



Report of Test

LLIA001821-003A

Roadway/Area Light Distribution Photometry Test Report

Catalog Number: L6-16S-5-X-2ES-2-X-XX-3-XX-X-X-X

Pole/arm mounted, gray painted cast aluminum housing and driver compartment cover, one circuit board, one clear plastic lens with optic below each LED, open bottom.

16 white LEDs.

Osram OT50W/UNV/800C/2DIMLT2/P6 LED driver set at 500mA, Littlefuse LSP10277SBX3472 suppressor.



Prepared For:

LED Roadway Lighting

84 Chain Lake Drive

Suite 403

Halifax, Nova Scotia B3S 1A2, Canada

Performance Summary

Input Voltage	120.0 Vac	Luminous Flux	4066.6 Lumens
Input Current	0.2339 A	Total Efficacy	147.5 Lm/W
Input Power	27.57 W		
Frequency	60.00 Hz	Roadway Throw	Short
Power Factor	0.982	Roadway Type	Type II
Current THD	7.6 %	IES BUG Rating	B1 - U0 - G1

This test report was issued by LightLab International Allentown, LLC without alterations or erasures.

Test date: 07/26/2022

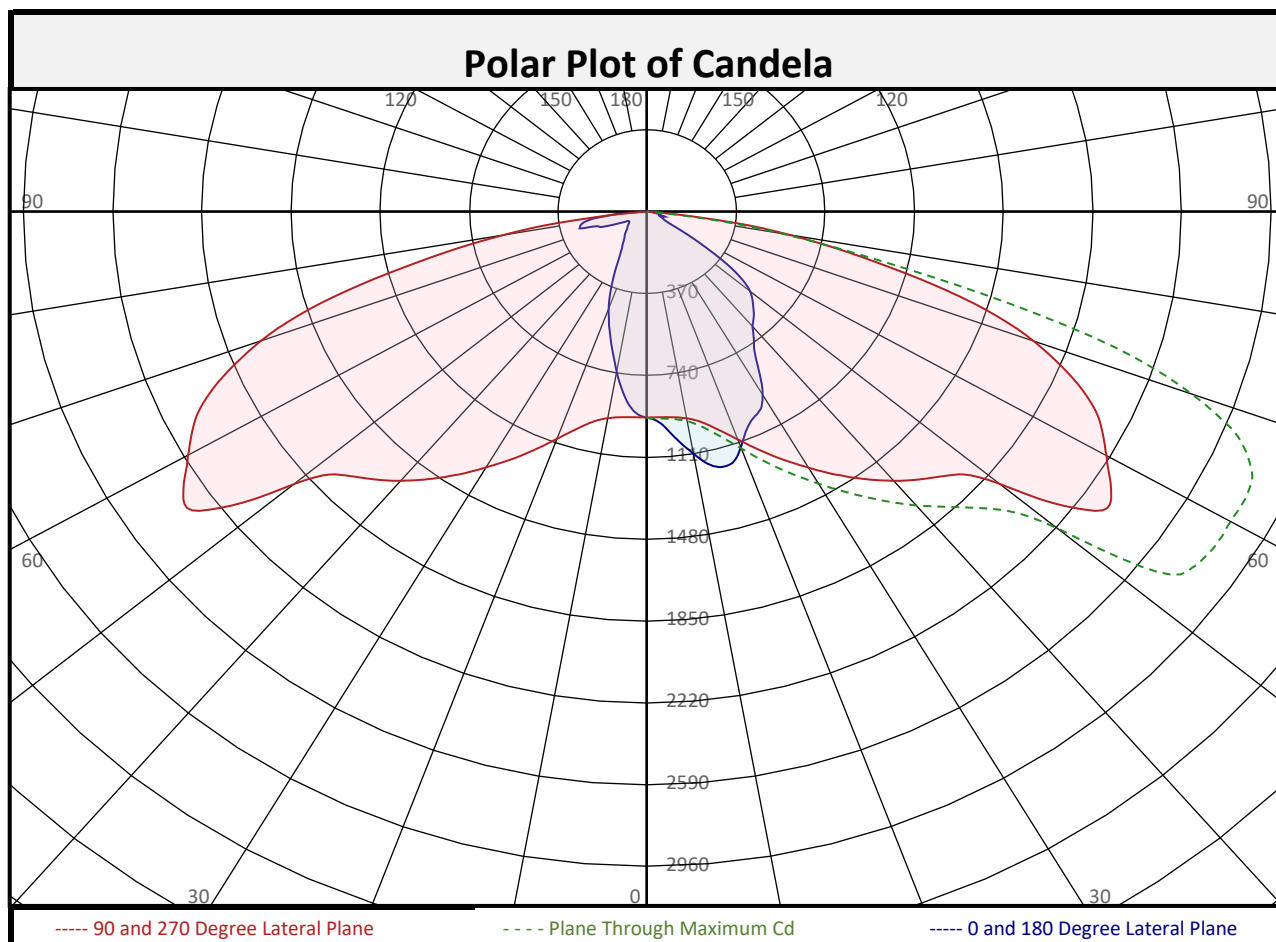
Report date: 08/01/2022

Signed: _____



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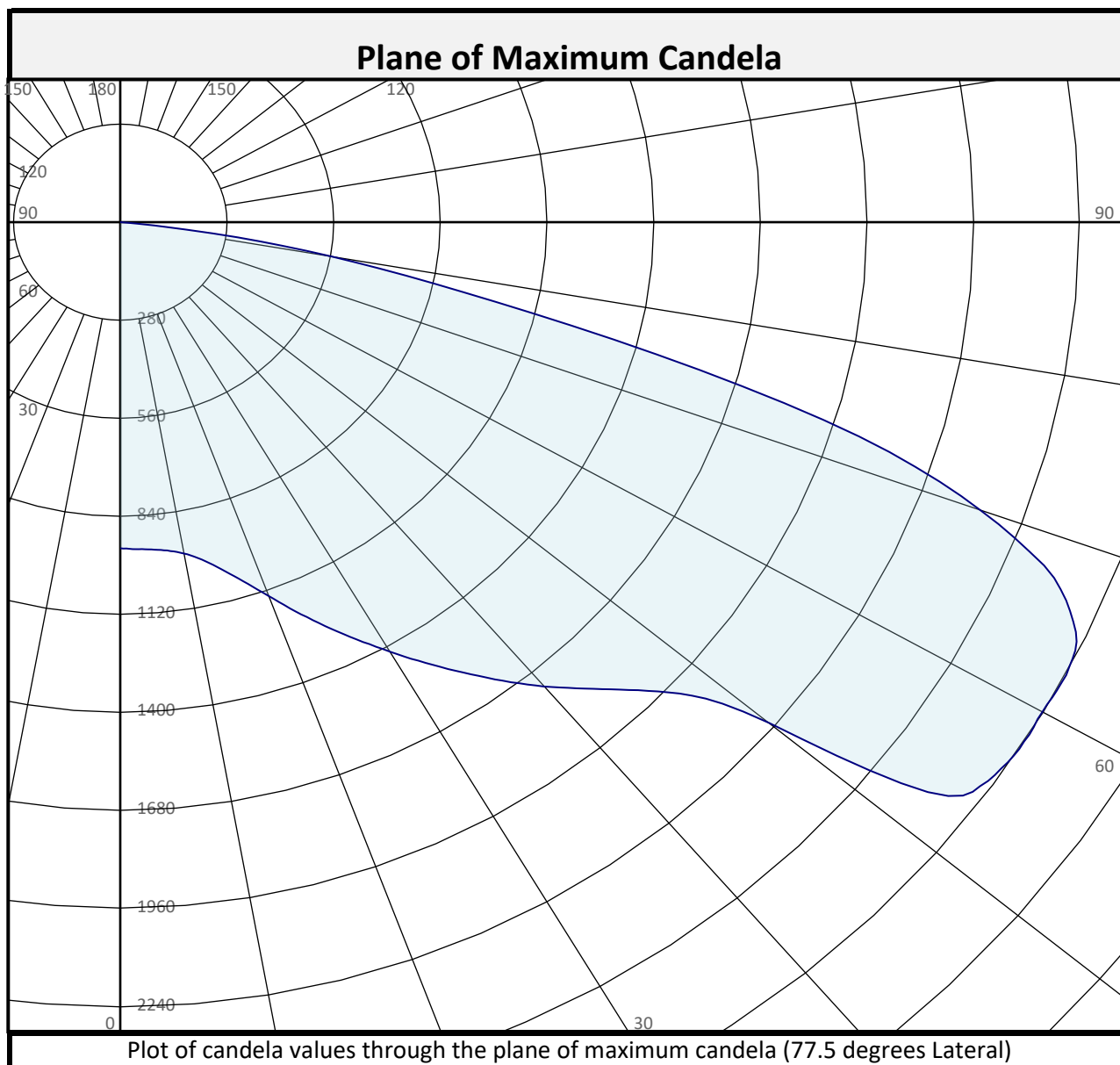


