LightLab INTERNATIONAL ALLENTOWN LLC

NVLAP TESTING Lab Code: 201079-0

Report of Test

LLIA001821-005A

Roadway/Area Light Distribution Photometry Test Report

Catalog Number: L6-16S-5-X-2ES-T-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 800mA, 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	6274.9	Lumens
Input Current	0.3757	A	Total Efficacy	141.8	Lm/W
Input Power	44.25	W			
Frequency	60.00	Hz	Roadway Throw	Short	
Power Factor	0.982		Roadway Type	Type II	
Current THD	6.1	%	IES BUG Rating	B1 - U0 - G1	

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: Michael L. Grather

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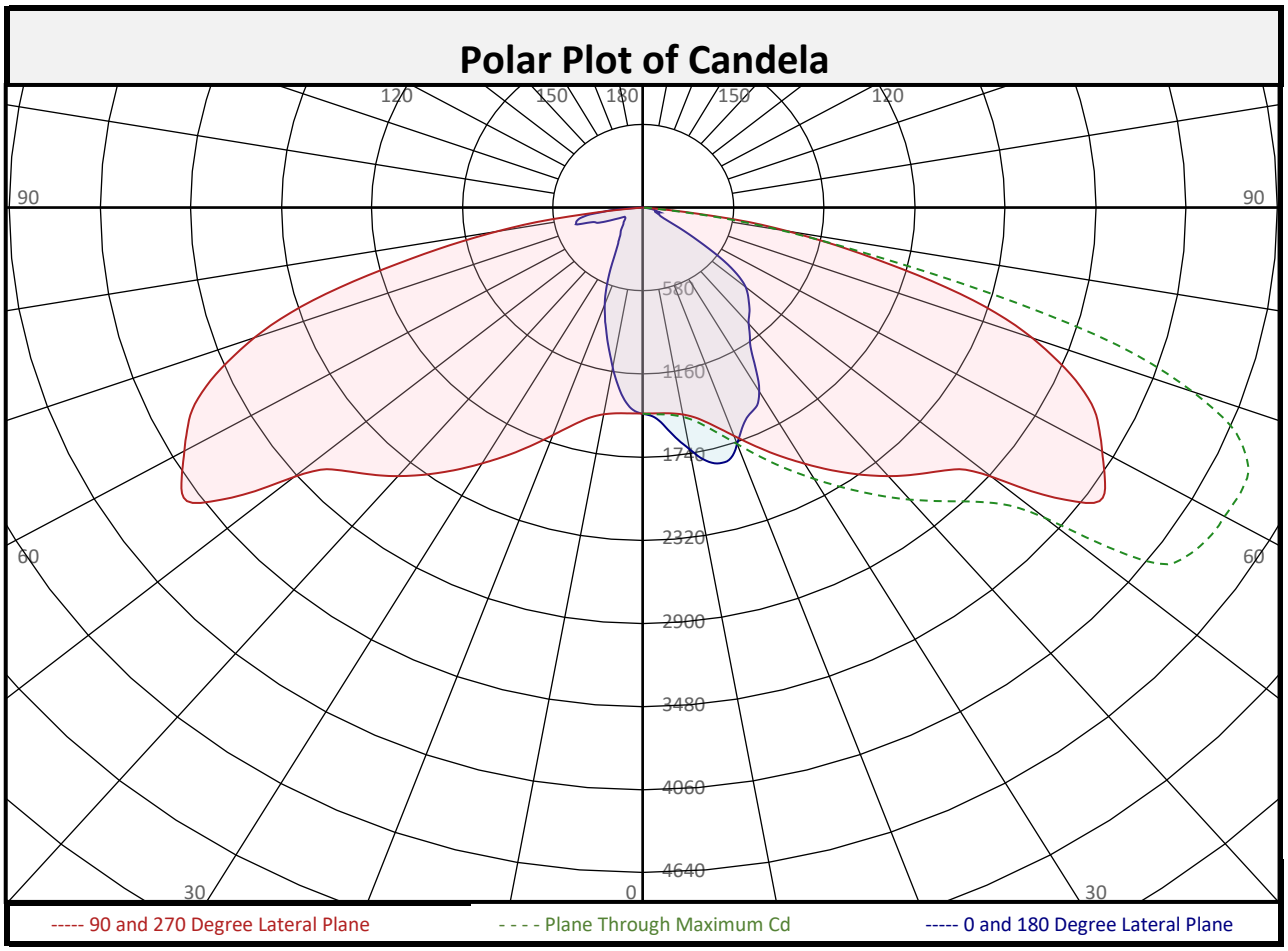

