

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: P507451

Luminaire Tested: **VERD-S-CA1-20-740-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-20-740-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 430mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3522.9 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): 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

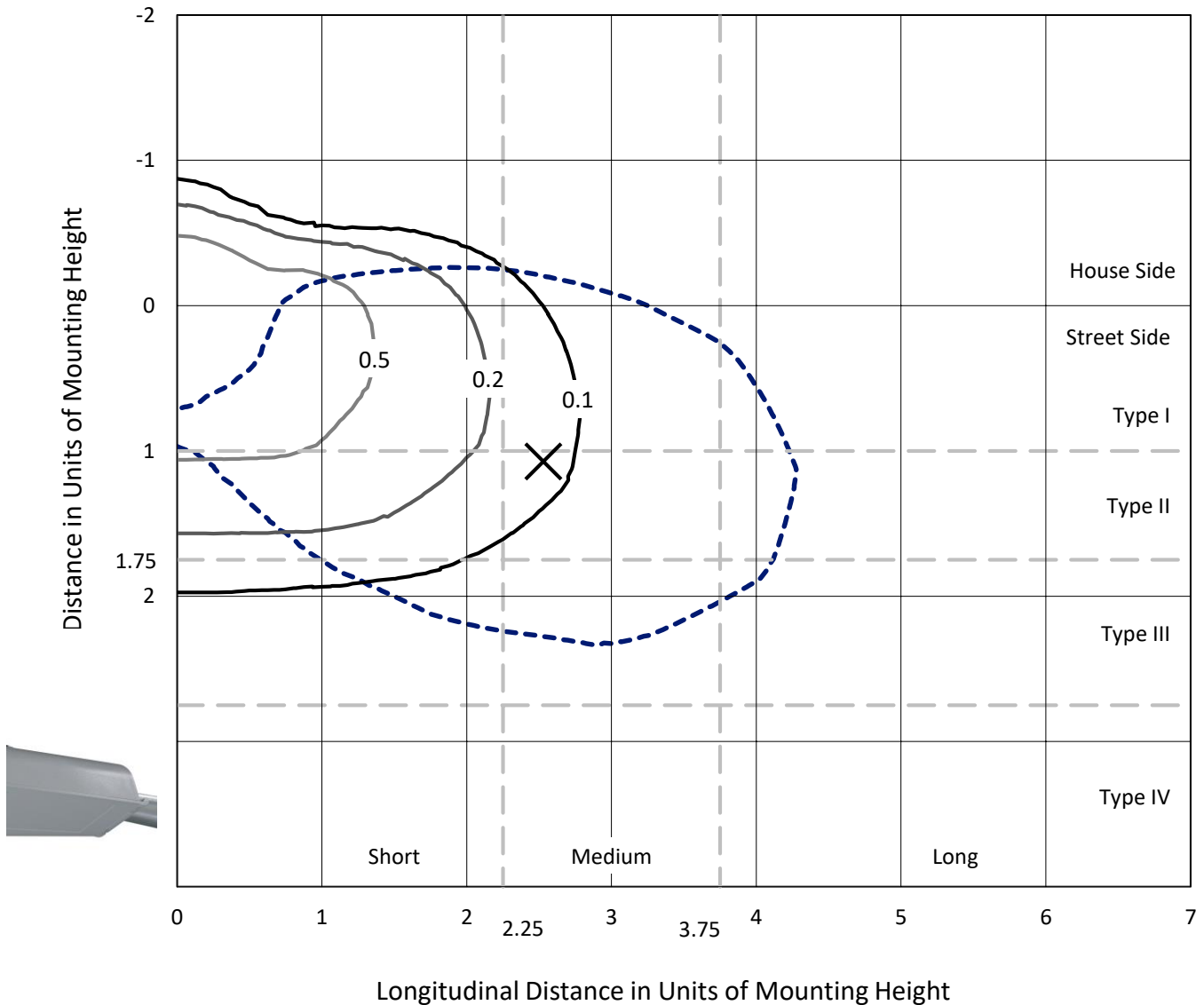


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Iso-Footcandle Lines of Horizontal Illumination

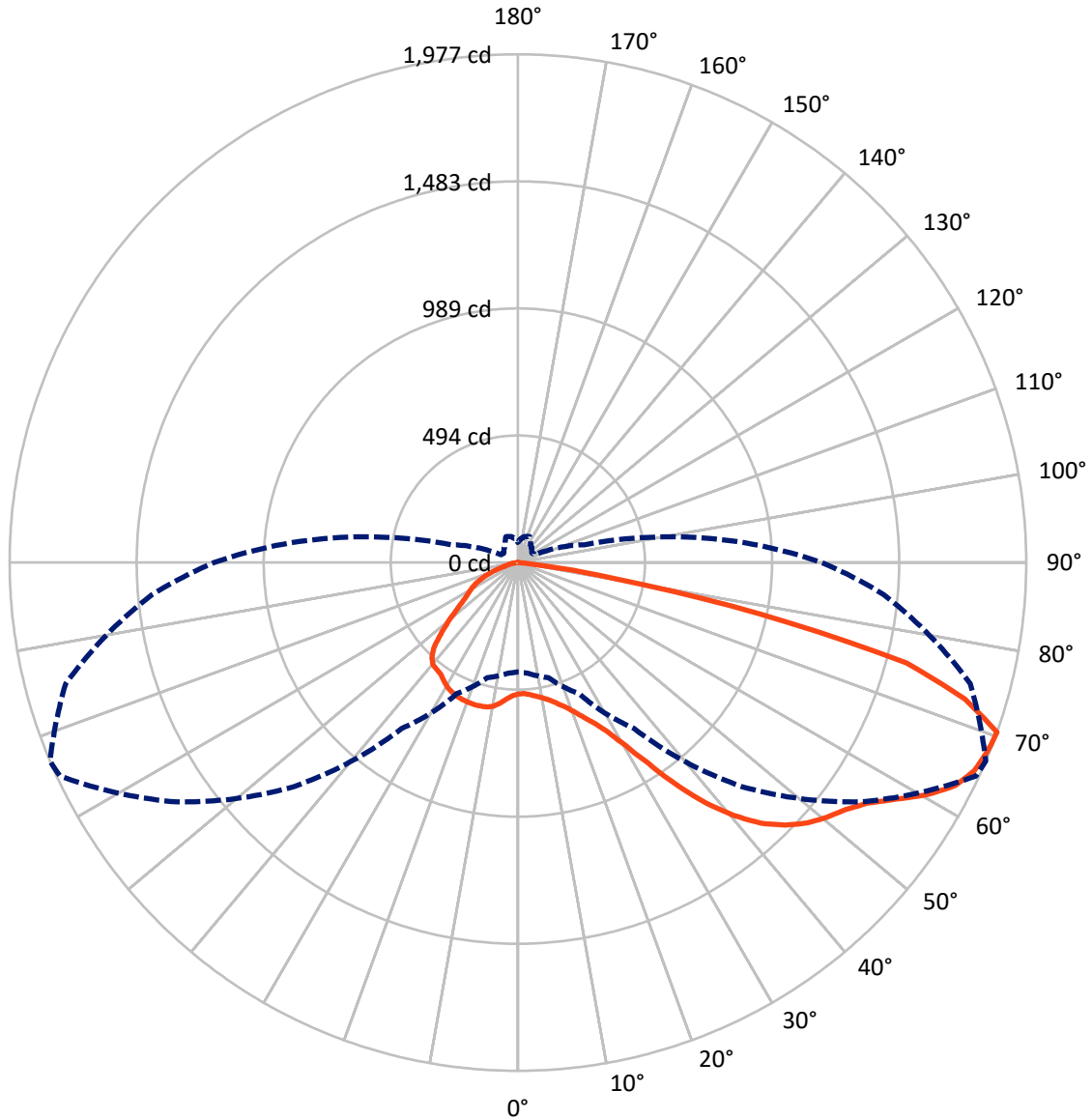
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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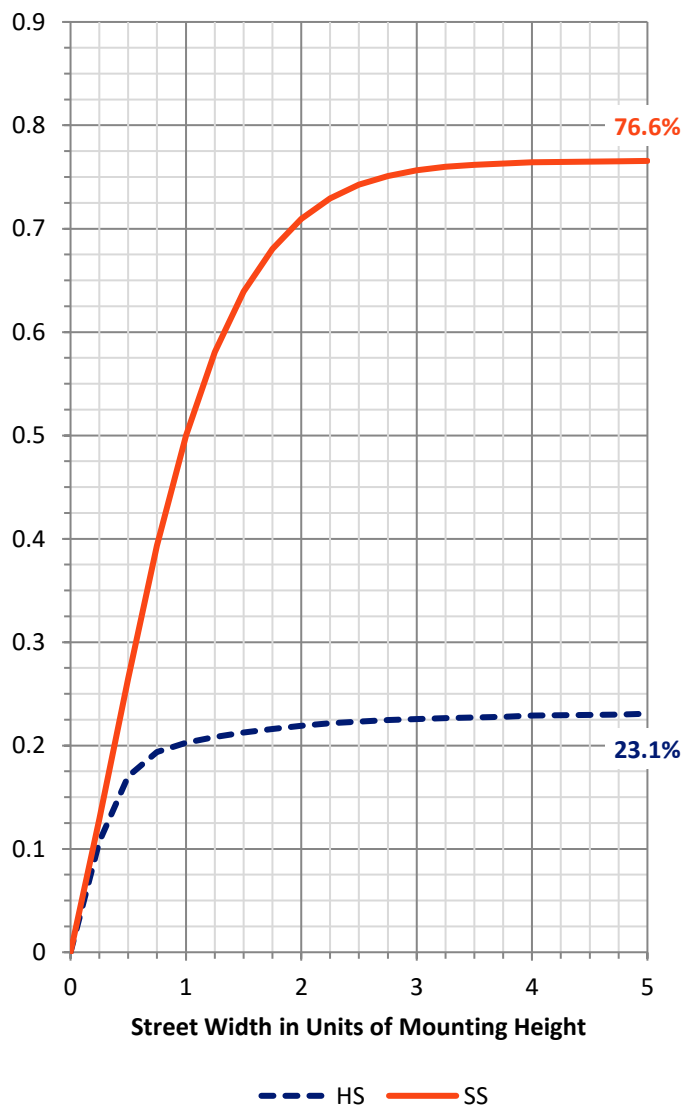
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	824.3	0.0	824.3
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	2698.7	0.0	2698.7
	% Fixture	76.6	0.0	76.6
Total	Lumens	3522.9	0.0	3522.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	1.5
10°-20°	167.0	4.7
20°-30°	294.5	8.4
30°-40°	451.4	12.8
40°-50°	615.4	17.5