Zonal Flux Summary										
Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total
0-10	89.1	2.2%		90-100	0.0	0.0%		0-20	355.7	8.7%
10-20	266.7	6.6%		100-110	0.0	0.0%		0-30	788.9	19.4%
20-30	433.2	10.7%		110-120	0.0	0.0%		0-40	1365	33.6%
30-40	576.6	14.2%		120-130	0.0	0.0%		0-60	2980	73.3%
40-50	723.2	17.8%		130-140	0.0	0.0%		0-80	4018	98.8%
50-60	890.9	21.9%		140-150	0.0	0.0%		10-90	3978	97.8%
60-70	686.7	16.9%		150-160	0.0	0.0%		20-50	1733	42.6%
70-80	351.9	8.7%		160-170	0.0	0.0%		40-90	2701	66.4%
80-90	48.5	1.2%		170-180	0.0	0.0%		60-90	1087	26.7%
0-90	4067	100.0%		90-180	0.0	0.0%		0-180	4067	100.0%



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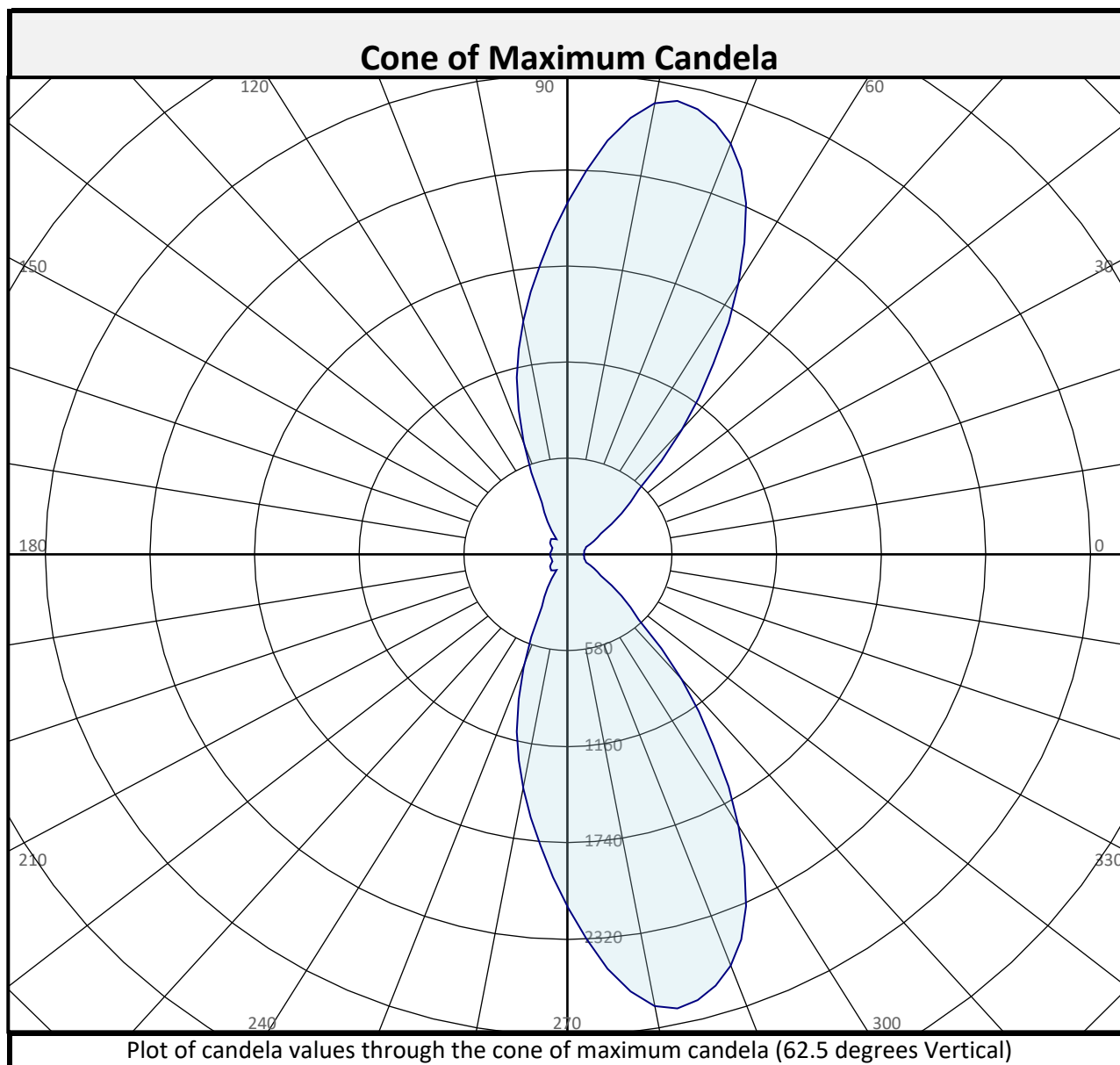


Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	2778.5	68.3%	0.0	0.0%	2778.5	68.3%
House Side	1288.1	31.7%	0.0	0.0%	1288.1	31.7%
Total	4066.6	100.0%	0.0	0.0%	4066.6	100.0%