Zonal Flux Summary									
Zone (Deg Vert)	Flux (Lumens)	Percent of Total	Zone (Deg Vert)	Flux (Lumens)	Percent of Total	Zone (Deg Vert)	Flux (Lumens)	Percent of Total
0-10	137.2	2.2%	90-100	0.0	0.0%	0-20	548.7	8.7%
10-20	411.5	6.6%	100-110	0.0	0.0%	0-30	1218	19.4%
20-30	669.7	10.7%	110-120	0.0	0.0%	0-40	2109	33.6%
30-40	890.4	14.2%	120-130	0.0	0.0%	0-60	4587	73.1%
40-50	1112	17.7%	130-140	0.0	0.0%	0-80	6200	98.8%
50-60	1367	21.8%	140-150	0.0	0.0%	10-90	6138	97.8%
60-70	1065	17.0%	150-160	0.0	0.0%	20-50	2672	42.6%
70-80	547.6	8.7%	160-170	0.0	0.0%	40-90	4166	66.4%
80-90	75.2	1.2%	170-180	0.0	0.0%	60-90	1688	26.9%
0-90	6275	100.0%	90-180	0.0	0.0%	0-180	6275	100.0%

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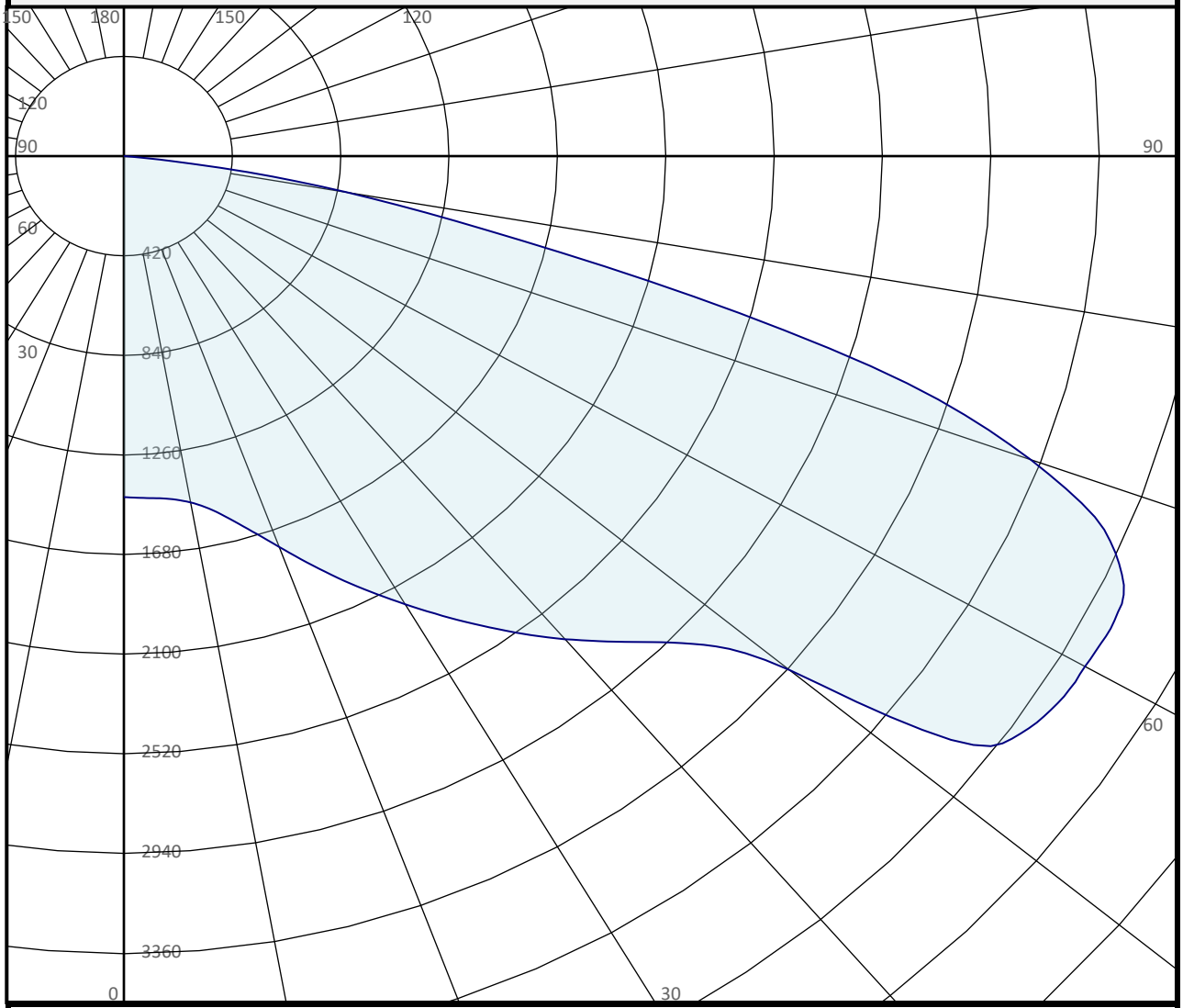
Plane of Maximum Candela



