



Report of Test

LLIA001821-006A

Roadway/Area Light Distribution Photometry Test Report

Catalog Number: L6-16S-5-X-2ES-4-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 OT100W/UNV/1250C/2DIM/P6 LED driver set at 900mA, 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	6980.3 Lumens
Input Current	0.4150 A	Total Efficacy	141.7 Lm/W
Input Power	49.27 W		
Frequency	60.00 Hz	Roadway Throw	Short
Power Factor	0.990	Roadway Type	Type II
Current THD	3.7 %	IES BUG Rating	B2 - U0 - G2

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

Test date: 07/27/2022

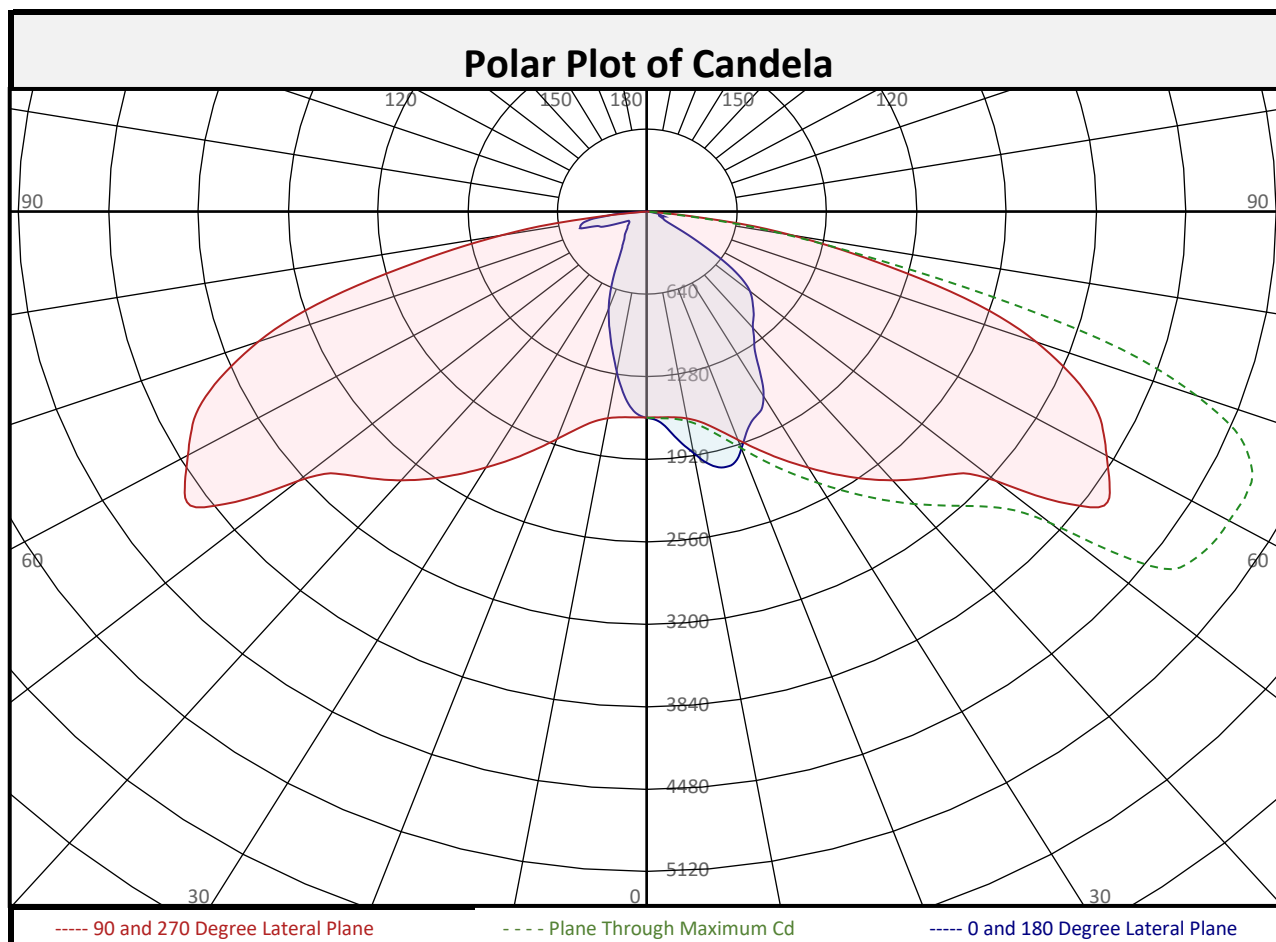
Report date: 07/29/2022

Signed: _____



Report of Test

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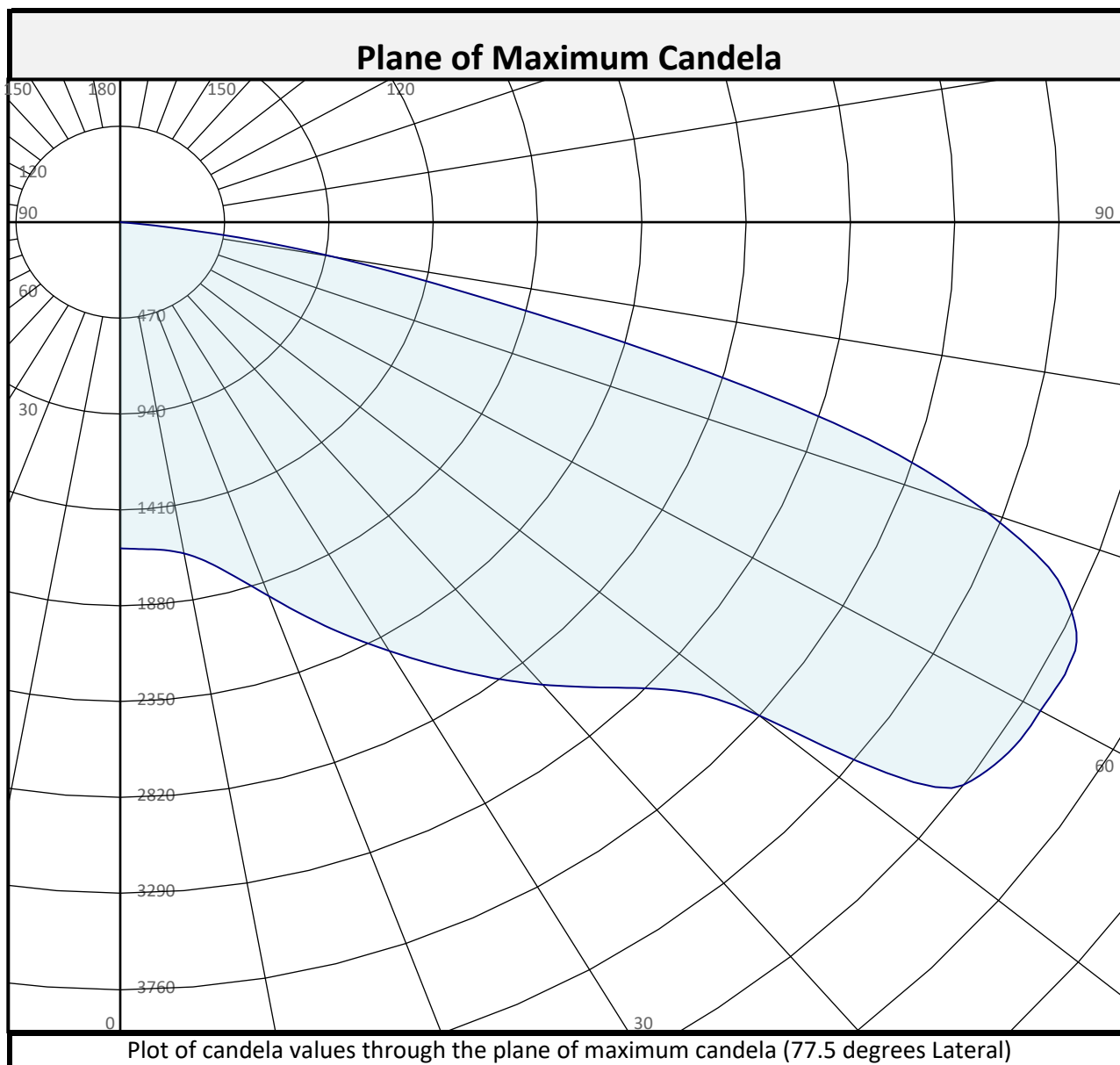


