



## Report of Test

**LLIA001743-001A**

Roadway/Area Light Distribution Photometry Test Report

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

Pole/arm mounted, grey 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 at 1050mA, Littlefuse LSP10277SBX3472 surge 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	7918.0 Lumens
Input Current	0.4817 A	Total Efficacy	138.0 Lm/W
Input Power	57.36 W		
Frequency	60.00 Hz	Roadway Throw	Short
Power Factor	0.993	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: 04/29/2022

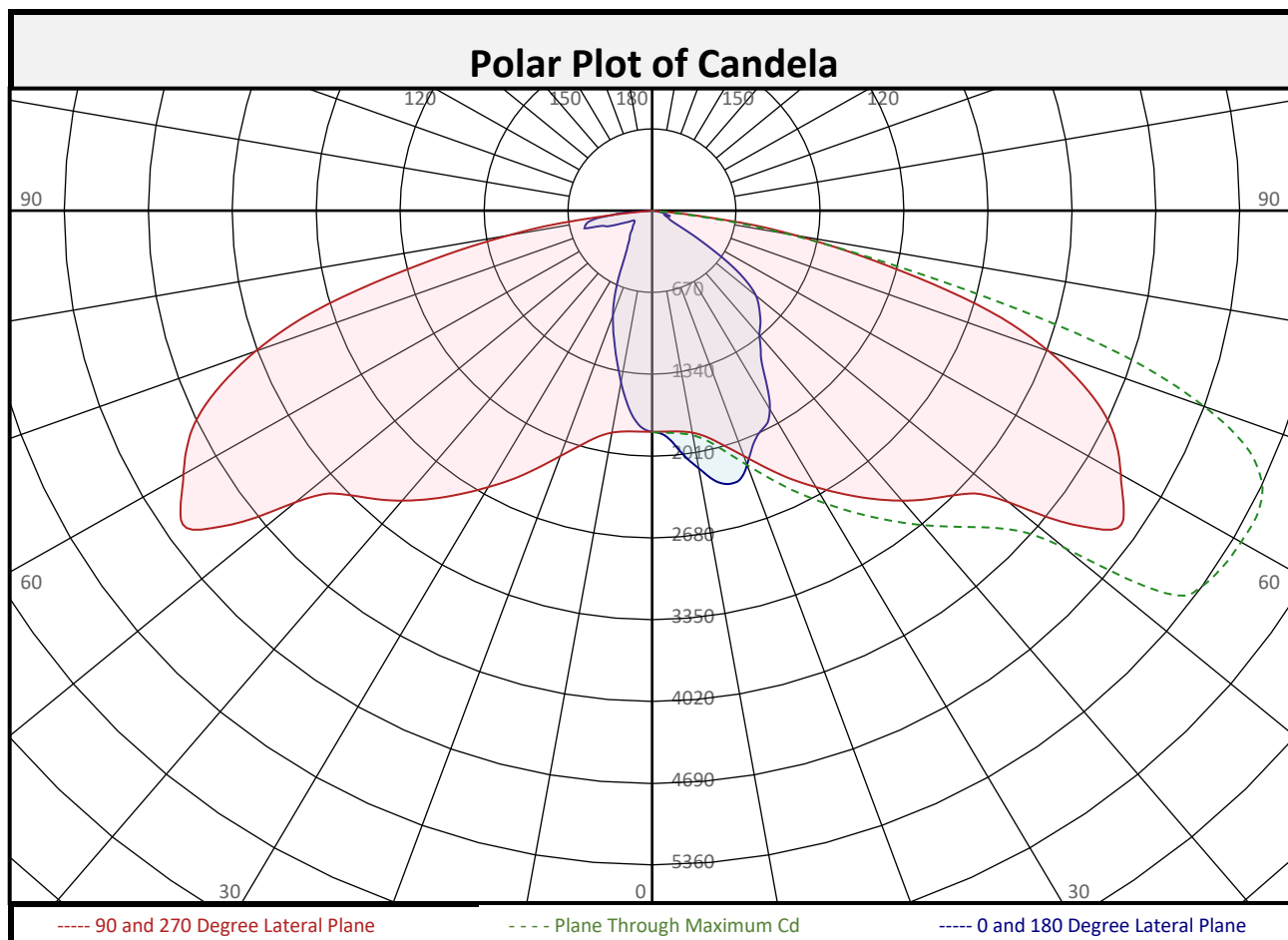
Report date: 05/02/2022

Signed: \_\_\_\_\_



## Report of Test

### LLIA001743-001A

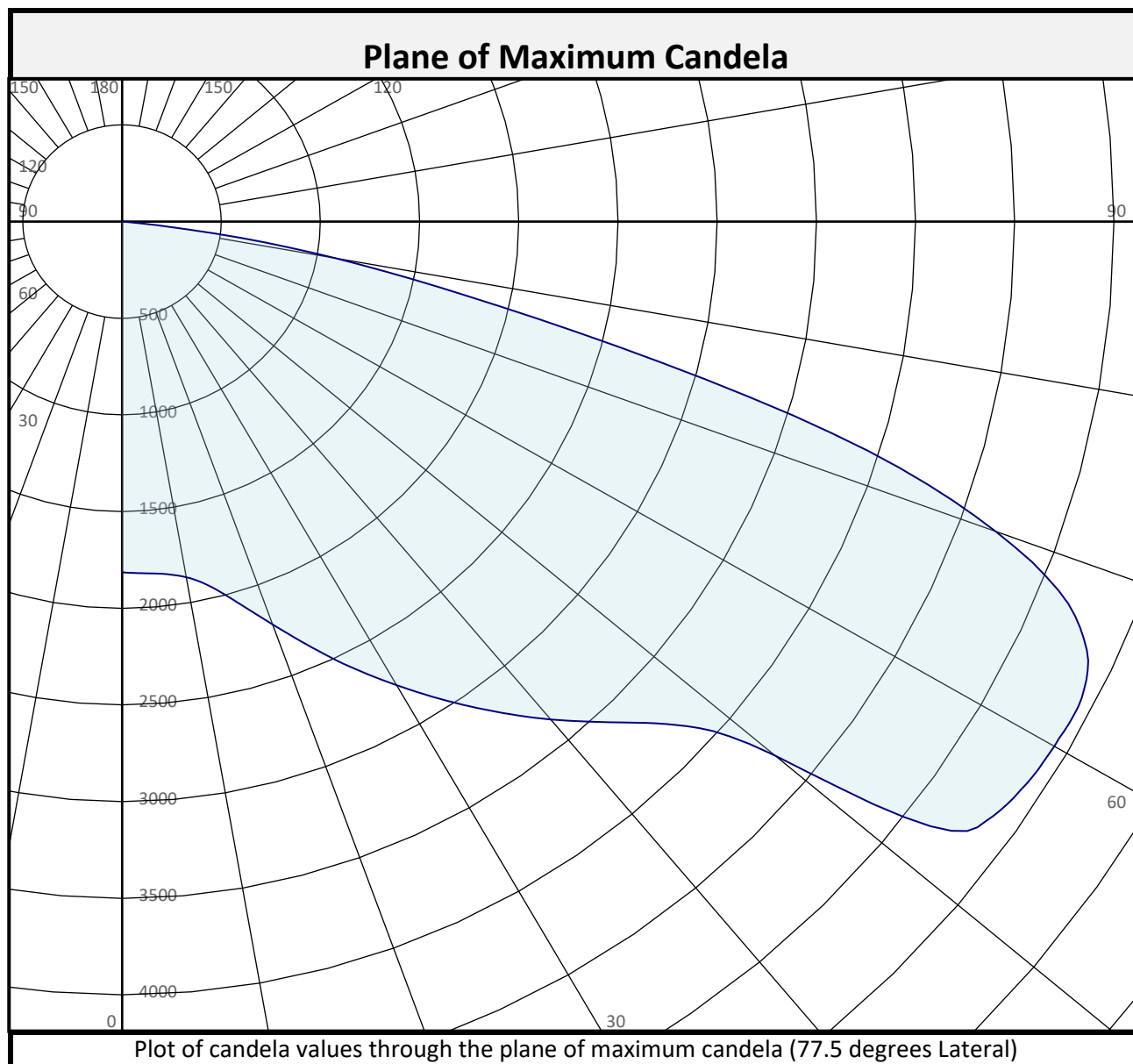


