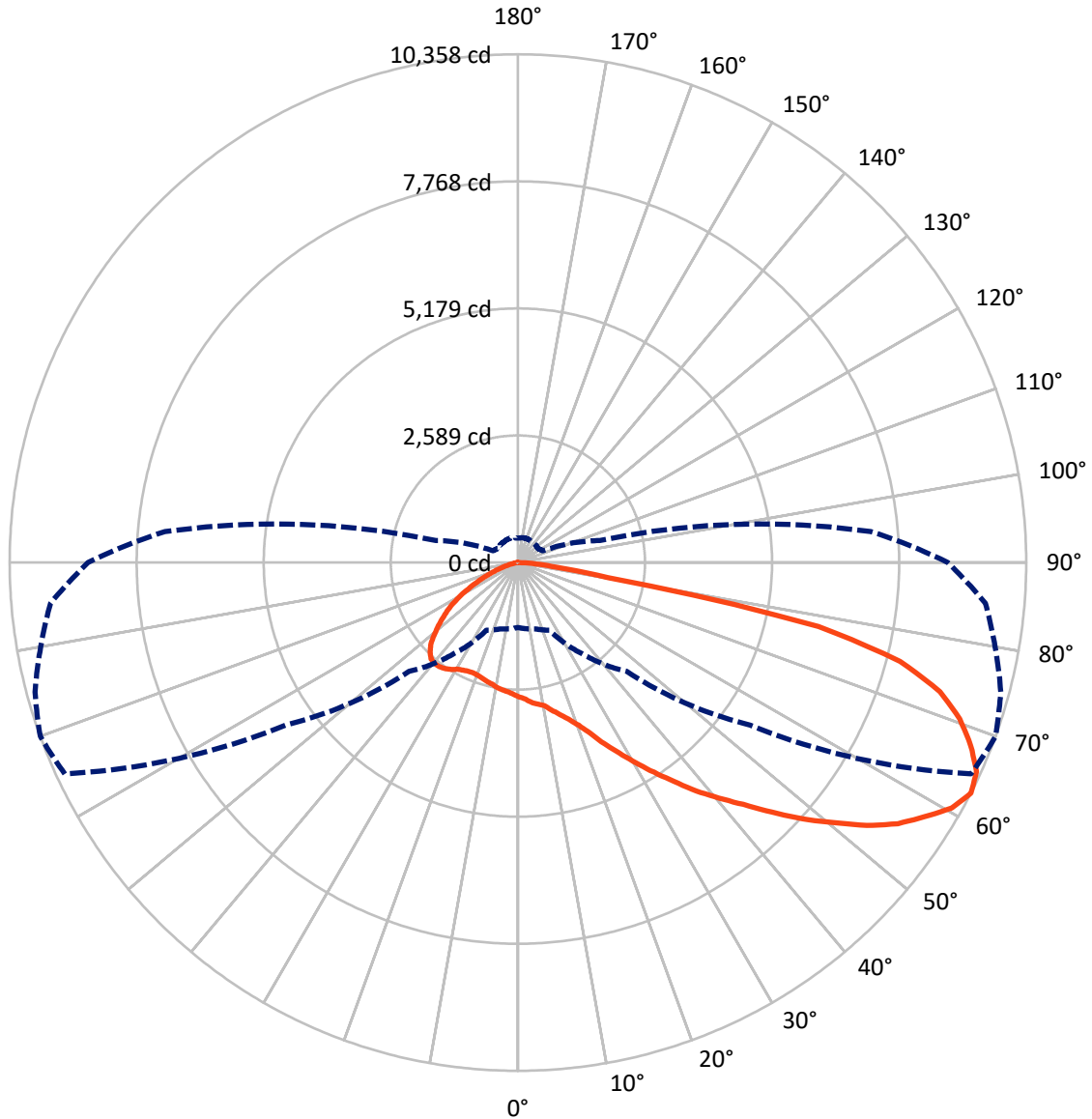
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P509461  
CATALOG NUMBER: VERD-G-CA2-100-740-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P509461

CATALOG NUMBER: VERD-G-CA2-100-740-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3896.9	0.0	3896.9
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	11353.1	0.0	11353.1
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	15250.1	0.0	15250.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.3	1.7
10°-20°	804.0	5.3
20°-30°	1366.6	9.0
30°-40°	1966.5	12.9
40°-50°	2552.0	16.7
50°-60°	2991.5	19.6
60°-70°	3067.8	20.1
70°-80°	2013.1	13.2
80°-90°	224.3	1.5
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°	15250.1	100.0
0°-180°	15250.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509461

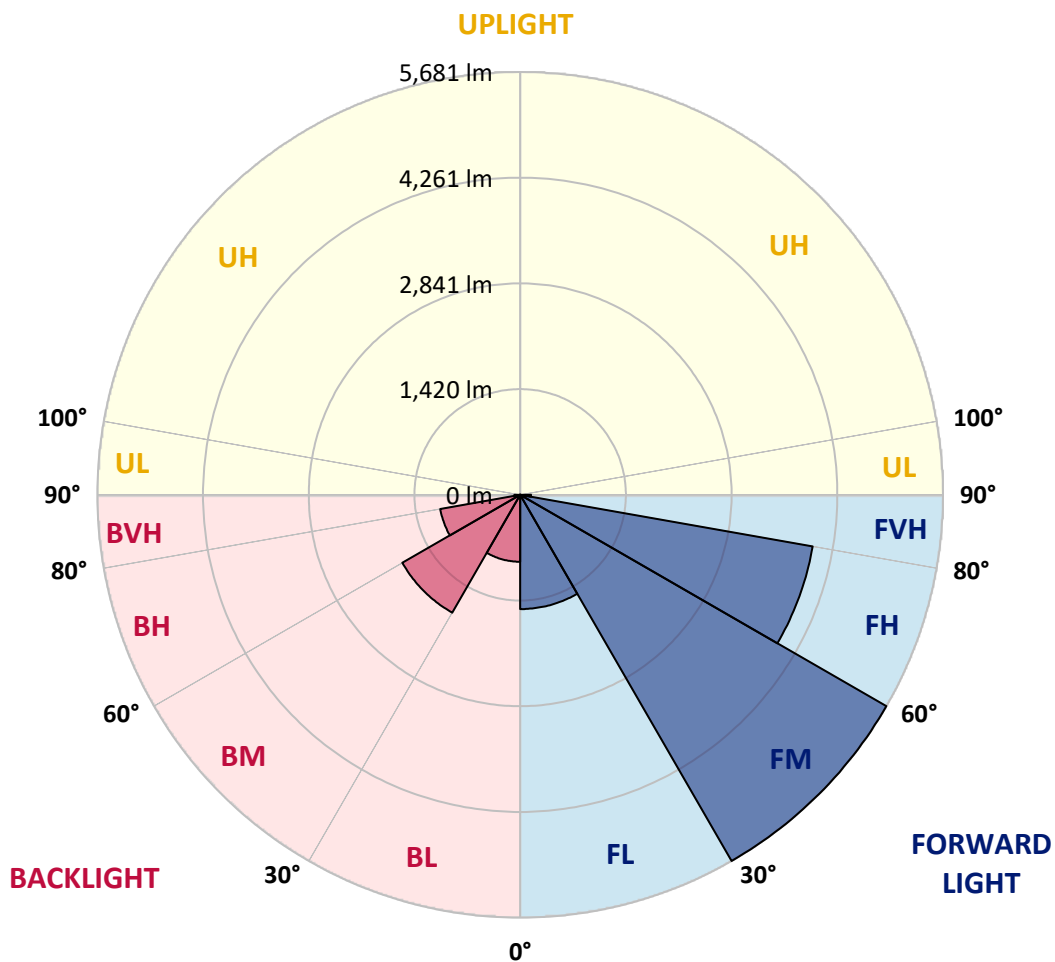
CATALOG NUMBER: VERD-G-CA2-100-740-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1535.0	10.1			
FM (30°-60°)	5681.1	37.3			
FH (60°-80°)	3990.8	26.2			G2/5000
FVH (80°-90°)	146.2	1.0			G2/225
BL (0°-30°)	899.9	5.9	B2/1000		
BM (30°-60°)	1828.9	12.0	B2/2500		
BH (60°-80°)	1090.1	7.1	B3/2500		G3/2500
BVH (80°-90°)	78.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





REPORT NUMBER: P509461  
 CATALOG NUMBER: VERD-G-CA2-100-740-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2737	2737	2737	2737	2737	2737	2737	2737	2737	2737	2737
2.5°	2913	2924	2906	2889	2872	2862	2845	2797	2780	2765	2735
5°	3064	3079	3053	2999	2986	2944	2921	2880	2863	2837	2787
7.5°	3241	3243	3206	3189	3146	3089	3016	2941	2916	2889	2826
10°	3344	3365	3329	3276	3246	3195	3118	3019	2964	2916	2846
12.5°	3489	3494	3436	3406	3366	3302	3227	3141	3087	2998	2871
15°	3595	3598	3546	3514	3476	3438	3357	3267	3214	3125	2932
17.5°	3671	3684	3652	3629	3589	3562	3498	3427	3358	3278	3059
20°	3754	3761	3702	3712	3705	3693	3663	3596	3540	3434	3161