Plot of candela values through the plane of maximum candela (77.5 degrees Lateral)

Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	4287.5	68.3%	0.0	0.0%	4287.5	68.3%
House Side	1987.3	31.7%	0.0	0.0%	1987.3	31.7%
Total	6274.9	100.0%	0.0	0.0%	6274.9	100.0%

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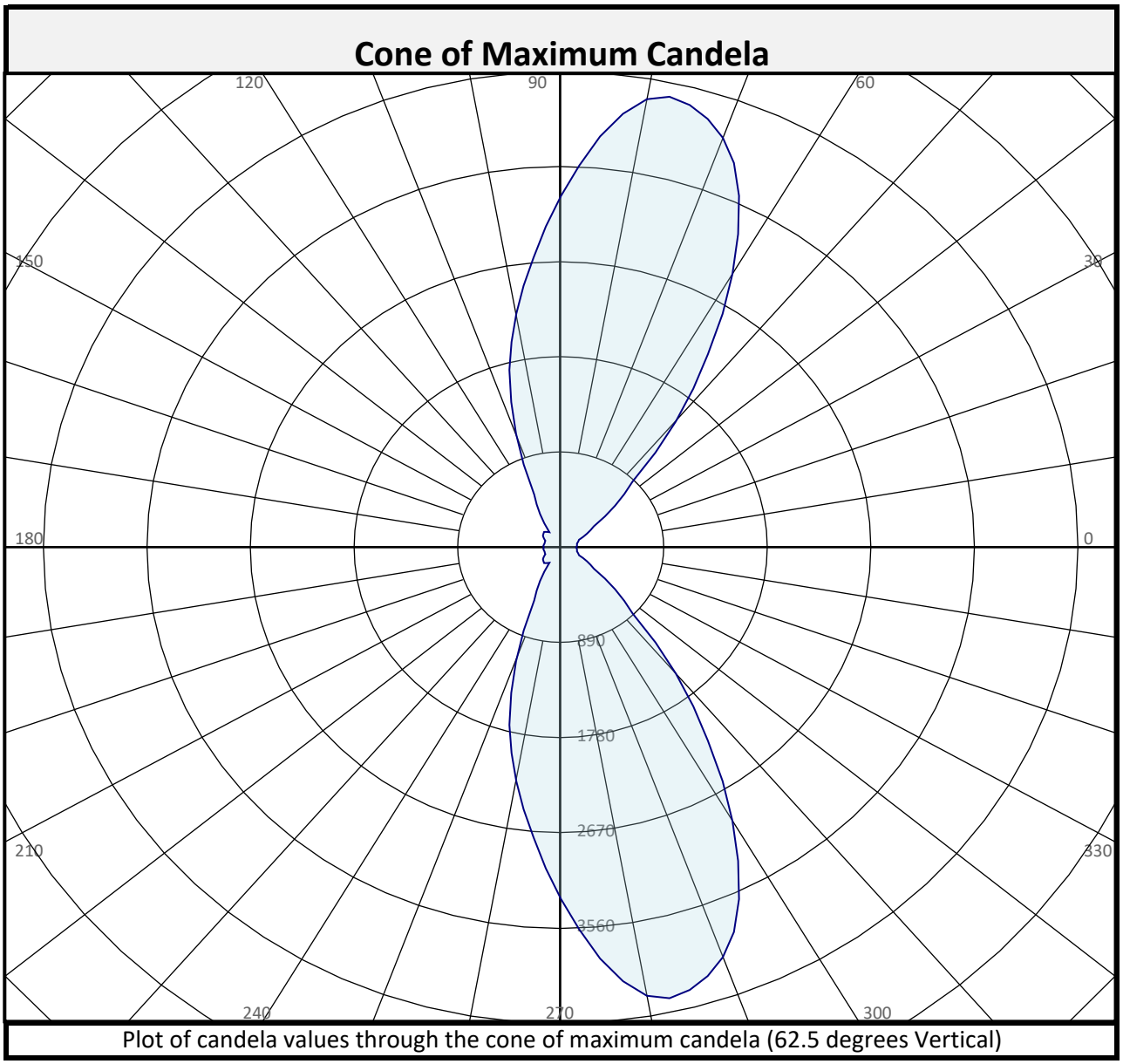

