

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: P233921

Luminaire Tested: **VERD-G-C028-D-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-32)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C028-D-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 885mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12256 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 103
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

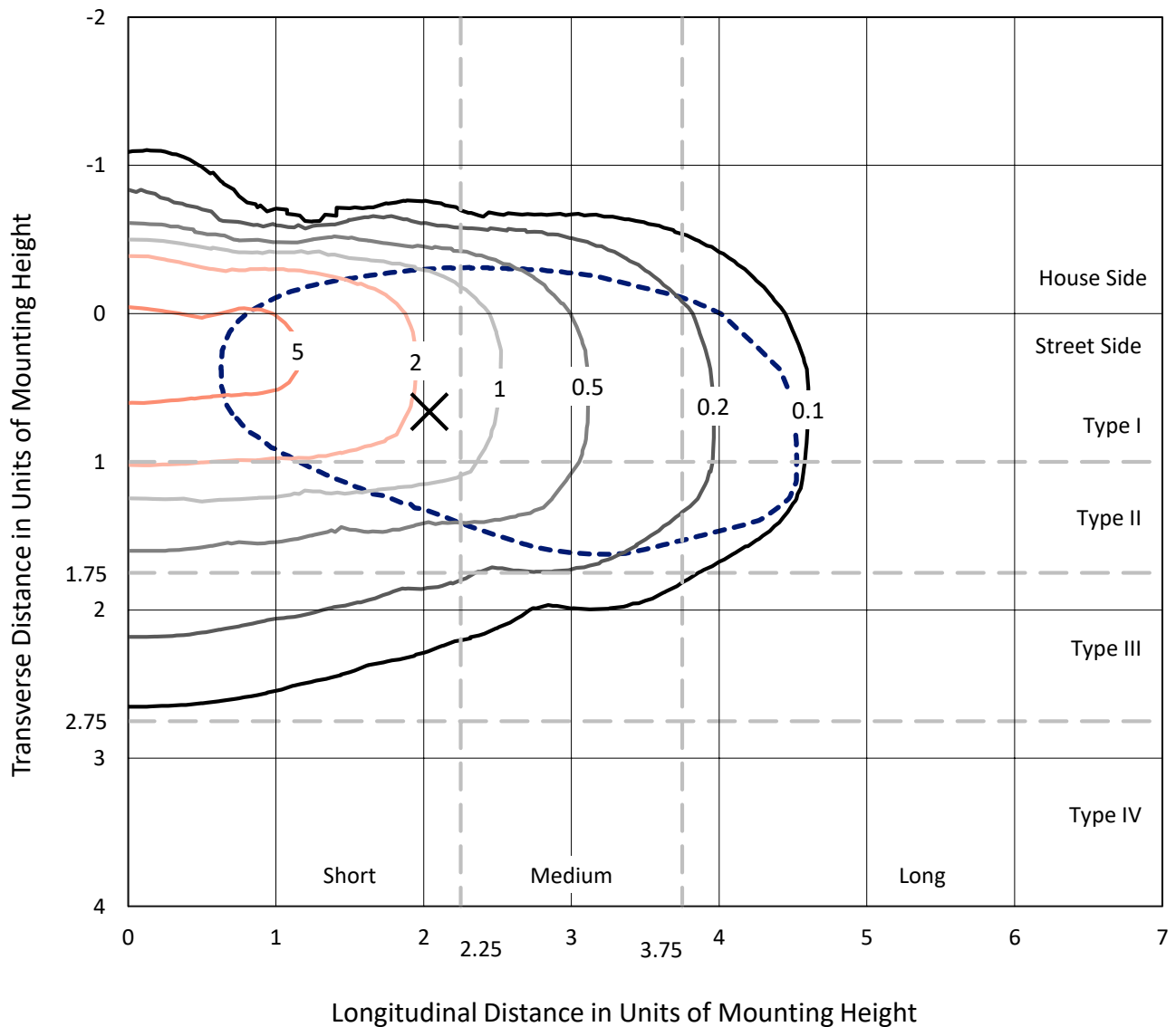


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

