

Report of Test

LLIA001743-002A

Roadway/Area Light Distribution Photometry Test Report

Catalog Number: L6-16S-5-X-2ES-5-X-XX-4-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

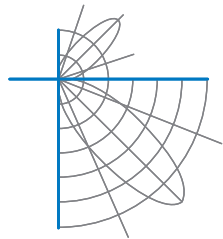
Input Voltage	120.0 Vac	Luminous Flux	8253.1 Lumens
Input Current	0.4794 A	Total Efficacy	144.5 Lm/W
Input Power	57.10 W		
Frequency	60.00 Hz	Roadway Throw	Short
Power Factor	0.993	Roadway Type	Type II
Current THD	3.1 %	IES BUG Rating	B2 - U0 - G2

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

Test date: 05/02/2022

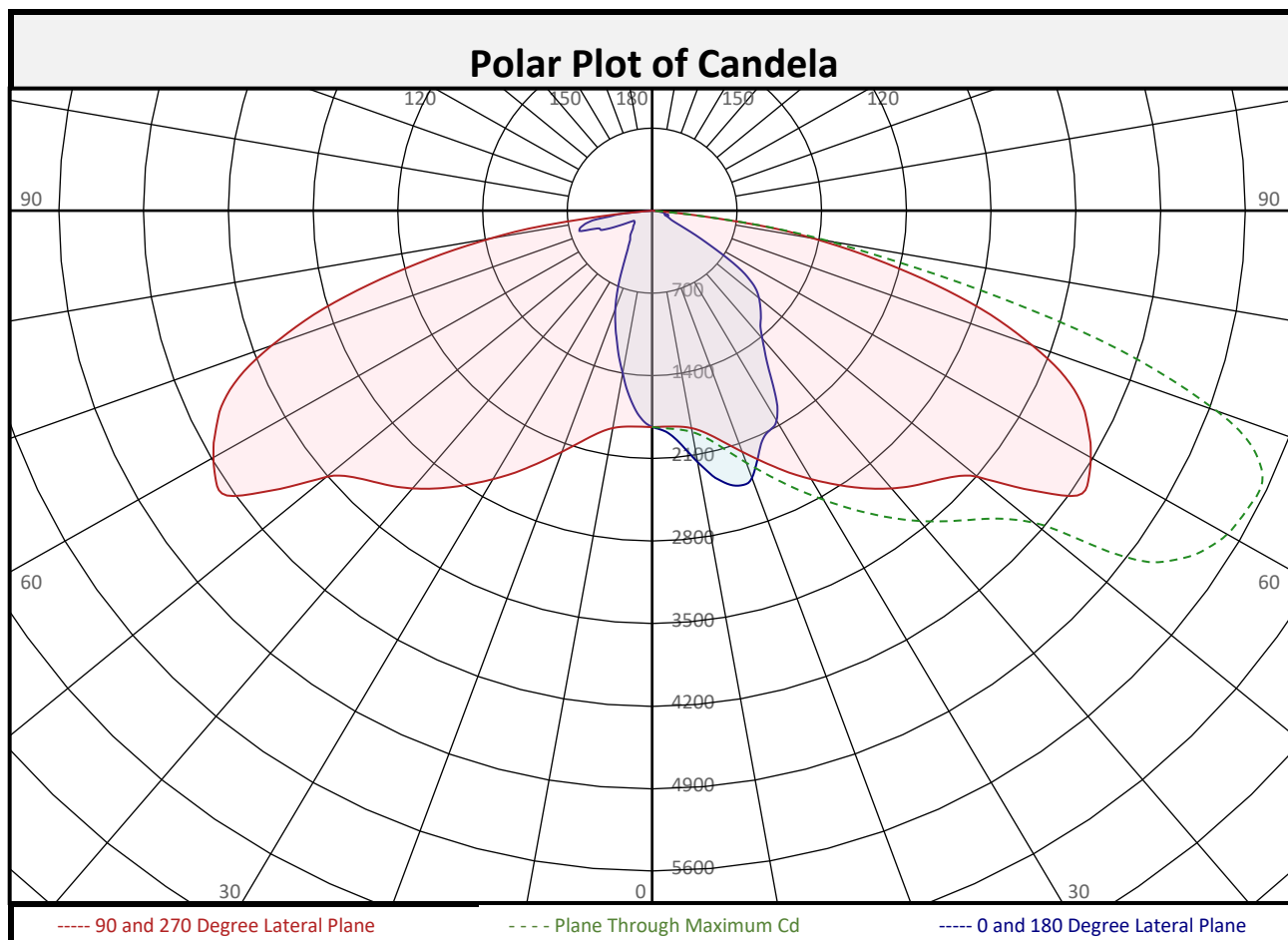
Report date: 05/02/2022

Signed: _____

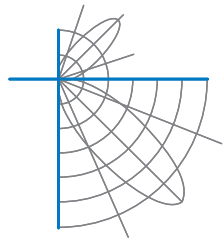


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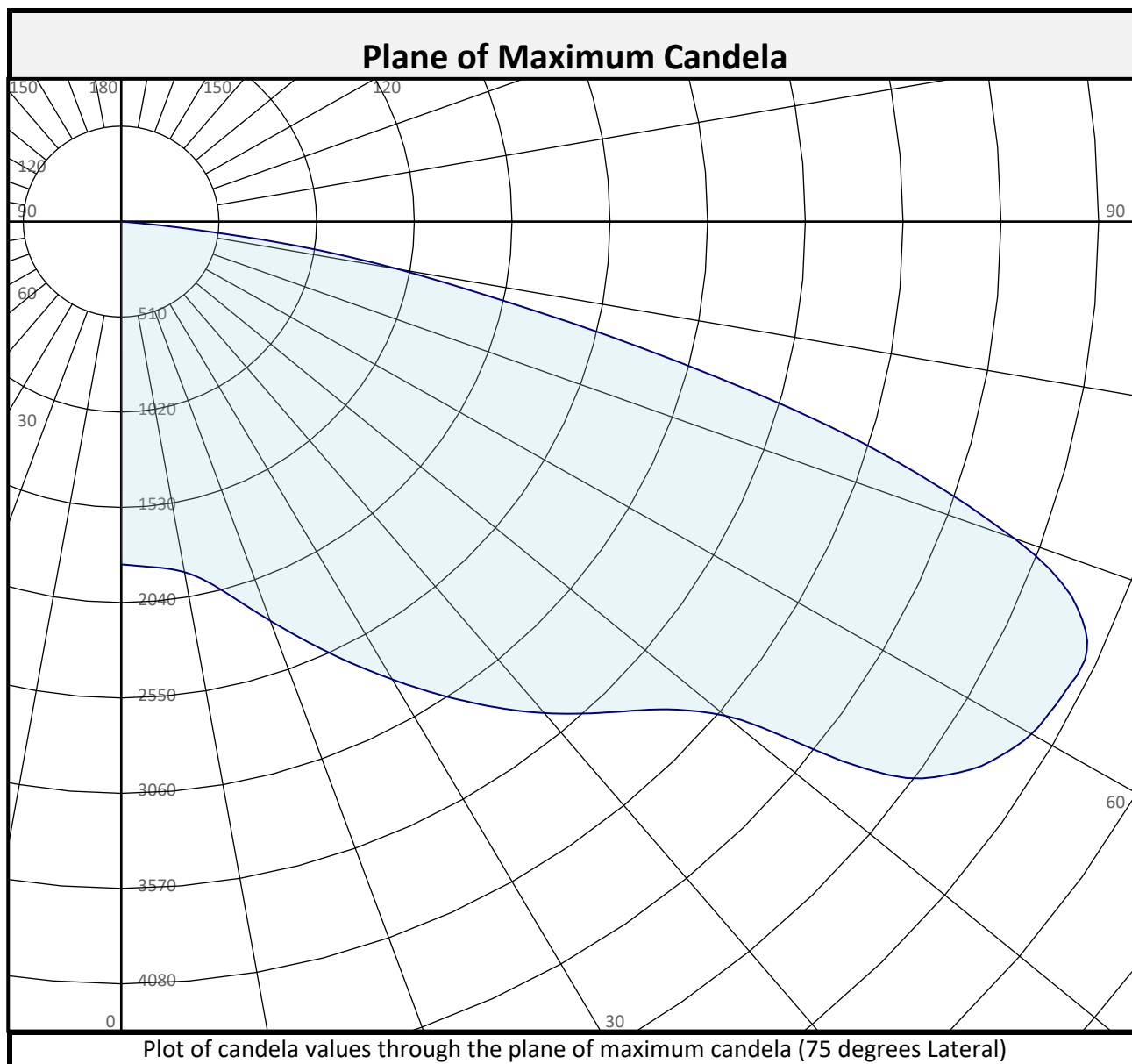