Plot of candela values through the cone of maximum candela (62.5 degrees Vertical)

Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	4287.5	68.3%	0.0	0.0%	4287.5	68.3%
House Side	1987.3	31.7%	0.0	0.0%	1987.3	31.7%
Total	6274.9	100.0%	0.0	0.0%	6274.9	100.0%

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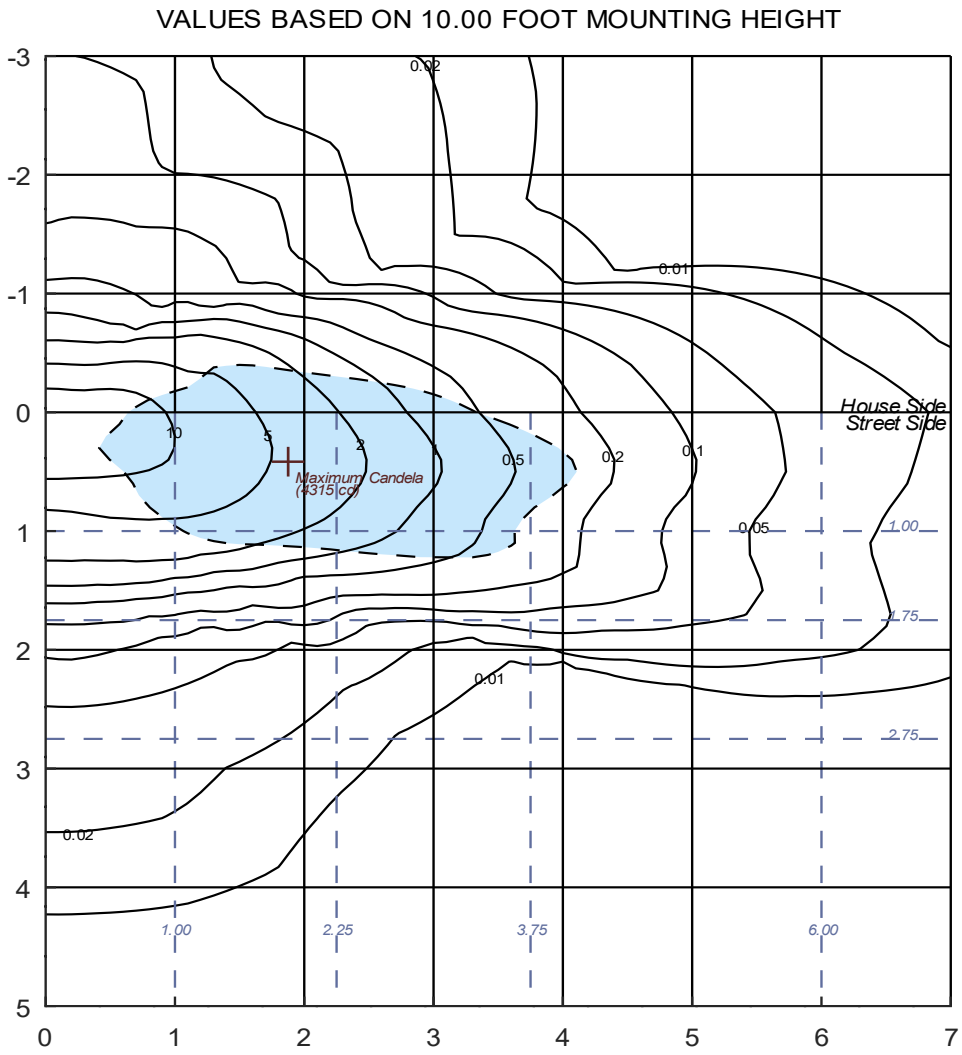
Iso-Illuminance Plot