Zonal Flux Summary										
Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total
0-10	152.6	2.2%		90-100	0.0	0.0%		0-20	610.2	8.7%
10-20	457.6	6.6%		100-110	0.0	0.0%		0-30	1355	19.4%
20-30	744.9	10.7%		110-120	0.0	0.0%		0-40	2346	33.6%
30-40	990.5	14.2%		120-130	0.0	0.0%		0-60	5103	73.1%
40-50	1237	17.7%		130-140	0.0	0.0%		0-80	6896	98.8%
50-60	1521	21.8%		140-150	0.0	0.0%		10-90	6828	97.8%
60-70	1185	17.0%		150-160	0.0	0.0%		20-50	2972	42.6%
70-80	608.7	8.7%		160-170	0.0	0.0%		40-90	4635	66.4%
80-90	83.9	1.2%		170-180	0.0	0.0%		60-90	1877	26.9%
0-90	6980	100.0%		90-180	0.0	0.0%		0-180	6980	100.0%



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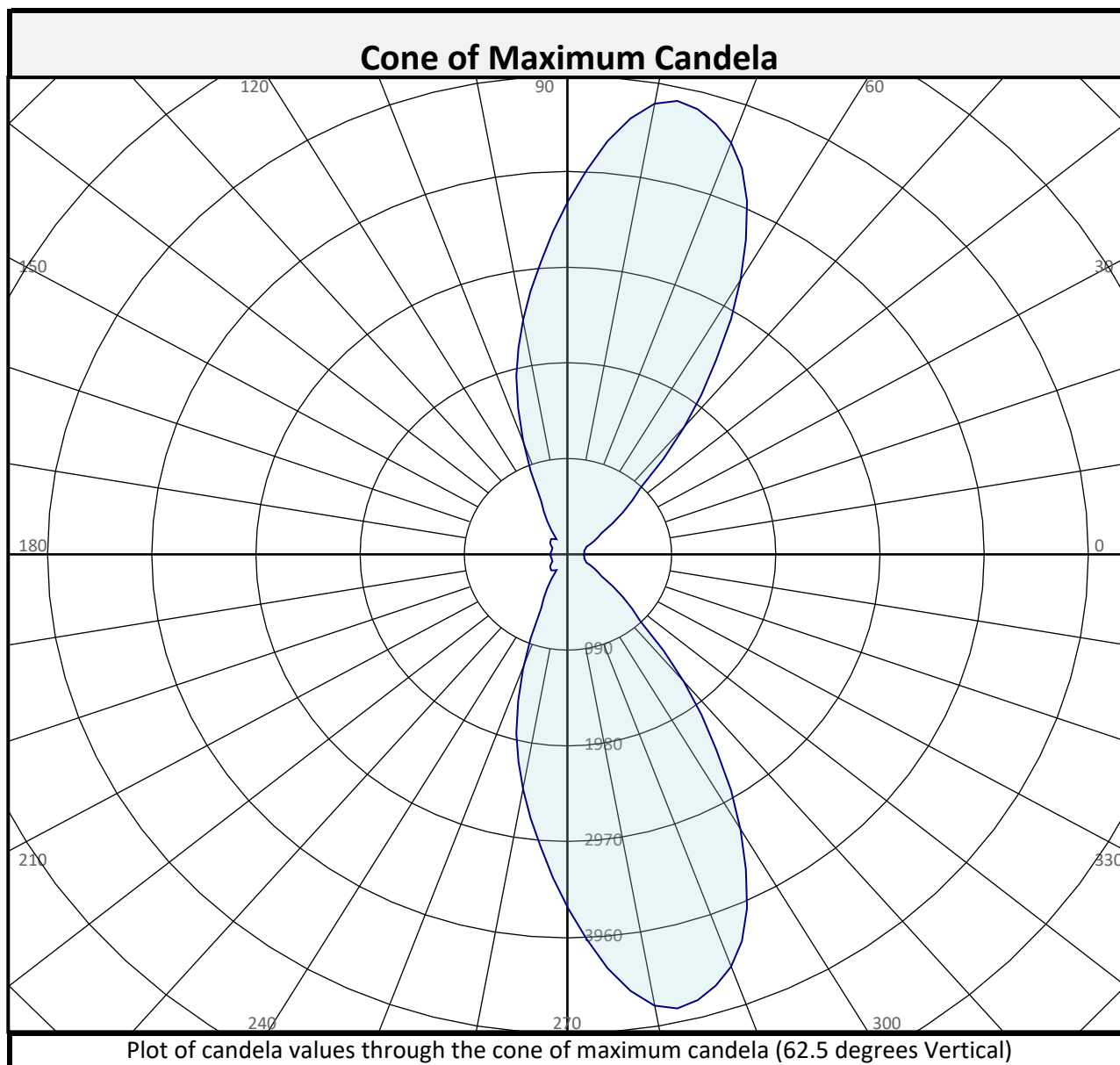


Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	4768.5	68.3%	0.0	0.0%	4768.5	68.3%
House Side	2211.8	31.7%	0.0	0.0%	2211.8	31.7%
Total	6980.3	100.0%	0.0	0.0%	6980.3	100.0%