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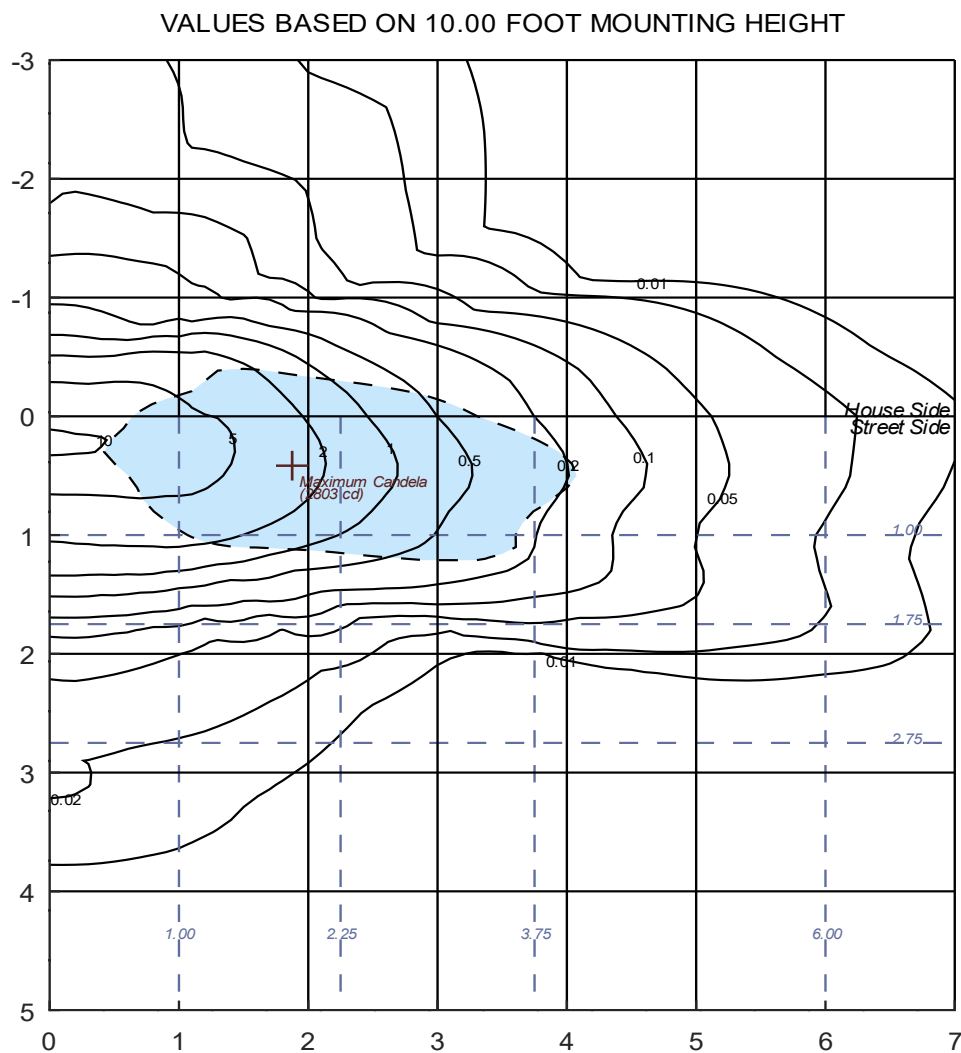


Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	2778.5	68.3%	0.0	0.0%	2778.5	68.3%
House Side	1288.1	31.7%	0.0	0.0%	1288.1	31.7%
Total	4066.6	100.0%	0.0	0.0%	4066.6	100.0%



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Iso-Illuminance Plot



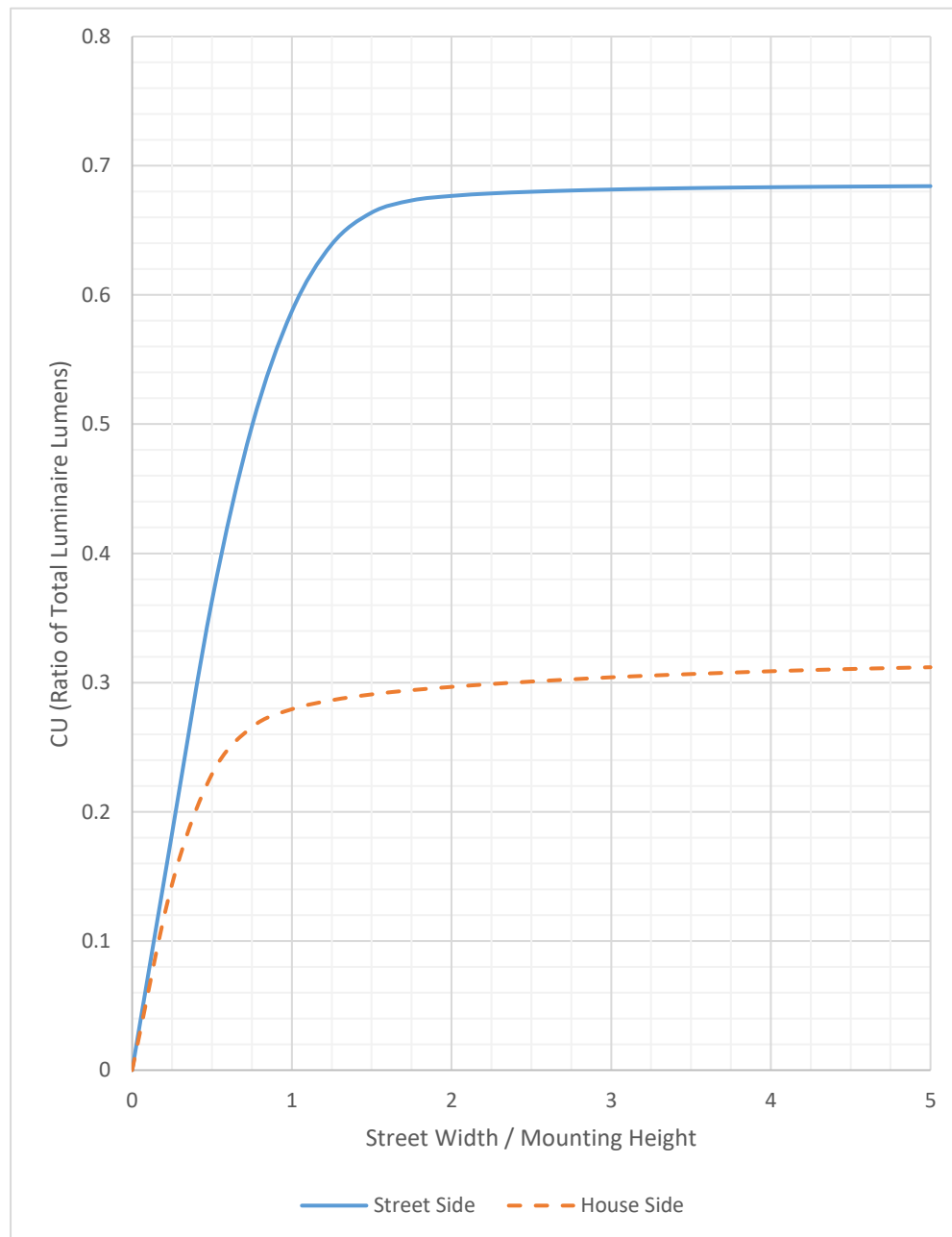
The isofootcandle values shown in the plot above are based on a mounting height of $h = 10.0$ feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the contribution of room reflections.