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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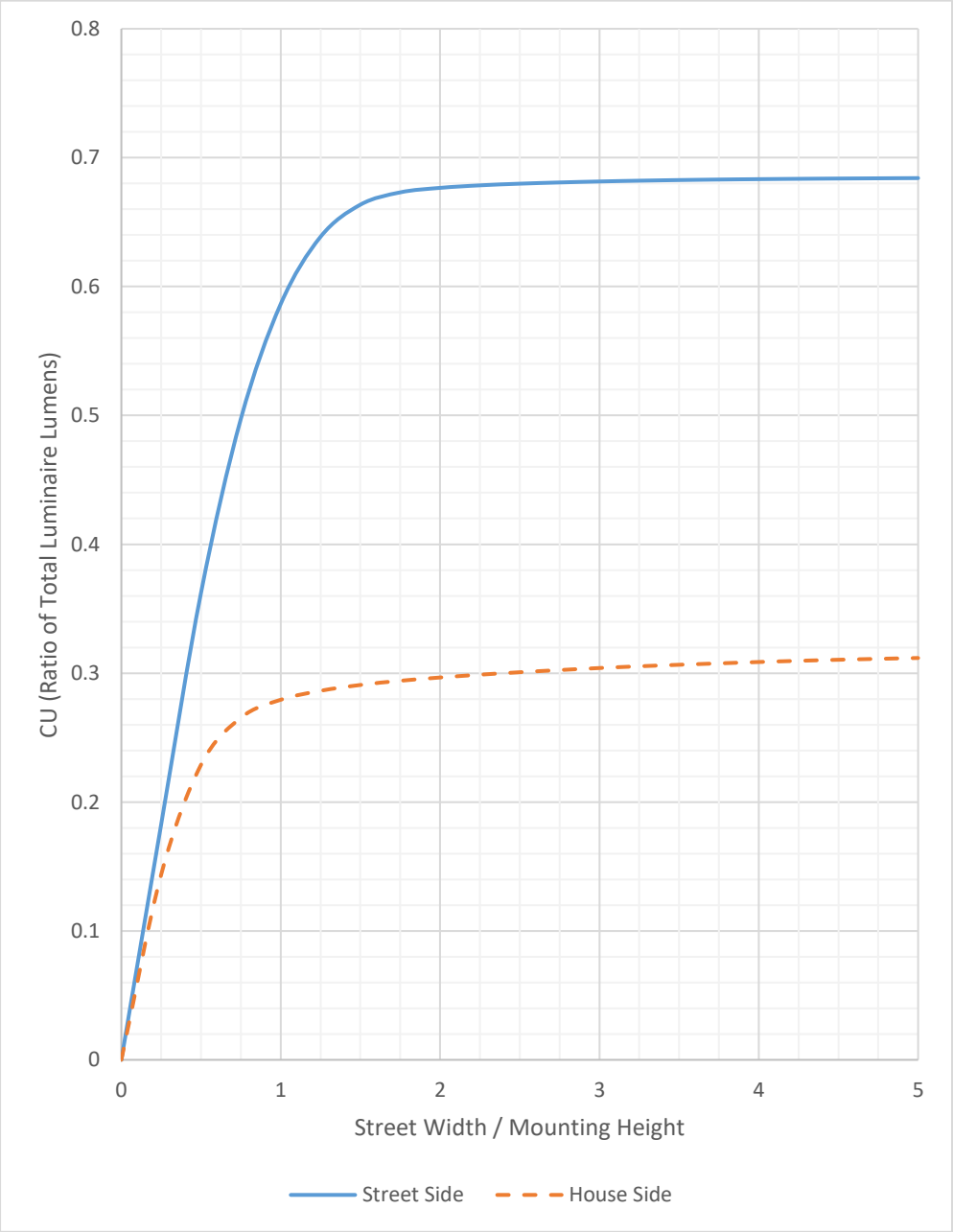
Coefficients of Utilization Plot