Zonal Flux Summary										
Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total
0-10	173.4	2.1%		90-100	0.0	0.0%		0-20	698.7	8.5%
10-20	525.3	6.4%		100-110	0.0	0.0%		0-30	1568	19.0%
20-30	869.8	10.5%		110-120	0.0	0.0%		0-40	2727	33.0%
30-40	1159	14.0%		120-130	0.0	0.0%		0-60	5887	71.3%
40-50	1416	17.2%		130-140	0.0	0.0%		0-80	8146	98.7%
50-60	1744	21.1%		140-150	0.0	0.0%		10-90	8080	97.9%
60-70	1473	17.8%		150-160	0.0	0.0%		20-50	3444	41.7%
70-80	786.3	9.5%		160-170	0.0	0.0%		40-90	5526	67.0%
80-90	106.7	1.3%		170-180	0.0	0.0%		60-90	2367	28.7%
0-90	8253	100.0%		90-180	0.0	0.0%		0-180	8253	100.0%

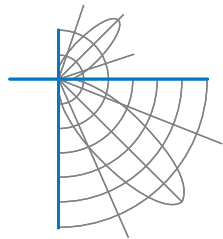


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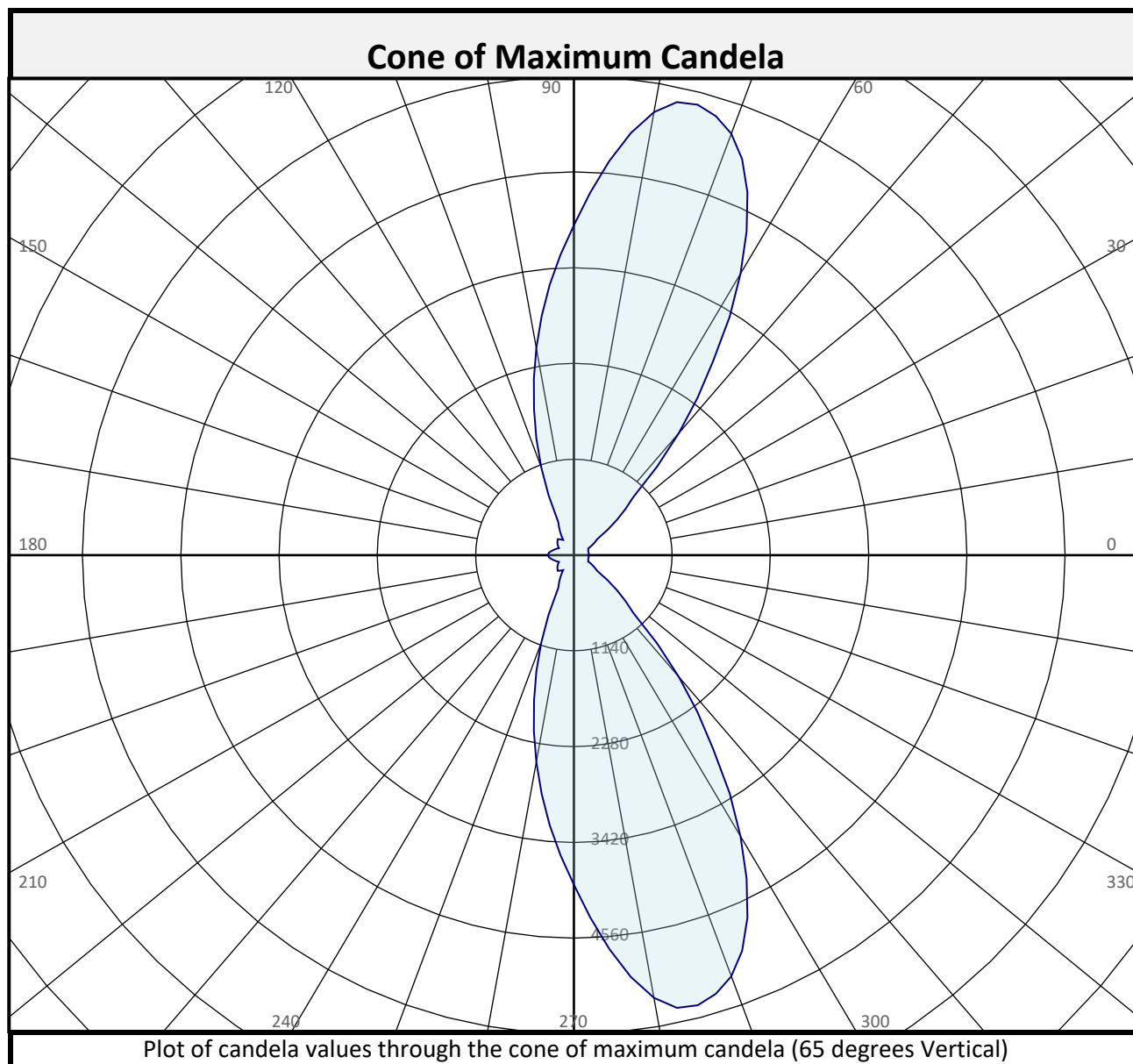


Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	5761.1	69.8%	0.0	0.0%	5761.1	69.8%
House Side	2492.0	30.2%	0.0	0.0%	2492.0	30.2%
Total	8253.1	100.0%	0.0	0.0%	8253.1	100.0%