22.5°	3777	3765	3781	3820	3839	3853	3844	3829	3778	3646	3354
25°	3743	3758	3796	3881	3987	4050	4095	4106	4091	3965	3612
27.5°	3734	3727	3789	3934	4112	4259	4348	4432	4394	4315	3903
30°	3696	3693	3802	3951	4180	4453	4612	4754	4736	4656	4244
32.5°	3603	3623	3707	3965	4284	4641	4835	5068	5095	5036	4589
35°	3483	3490	3624	3928	4365	4806	5088	5412	5475	5473	4977
37.5°	3331	3371	3514	3836	4400	4957	5331	5778	5904	5885	5365
40°	3179	3204	3373	3719	4403	5058	5537	6169	6309	6312	5807
42.5°	2951	2993	3170	3565	4336	5144	5742	6579	6738	6761	6217
45°	2761	2775	2932	3326	4191	5190	5970	6999	7256	7237	6573
47.5°	2515	2570	2736	3100	3964	5198	6168	7487	7805	7761	7058
50°	1946	2007	2459	2896	3677	5107	6327	8067	8326	8279	7471
52.5°	1716	1746	1929	2658	3379	4890	6454	8617	8900	8755	7954
55°	1618	1632	1715	2174	3116	4534	6527	9234	9393	9178	8404
57.5°	1512	1545	1587	1832	2823	4041	6482	9746	9772	9558	8788
60°	1412	1426	1513	1642	2486	3532	6228	10065	10157	9894	9250
62.5°	1323	1348	1399	1520	2261	3136	5776	10188	10358	10187	9562
65°	1239	1247	1305	1415	2012	2941	5515	9994	10270	10243	9699
67.5°	1140	1149	1200	1276	1701	2724	4835	9720	9952	10044	9621
70°	1011	1018	1078	1123	1426	2404	4060	9300	9551	9466	9097
72.5°	863	874	922	978	1186	2027	3180	8421	8996	8940	8319
75°	697	714	753	820	964	1610	2251	6814	8042	8126	7179
77.5°	330	347	382	438	584	1123	1232	3841	6263	6783	5780
80°	108	110	259	296	371	692	503	1253	1855	3137	3109
82.5°	58	63	140	172	186	186	147	553	781	955	1106
85°	31	32	49	59	64	51	38	228	366	457	453
87.5°	13	14	15	13	11	7	5	4	4	4	4
90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P509461  
 CATALOG NUMBER: VERD-G-CA2-100-740-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2737	2737	2737	2737	2737	2737	2737	2737	2737	2737	2737
2.5°	2720	2706	2699	2670	2638	2604	2577	2578	2599	2615	2614