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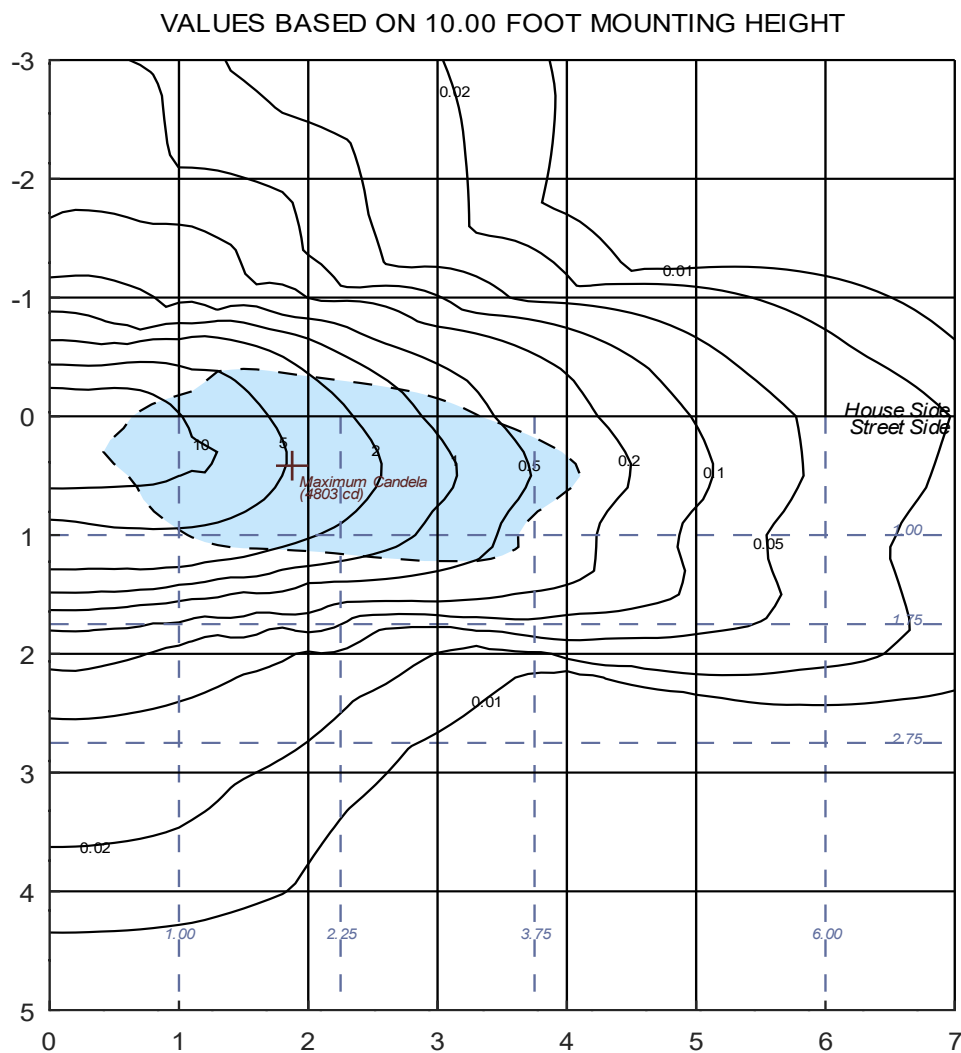


Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	4768.5	68.3%	0.0	0.0%	4768.5	68.3%
House Side	2211.8	31.7%	0.0	0.0%	2211.8	31.7%
Total	6980.3	100.0%	0.0	0.0%	6980.3	100.0%



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Iso-Illuminance Plot



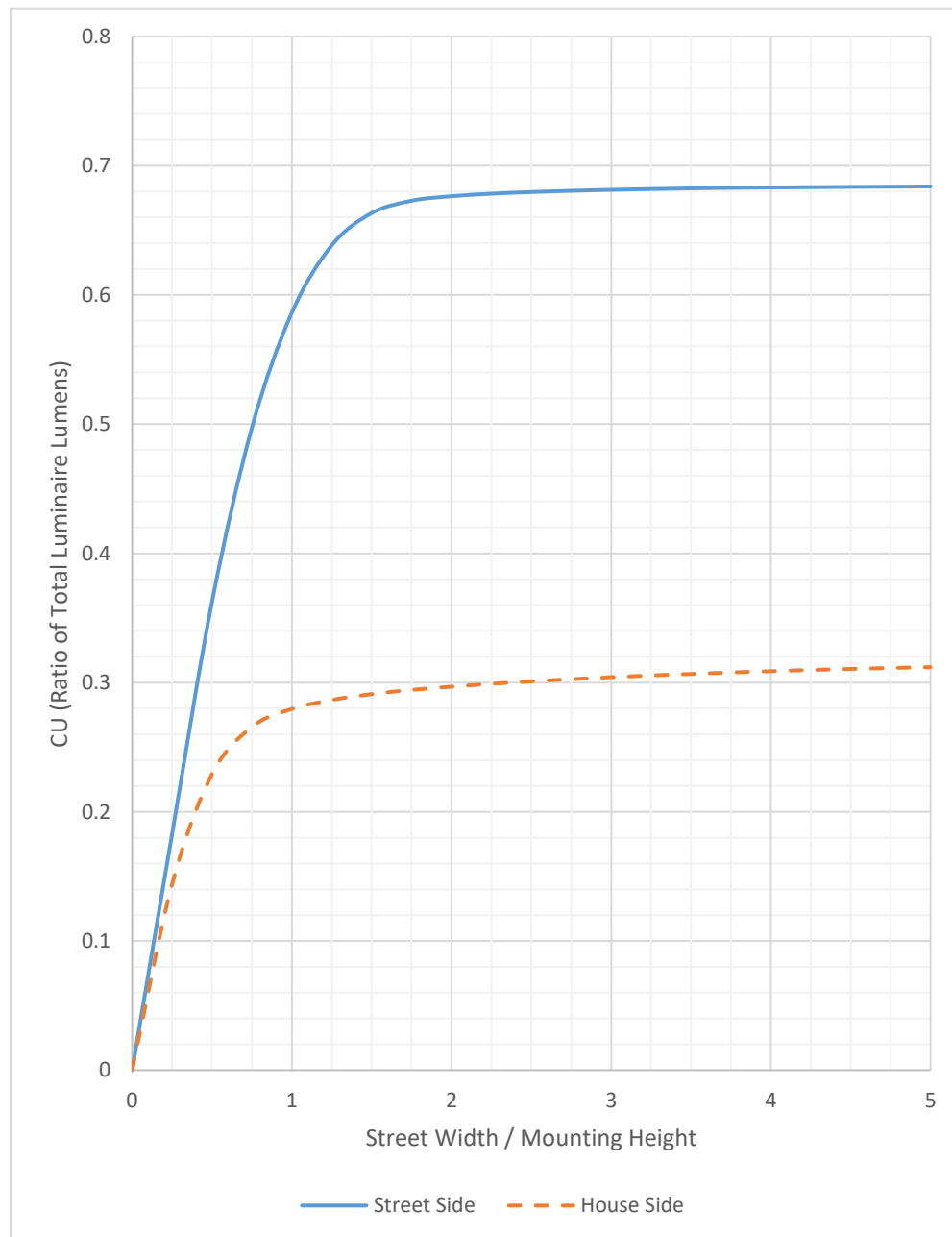
The isofootcandle values shown in the plot above are based on a mounting height of $h = 10.0$ feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the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