50°-60°	728.2	20.7
60°-70°	759.2	21.5
70°-80°	424.7	12.1
80°-90°	30.7	0.9
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°	3522.9	100.0
0°-180°	3522.9	100.0

Coefficient of Utilization



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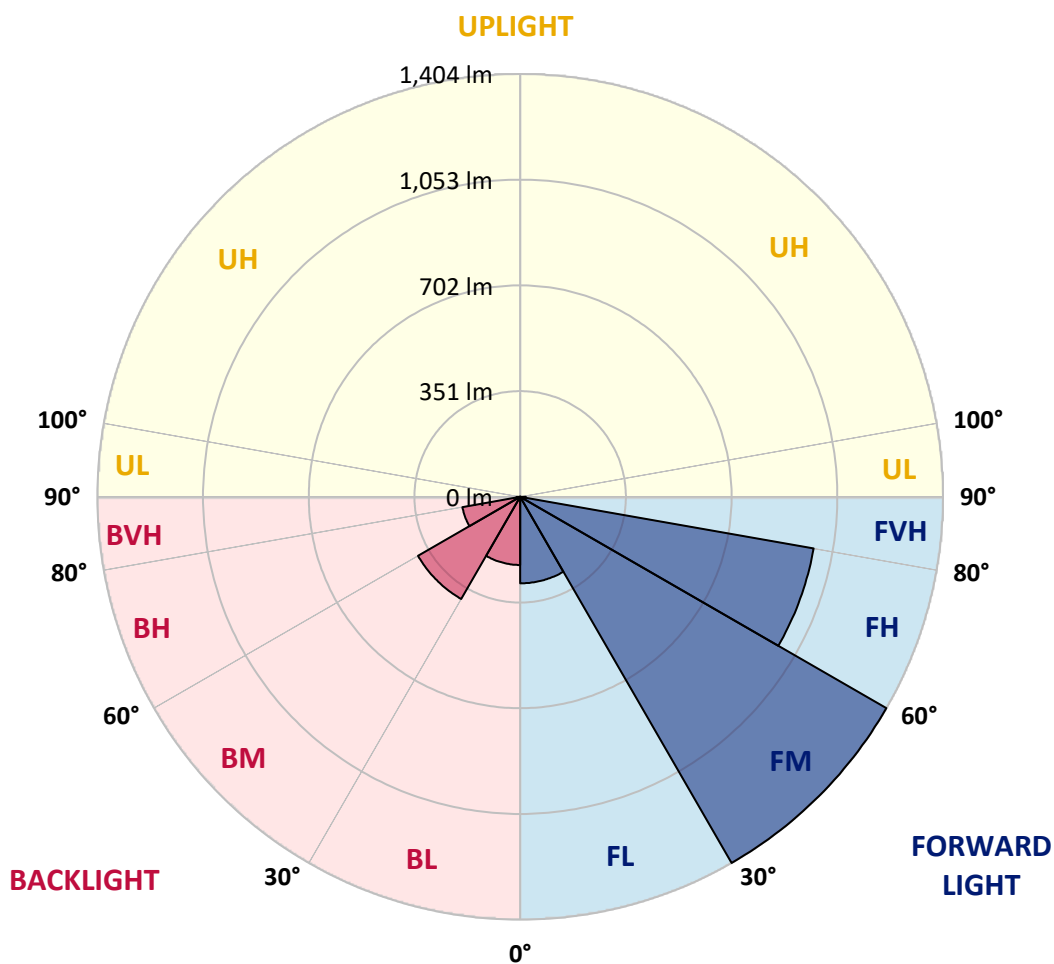
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	287.1	8.2			
FM (30°-60°)	1403.5	39.8			
FH (60°-80°)	989.2	28.1			G1/1800
FVH (80°-90°)	18.8	0.5			G1/100
BL (0°-30°)	226.3	6.4	B1/500		
BM (30°-60°)	391.5	11.1	B1/1000		
BH (60°-80°)	194.6	5.5	B1/500		G1/500
BVH (80°-90°)	11.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	511	511	511	511	511	511	511	511	511	511	511
2.5°	513	513	513	512	512	512	511	510	510	511	511
5°	526	526	525	524	522	520	518	517	517	517	518
7.5°	544	543	541	540	537	534	530	526	526	524	526
10°	566	566	563	561	557	549	543	537	536	534	537
12.5°	594	594	592	587	581	571	560	550	549	546	552
15°	628	625	624	620	609	596	581	568	568	563	570
17.5°	666	665	664	659	646	627	607	592	589	586	590
20°	712	711	710	702	687	664	640	620	618	615	612