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Coefficients of Utilization Plot

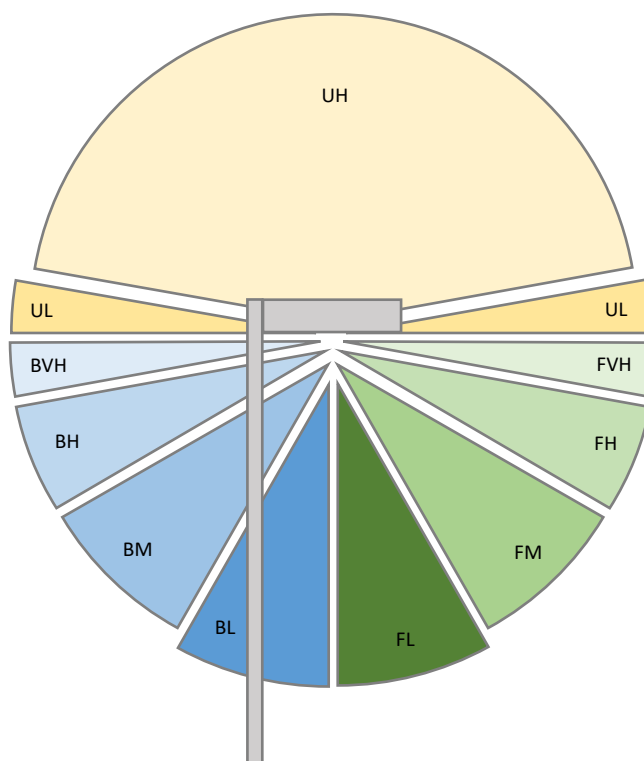




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LCS Tables and Bug Classification



Back Light

BL - Back Low (0°-30°)	299.1 Lm
BM - Back Mid (30°-60°)	641.8 Lm
BH - Back High (60°-80°)	319.7 Lm
BVH - Back Very High (80°-90°)	27.5 Lm

Uplight

UL - Upward Low (90°-100°)	0.0 Lm
UH - Upward High (100°-180°)	0.0 Lm

Forward Light


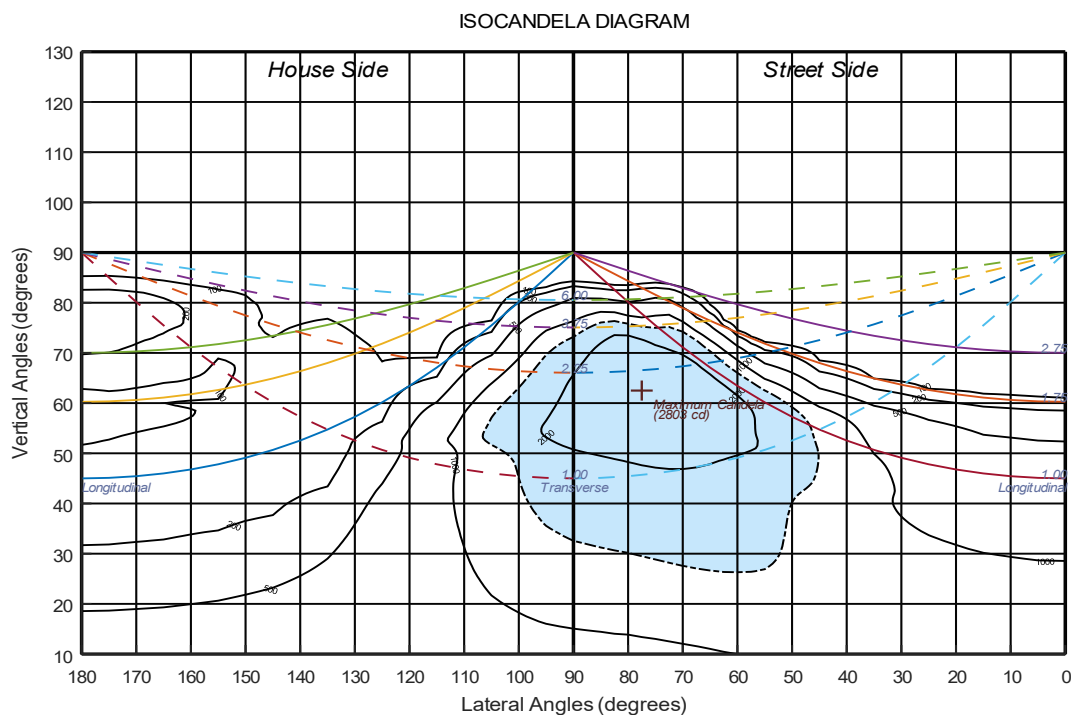
FL - Forward Low (0°-30°)	489.8 Lm
FM - Forward Mid (30°-60°)	1548.9 Lm
FH - Forward High (60°-80°)	718.8 Lm
FVH - Forward Very High (80°-90°)	21.0 Lm

BUG Ratings: B1 - U0 - G1



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Iso-Candela Plot

 Half-max Candela Contour Line



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Luminous Intensity (Candela) Table

		Lateral (C-Plane) Angles														
		0	5	15	25	35	45	55	57.5	60	62.5	65	67.5	70	72.5	75
Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	0	932	932	932	932	932	932	932	932	932	932	932	932	932	932	932
	2.5	945	946	946	943	943	941	939	937	937	937	937	937	935	936	935
	5	989	988	986	978	970	960	952	950	948	946	945	943	942	941	940
	7.5	1050	1050	1046	1033	1019	999	977	971	967	963	959	957	953	952	949
	10	1109	1109	1102	1088	1072	1046	1018	1009	1000	992	985	979	974	970	965
	12.5	1166	1165	1160	1145	1123	1096	1066	1055	1045	1035	1025	1014	1007	1000	992
	15	1195	1194	1195	1188	1177	1152	1118	1108	1099	1088	1076	1065	1054	1044	1034
	17.5	1189	1191	1199	1206	1216	1210	1179	1170	1161	1151	1138	1127	1113	1101	1087
	20	1138	1140	1164	1198	1237	1257	1248	1240	1230	1219	1207	1194	1180	1165	1150
	22.5	1076	1079	1103	1152	1231	1294	1313	1310	1303	1292	1281	1267	1253	1238	1220
	25	1037	1039	1056	1105	1199	1311	1366	1371	1370	1365	1354	1341	1325	1311	1292
	27.5	1014	1017	1034	1075	1167	1307	1410	1422	1428	1431	1424	1413	1399	1381	1363
	30	963	968	1004	1060	1145	1293	1443	1466	1482	1490	1492	1485	1473	1456	1436
	32.5	876	884	937	1026	1134	1281	1463	1501	1528	1547	1554	1555	1548	1534	1513
	35	785	794	854	968	1119	1274	1481	1529	1571	1602	1618	1624	1620	1611	1593
	37.5	732	738	793	907	1090	1273	1496	1555	1607	1650	1678	1689	1694	1688	1673
	40	685	694	757	873	1068	1284	1514	1579	1640	1693	1731	1753	1763	1762	1750
	42.5	657	666	733	872	1079	1331	1562	1623	1682	1739	1785	1817	1831	1835	1826
	45	629	638	712	854	1070	1375	1659	1719	1776	1825	1867	1896	1910	1915	1907
	47.5	597	606	676	824	1046	1391	1737	1808	1873	1932	1984	2015	2034	2033	2019
	50	561	568	622	761	997	1393	1859	1954	2039	2115	2186	2235	2268	2270	2254
	52.5	495	501	544	681	935	1355	1926	2072	2209	2341	2471	2576	2655	2701	2709
	55	386	395	447	590	859	1313	1895	2045	2193	2333	2467	2581	2678	2746	2780
	57.5	249	256	304	439	700	1188	1875	2036	2190	2334	2473	2587	2682	2751	2794
	60	127	132	162	243	444	898	1731	1927	2113	2290	2450	2577	2667	2737	2783
	62.5	84	89	92	110	221	553	1406	1659	1894	2121	2338	2512	2638	2725	2781
	65	75	78	76	76	97	297	968	1280	1558	1820	2088	2320	2503	2643	2732
	67.5	64	65	67	68	69	134	555	844	1173	1477	1785	2042	2244	2415	2560
	70	55	56	57	61	63	76	253	429	751	1101	1457	1763	1960	2080	2234
	72.5	76	74	60	55	56	56	89	144	314	657	1008	1403	1710	1804	1851
	75	60	61	60	54	47	42	53	57	81	255	560	864	1247	1432	1400
	77.5	50	51	53	54	34	35	38	41	43	64	255	441	764	1017	989
	80	30	31	37	44	23	29	24	26	27	33	87	221	375	607	655
	82.5	15	15	16	21	14	14	13	14	14	16	34	80	147	236	279
	85	8	8	8	7	7	6	5	5	5	5	7	11	17	22	24
	87.5	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