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Coefficients of Utilization Plot

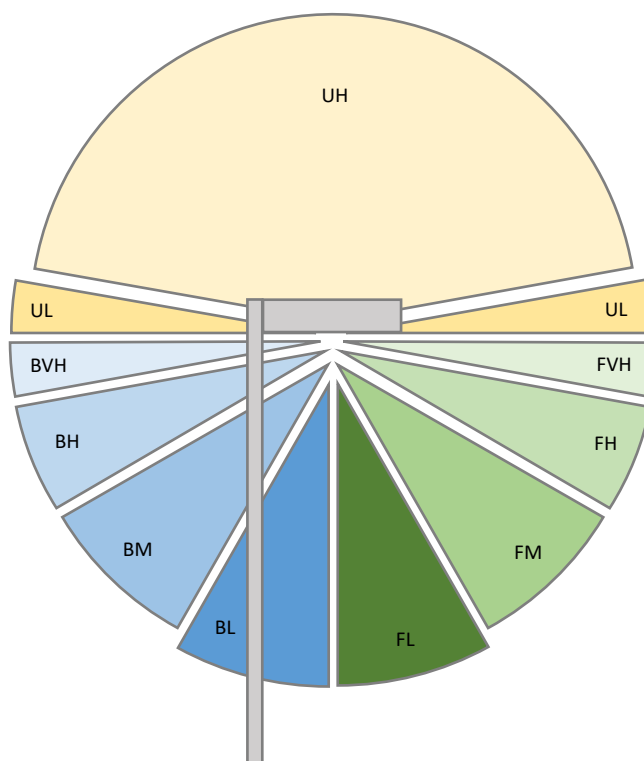




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LCS Tables and Bug Classification



Back Light

BL - Back Low (0°-30°)	514.1 Lm
BM - Back Mid (30°-60°)	1099.6 Lm
BH - Back High (60°-80°)	550.8 Lm
BVH - Back Very High (80°-90°)	47.4 Lm

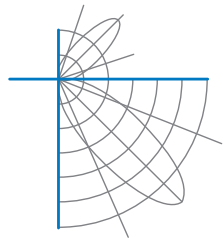
Uplight

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

Forward Light

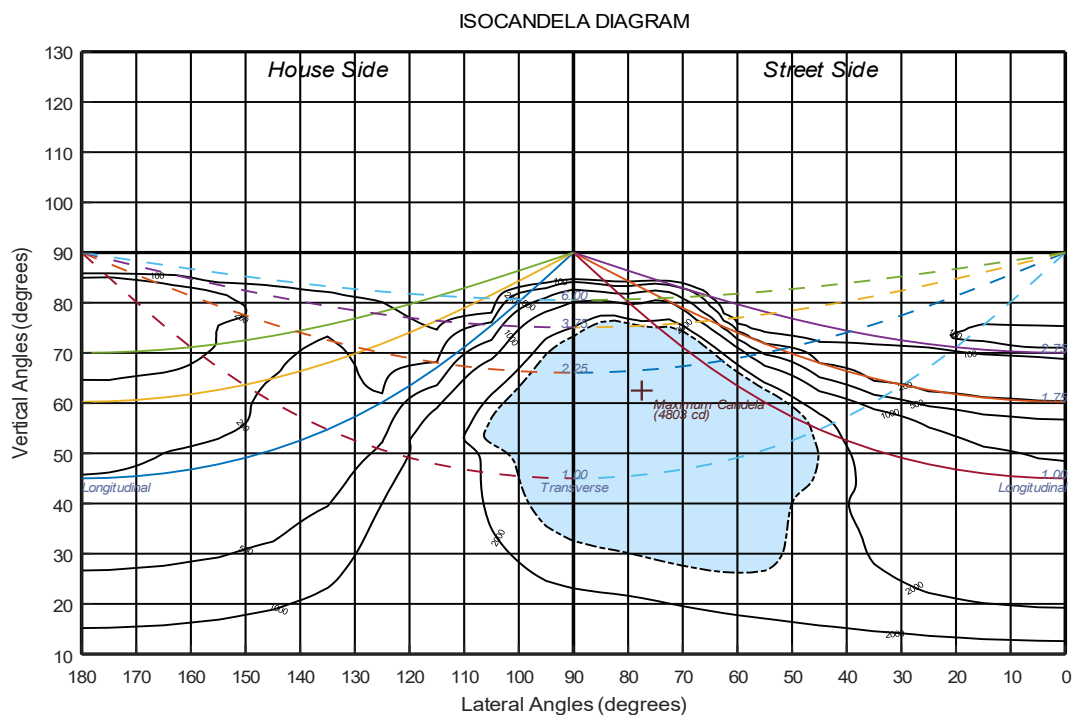
FL - Forward Low (0°-30°)	841.0 Lm
FM - Forward Mid (30°-60°)	2648.5 Lm
FH - Forward High (60°-80°)	1242.5 Lm
FVH - Forward Very High (80°-90°)	36.6 Lm