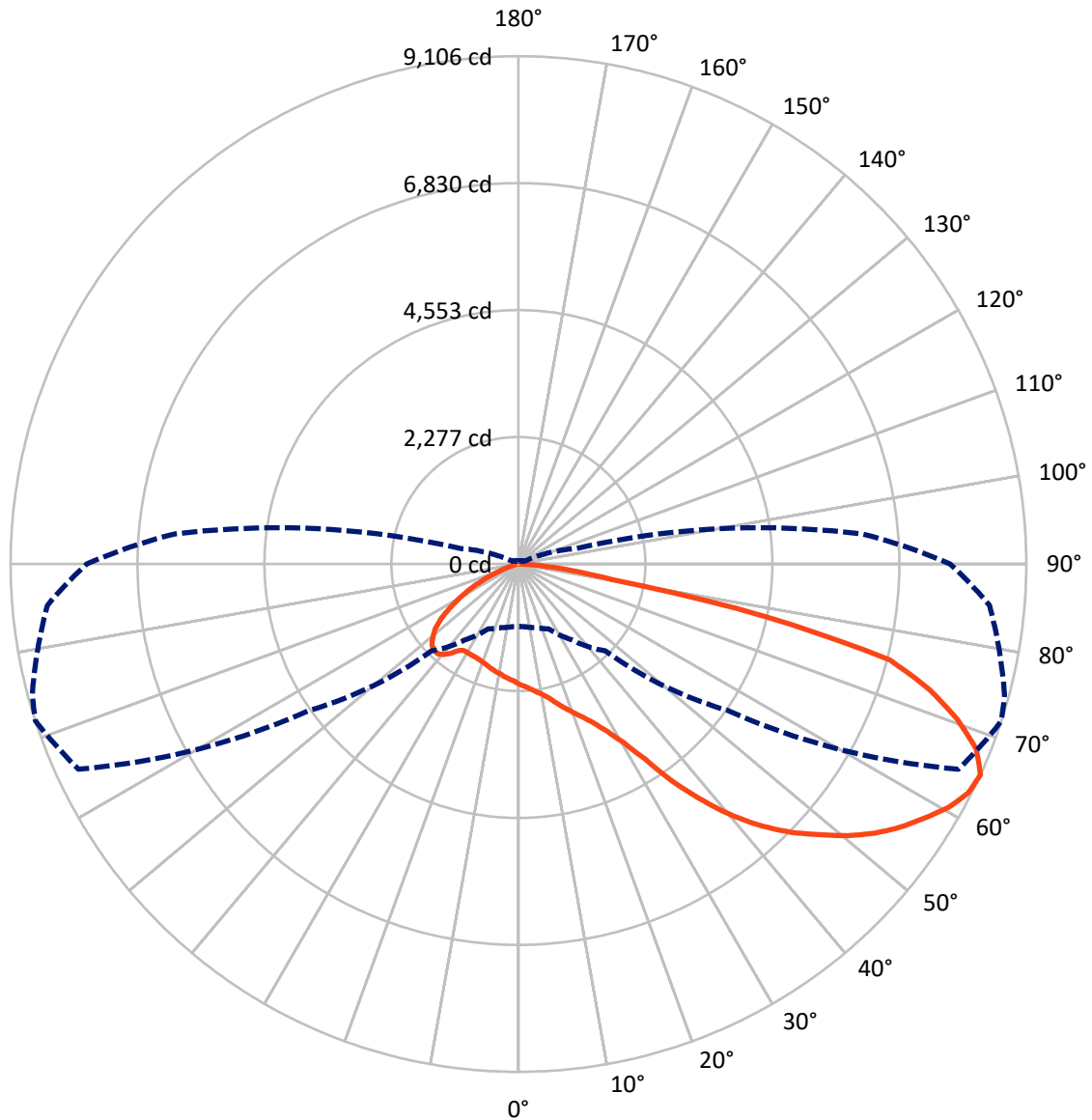


Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2546.8	0.0	2546.8
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	9709.1	0.0	9709.1
	% Fixture	79.2	0.0	79.2
Total	Lumens	12256.0	0.0	12256.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.0	1.7
10°-20°	628.4	5.1
20°-30°	1050.1	8.6
30°-40°	1553.4	12.7
40°-50°	2147.5	17.5
50°-60°	2512.9	20.5
60°-70°	2497.8	20.4
70°-80°	1496.0	12.2
80°-90°	162.8	1.3
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°	12256.0	100.0
0°-180°	12256.0	100.0