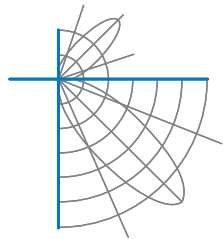


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Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	5761.1	69.8%	0.0	0.0%	5761.1	69.8%
House Side	2492.0	30.2%	0.0	0.0%	2492.0	30.2%
Total	8253.1	100.0%	0.0	0.0%	8253.1	100.0%

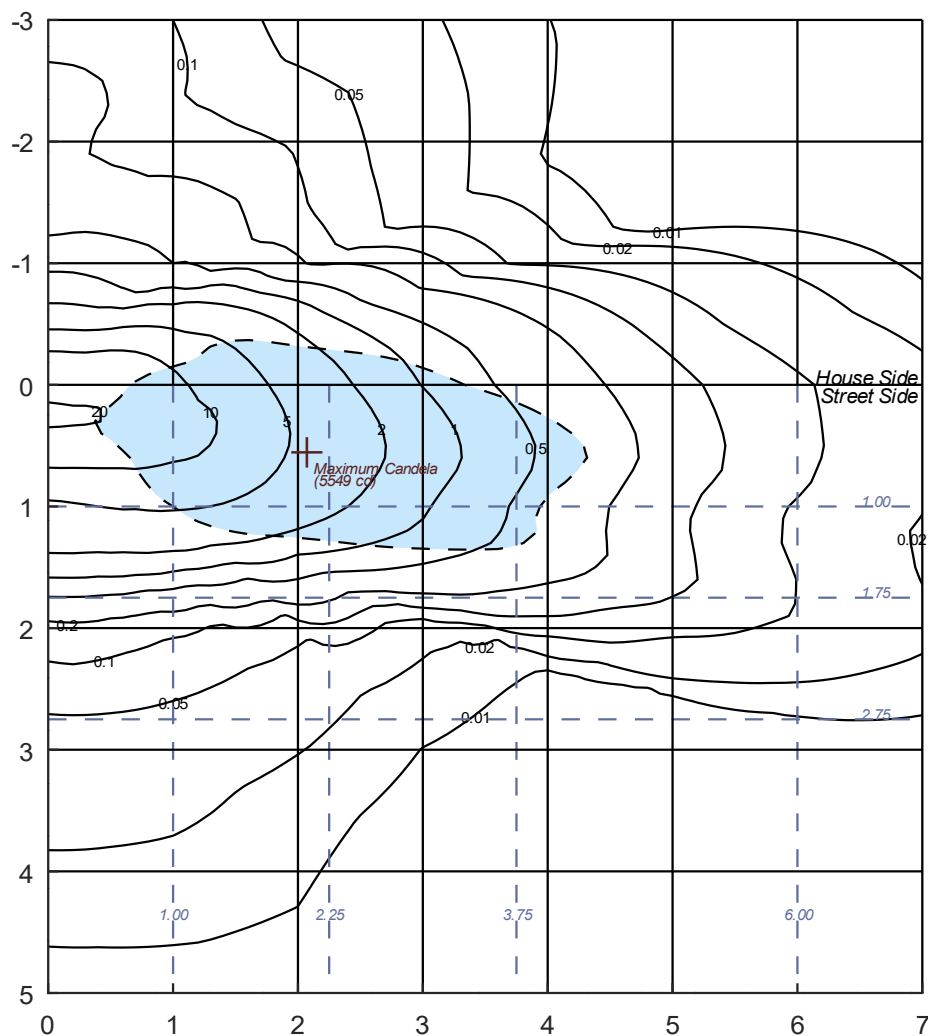


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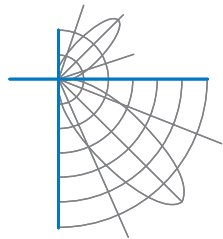
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Iso-Illuminance Plot

VALUES BASED ON 10.00 FOOT MOUNTING HEIGHT



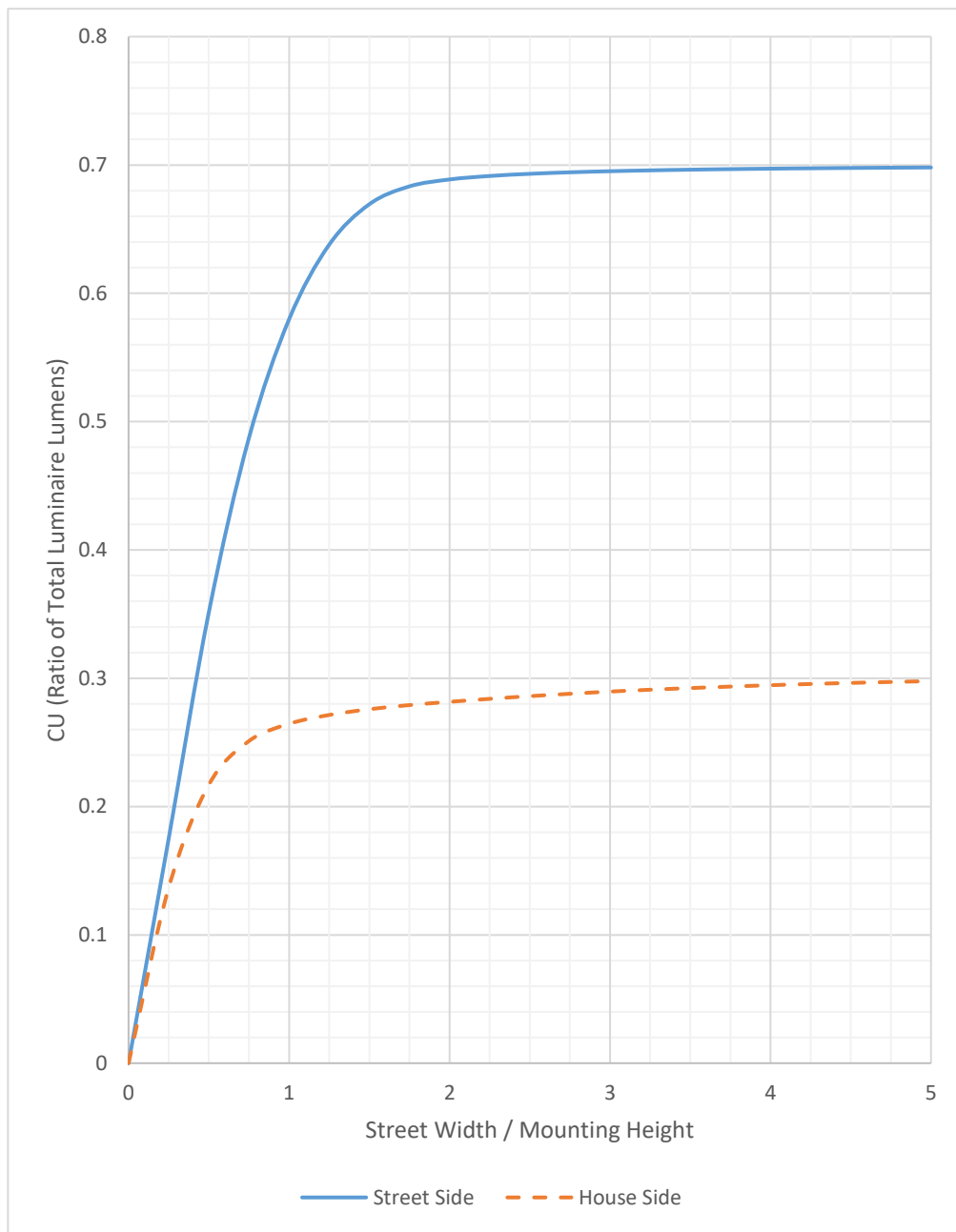
The isofootcandle values shown in the plot above are based on a mounting height of $h = 10.0$ feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the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