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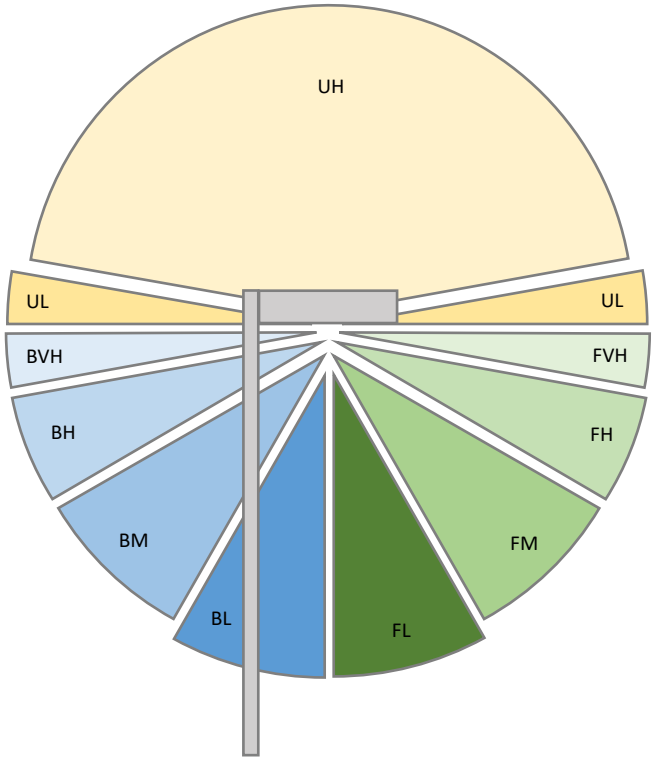
LCS Tables and Bug Classification



Back Light	
BL - Back Low (0°-30°)	462.0 Lm
BM - Back Mid (30°-60°)	987.8 Lm
BH - Back High (60°-80°)	495.1 Lm
BVH - Back Very High (80°-90°)	42.4 Lm

Forward Light	
FL - Forward Low (0°-30°)	756.4 Lm
FM - Forward Mid (30°-60°)	2381.0 Lm
FH - Forward High (60°-80°)	1117.4 Lm
FVH - Forward Very High (80°-90°)	32.8 Lm