5°	2751	2716	2673	2605	2577	2552	2522	2482	2495	2511	2523
7.5°	2768	2723	2665	2564	2518	2464	2436	2384	2362	2378	2378
10°	2762	2716	2616	2542	2452	2367	2311	2298	2279	2276	2275
12.5°	2802	2734	2586	2477	2395	2286	2226	2214	2218	2193	2197
15°	2841	2764	2560	2447	2320	2192	2144	2100	2120	2099	2104
17.5°	2911	2818	2546	2387	2224	2113	2027	1977	1975	1972	1964
20°	2991	2862	2544	2335	2146	2014	1891	1836	1796	1810	1811
22.5°	3136	2945	2565	2287	2037	1889	1763	1679	1631	1639	1640
25°	3342	3119	2620	2246	1946	1744	1620	1514	1456	1457	1473
27.5°	3641	3327	2708	2211	1849	1607	1439	1335	1272	1271	1282
30°	3937	3587	2834	2161	1726	1423	1233	1150	1111	1085	1091
32.5°	4230	3866	2998	2135	1582	1206	1047	990	941	893	898
35°	4562	4128	3163	2083	1409	1026	915	837	774	749	744
37.5°	4952	4433	3277	2039	1204	905	770	712	671	644	640
40°	5296	4689	3403	1936	1007	796	643	612	607	586	583
42.5°	5644	5003	3489	1801	872	657	550	568	596	583	583
45°	5999	5331	3506	1599	743	556	527	561	600	603	602
47.5°	6388	5622	3539	1310	651	530	523	551	601	619	615
50°	6829	5937	3447	999	596	533	527	540	594	614	607
52.5°	7258	6240	3295	762	561	536	548	538	577	597	605
55°	7656	6574	2973	678	537	532	565	547	561	567	578
57.5°	8059	6820	2631	636	524	527	555	547	556	549	540
60°	8437	7079	2190	597	510	524	535	533	539	526	520
62.5°	8758	7219	1729	563	498	510	508	518	519	504	500
65°	8905	7279	1320	532	480	492	482	484	485	465	464
67.5°	8756	6949	905	486	461	476	457	454	447	427	428
70°	8321	6398	604	420	420	446	435	428	411	392	398
72.5°	7349	5462	392	339	369	411	406	396	356	302	304
75°	6286	4335	261	247	282	356	338	314	298	315	336
77.5°	4895	2764	146	142	167	250	282	287	406	482	477
80°	2541	1404	85	70	99	168	222	302	504	380	368
82.5°	999	526	52	37	44	69	147	434	382	192	184
85°	342	119	21	19	21	29	58	389	198	122	116
87.5°	4	4	5	6	7	7	16	185	92	57	55
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)