22.5°	765	765	761	755	734	707	678	653	653	650	636
25°	816	814	812	805	788	759	725	696	692	692	668
27.5°	863	863	866	862	845	815	781	748	746	742	705
30°	912	914	915	915	907	884	847	822	826	816	760
32.5°	949	951	964	976	969	956	935	927	931	939	878
35°	984	987	1005	1030	1041	1035	1038	1052	1061	1093	1040
37.5°	1010	1013	1029	1060	1093	1110	1138	1169	1186	1227	1151
40°	1017	1022	1055	1097	1147	1198	1232	1272	1293	1312	1226
42.5°	993	998	1041	1129	1199	1277	1314	1369	1386	1375	1284
45°	978	981	1025	1126	1244	1353	1389	1447	1457	1430	1334
47.5°	957	960	1007	1121	1280	1419	1444	1501	1514	1476	1372
50°	926	930	984	1112	1304	1464	1491	1550	1557	1517	1412
52.5°	889	895	952	1093	1320	1493	1528	1589	1596	1570	1455
55°	844	850	911	1065	1315	1502	1544	1639	1651	1630	1492
57.5°	800	804	867	1024	1287	1516	1592	1720	1736	1692	1522
60°	747	756	817	968	1244	1530	1654	1817	1832	1752	1545
62.5°	692	700	754	898	1177	1517	1701	1901	1910	1800	1553
65°	628	629	679	809	1081	1464	1705	1942	1951	1830	1539
67.5°	543	543	585	696	952	1368	1669	1955	1968	1850	1505