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Luminous Intensity (Candela) Table

		Lateral (C-Plane) Angles														
		77.5	80	82.5	85	90	95	105	115	125	135	145	155	165	175	180
Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	0	932	932	932	932	932	932	932	932	932	932	932	932	932	932	932
	2.5	935	935	934	933	930	930	929	927	924	921	920	919	916	914	914
	5	939	937	938	935	932	931	925	920	911	901	891	883	877	872	873
	7.5	946	945	944	941	938	934	923	910	889	868	846	828	813	806	806
	10	961	958	957	952	948	942	924	895	860	822	787	760	743	731	730
	12.5	987	981	979	974	967	957	929	881	824	772	725	689	669	657	655
	15	1027	1017	1015	1009	999	985	938	868	789	720	665	628	603	590	588
	17.5	1076	1067	1062	1054	1042	1024	958	860	755	671	611	569	543	529	527
	20	1136	1124	1117	1107	1093	1068	981	858	727	629	562	513	484	468	466
	22.5	1204	1189	1179	1168	1151	1118	1010	859	708	592	513	460	423	404	401
	25	1273	1255	1244	1232	1211	1173	1041	863	693	556	464	397	356	335	333
	27.5	1344	1326	1313	1298	1272	1227	1072	869	681	522	407	333	293	272	269
	30	1417	1396	1382	1366	1334	1279	1103	877	669	484	347	273	240	224	222
	32.5	1493	1472	1455	1437	1400	1336	1134	884	657	438	288	228	204	193	191
	35	1571	1550	1529	1508	1464	1390	1164	891	639	387	240	196	182	173	172
	37.5	1651	1628	1605	1581	1526	1442	1190	901	614	331	203	173	160	155	155
	40	1732	1707	1681	1653	1588	1490	1209	907	579	276	173	153	147	144	144
	42.5	1808	1784	1757	1725	1644	1532	1222	905	535	219	149	141	138	134	133
	45	1891	1865	1831	1792	1697	1569	1233	894	473	172	136	132	127	121	120
	47.5	1994	1959	1919	1872	1757	1607	1241	867	402	140	129	126	121	113	110
	50	2226	2181	2127	2065	1914	1724	1284	835	330	128	125	122	117	108	105
	52.5	2675	2597	2502	2398	2183	1949	1466	883	283	127	126	117	111	101	97
	55	2784	2746	2672	2572	2335	2049	1473	768	225	127	125	111	101	93	90
	57.5	2801	2763	2683	2570	2284	1962	1386	657	176	129	126	104	95	91	87
	60	2798	2763	2666	2533	2205	1864	1268	514	135	131	126	102	100	96	86
	62.5	2803	2764	2656	2507	2130	1762	1106	346	113	134	123	97	96	101	97
	65	2771	2732	2610	2444	2033	1665	911	211	106	133	117	94	106	122	122
	67.5	2656	2645	2516	2328	1887	1538	686	129	102	132	113	95	137	158	160
	70	2405	2479	2384	2181	1710	1375	462	89	96	128	107	105	172	199	204
	72.5	2035	2188	2150	1940	1479	1188	290	71	89	120	102	115	192	215	220
	75	1458	1625	1716	1592	1171	941	161	56	80	110	95	116	221	287	292
	77.5	922	984	1137	1134	867	657	68	42	71	95	89	143	236	284	285
	80	562	526	595	647	596	373	32	31	59	75	80	141	214	263	263
	82.5	244	199	199	238	304	149	17	22	37	54	68	103	168	206	203
	85	20	17	18	23	33	18	6	9	14	17	22	38	80	120	116
	87.5	1	1	2	2	2	2	2	2	3	3	3	3	3	4	4
	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

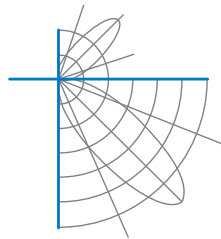


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Luminous Intensity (Candela) Table

		Lateral (C-Plane) Angles														
		0	5	15	25	35	45	55	57.5	60	62.5	65	67.5	70	72.5	75
Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	97.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	102.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	107.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	112.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	117.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	122.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	127.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	132.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	137.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	142.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	147.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	152.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	157.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	162.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	167.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	172.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	177.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



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Luminous Intensity (Candela) Table

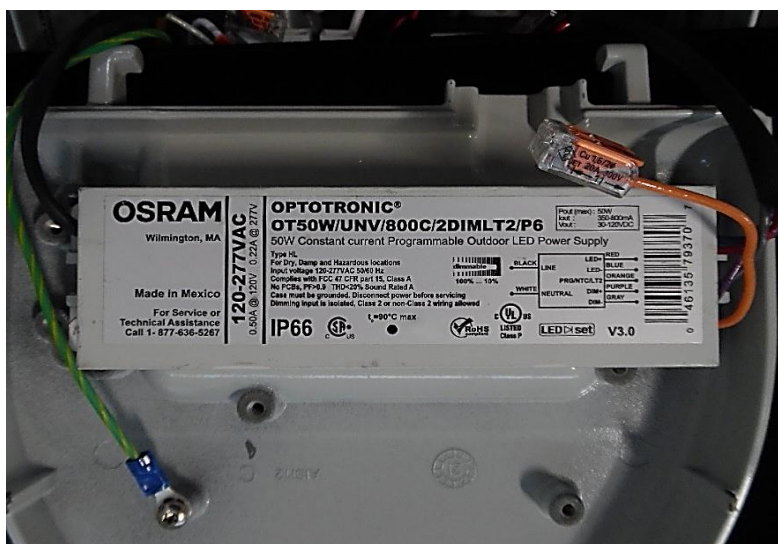
		Lateral (C-Plane) Angles														
		77.5	80	82.5	85	90	95	105	115	125	135	145	155	165	175	180
Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	97.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	102.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	107.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	112.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	117.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	122.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	127.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	132.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	137.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	142.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	147.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	152.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	157.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	162.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	167.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	172.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	177.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Report of Test

LLIA001821-003A

Additional Pictures of Test Subject



Report of Test

LLIA001821-003A

Test Distance 9.5 m
Ambient Temperature 25.2 °C

Notes

The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Tested in accordance with the applicable sections of publications: IES LM-79-19. Format of reports and angular increments based on IES LM-31-20 and LM-10-20.