Zonal Flux Summary										
Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total
0-10	173.3	2.2%		90-100	0.0	0.0%		0-20	693.4	8.8%
10-20	520.1	6.6%		100-110	0.0	0.0%		0-30	1542	19.5%
20-30	848.3	10.7%		110-120	0.0	0.0%		0-40	2670	33.7%
30-40	1128	14.2%		120-130	0.0	0.0%		0-60	5802	73.3%
40-50	1408	17.8%		130-140	0.0	0.0%		0-80	7823	98.8%
50-60	1723	21.8%		140-150	0.0	0.0%		10-90	7745	97.8%
60-70	1336	16.9%		150-160	0.0	0.0%		20-50	3385	42.8%
70-80	684.7	8.6%		160-170	0.0	0.0%		40-90	5248	66.3%
80-90	95.2	1.2%		170-180	0.0	0.0%		60-90	2116	26.7%
0-90	7918	100.0%		90-180	0.0	0.0%		0-180	7918	100.0%



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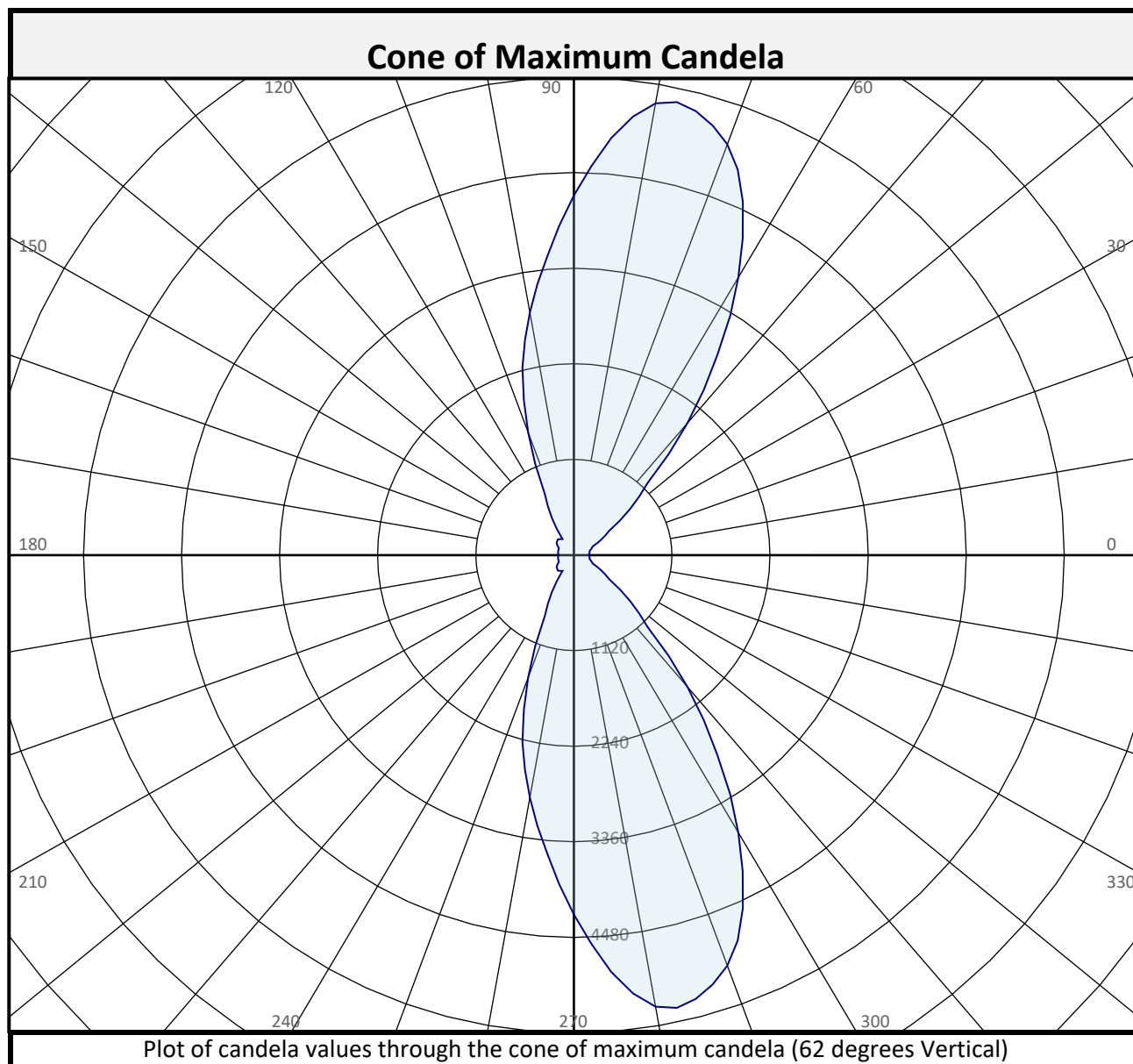


Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	5385.8	68.0%	0.0	0.0%	5385.8	68.0%
House Side	2532.3	32.0%	0.0	0.0%	2532.3	32.0%
Total	7918.0	100.0%	0.0	0.0%	7918.0	100.0%



## Report of Test

### LLIA001743-001A



Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	5385.8	68.0%	0.0	0.0%	5385.8	68.0%
House Side	2532.3	32.0%	0.0	0.0%	2532.3	32.0%
Total	7918.0	100.0%	0.0	0.0%	7918.0	100.0%

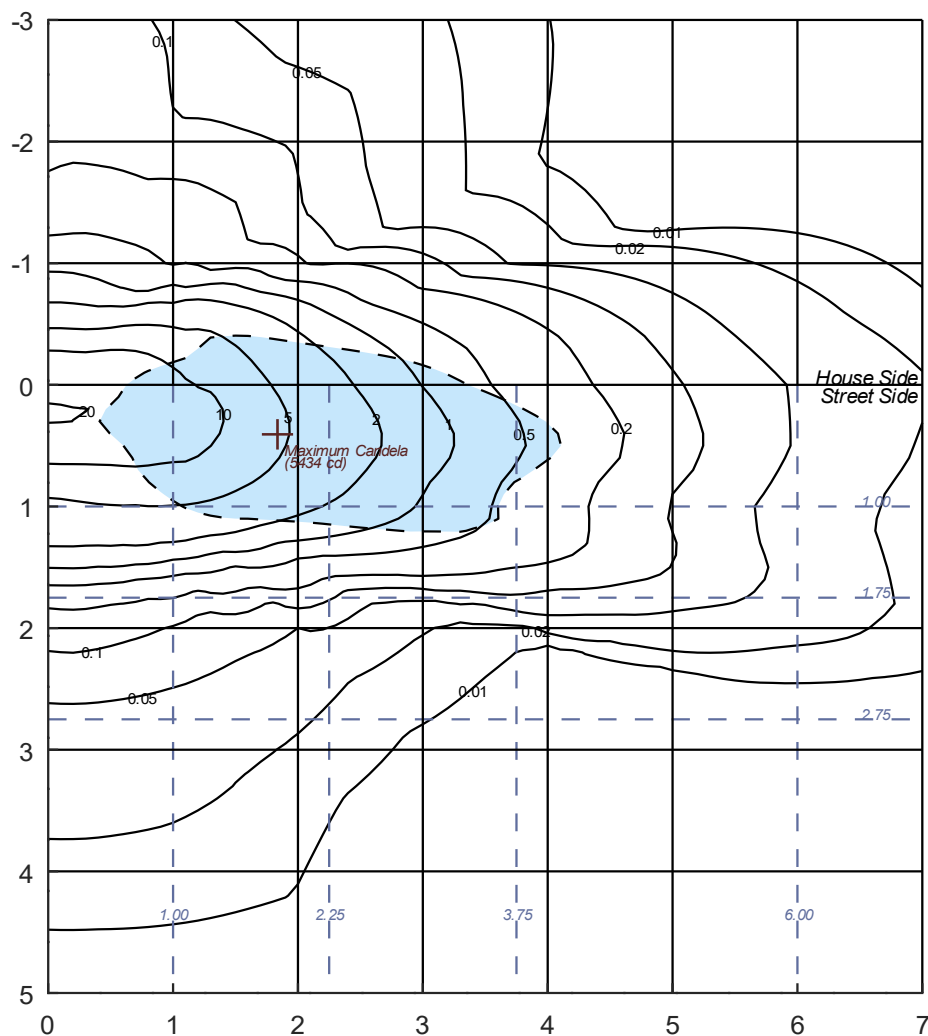


## Report of Test

### LLIA001743-001A

#### Iso-Illuminance Plot

VALUES BASED ON 10.00 FOOT MOUNTING HEIGHT

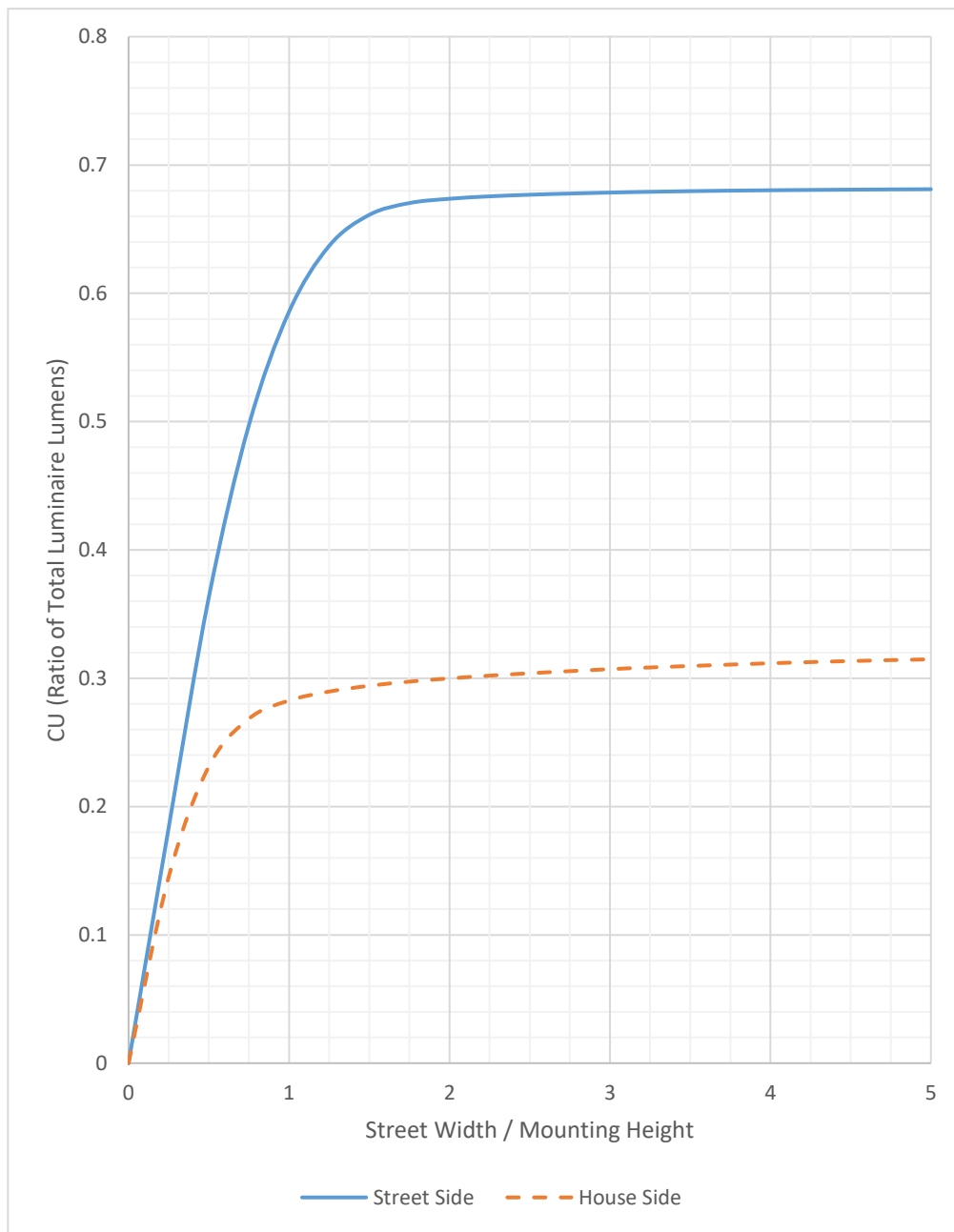