70°	425	432	464	563	788	1232	1623	1965	1977	1821	1428
72.5°	297	295	328	388	570	983	1448	1818	1818	1673	1287
75°	91	102	117	157	260	659	1186	1541	1561	1449	1061
77.5°	30	30	35	43	56	140	593	944	960	943	657
80°	24	24	27	31	36	72	209	354	380	419	272
82.5°	17	17	18	19	18	29	55	94	96	104	88
85°	11	10	10	9	8	8	7	7	8	8	10
87.5°	2	2	2	2	2	2	2	3	3	3	3
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°	511	511	511	511	511	511	511	511	511	511	511
2.5°	512	513	516	518	520	522	523	524	524	525	525
5°	519	521	526	531	539	547	554	558	559	563	563
7.5°	528	531	543	552	564	573	581	585	589	591	591
10°	542	546	558	568	578	585	590	593	594	595	595
12.5°	556	561	568	576	582	586	589	590	590	590	590
15°	571	573	575	577	580	581	581	580	578	577	577
17.5°	586	584	581	577	573	570	566	562	559	557	558
20°	604	598	585	575	564	553	544	536	530	529	530
22.5°	625	613	592	571	552	532	513	502	496	491	491
25°	650	631	598	565	535	503	477	460	450	444	446
27.5°	679	655	604	556	510	468	434	407	396	388	389
30°	721	683	611	543	478	425	380	348	329	323	325
32.5°	815	743	619	524	442	374	314	275	255	255	254