BUG Ratings: B2 - U0 - G2



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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	1599	1599	1599	1599	1599	1599	1599	1599	1599	1599	1599	1599	1599	1599	1599
	2.5	1619	1618	1619	1617	1614	1613	1609	1608	1607	1606	1607	1605	1605	1605	1604
	5	1687	1686	1681	1670	1656	1643	1630	1626	1623	1620	1619	1616	1614	1614	1612
	7.5	1795	1794	1785	1767	1740	1706	1671	1662	1654	1647	1642	1637	1633	1630	1627
	10	1896	1894	1884	1861	1830	1789	1739	1723	1709	1696	1684	1675	1667	1661	1654
	12.5	1998	1995	1985	1958	1920	1877	1822	1805	1788	1771	1752	1735	1723	1712	1703
	15	2054	2050	2049	2038	2017	1971	1914	1898	1880	1863	1841	1822	1803	1787	1773
	17.5	2051	2051	2063	2077	2087	2075	2020	2004	1989	1970	1950	1928	1906	1885	1864
	20	1964	1969	2007	2066	2127	2161	2139	2124	2106	2088	2068	2046	2023	1997	1970
	22.5	1855	1859	1900	1988	2124	2227	2253	2246	2232	2214	2194	2172	2147	2119	2090
	25	1784	1785	1815	1904	2069	2260	2350	2355	2350	2338	2321	2297	2272	2244	2215
	27.5	1748	1749	1777	1849	2009	2254	2428	2445	2453	2453	2442	2421	2396	2367	2337
	30	1663	1671	1729	1823	1969	2228	2484	2520	2545	2558	2558	2546	2522	2493	2461
	32.5	1514	1527	1616	1769	1949	2206	2521	2583	2625	2654	2667	2665	2651	2624	2592
	35	1352	1368	1473	1668	1922	2190	2550	2631	2698	2748	2773	2782	2777	2756	2726
	37.5	1257	1269	1364	1560	1873	2187	2571	2672	2761	2830	2874	2895	2900	2888	2862
	40	1176	1190	1300	1495	1830	2200	2602	2712	2814	2902	2965	3003	3017	3013	2993
	42.5	1125	1140	1254	1489	1842	2273	2672	2778	2881	2979	3056	3108	3133	3136	3122
	45	1075	1092	1217	1460	1827	2349	2829	2934	3027	3114	3184	3237	3264	3269	3259
	47.5	1021	1036	1156	1409	1790	2378	2961	3080	3186	3292	3375	3437	3464	3459	3440
	50	959	972	1064	1304	1710	2386	3166	3324	3460	3591	3703	3786	3832	3829	3810
	52.5	850	861	935	1168	1600	2321	3287	3529	3755	3977	4188	4364	4491	4561	4575
	55	667	682	771	1013	1473	2246	3237	3492	3742	3980	4202	4401	4562	4668	4728
	57.5	430	441	524	762	1215	2049	3212	3484	3744	3992	4226	4425	4584	4697	4773
	60	221	229	283	423	779	1568	2993	3322	3638	3935	4205	4414	4570	4685	4768
	62.5	144	153	159	190	386	971	2457	2887	3284	3665	4030	4324	4533	4671	4766
	65	129	134	130	131	167	522	1708	2241	2716	3166	3615	4012	4320	4549	4692
	67.5	109	112	114	117	119	233	982	1489	2054	2575	3098	3537	3880	4172	4418
	70	94	96	98	105	109	131	449	762	1328	1926	2535	3058	3389	3603	3870
	72.5	127	124	102	94	95	96	154	254	560	1153	1759	2442	2958	3114	3204
	75	103	104	103	93	80	72	90	99	142	465	979	1513	2174	2479	2421
	77.5	85	86	91	92	59	60	66	70	74	113	455	772	1342	1768	1706
	80	52	53	63	76	40	49	42	44	46	57	155	388	660	1068	1138
	82.5	26	26	27	35	24	25	23	24	24	27	59	139	256	411	484
	85	13	14	14	13	12	11	9	9	9	9	13	20	29	38	40
	87.5	0	0	0	0	0	1	1	1	1	1	2	2	2	2	2
	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	1599	1599	1599	1599	1599	1599	1599	1599	1599	1599	1599	1599	1599	1599	1599
	2.5	1603	1602	1602	1600	1597	1596	1595	1593	1588	1583	1581	1577	1572	1570	1569
	5	1610	1609	1607	1606	1600	1597	1590	1581	1565	1548	1532	1517	1503	1496	1497
	7.5	1623	1621	1619	1616	1609	1603	1587	1563	1526	1489	1452	1419	1395	1383	1381
	10	1649	1645	1641	1636	1628	1617	1587	1537	1475	1411	1352	1305	1273	1253	1251
	12.5	1693	1685	1680	1674	1661	1644	1596	1513	1414	1325	1245	1183	1145	1126	1124
	15	1760	1748	1741	1734	1716	1693	1614	1491	1355	1234	1142	1077	1033	1011	1008
	17.5	1846	1833	1822	1814	1790	1760	1646	1478	1295	1153	1048	975	931	907	903
	20	1948	1930	1916	1905	1878	1838	1687	1476	1250	1079	963	882	830	804	801
	22.5	2063	2040	2022	2009	1977	1925	1736	1478	1218	1016	882	790	727	694	690
	25	2183	2154	2133	2118	2079	2015	1790	1484	1191	956	799	684	613	578	573
	27.5	2304	2272	2248	2230	2185	2108	1846	1498	1172	900	702	574	504	468	463
	30	2427	2395	2367	2346	2290	2199	1898	1510	1152	834	599	470	411	385	382
	32.5	2557	2521	2490	2464	2400	2292	1951	1522	1133	757	496	392	349	331	328
	35	2690	2652	2615	2585	2509	2384	2001	1534	1103	670	415	336	312	296	294
	37.5	2826	2786	2743	2708	2616	2471	2043	1549	1060	574	349	295	274	265	264
	40	2960	2918	2873	2828	2719	2552	2075	1559	1000	478	297	262	252	247	246
	42.5	3091	3049	2999	2947	2814	2622	2098	1555	924	379	256	241	236	229	228
	45	3229	3184	3127	3063	2905	2685	2113	1537	820	298	234	226	218	208	206
	47.5	3399	3342	3273	3193	3006	2750	2125	1490	696	241	221	216	207	193	188
	50	3764	3688	3596	3496	3251	2931	2188	1431	572	219	214	209	200	184	180
	52.5	4511	4376	4216	4046	3697	3295	2476	1503	488	217	216	201	191	172	166
	55	4731	4664	4534	4366	3972	3488	2512	1317	387	217	215	191	174	159	154
	57.5	4782	4715	4573	4384	3903	3357	2375	1133	304	221	216	178	162	155	147
	60	4791	4722	4558	4331	3778	3196	2182	896	233	225	217	174	170	163	147
	62.5	4803	4732	4547	4289	3657	3027	1911	609	194	229	211	166	163	170	163
	65	4758	4687	4478	4192	3499	2860	1582	372	182	228	201	161	179	206	207
	67.5	4575	4543	4321	4000	3249	2648	1199	225	174	227	193	160	232	268	271
	70	4161	4266	4092	3746	2945	2370	809	154	164	220	184	177	291	338	346
	72.5	3538	3786	3706	3339	2554	2053	508	122	152	205	174	195	326	365	373
	75	2539	2828	2977	2752	2025	1631	283	96	136	188	163	198	379	491	499
	77.5	1597	1712	1983	1978	1499	1145	120	72	121	163	152	244	404	486	487
	80	974	913	1046	1142	1035	655	56	53	101	128	137	242	367	450	450
	82.5	422	342	347	420	528	262	28	37	64	92	117	176	286	352	347
	85	35	29	31	41	56	31	11	16	23	30	38	65	138	207	197
	87.5	2	3	3	3	3	4	4	4	5	5	5	5	6	6	6
	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