The isofootcandle values shown in the plot above are based on a mounting height of  $h = 10.0$  feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the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



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### Coefficients of Utilization Plot

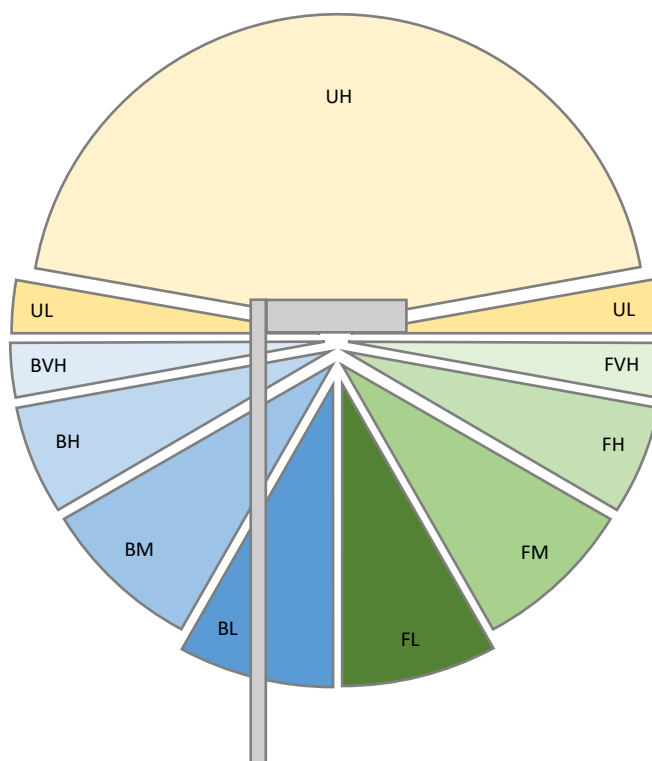




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### LLIA001743-001A

#### LCS Tables and Bug Classification



#### Back Light

BL - Back Low (0°-30°)	587.4 Lm
BM - Back Mid (30°-60°)	1260.7 Lm
BH - Back High (60°-80°)	629.3 Lm
BVH - Back Very High (80°-90°)	54.9 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°)	954.3 Lm
FM - Forward Mid (30°-60°)	2999.5 Lm
FH - Forward High (60°-80°)	1391.7 Lm
FVH - Forward Very High (80°-90°)	40.3 Lm