35°	972	868	638	501	402	317	240	204	203	207	208
37.5°	1082	983	697	479	358	248	178	168	178	182	181
40°	1153	1052	765	456	296	178	141	134	144	152	158
42.5°	1211	1100	796	426	221	128	104	102	117	128	132
45°	1257	1144	800	384	150	95	85	94	112	121	122
47.5°	1294	1180	789	317	100	83	83	95	112	121	121
50°	1330	1210	761	258	90	81	84	96	111	118	118
52.5°	1360	1230	712	206	87	79	84	96	109	112	110
55°	1387	1238	668	166	84	78	86	98	108	108	104
57.5°	1402	1219	635	137	81	78	87	100	111	113	110
60°	1402	1192	599	121	79	78	87	107	132	122	121
62.5°	1383	1163	545	108	76	79	88	119	161	121	116
65°	1350	1107	474	96	73	80	87	137	192	117	103
67.5°	1288	1018	386	84	69	78	85	126	118	97	87
70°	1181	885	268	73	66	76	85	111	105	89	78
72.5°	1022	726	144	60	58	72	83	102	90	73	66
75°	785	516	88	47	48	64	77	97	86	70	61
77.5°	453	239	63	35	34	51	69	90	84	68	59
80°	166	99	43	26	23	37	54	73	80	67	60
82.5°	71	53	28	18	17	21	33	51	67	54	50
85°	10	10	10	9	10	13	14	25	37	20	20
87.5°	4	4	4	4	5	5	4	4	3	3	3
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)