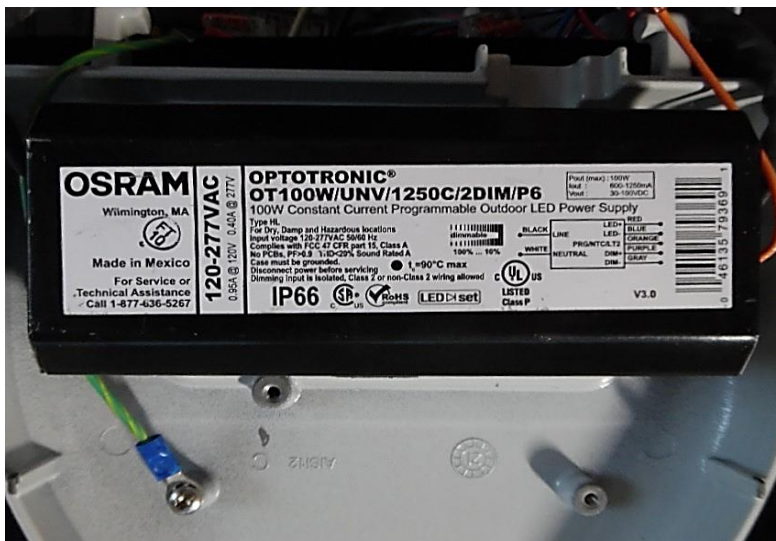
		Lateral (C-Plane) Angles														
		77.5	80	82.5	85	90	95	105	115	125	135	145	155	165	175	180
Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	97.5	0	0	0	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

LLIA001821-006A

Additional Pictures of Test Subject



Report of Test

LLIA001821-006A

Test Distance 9.5 m
Ambient Temperature 25.3 °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

LLIA001821-006B

Integrating Sphere Report

Catalog Number: L6-16S-5-X-2ES-4-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 OT100W/UNV/1250C/2DIM/P6 LED driver set at 900mA, Littlefuse LSP10277SBX3472 suppressor.



Performance Summary

Voltage	120.0 Vac
Current	0.4129 A
Power	49.02 W
Frequency	59.99 Hz
Power Factor	0.990
Current THD	3.8 %
Total Luminous Flux	6968.7 lm
Efficacy	142.2 lm/W
Chromaticity (x,y)	(0.4379, 0.4098)
(u',v')	(0.2487, 0.5237)
Duv	0.0021
CCT	3030 K
CRI (Ra)	71
R9	-44
TM-30: Rf	72
TM-30: Rg	93
TM-30: Rcs,h1	-18

Prepared For:

LED Roadway Lighting

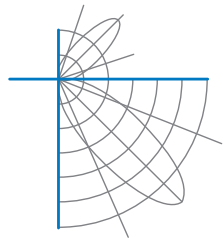
84 Chain Lake Drive

Suite 403

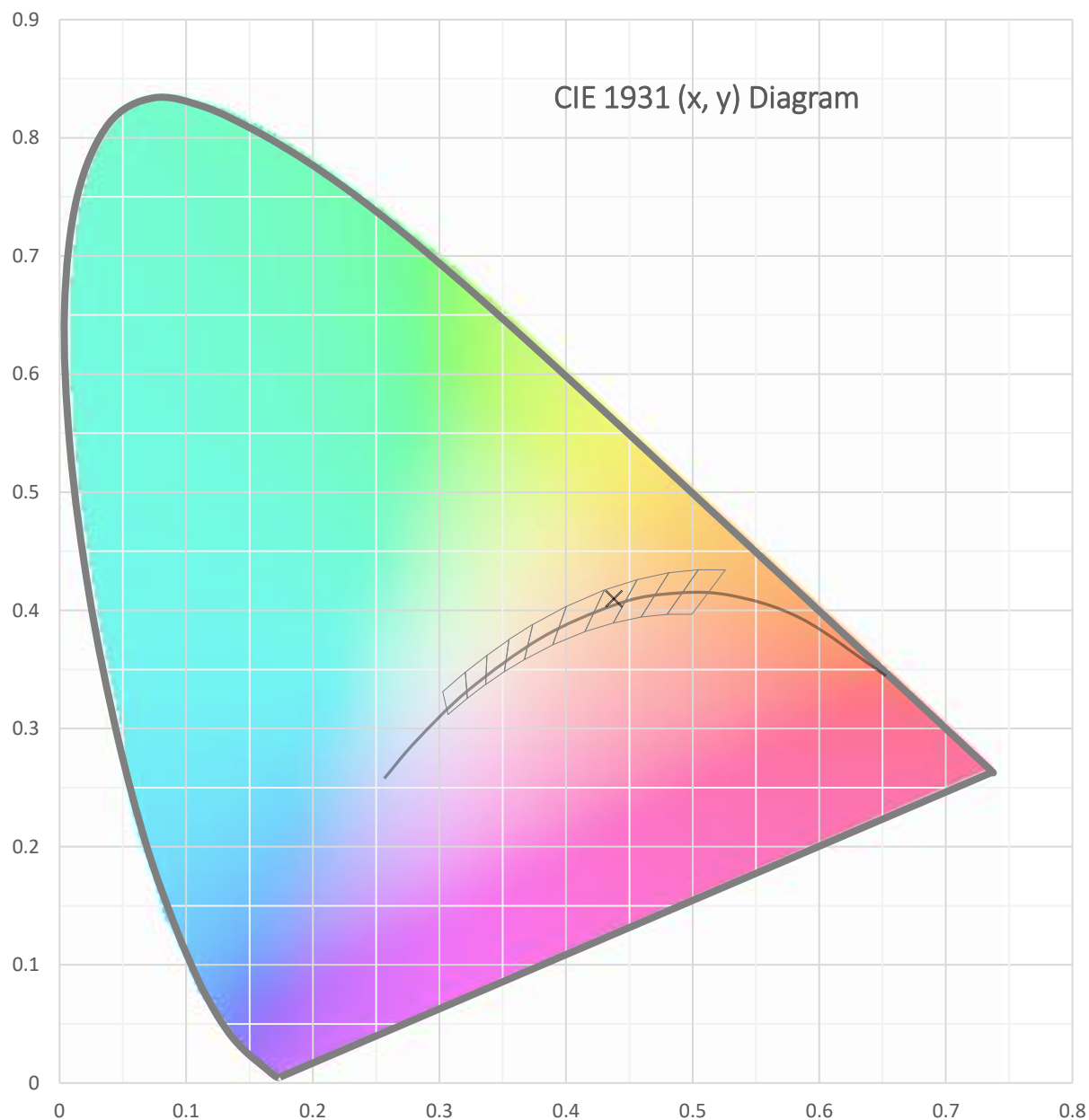
Halifax, Nova Scotia B3S 1A2, Canada

Test date: 07/28/2022

Report date: 07/29/2022

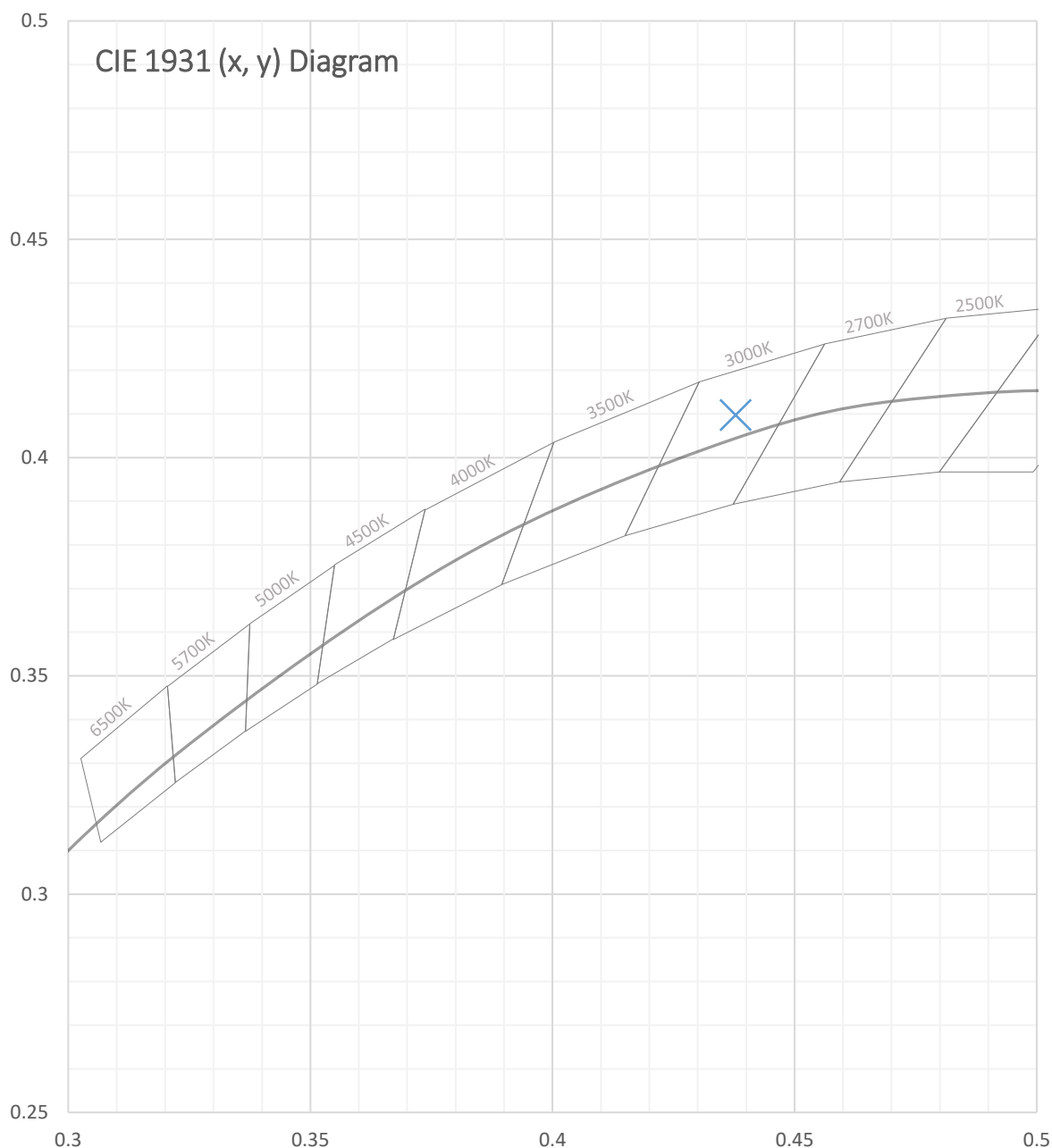


Test Report Number: LLIA001821-006B





Test Report Number: LLIA001821-006B





Test Report Number: LLIA001821-006B

Total Radiant Flux	19.52 W
Total Luminous Flux	6968.7 Lm
Chromaticity CIE 1931 (x, y)	(0.4379, 0.4098)
Chromaticity CIE 1976 (u', v')	(0.2487, 0.5237)
Correlated Color Temperature (CCT)	3030 K
Color Rendering Index (Ra)	71
R1	66
R2	81
R3	95
R4	67
R5	66
R6	75
R7	76
R8	40
R9	-44
R10	58
R11	63
R12	52
R13	69
R14	97
TM-30: Rf	72
TM-30: Rg	93
TM-30: Rcs,h1	-18
Distance from Planckian Locus (Duv)	0.0021
Scotopic/Photopic Ratio $\frac{V(\lambda)}{V_m(\lambda)}$	1.212

Electrical Data

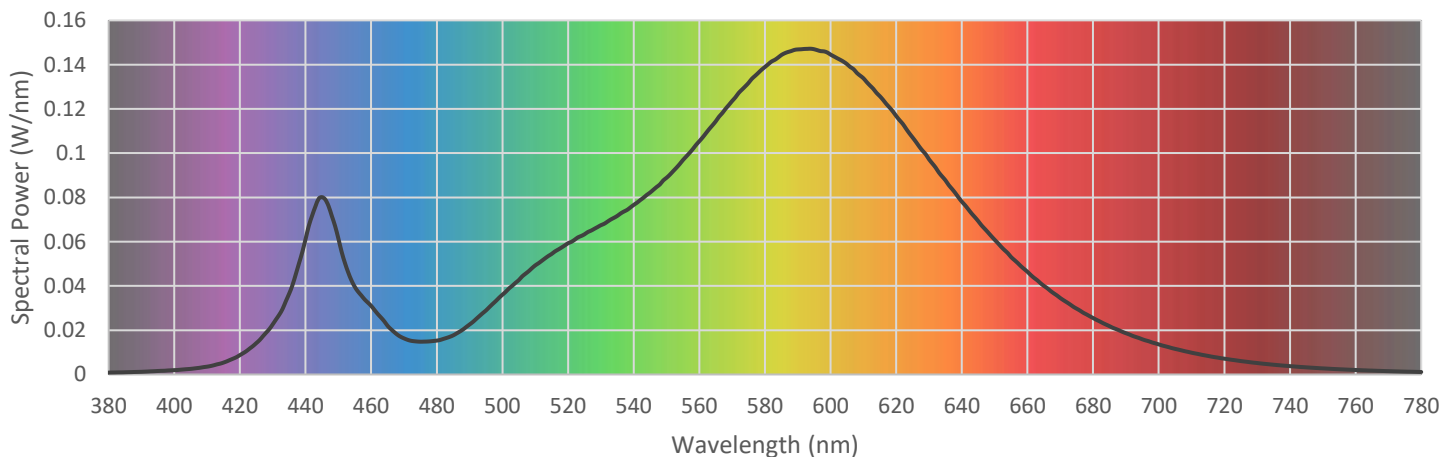
Voltage	120.0 Vac
Current	0.4129 A
Power	49.02 W
Frequency	59.99 Hz
Power Factor	0.990
Current THD	3.8 %