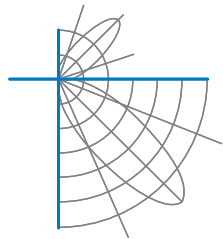


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Coefficients of Utilization Plot

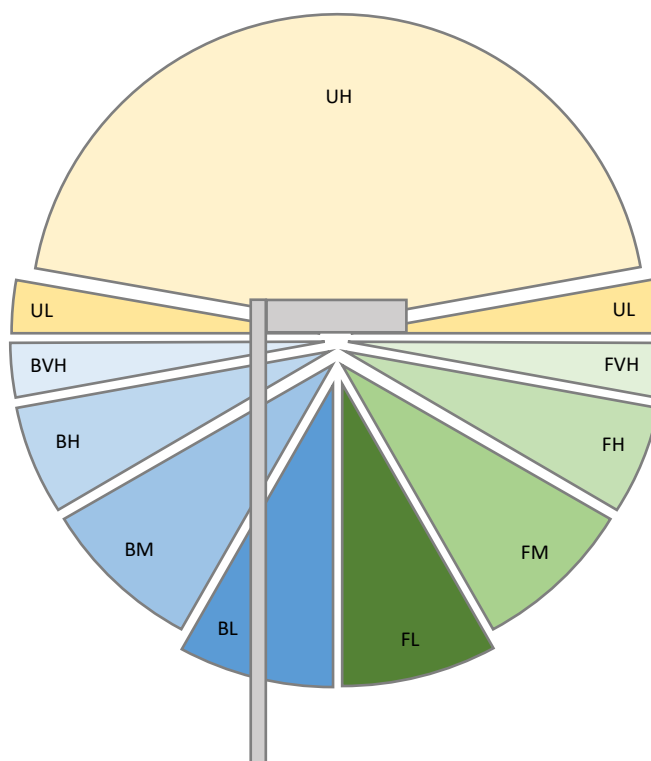




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LCS Tables and Bug Classification



Back Light

BL - Back Low (0°-30°)	581.3 Lm
BM - Back Mid (30°-60°)	1216.6 Lm
BH - Back High (60°-80°)	645.4 Lm
BVH - Back Very High (80°-90°)	48.6 Lm

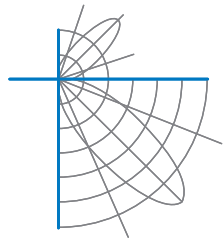
Uplight

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

Forward Light

FL - Forward Low (0°-30°)	987.2 Lm
FM - Forward Mid (30°-60°)	3101.5 Lm
FH - Forward High (60°-80°)	1614.4 Lm
FVH - Forward Very High (80°-90°)	58.1 Lm

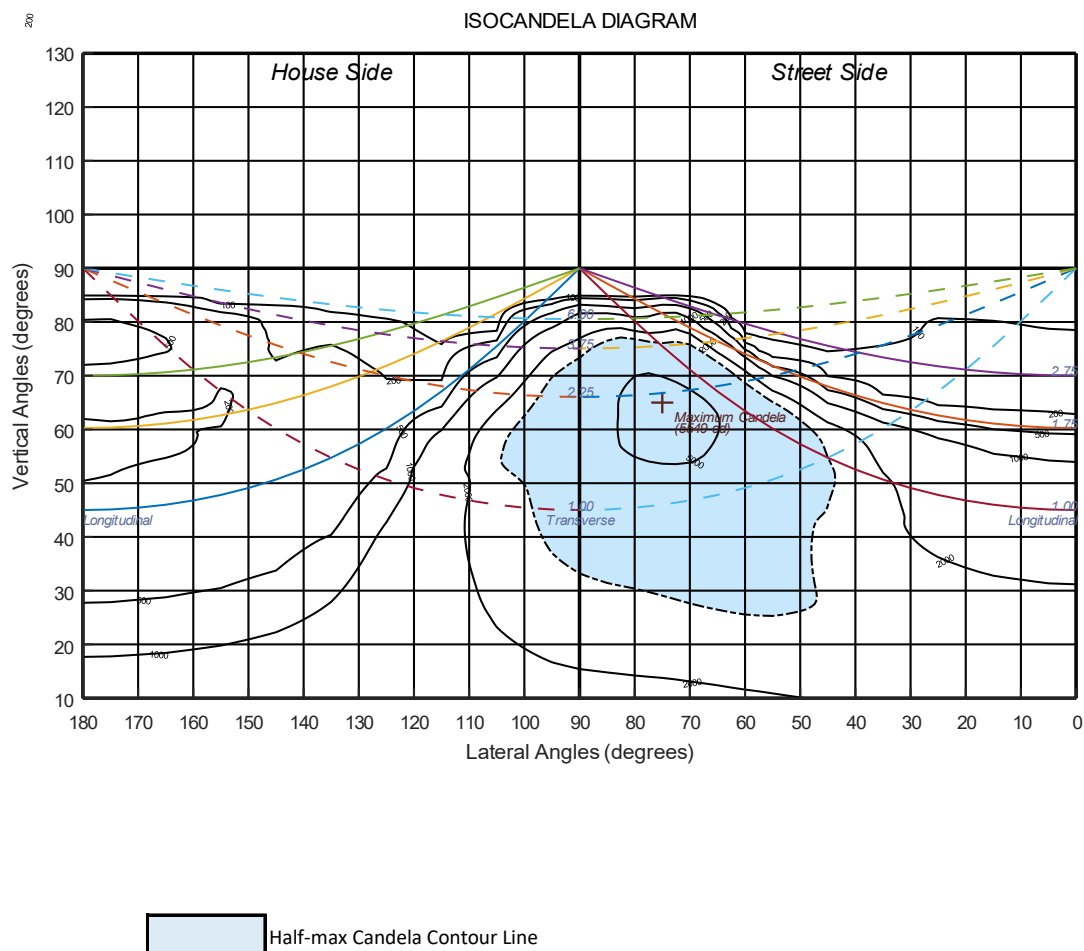
BUG Ratings: B2 - U0 - G2

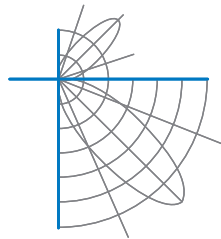


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Iso-Candela Plot



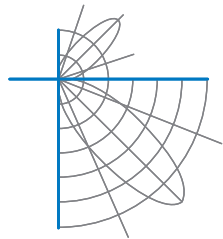


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Luminous Intensity (Candela) Table