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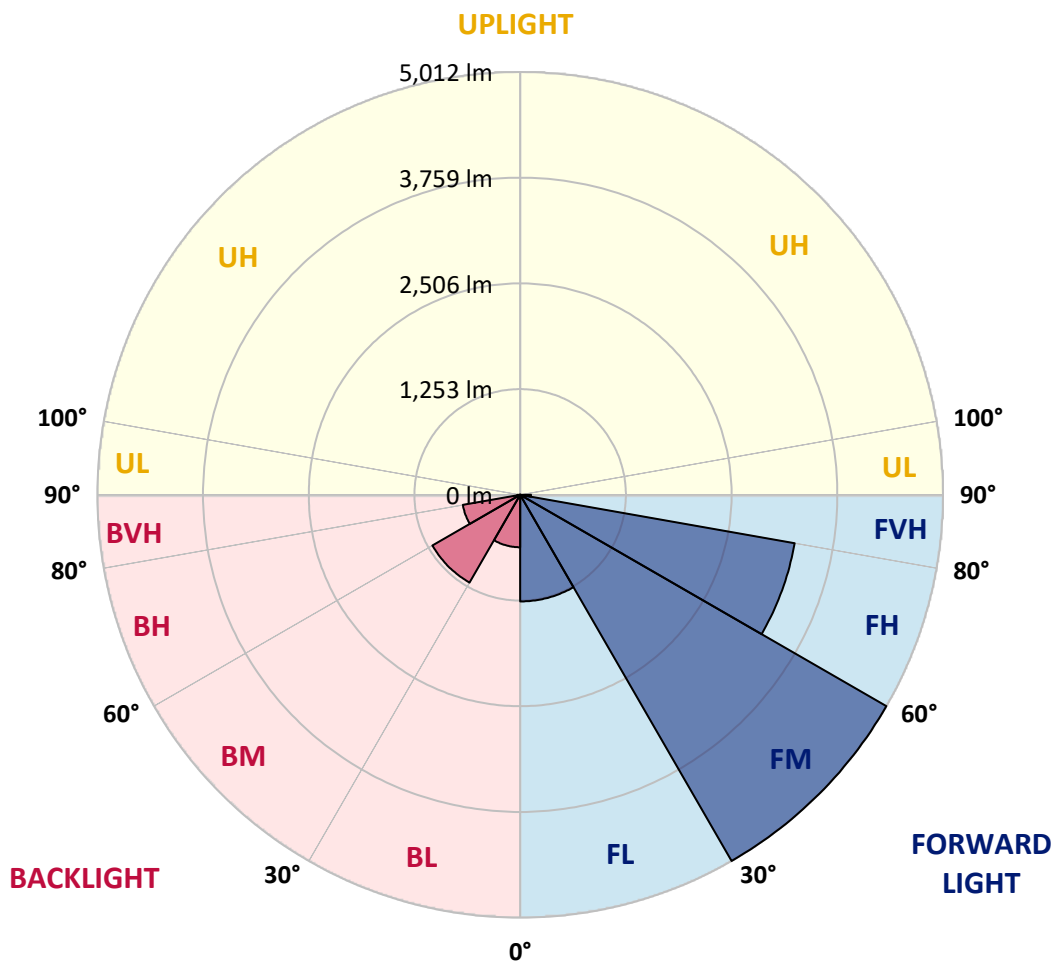
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1263.8	10.3			
FM (30°-60°)	5012.3	40.9			
FH (60°-80°)	3304.2	27.0			G2/5000
FVH (80°-90°)	128.7	1.1			G2/225
BL (0°-30°)	621.7	5.1	B2/1000		
BM (30°-60°)	1201.4	9.8	B2/2500		
BH (60°-80°)	689.5	5.6	B2/1000		G2/1000
BVH (80°-90°)	34.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2160	2160	2160	2160	2160	2160	2160	2160	2160	2160	2160
2.5°	2342	2344	2345	2308	2288	2265	2243	2219	2194	2185	2152
5°	2486	2488	2482	2448	2411	2377	2335	2292	2250	2238	2182
7.5°	2625	2624	2619	2576	2530	2485	2426	2368	2313	2294	2211
10°	2740	2742	2745	2699	2654	2600	2528	2442	2379	2349	2241
12.5°	2866	2860	2868	2823	2761	2712	2647	2546	2471	2433	2299
15°	3010	3010	2999	2962	2899	2839	2774	2681	2591	2533	2377
17.5°	3109	3103	3100	3068	3014	2962	2912	2817	2719	2648	2450
20°	3151	3153	3167	3144	3115	3084	3029	2955	2847	2771	2528
22.5°	3232	3234	3251	3235	3227	3219	3168	3103	2988	2915	2626
25°	3237	3239	3285	3311	3352	3371	3336	3280	3163	3092	2772
27.5°	3252	3258	3305	3377	3485	3523	3503	3501	3402	3327	2962
30°	3239	3245	3313	3413	3563	3675	3698	3757	3717	3661	3226
32.5°	3147	3169	3250	3409	3630	3833	3907	4109	4169	4175	3756
35°	2980	2992	3139	3363	3675	3982	4186	4559	4813	4802	4343
37.5°	2853	2857	3008	3285	3700	4142	4504	5101	5393	5406	4873
40°	2690	2719	2864	3191	3686	4277	4820	5606	5946	5932	5338
42.5°	2538	2555	2699	3044	3635	4380	5130	6095	6429	6383	5784
45°	2380	2409	2541	2854	3534	4438	5411	6559	6865	6808	6177
47.5°	2222	2243	2383	2680	3344	4436	5687	6994	7252	7212	6549
50°	1691	1737	2105	2498	3077	4352	5910	7407	7658	7596	6912
52.5°	1550	1565	1668	2287	2792	4152	6084	7795	8016	7945	7254
55°	1465	1483	1525	1859	2558	3823	6156	8157	8322	8250	7559
57.5°	1352	1370	1453	1601	2314	3322	6050	8478	8593	8514	7842
60°	1274	1282	1362	1478	2047	2816	5696	8739	8859	8765	8122
62.5°	1202	1211	1268	1383	1826	2445	5145	8803	9048	8975	8378
65°	1119	1127	1179	1281	1655	2203	4577	8705	9106	9023	8477
67.5°	1009	1020	1061	1153	1431	1929	3732	8524	8852	8766	8274
70°	873	878	927	1010	1209	1674	2927	7880	8349	8254	7702
72.5°	705	714	767	854	993	1379	2091	6809	7712	7676	6869