Test Report Number: LLIA001821-006B

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

380	0.000866	480	0.015309	580	0.138936	680	0.025499
385	0.000992	485	0.017668	585	0.144332	685	0.021835
390	0.001202	490	0.022600	590	0.146872	690	0.018653
395	0.001575	495	0.028943	595	0.146949	695	0.015887
400	0.001958	500	0.036044	600	0.144532	700	0.013604
405	0.002531	505	0.042659	605	0.140223	705	0.011563
410	0.003527	510	0.049288	610	0.133854	710	0.009843
415	0.005366	515	0.054454	615	0.125754	715	0.008384
420	0.008756	520	0.059306	620	0.116792	720	0.007126
425	0.014190	525	0.063331	625	0.107080	725	0.006063
430	0.022659	530	0.067446	630	0.097224	730	0.005176
435	0.036480	535	0.071644	635	0.087735	735	0.004400
440	0.061157	540	0.076608	640	0.078071	740	0.003759
445	0.080114	545	0.082193	645	0.069283	745	0.003218
450	0.061428	550	0.088860	650	0.060882	750	0.002744
455	0.039598	555	0.096858	655	0.053063	755	0.002363
460	0.030988	560	0.105394	660	0.046396	760	0.002026
465	0.021973	565	0.114364	665	0.040040	765	0.001738
470	0.016312	570	0.123558	670	0.034547	770	0.001496
475	0.014806	575	0.131738	675	0.029720	775	0.001285
						780	0.001116





Test Report Number: LLIA001821-006B

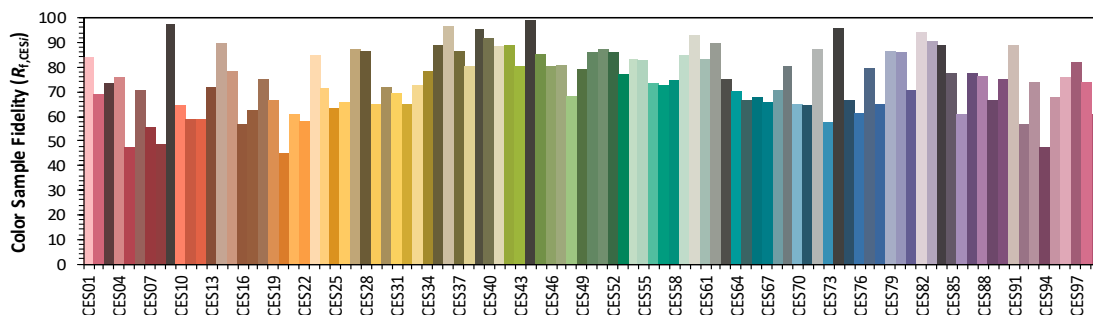
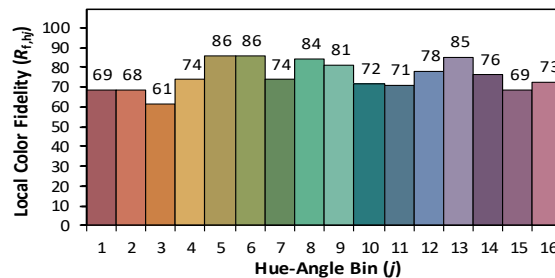
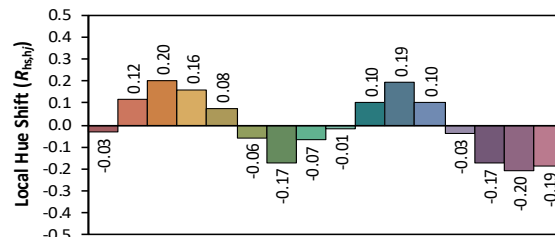
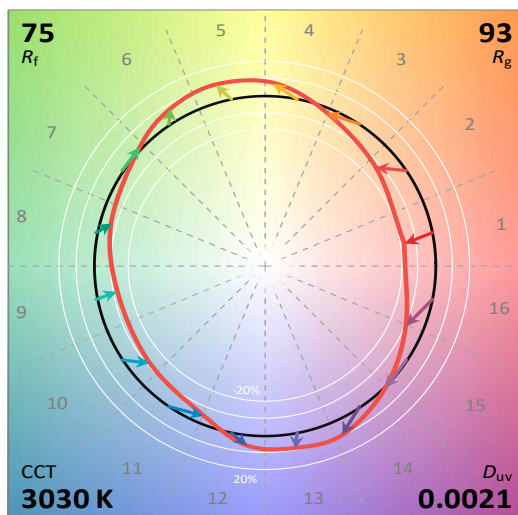
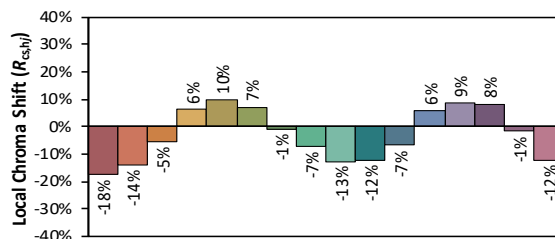
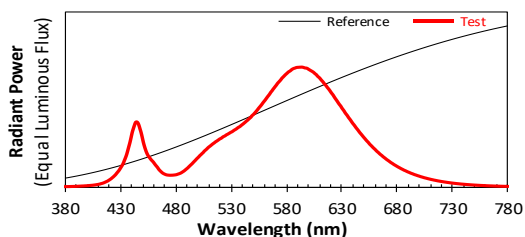
IES TM-30 Details

Source: LLIA001821-006B

Manufacturer: LED Roadway Lighting

Date: 7/29/2022

Model: L6-16S-5-X-2ES-4-X-XX-3-XX-X-X-X



Notes:

x 0.4379
y 0.4097
u' 0.2488
v' 0.5237

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

Test Report Number: LLIA001821-006B

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

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

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Sphere Report Template V2-18



Report of Test

LLIA001821-006C

Electrical Test Report

Catalog Number: L6-16S-5-X-2ES-4-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 OT100W/UNV/1250C/2DIM/P6 LED driver set at 900mA, Littlefuse LSP10277SBX3472 suppressor.



Performance Summary

Voltage	277.0 Vac
Current	0.1964 A
Power	49.05 W
Frequency	60.00 Hz
Power Factor	0.902
Current THD	8.2 %

Ambient Temperature: 25.0 °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: 07/27/2022

Report date: 07/29/2022

Electrical Report Template V1-4