		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	1835	1835	1835	1835	1835	1835	1835	1835	1835	1835	1835	1835	1835	1835	1835
	2.5	1861	1862	1861	1860	1859	1855	1851	1850	1849	1848	1848	1846	1846	1845	1844
	5	1918	1917	1912	1905	1895	1881	1871	1869	1867	1865	1864	1861	1859	1857	1856
	7.5	2027	2024	2014	1993	1967	1935	1908	1902	1897	1893	1889	1885	1881	1877	1874
	10	2164	2160	2148	2115	2072	2020	1971	1960	1951	1942	1933	1924	1917	1912	1906
	12.5	2302	2297	2280	2243	2194	2132	2063	2047	2032	2018	2004	1991	1980	1970	1961
	15	2397	2395	2384	2362	2324	2260	2183	2164	2143	2123	2104	2087	2072	2057	2045
	17.5	2442	2444	2445	2445	2431	2399	2327	2305	2280	2258	2233	2208	2188	2168	2153
	20	2412	2419	2447	2483	2517	2522	2477	2456	2435	2407	2378	2348	2321	2295	2274
	22.5	2278	2286	2338	2445	2562	2633	2633	2614	2589	2564	2534	2499	2464	2431	2403
	25	2153	2157	2208	2336	2539	2710	2759	2755	2742	2716	2688	2654	2615	2573	2539
	27.5	2102	2103	2133	2238	2463	2743	2875	2878	2873	2861	2835	2805	2766	2724	2683
	30	2055	2061	2110	2195	2394	2723	2964	2987	2994	2989	2978	2952	2918	2873	2829
	32.5	1914	1927	2017	2162	2358	2687	3026	3072	3102	3111	3109	3098	3070	3028	2982
	35	1705	1721	1846	2067	2335	2655	3069	3145	3196	3226	3236	3233	3217	3184	3133
	37.5	1537	1553	1679	1927	2287	2639	3095	3200	3279	3331	3359	3366	3359	3331	3287
	40	1417	1434	1562	1803	2213	2640	3119	3243	3348	3423	3470	3489	3487	3470	3434
	42.5	1324	1341	1479	1741	2161	2661	3156	3288	3407	3506	3572	3605	3611	3600	3571
	45	1271	1290	1429	1714	2159	2758	3263	3379	3496	3599	3677	3725	3738	3733	3708
	47.5	1214	1234	1382	1675	2128	2810	3408	3532	3656	3766	3848	3896	3905	3891	3864
	50	1154	1171	1306	1612	2082	2876	3596	3733	3863	3983	4078	4139	4157	4144	4115
	52.5	1074	1089	1189	1477	1972	2871	3871	4088	4285	4464	4614	4725	4781	4786	4744
	55	937	953	1031	1309	1834	2767	3878	4136	4381	4614	4820	4991	5109	5171	5183
	57.5	682	700	810	1107	1660	2650	3871	4160	4442	4708	4944	5138	5272	5356	5378
	60	417	428	504	746	1279	2319	3844	4173	4480	4775	5030	5226	5362	5452	5484
	62.5	212	225	256	375	732	1655	3524	3941	4335	4704	5015	5236	5382	5483	5526
	65	165	173	171	182	330	972	2813	3364	3865	4339	4764	5100	5338	5477	5549
	67.5	141	147	147	149	162	468	1886	2553	3145	3709	4234	4654	4989	5244	5400
	70	118	121	128	133	138	195	979	1623	2331	2997	3632	4113	4436	4702	4959
	72.5	118	117	110	120	124	129	337	672	1366	2076	2799	3445	3816	3950	4211
	75	129	130	130	107	104	95	123	167	458	1169	1738	2468	3084	3228	3218
	77.5	107	109	117	113	82	77	90	97	110	434	969	1441	2127	2379	2220
	80	87	89	103	110	57	67	60	63	68	131	414	734	1218	1585	1472
	82.5	46	47	56	59	36	38	35	36	36	54	152	320	508	732	746
	85	22	22	21	20	19	18	16	15	15	18	35	55	76	93	88
	87.5	3	3	4	4	4	4	3	3	3	3	3	3	3	4	4
	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

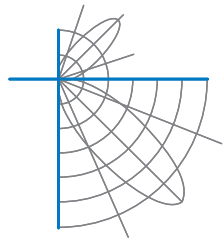


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Luminous Intensity (Candela) Table

		Lateral (C-Plane) Angles														
		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	1835	1835	1835	1835	1835	1835	1835	1835	1835	1835	1835	1835	1835	1835	1835
	2.5	1841	1839	1839	1838	1833	1832	1827	1817	1813	1803	1796	1790	1785	1780	1779
	5	1853	1850	1848	1846	1836	1832	1819	1794	1774	1747	1726	1705	1689	1680	1678
	7.5	1870	1866	1862	1860	1847	1840	1810	1766	1723	1671	1625	1590	1563	1550	1548
	10	1900	1894	1889	1886	1871	1857	1807	1737	1660	1583	1515	1459	1419	1402	1399
	12.5	1955	1947	1940	1934	1917	1893	1815	1706	1595	1487	1392	1333	1291	1269	1267
	15	2036	2027	2017	2007	1986	1950	1839	1683	1527	1391	1288	1212	1159	1134	1130
	17.5	2140	2128	2116	2104	2074	2027	1876	1674	1464	1307	1179	1097	1042	1012	1008
	20	2257	2241	2228	2214	2174	2117	1926	1670	1423	1221	1085	991	926	893	889
	22.5	2382	2363	2347	2330	2281	2211	1984	1672	1386	1150	991	877	800	762	757
	25	2511	2490	2471	2450	2395	2308	2040	1688	1356	1085	889	751	672	631	626
	27.5	2649	2621	2599	2576	2513	2410	2101	1705	1332	1013	773	629	550	514	510
	30	2788	2754	2728	2701	2627	2509	2155	1716	1308	929	655	517	458	430	426
	32.5	2933	2893	2862	2831	2742	2608	2204	1728	1276	835	545	436	390	370	368
	35	3081	3032	2994	2959	2857	2703	2256	1741	1234	732	459	375	341	327	325
	37.5	3230	3173	3127	3085	2968	2791	2298	1751	1178	626	385	325	305	298	297
	40	3380	3318	3262	3210	3073	2870	2331	1755	1105	518	324	295	287	282	281
	42.5	3520	3458	3394	3331	3166	2937	2353	1745	1010	408	289	276	270	259	257
	45	3657	3591	3516	3439	3250	2993	2365	1712	888	321	270	261	250	235	231
	47.5	3812	3735	3648	3559	3344	3056	2372	1644	743	271	259	254	240	219	213
	50	4054	3963	3862	3756	3508	3170	2407	1562	613	256	258	244	232	208	202
	52.5	4655	4520	4371	4212	3873	3458	2612	1552	511	258	258	237	221	195	187
	55	5137	5015	4840	4638	4216	3722	2686	1364	409	260	256	221	198	182	177
	57.5	5333	5209	5025	4801	4270	3694	2611	1217	339	264	255	208	191	183	173
	60	5434	5289	5065	4789	4184	3579	2441	987	270	268	253	202	197	187	172
	62.5	5489	5324	5065	4746	4067	3411	2149	688	232	269	245	195	191	216	213
	65	5521	5353	5068	4708	3926	3229	1789	430	219	266	234	192	240	294	299
	67.5	5421	5256	4946	4556	3695	3024	1370	262	209	261	225	198	331	401	408
	70	5098	4990	4682	4278	3345	2736	953	180	197	249	215	229	416	449	457
	72.5	4518	4594	4312	3883	2931	2357	608	143	179	231	202	254	423	512	528
	75	3489	3727	3646	3263	2420	1896	336	111	161	208	188	276	526	617	622
	77.5	2192	2419	2609	2440	1880	1336	140	82	142	178	174	332	491	586	585
	80	1291	1292	1524	1562	1352	778	66	62	116	138	171	279	423	518	515
	82.5	602	521	577	671	718	324	33	41	63	90	126	166	264	329	326
	85	71	61	65	74	79	37	12	15	21	23	13	50	68	88	91
	87.5	4	4	4	4	5	5	5	4	4	3	3	2	2	1	1
	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