The luminous intensity values, and other derived quantities, contained in this report are based on absolute data.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the IES C-Type spherical coordinate system as defined in IES LM-75-19.

This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with ‡ are not covered.

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the Federal Government.

The device under test emits no detectable uplight, as defined by ANSI/IES LM-31-20. For the purpose of this report, certain non-zero uplight readings, attributable to instrument artifacts, have been assigned a zero value.



Report of Test

LLIA001821-003B

Integrating Sphere Report

Catalog Number: L6-16S-5-X-2ES-2-X-XX-3-XX-X-X-X

Pole/arm mounted, gray painted cast aluminum housing and driver compartment cover, one circuit board, one clear plastic lens with optic below each LED, open bottom.

16 white LEDs.

Osram OT50W/UNV/800C/2DIMLT2/P6 LED driver set at 500mA, Littlefuse LSP10277SBX3472 suppressor.



Performance Summary

Voltage	120.0 Vac
Current	0.2359 A
Power	27.51 W
Frequency	59.99 Hz
Power Factor	0.971
Current THD	7.5 %
Total Luminous Flux	4067.5 lm
Efficacy	147.9 lm/W
Chromaticity (x,y)	(0.4388, 0.4102)
(u',v')	(0.2492, 0.5240)
Duv	0.0022
CCT	3018 K
CRI (Ra)	71
R9	-44
TM-30: Rf	72
TM-30: Rg	93
TM-30: Rcs,h1	-18

Prepared For:

LED Roadway Lighting

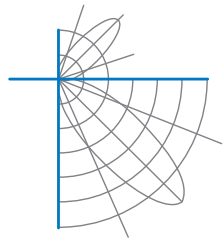
84 Chain Lake Drive

Suite 403

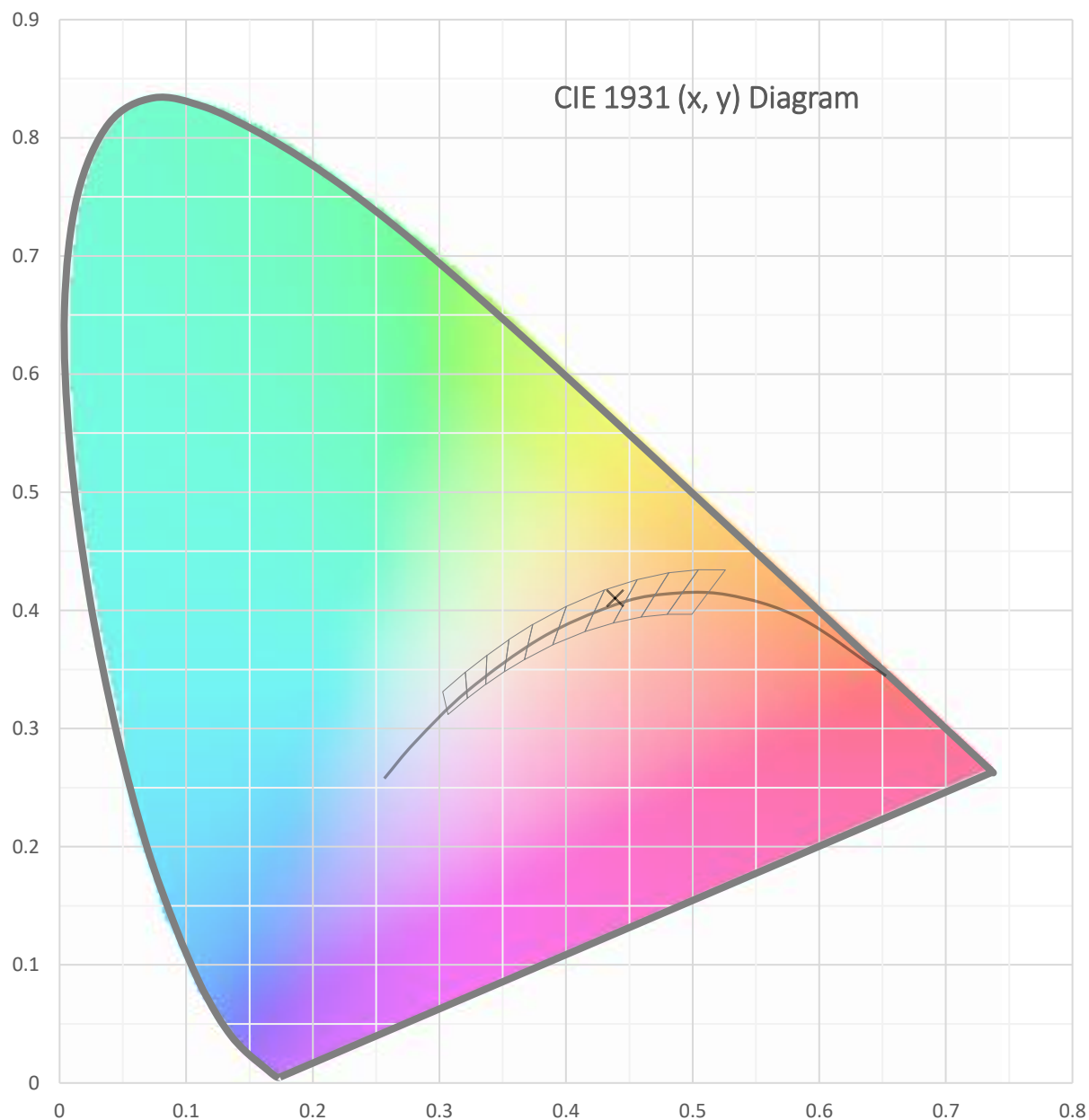
Halifax, Nova Scotia B3S 1A2, Canada

Test date: 07/29/2022

Report date: 08/01/2022

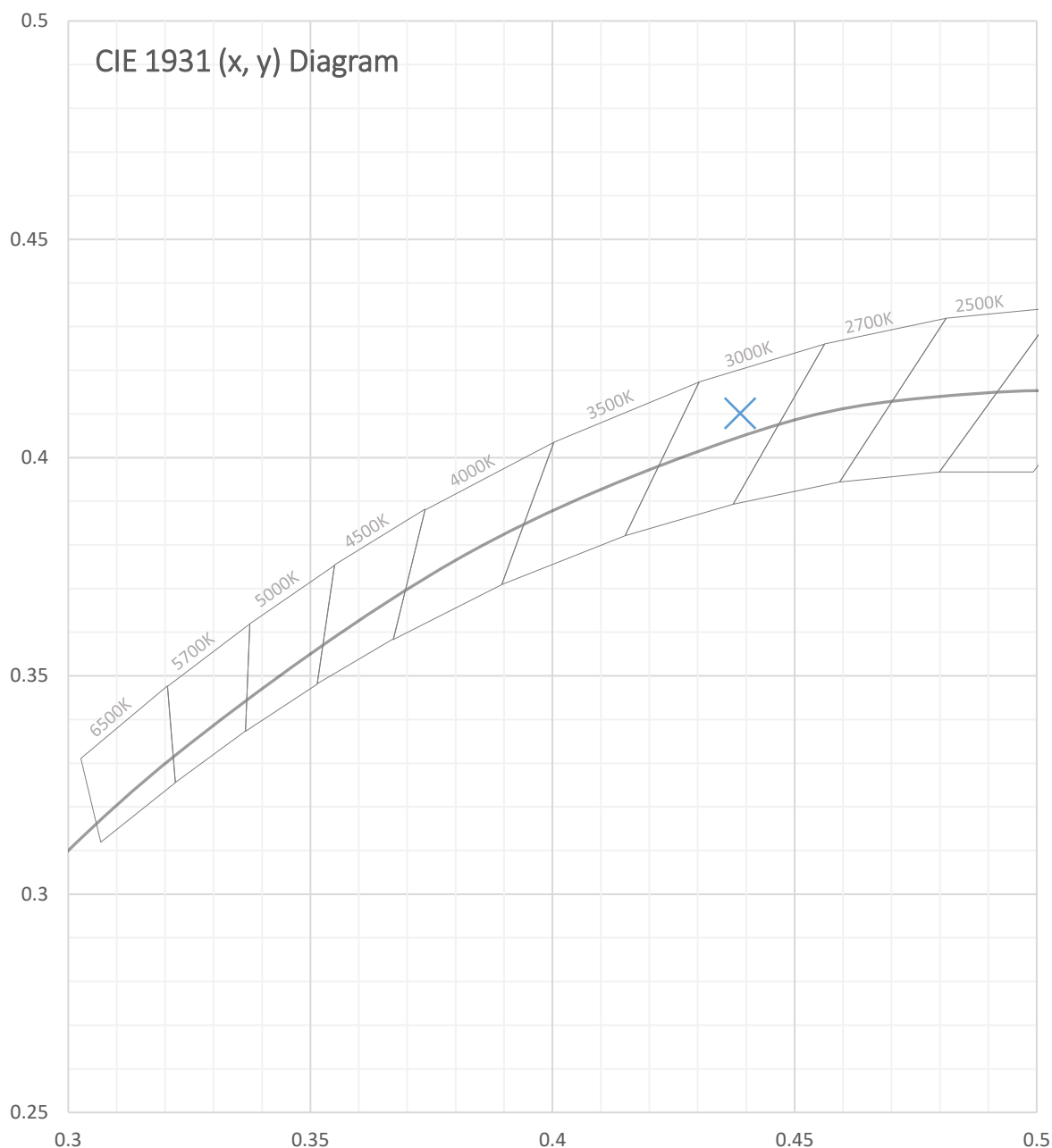


Test Report Number: LLIA001821-003B





Test Report Number: LLIA001821-003B





Test Report Number: LLIA001821-003B

Total Radiant Flux	11.36 W
Total Luminous Flux	4067.5 Lm
Chromaticity CIE 1931 (x, y)	(0.4388, 0.4102)
Chromaticity CIE 1976 (u', v')	(0.2492, 0.5240)
Correlated Color Temperature (CCT)	3018 K
Color Rendering Index (Ra)	71
R1	66
R2	81
R3	95
R4	67
R5	66
R6	75
R7	76
R8	39
R9	-44
R10	59
R11	63
R12	53
R13	69
R14	97
TM-30: Rf	72
TM-30: Rg	93
TM-30: Rcs,h1	-18
Distance from Planckian Locus (Duv)	0.0022
Scotopic/Photopic Ratio $\frac{V(\lambda)}{V_m(\lambda)}$	1.210

Electrical Data

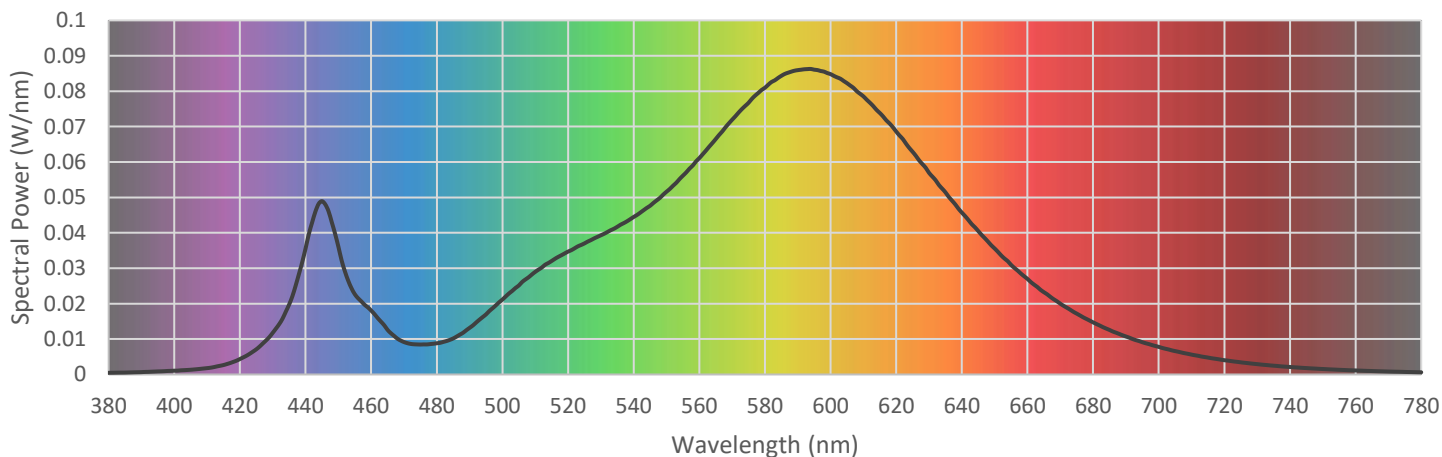
Voltage	120.0 Vac
Current	0.2359 A
Power	27.51 W
Frequency	59.99 Hz
Power Factor	0.971
Current THD	7.5 %



Test Report Number: LLIA001821-003B

Summary Spectral Power Distribution (wavelength - nm, spectral power - W/nm)