75°	471	506	632	720	821	1077	1404	4779	6885	6913	5868
77.5°	90	93	265	394	480	658	869	2348	4538	5029	4425
80°	59	64	113	276	318	326	446	1029	1710	2163	2552
82.5°	31	37	68	160	146	81	146	531	948	1089	1287
85°	13	15	33	55	41	34	34	212	420	486	505
87.5°	2	2	7	10	6	4	3	1	1	1	1
90°	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°	2160	2160	2160	2160	2160	2160	2160	2160	2160	2160	2160
2.5°	2152	2134	2109	2080	2059	2048	2039	2015	2007	2023	2019
5°	2161	2140	2083	2036	1989	1960	1928	1886	1868	1878	1875
7.5°	2167	2141	2056	1983	1904	1849	1807	1752	1725	1735	1723
10°	2176	2137	2024	1927	1824	1744	1682	1618	1590	1598	1588
12.5°	2214	2151	2009	1879	1753	1653	1575	1507	1467	1475	1467
15°	2276	2179	1987	1818	1678	1564	1474	1396	1350	1361	1351
17.5°	2341	2213	1967	1750	1598	1471	1377	1311	1237	1244	1229
20°	2397	2245	1956	1686	1523	1372	1259	1214	1112	1086	1069
22.5°	2475	2292	1947	1634	1430	1273	1139	1055	945	890	885
25°	2586	2362	1946	1593	1346	1169	982	841	744	679	670
27.5°	2727	2455	1957	1552	1262	1038	789	633	546	496	487
30°	2930	2577	1971	1505	1168	868	588	466	394	358	351
32.5°	3365	2890	1992	1456	1055	654	427	338	283	261	272
35°	3889	3315	2086	1393	907	466	308	241	203	208	214
37.5°	4347	3721	2297	1312	709	342	212	180	180	196	210
40°	4779	4087	2486	1202	497	236	164	167	164	174	171
42.5°	5187	4434	2634	1071	325	163	149	155	150	152	143
45°	5573	4793	2716	878	216	142	137	147	146	144	135
47.5°	5930	5109	2757	633	149	128	129	136	139	137	132
50°	6280	5424	2720	379	134	117	124	124	130	119	115
52.5°	6615	5740	2603	230	123	109	115	113	116	105	103
55°	6930	5975	2372	181	116	104	105	107	102	90	94
57.5°	7263	6175	2050	164	113	97	99	98	90	79	79
60°	7537	6320	1727	149	111	95	88	86	74	68	67
62.5°	7726	6361	1412	133	105	88	79	73	62	56	54
65°	7741	6186	1075	120	99	82	73	60	49	44	42
67.5°	7434	5700	758	110	89	76	64	48	39	35	34
70°	6792	5096	464	96	81	71	66	39	32	27	27
72.5°	5960	4414	272	82	68	57	44	33	27	21	21
75°	5108	3504	167	62	50	45	34	28	22	16	16
77.5°	3678	2587	130	40	31	32	25	22	18	13	13
80°	2257	1575	93	27	18	18	18	17	13	11	10
82.5°	1144	720	46	16	11	11	11	12	10	8	8
85°	402	202	14	8	7	7	6	6	5	4	4
87.5°	1	2	2	3	4	4	3	2	1	0	0
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)