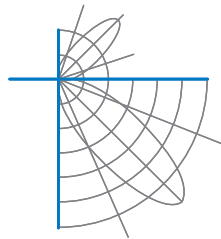


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Luminous Intensity (Candela) Table

		Lateral (C-Plane) Angles														
		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

LLIA001743-002A

Additional Pictures of Test Subject



Report of Test

LLIA001743-002A

Test Distance 9.5 m
Ambient Temperature 24.9 °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.

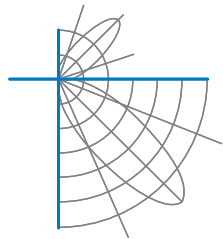
This report is free of erasures and corrections.

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

LLIA001743-002B

Integrating Sphere Report

Catalog Number: L6-16S-5-X-2ES-5-X-XX-4-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	0.4816 A
Power	57.13 W
Frequency	59.99 Hz
Power Factor	0.989
Current THD	2.8 %
Total Luminous Flux	8215.0 lm
Efficacy	143.8 lm/W
Chromaticity (x,y)	(0.3864, 0.3896)
(u',v')	(0.2239, 0.5080)
Duv	0.0042
CCT	3937 K
CRI (Ra)	70
R9	-47
TM-30: Rf	71
TM-30: Rg	93
TM-30: Rcs,h1	-19

Prepared For:

LED Roadway Lighting

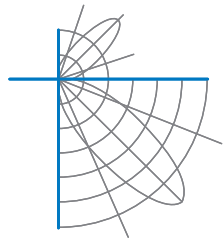
84 Chain Lake Drive

Suite 403

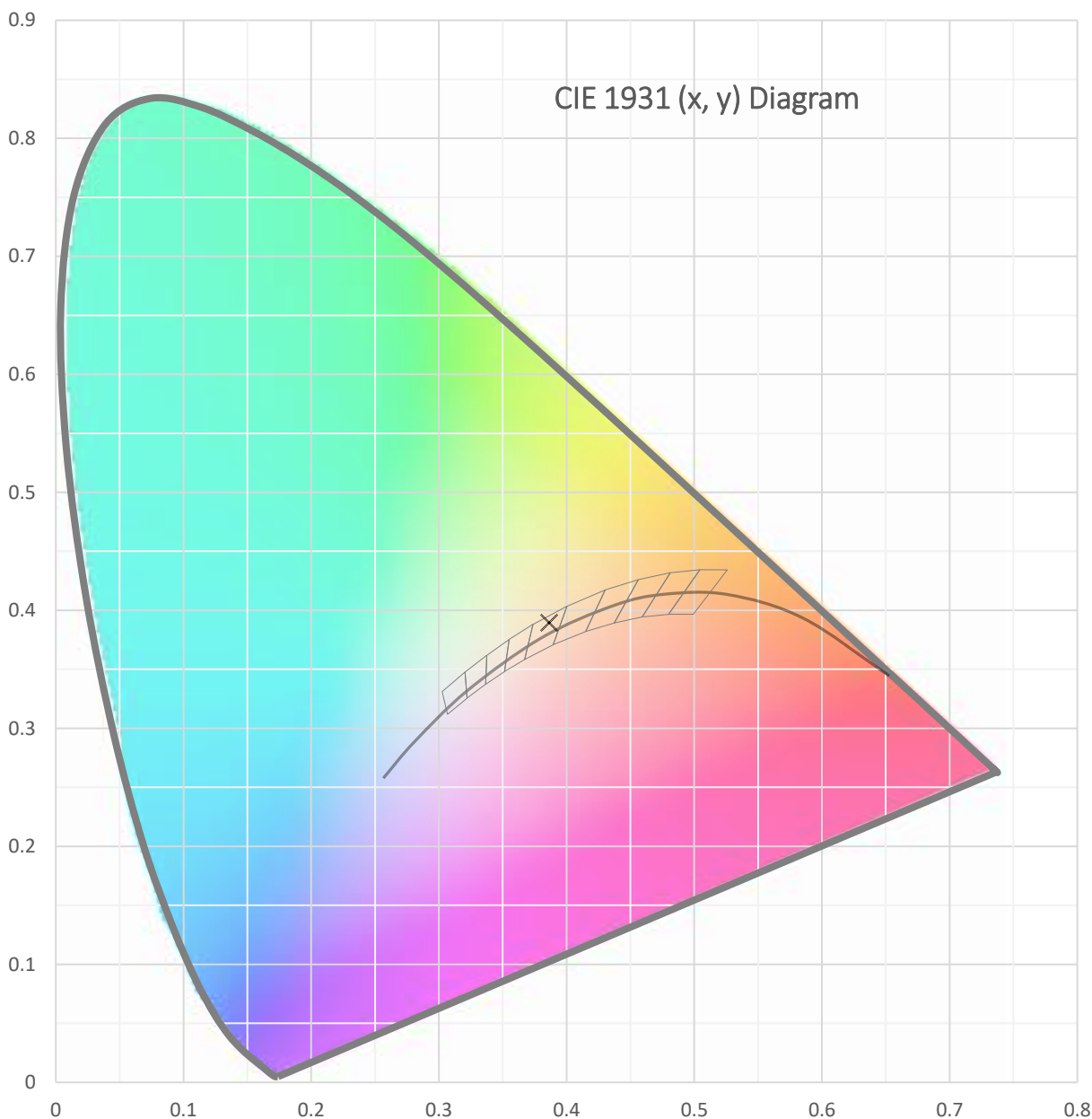
Halifax, Nova Scotia B3S 1A2, Canada

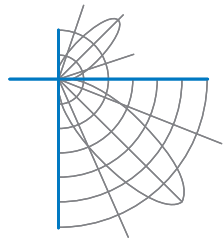
Test date: 05/02/2022

Report date: 05/02/2022

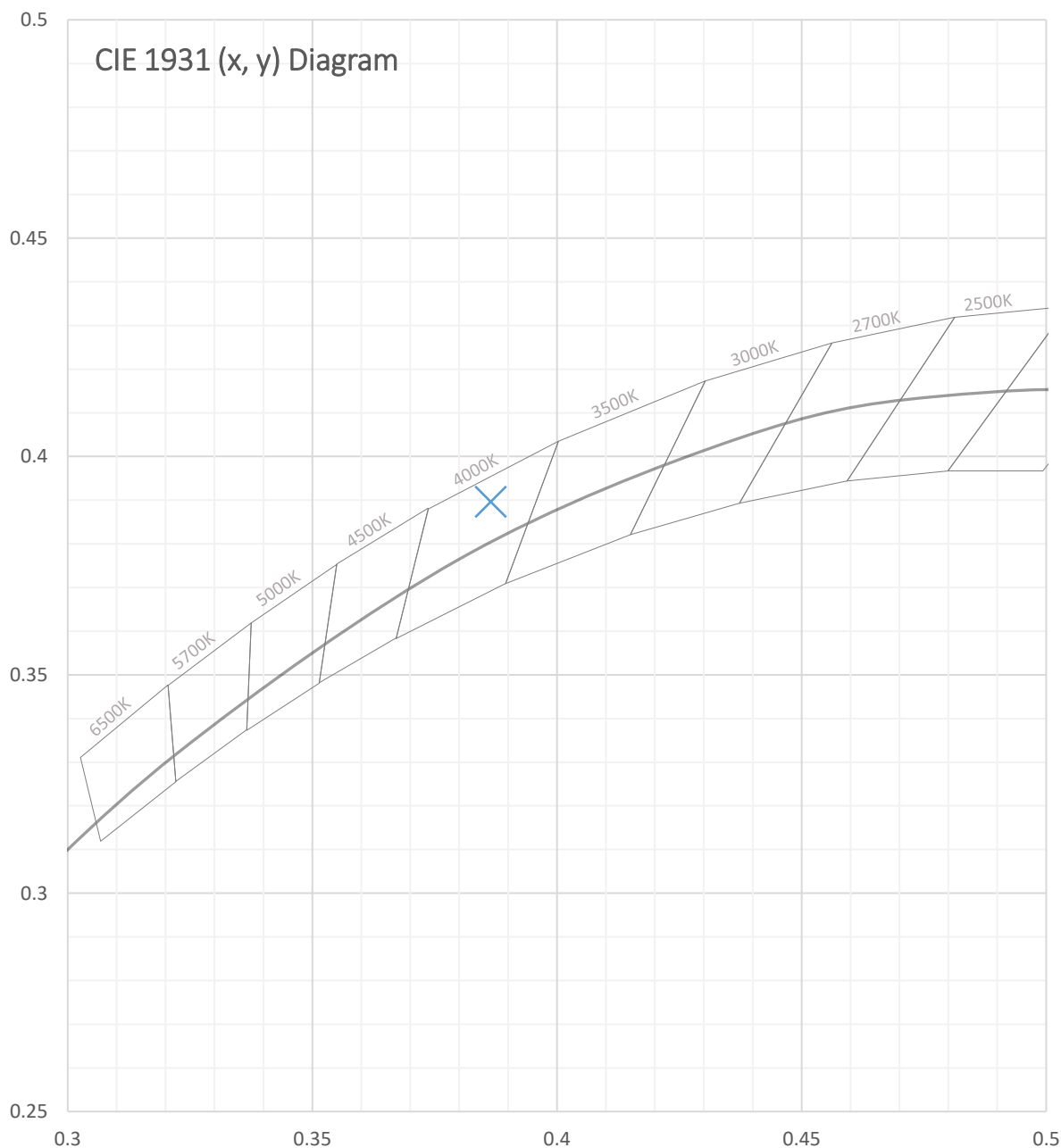


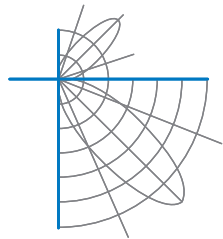
Test Report Number: LLIA001743-002B





Test Report Number: LLIA001743-002B



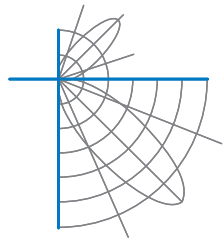


Test Report Number: LLIA001743-002B

Total Radiant Flux	23.18 W
Total Luminous Flux	8215.0 Lm
Chromaticity CIE 1931 (x, y)	(0.3864, 0.3896)
Chromaticity CIE 1976 (u', v')	(0.2239, 0.5080)
Correlated Color Temperature (CCT)	3937 K
Color Rendering Index (Ra)	70
R1	65
R2	77
R3	88
R4	69
R5	66
R6	69
R7	79
R8	46
R9	-47
R10	48
R11	66
R12	46
R13	67
R14	93
TM-30: Rf	71
TM-30: Rg	93
TM-30: Rcs,h1	-19
Distance from Planckian Locus (Duv)	0.0042
Scotopic/Photopic Ratio \neq	1.486

Electrical Data

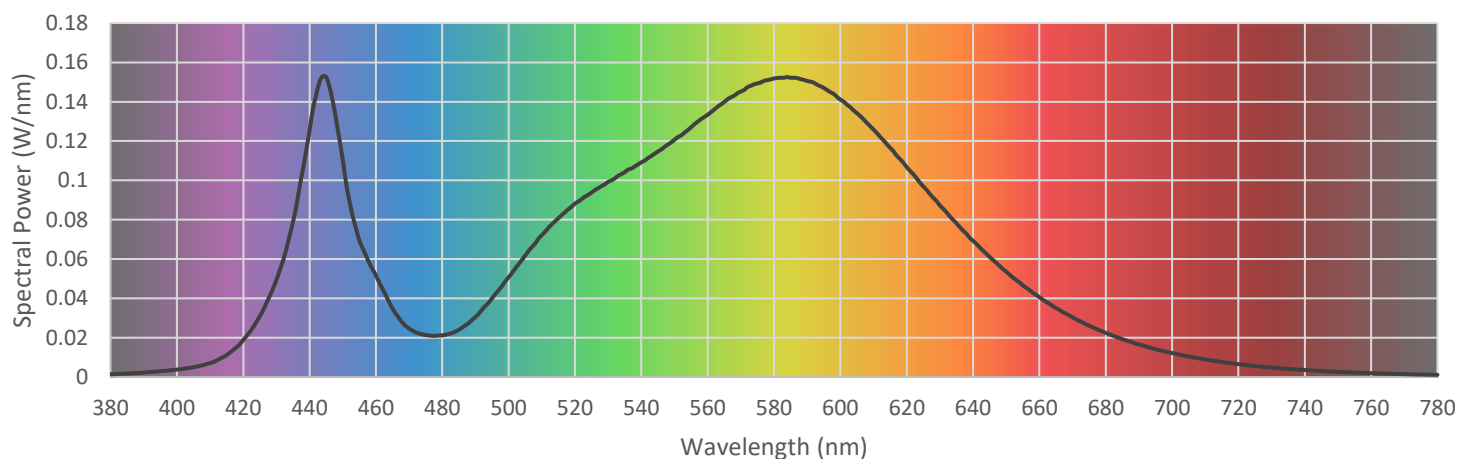
Voltage	120.0 Vac
Current	0.4816 A
Power	57.13 W
Frequency	59.99 Hz
Power Factor	0.989
Current THD	2.8 %