BUG Ratings: B2 - U0 - G2



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	1813	1813	1813	1813	1813	1813	1813	1813	1813	1813	1813	1813	1813	1813	1813
	2.5	1831	1834	1834	1832	1827	1828	1823	1822	1819	1820	1819	1818	1818	1817	1819
	5	1908	1911	1906	1894	1877	1862	1846	1842	1838	1835	1832	1830	1828	1826	1827
	7.5	2033	2036	2027	2006	1975	1935	1894	1884	1875	1867	1859	1854	1849	1845	1843
	10	2143	2146	2135	2112	2079	2031	1973	1955	1940	1923	1909	1899	1890	1882	1875
	12.5	2257	2259	2247	2217	2175	2129	2069	2052	2031	2009	1988	1970	1955	1941	1929
	15	2318	2320	2317	2311	2286	2232	2176	2159	2139	2117	2095	2072	2049	2028	2010
	17.5	2315	2317	2331	2351	2365	2354	2295	2280	2262	2243	2220	2195	2169	2142	2119
	20	2215	2223	2267	2337	2410	2452	2428	2410	2394	2376	2354	2327	2302	2273	2244
	22.5	2092	2101	2149	2251	2405	2524	2559	2550	2534	2515	2494	2470	2443	2414	2381
	25	2014	2020	2059	2158	2345	2561	2667	2675	2671	2657	2636	2614	2589	2557	2524
	27.5	1975	1979	2015	2097	2281	2555	2754	2777	2790	2789	2777	2755	2730	2698	2664
	30	1879	1889	1958	2068	2236	2526	2818	2863	2892	2908	2909	2896	2873	2841	2805
	32.5	1709	1725	1830	2006	2213	2502	2861	2931	2984	3015	3031	3029	3015	2988	2954
	35	1528	1548	1670	1894	2181	2485	2893	2987	3064	3117	3147	3161	3156	3134	3103
	37.5	1424	1440	1550	1771	2126	2483	2918	3031	3133	3209	3261	3287	3294	3280	3251
	40	1332	1350	1477	1701	2079	2501	2952	3076	3194	3292	3365	3406	3424	3418	3395
	42.5	1278	1296	1428	1695	2094	2590	3034	3151	3270	3377	3465	3524	3554	3557	3541
	45	1219	1240	1382	1657	2074	2670	3212	3327	3437	3533	3613	3672	3702	3708	3696
	47.5	1156	1175	1306	1592	2026	2695	3358	3492	3617	3735	3835	3904	3936	3930	3907
	50	1082	1096	1197	1470	1933	2697	3587	3766	3925	4071	4210	4310	4367	4368	4347
	52.5	948	963	1049	1317	1811	2623	3709	3982	4246	4496	4740	4944	5097	5182	5203
	55	741	760	860	1132	1653	2526	3648	3930	4212	4477	4726	4958	5149	5274	5347
	57.5	473	488	579	838	1342	2283	3593	3899	4198	4482	4750	4980	5166	5297	5387
	60	237	247	301	459	847	1727	3324	3702	4056	4399	4714	4964	5153	5291	5390
	62.5	160	170	176	204	417	1060	2700	3196	3651	4089	4502	4848	5101	5264	5380
	65	142	150	145	146	179	567	1850	2459	3008	3519	4033	4486	4843	5110	5288
	67.5	121	125	127	131	133	250	1057	1611	2252	2849	3442	3949	4341	4671	4965
	70	106	107	110	117	122	144	476	808	1424	2108	2798	3407	3800	4035	4343
	72.5	148	145	119	106	106	106	163	266	576	1237	1913	2687	3294	3488	3573
	75	115	117	116	106	90	80	100	109	147	457	1054	1637	2393	2776	2713
	77.5	96	97	103	106	66	68	74	78	83	109	468	825	1454	1981	1924
	80	57	58	68	85	45	55	47	49	52	61	155	419	697	1170	1275
	82.5	28	28	28	38	26	27	26	27	27	29	59	145	270	444	536
	85	14	14	15	14	13	12	10	10	10	10	14	22	30	41	44
	87.5	0	0	0	0	0	1	1	1	1	2	2	2	2	2	3
	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	1813	1813	1813	1813	1813	1813	1813	1813	1813	1813	1813	1813	1813	1813	1813
	2.5	1820	1820	1818	1815	1812	1813	1811	1806	1801	1797	1795	1791	1787	1783	1783
	5	1827	1826	1824	1821	1816	1814	1807	1794	1778	1760	1741	1724	1713	1704	1704
	7.5	1841	1838	1836	1833	1826	1821	1804	1776	1736	1696	1653	1616	1592	1577	1575
	10	1868	1863	1860	1857	1847	1837	1805	1750	1681	1609	1541	1488	1453	1433	1429
	12.5	1918	1911	1906	1901	1889	1870	1815	1725	1614	1513	1421	1351	1308	1286	1283
	15	1996	1986	1978	1969	1954	1927	1838	1701	1547	1410	1303	1229	1178	1154	1151
	17.5	2099	2085	2071	2061	2040	2004	1878	1687	1483	1316	1195	1111	1062	1037	1033
	20	2217	2197	2180	2167	2140	2095	1926	1686	1431	1232	1099	1005	949	920	915
	22.5	2347	2323	2304	2288	2254	2197	1983	1691	1394	1161	1007	903	835	798	793
	25	2486	2455	2432	2414	2375	2304	2047	1703	1365	1093	914	784	706	666	662
	27.5	2627	2592	2563	2543	2497	2412	2116	1719	1344	1033	806	660	581	540	535
	30	2768	2730	2698	2672	2616	2516	2182	1735	1323	962	690	541	472	442	438
	32.5	2914	2874	2837	2805	2738	2623	2243	1750	1303	876	573	449	399	376	374
	35	3061	3019	2977	2941	2862	2726	2298	1763	1273	779	476	383	354	335	333
	37.5	3211	3166	3121	3079	2984	2823	2344	1777	1228	668	400	335	310	299	298
	40	3361	3317	3268	3217	3102	2915	2381	1787	1162	557	339	295	284	278	277
	42.5	3508	3464	3409	3351	3211	2996	2406	1786	1078	443	288	271	266	259	258
	45	3665	3616	3555	3480	3312	3069	2422	1767	961	345	263	254	246	234	232
	47.5	3863	3803	3727	3634	3432	3147	2436	1717	818	275	247	242	233	217	212
	50	4295	4213	4112	3992	3719	3359	2510	1655	674	247	240	235	225	207	202
	52.5	5136	4989	4813	4619	4223	3772	2837	1747	576	245	244	226	216	194	188
	55	5360	5296	5161	4974	4533	3990	2878	1530	451	245	242	216	197	179	174
	57.5	5408	5348	5201	4995	4459	3839	2715	1308	351	249	244	201	183	174	166
	60	5427	5363	5189	4940	4319	3655	2507	1040	268	254	245	195	191	184	165
	62.5	5434	5371	5175	4890	4181	3469	2207	717	221	259	239	187	183	187	178
	65	5374	5309	5091	4778	3996	3269	1840	442	205	258	228	181	198	228	228
	67.5	5163	5149	4913	4561	3717	3024	1405	264	196	258	219	179	257	286	290
	70	4688	4829	4649	4265	3368	2706	956	178	184	251	209	197	315	365	375
	72.5	3944	4256	4210	3808	2924	2344	601	139	171	234	198	218	357	406	414
	75	2809	3159	3362	3138	2314	1868	336	110	153	216	184	216	420	550	560
	77.5	1792	1909	2229	2251	1699	1318	143	81	136	188	175	268	456	545	546
	80	1097	1024	1169	1281	1159	761	63	60	114	147	156	276	414	511	512
	82.5	473	387	386	467	595	304	32	43	72	107	132	203	332	409	404
	85	38	32	35	45	64	37	12	19	27	36	45	73	158	240	237
	87.5	3	3	3	3	4	4	4	5	6	6	6	6	7	8	8
	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



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**LLIA001743-001A**

**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

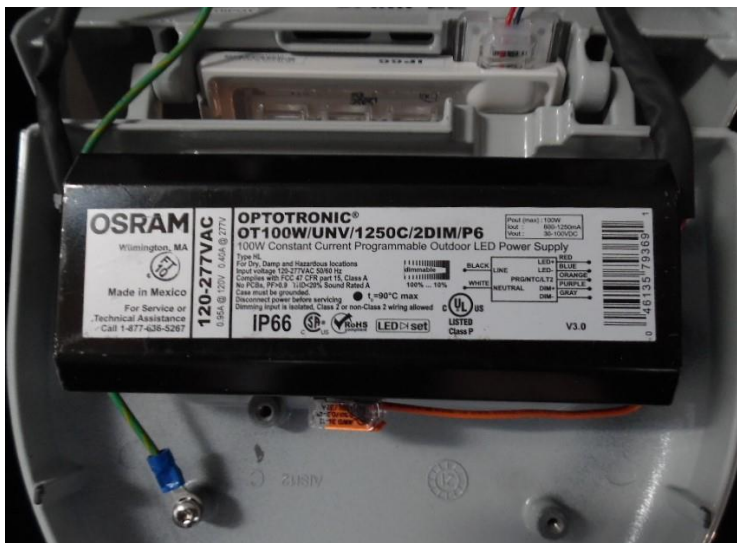
		Lateral (C-Plane) Angles														
		77.5	80	82.5	85	90	95	105	115	125	135	145	155	165	175	180
Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	97.5	0	0	0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