380	0.000483	480	0.008813	580	0.080970	680	0.014715
385	0.000531	485	0.010170	585	0.084333	685	0.012572
390	0.000658	490	0.013167	590	0.085943	690	0.010729
395	0.000862	495	0.016967	595	0.086072	695	0.009112
400	0.001066	500	0.021170	600	0.084819	700	0.007795
405	0.001333	505	0.025126	605	0.082271	705	0.006602
410	0.001787	510	0.028975	610	0.078541	710	0.005606
415	0.002663	515	0.032047	615	0.073845	715	0.004772
420	0.004355	520	0.034709	620	0.068600	720	0.004028
425	0.007113	525	0.037021	625	0.062886	725	0.003428
430	0.011765	530	0.039309	630	0.056944	730	0.002920
435	0.019755	535	0.041700	635	0.051443	735	0.002479
440	0.035584	540	0.044486	640	0.045714	740	0.002111
445	0.048931	545	0.047641	645	0.040506	745	0.001805
450	0.036106	550	0.051606	650	0.035577	750	0.001539
455	0.022682	555	0.056138	655	0.030948	755	0.001316
460	0.018041	560	0.061102	660	0.026986	760	0.001132
465	0.012580	565	0.066477	665	0.023236	765	0.000969
470	0.009156	570	0.071939	670	0.019995	770	0.000829
475	0.008453	575	0.076712	675	0.017188	775	0.000713
						780	0.000618





Test Report Number: LLIA001821-003B

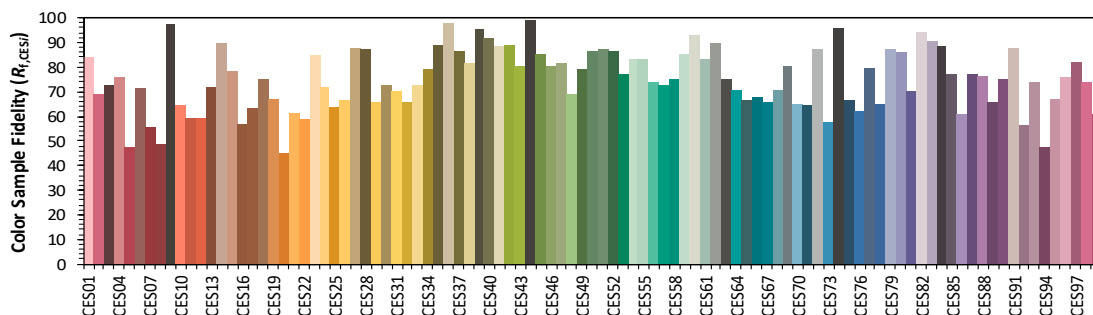
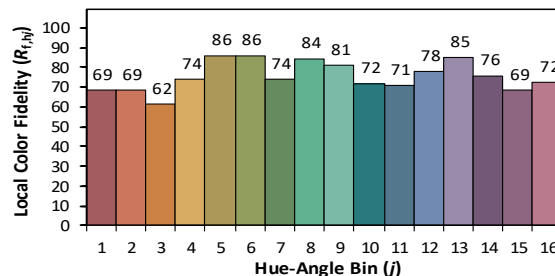
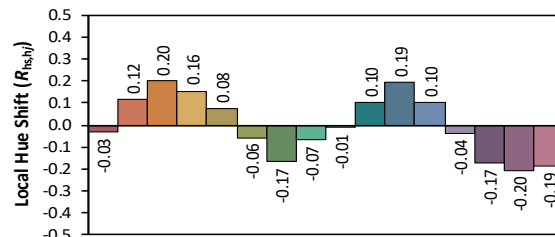
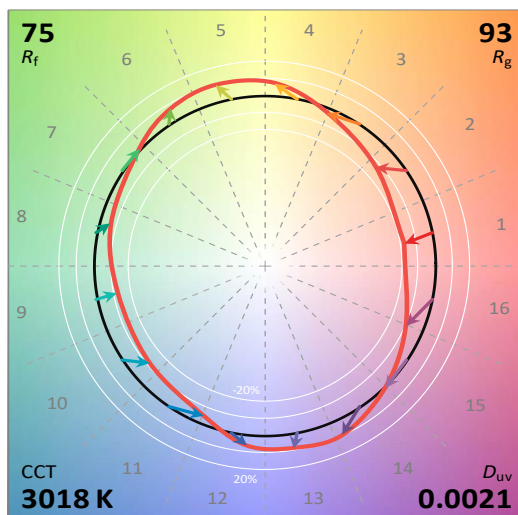
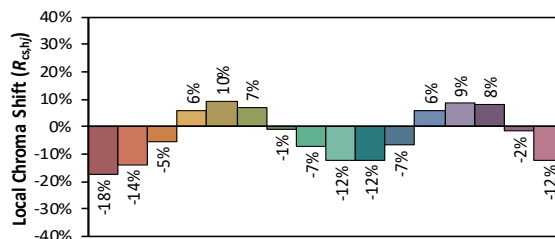
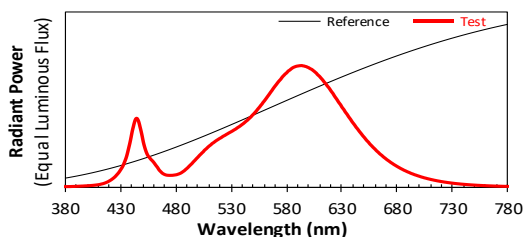
IES TM-30 Details

Source: LLIA001821-003B

Manufacturer: LED Roadway Lighting

Date: 8/1/2022

Model: L6-16S-5-X-2ES-2-X-XX-3-XX-X-X-X



Notes:

x 0.4388
y 0.4101
u' 0.2492
v' 0.5240

CIE 13.3-1995
(CRI)
R_a 71
R_g -44

Test Report Number: LLIA001821-003B

Test Equipment Configuration: LightLab International Allentown 2m Integrating Sphere
Measurements acquired using a Labsphere CDS 2600 spectroradiometer
Testing was performed using 4π geometry

Test Temperature: 25.1 °C

Test Procedure: Tested in accordance with the applicable sections of:
LM-79-19, LM-78-20, LM-58-20, ANSI/ANSI C78.377-2017, TM-30-20

Significance: The laboratory has not participated in the selection of samples to be tested.
All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Notes: The measurements and other derived quantities contained in this report are based on the absolute data as measured.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections

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Sphere Report Template V2-18



Report of Test

LLIA001821-003C

Electrical Test Report

Catalog Number: L6-16S-5-X-2ES-2-X-XX-3-XX-X-X-X

Pole/arm mounted, gray painted cast aluminum housing and driver compartment cover, one circuit board, one clear plastic lens with optic below each LED, open bottom.

16 white LEDs.

Osram OT50W/UNV/800C/2DIMLT2/P6 LED driver set at 500mA, Littlefuse LSP10277SBX3472 suppressor.



Performance Summary

Voltage	277.0 Vac
Current	0.1137 A
Power	27.63 W
Frequency	60.00 Hz
Power Factor	0.878
Current THD	16.3 %

Ambient Temperature: 25.3 °C

Prepared For:

LED Roadway Lighting

84 Chain Lake Drive

Suite 403

Halifax, Nova Scotia B3S 1A2, Canada

Tested in accordance with the applicable sections of IES LM-79-19. The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units. Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results. This report is free of erasures and corrections. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Test date: 07/26/2022

Report date: 08/01/2022

Electrical Report Template V1-4