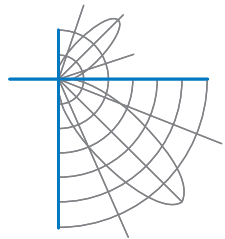


Test Report Number: LLIA001743-002B

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

380	0.001452	480	0.021235	580	0.151816	680	0.022467
385	0.001784	485	0.024029	585	0.152174	685	0.019331
390	0.002273	490	0.030602	590	0.150551	690	0.016589
395	0.003006	495	0.040076	595	0.147021	695	0.014192
400	0.003815	500	0.050800	600	0.141095	700	0.012218
405	0.005002	505	0.061832	605	0.134138	705	0.010451
410	0.007081	510	0.072226	610	0.125793	710	0.008950
415	0.011195	515	0.080810	615	0.116525	715	0.007675
420	0.018868	520	0.088249	620	0.106754	720	0.006573
425	0.030997	525	0.093792	625	0.096945	725	0.005630
430	0.049415	530	0.099224	630	0.087261	730	0.004844
435	0.078965	535	0.104196	635	0.078179	735	0.004145
440	0.125550	540	0.109166	640	0.069276	740	0.003565
445	0.152516	545	0.114690	645	0.061071	745	0.003083
450	0.110380	550	0.120683	650	0.053595	750	0.002658
455	0.069427	555	0.126974	655	0.046654	755	0.002290
460	0.051637	560	0.133374	660	0.040650	760	0.001988
465	0.034768	565	0.139843	665	0.035117	765	0.001718
470	0.024686	570	0.145189	670	0.030318	770	0.001489
475	0.021340	575	0.149327	675	0.026142	775	0.001296
						780	0.001126





Test Report Number: LLIA001743-002B

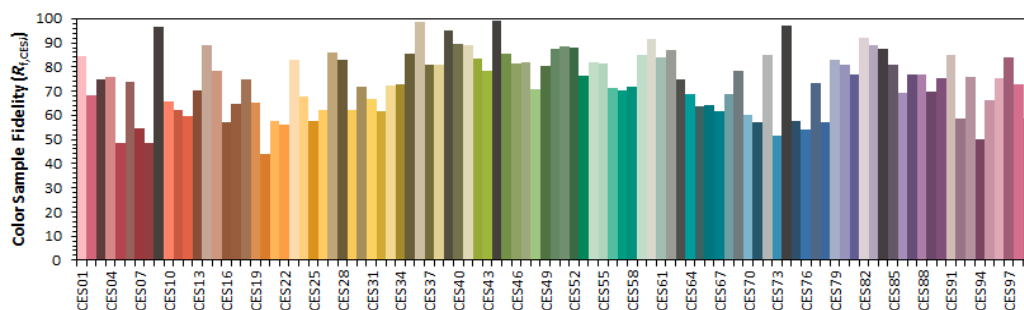
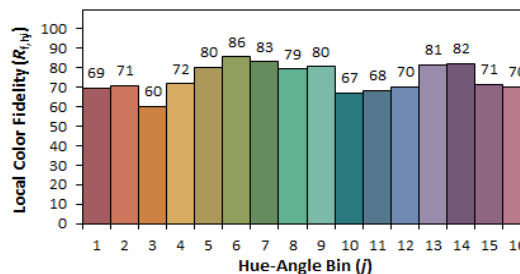
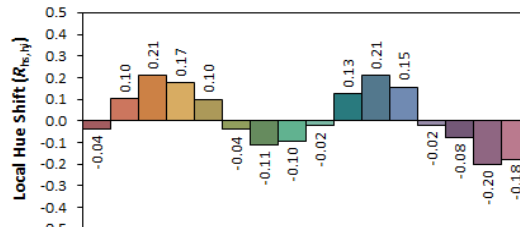
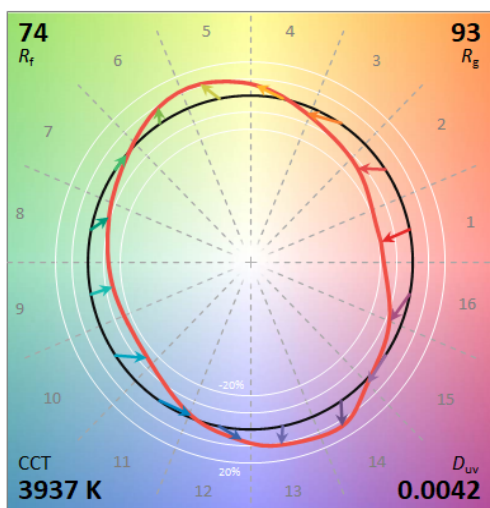
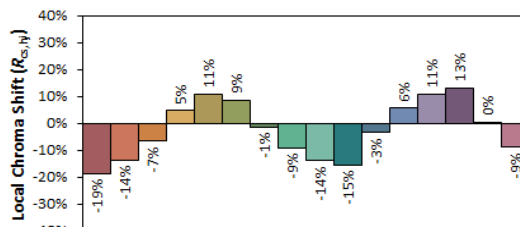
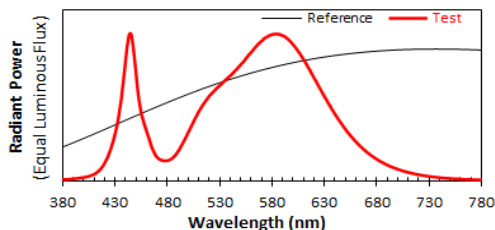
IES TM-30 Details

Source: LLIA001743-002B

Manufacturer: LED Roadway Lighting

Date: 5/2/2022

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



Notes:

x 0.3864
y 0.3895
u' 0.2240
v' 0.5080

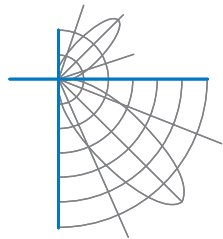
CIE 13.3-1995
(CRI)

R_a 70
R_g -47

Test Report Number: LLIA001743-002B

Test Equipment Configuration:	LightLab International Allentown 2m Integrating Sphere Measurements acquired using a Labsphere CDS 2600 spectroradiometer Testing was performed using 4 π geometry
Test Temperature:	24.9 °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

LLIA001743-002C

Electrical Test Report

Catalog Number: L6-16S-5-X-2ES-5-X-XX-4-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	277.0 Vac
Current	0.2218 A
Power	56.78 W
Frequency	60.00 Hz
Power Factor	0.924
Current THD	5.4 %
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: 05/02/2022

Report date: 05/02/2022

Electrical Report Template V1-4