### LLIA001743-001A

### Additional Pictures of Test Subject



## Report of Test

### LLIA001743-001A

Test Distance                      9.5 m  
Ambient Temperature            24.7 °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

**LLIA001743-001B**

Integrating Sphere Report

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

Pole/arm mounted, grey 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 at 1050mA, Littlefuse LSP10277SBX3472 surge suppressor



### Performance Summary

Voltage	120.0 Vac
Current	0.4840 A
Power	57.41 W
Frequency	59.99 Hz
Power Factor	0.989
Current THD	3.5 %
Total Luminous Flux	7961.8 lm
Efficacy	138.7 lm/W
Chromaticity (x,y)	(0.4378, 0.4099)
(u',v')	(0.2486, 0.5238)
Duv	0.0022
CCT	3033 K
CRI (Ra)	71
R9	-44
TM-30: Rf	72
TM-30: Rg	93
TM-30: Rcs,h1	-18

Prepared For:

LED Roadway Lighting

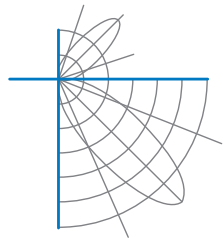
84 Chain Lake Drive

Suite 403

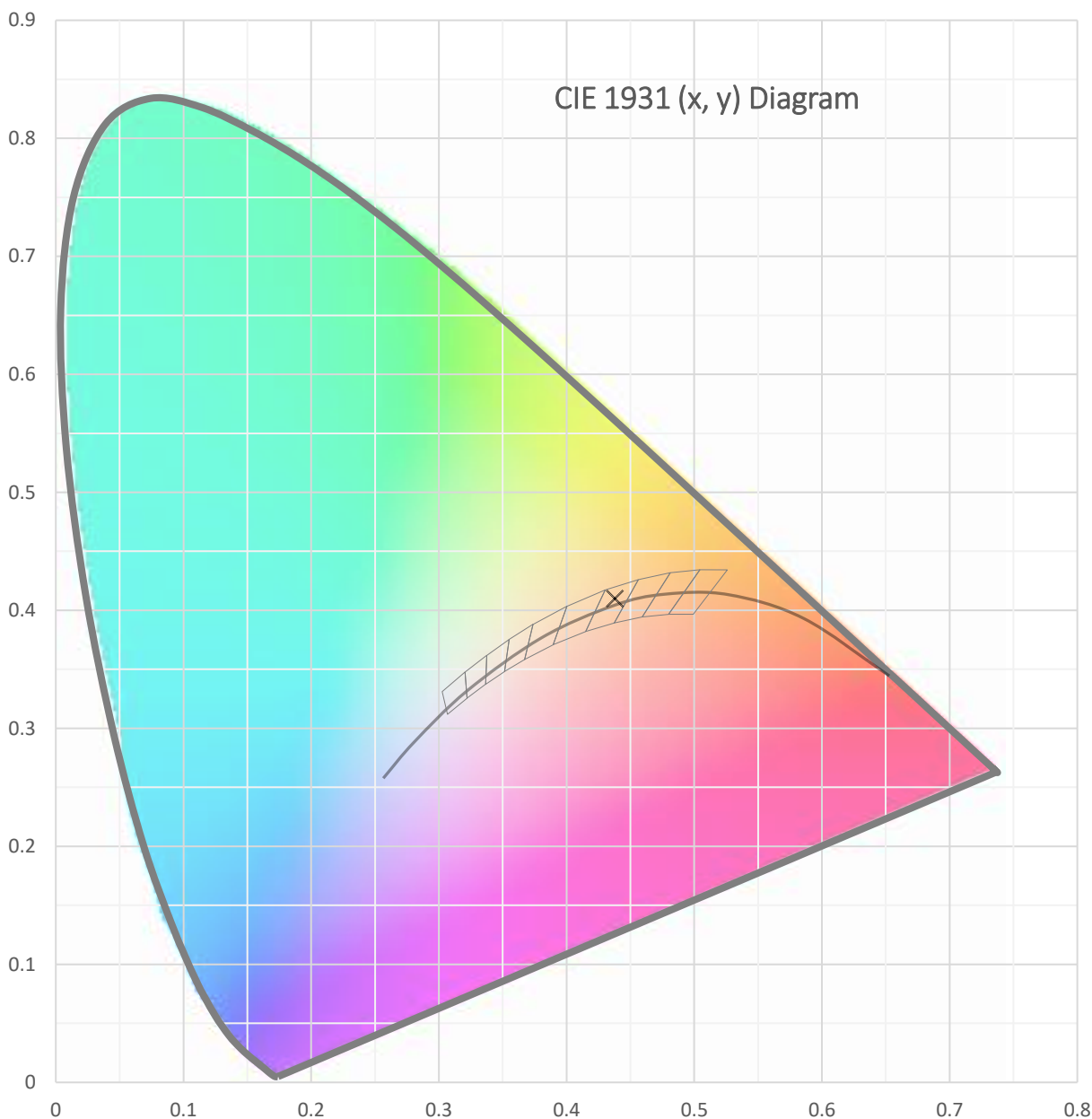
Halifax, Nova Scotia B3S 1A2, Canada

Test date: 04/29/2022

Report date: 05/02/2022



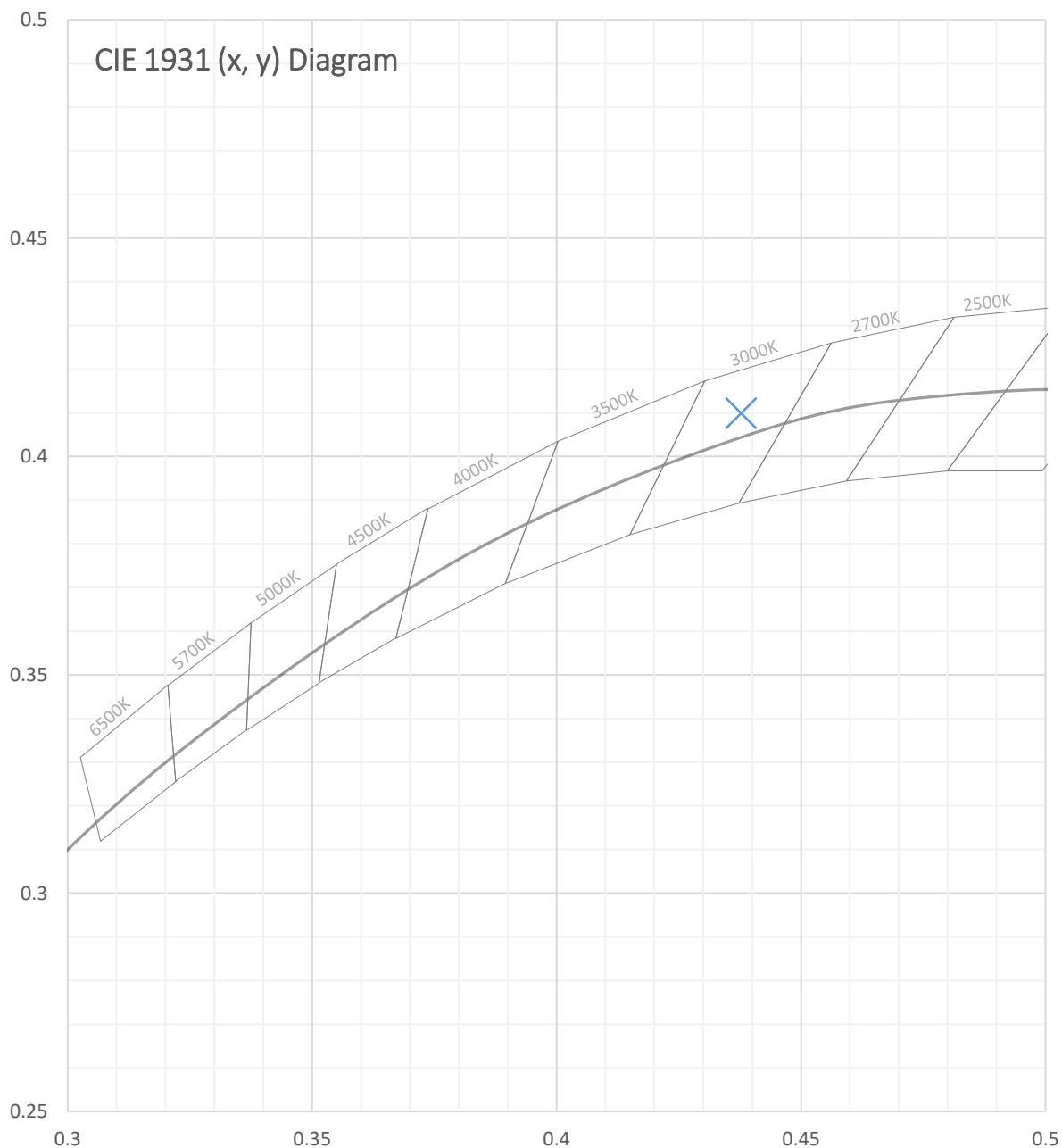
Test Report Number: LLIA001743-001B







Test Report Number: LLIA001743-001B





Test Report Number: LLIA001743-001B

Total Radiant Flux	22.30 W
Total Luminous Flux	7961.8 Lm
Chromaticity CIE 1931 (x, y)	(0.4378, 0.4099)
Chromaticity CIE 1976 (u', v')	(0.2486, 0.5238)
Correlated Color Temperature (CCT)	3033 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	58
R11	62
R12	52
R13	68
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 $\neq$	1.211

**Electrical Data**

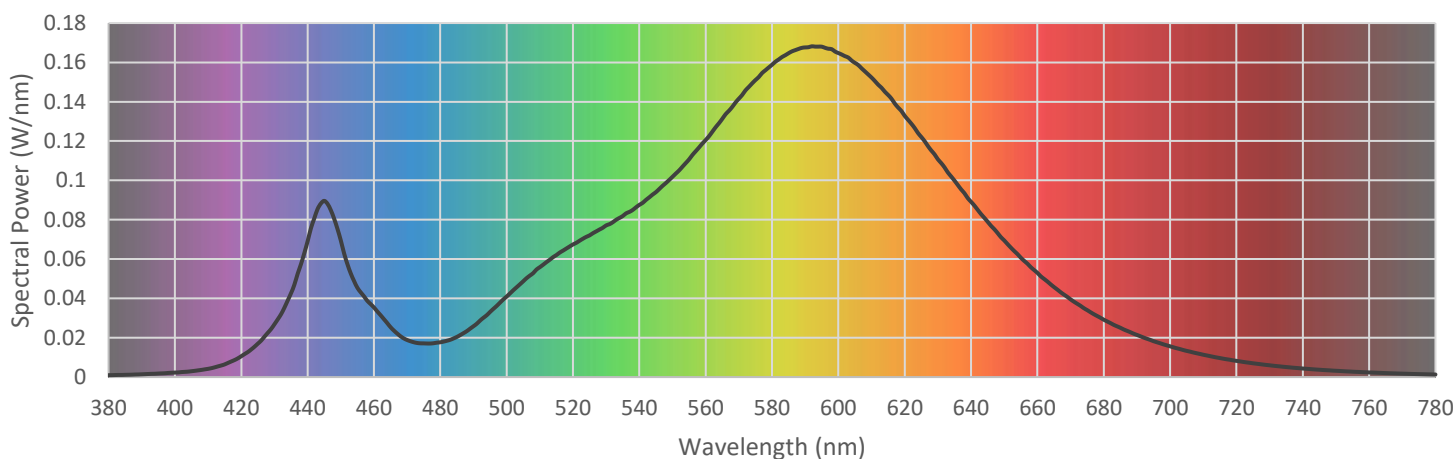
Voltage	120.0 Vac
Current	0.4840 A
Power	57.41 W
Frequency	59.99 Hz
Power Factor	0.989
Current THD	3.5 %



Test Report Number: LLIA001743-001B

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

380	0.000972	480	0.017687	580	0.158782	680	0.029166
385	0.001130	485	0.020420	585	0.164682	685	0.025071
390	0.001406	490	0.025849	590	0.167614	690	0.021425
395	0.001804	495	0.033120	595	0.167983	695	0.018263
400	0.002283	500	0.040955	600	0.164745	700	0.015641
405	0.002976	505	0.048715	605	0.159750	705	0.013309
410	0.004191	510	0.055866	610	0.152293	710	0.011355
415	0.006450	515	0.062046	615	0.143429	715	0.009670
420	0.010600	520	0.067441	620	0.132811	720	0.008235
425	0.016995	525	0.072052	625	0.122072	725	0.007010
430	0.026851	530	0.077123	630	0.110717	730	0.005990
435	0.042645	535	0.081870	635	0.099889	735	0.005096
440	0.069070	540	0.087563	640	0.089113	740	0.004349
445	0.089586	545	0.094031	645	0.078976	745	0.003727
450	0.069478	550	0.101836	650	0.069465	750	0.003196
455	0.045402	555	0.110683	655	0.060679	755	0.002741
460	0.035389	560	0.120531	660	0.052980	760	0.002356
465	0.025362	565	0.131282	665	0.045774	765	0.002021
470	0.018845	570	0.141554	670	0.039502	770	0.001740
475	0.017127	575	0.151009	675	0.034037	775	0.001502
						780	0.001299





Test Report Number: LLIA001743-001B

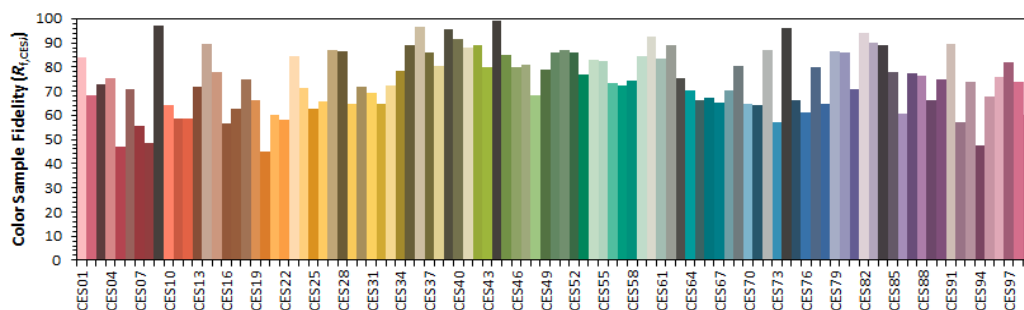
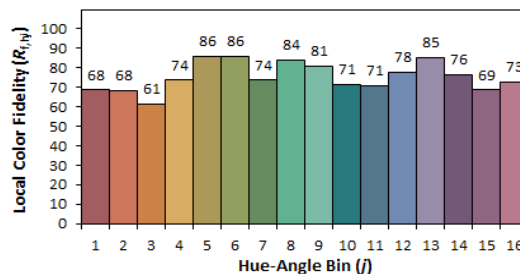
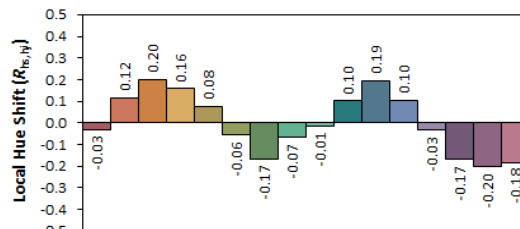
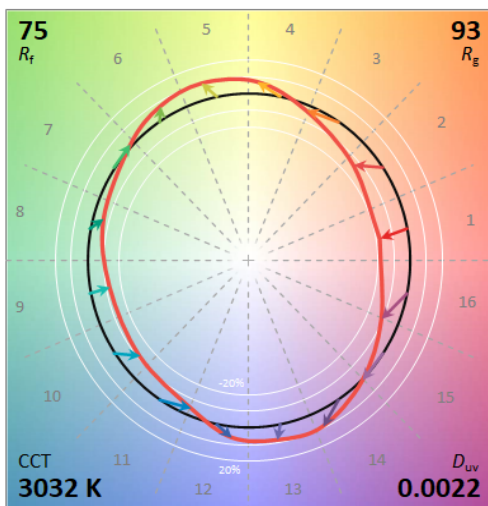
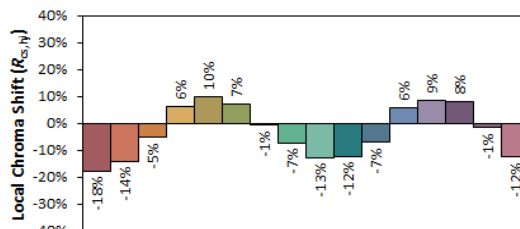
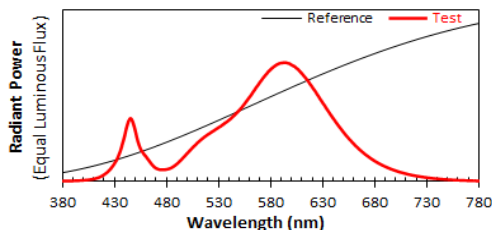
## IES TM-30 Details

Source: LLIA001743-001B

Manufacturer: LED Roadway Lighting

Date: 5/2/2022

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



Notes:

x 0.4378  
y 0.4098  
u' 0.2486  
v' 0.5238

CIE 13.3-1995  
(CRI)

R<sub>a</sub> 71  
R<sub>g</sub> -44

## Test Report Number: LLIA001743-001B

Test Equipment Configuration:	LightLab International Allentown 2m Integrating Sphere Measurements acquired using a Labsphere CDS 2600 spectroradiometer Testing was performed using 4 $\pi$ geometry
Test Temperature:	25.2 °C
Test Procedure:	Tested in accordance with the applicable sections of: LM-79-19, LM-78-20, LM-58-20, ANSI_ANSLG 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:	<p>The measurements and other derived quantities contained in this report are based on the absolute data as measured.</p> <p>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.</p> <p>This report is free of erasures and corrections</p> <p>This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with ‡ are not covered.</p> <p>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.</p>

Sphere Report Template V2-17



## Report of Test

**LLIA001743-001C**

### Electrical Test Report

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

Pole/arm mounted, grey 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 at 1050mA, Littlefuse LSP10277SBX3472 surge suppressor



### Performance Summary

Voltage	277.1 Vac
Current	0.2229 A
Power	57.12 W
Frequency	60.00 Hz
Power Factor	0.925
Current THD	7.3 %

Ambient Temperature: 24.9 °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: 04/29/2022

Report date: 05/02/2022

Electrical Report Template V1-4