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

BUG Ratings: B1 - U0 - G1

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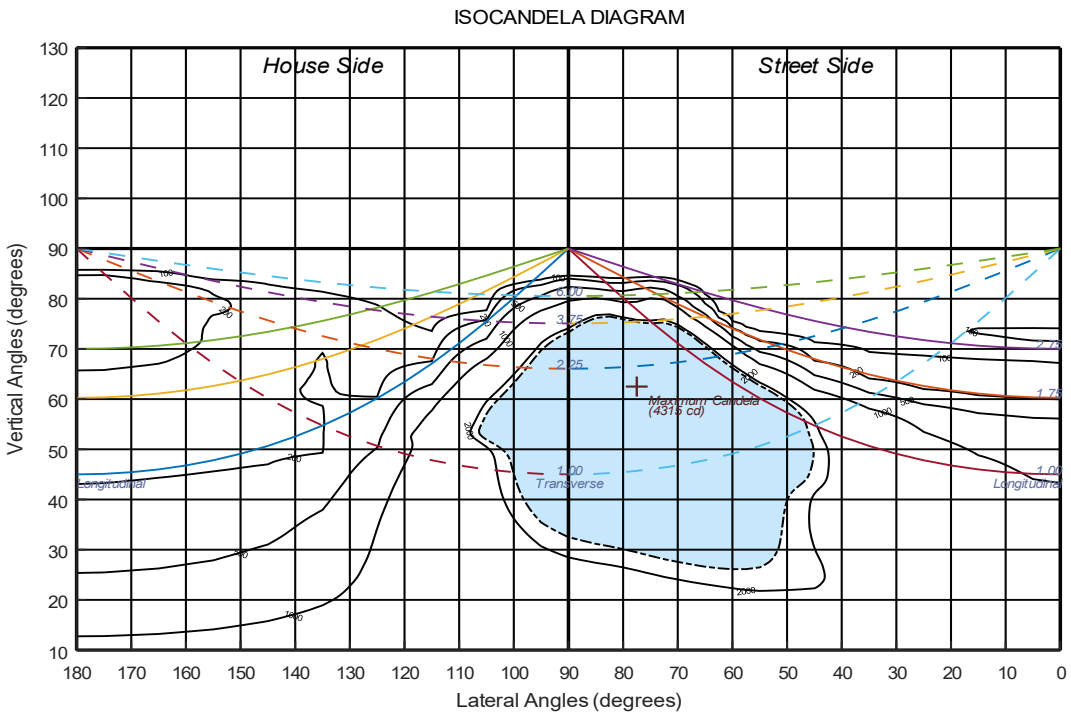
Iso-Candela Plot



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Luminous Intensity (Candela) Table

Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	Lateral (C-Plane) Angles														
	0	5	15	25	35	45	55	57.5	60	62.5	65	67.5	70	72.5	75
0	1438	1438	1438	1438	1438	1438	1438	1438	1438	1438	1438	1438	1438	1438	1438
2.5	1456	1456	1456	1454	1453	1451	1447	1446	1446	1445	1445	1444	1444	1444	1443
5	1519	1518	1513	1502	1490	1479	1466	1463	1459	1457	1456	1453	1453	1452	1450
7.5	1616	1615	1606	1589	1566	1536	1504	1496	1487	1481	1477	1472	1469	1466	1463
10	1707	1705	1694	1674	1648	1610	1565	1552	1537	1525	1515	1506	1499	1493	1487
12.5	1797	1795	1785	1762	1729	1689	1639	1624	1608	1591	1575	1560	1549	1540	1530
15	1847	1845	1842	1833	1816	1773	1723	1709	1691	1674	1656	1638	1621	1607	1594
17.5	1844	1845	1856	1868	1878	1867	1818	1804	1789	1771	1753	1734	1714	1695	1676
20	1763	1769	1804	1857	1913	1945	1925	1912	1895	1878	1860	1840	1818	1796	1771
22.5	1665	1670	1708	1788	1909	2004	2027	2022	2008	1991	1973	1953	1930	1906	1879
25	1602	1605	1633	1712	1860	2033	2113	2119	2115	2102	2086	2065	2043	2019	1990
27.5	1571	1573	1597	1663	1807	2027	2184	2200	2207	2206	2196	2177	2154	2130	2101
30	1494	1501	1554	1640	1771	2003	2234	2268	2289	2300	2300	2290	2268	2243	2212
32.5	1359	1371	1453	1591	1753	1984	2267	2323	2361	2386	2399	2397	2384	2361	2330
35	1214	1229	1324	1501	1729	1970	2292	2367	2428	2470	2495	2503	2497	2480	2450
37.5	1129	1141	1226	1403	1685	1968	2312	2404	2483	2546	2586	2604	2607	2597	2572
40	1057	1070	1168	1345	1646	1980	2340	2440	2532	2610	2668	2700	2712	2708	2689
42.5	1012	1025	1128	1340	1658	2048	2406	2501	2593	2678	2748	2794	2816	2821	2804
45	967	982	1095	1314	1645	2115	2549	2641	2724	2801	2864	2910	2933	2940	2927
47.5	918	932	1039	1268	1611	2141	2667	2773	2868	2959	3036	3088	3111	3110	3089
50	863	873	957	1173	1537	2147	2853	2995	3114	3225	3328	3400	3435	3440	3421
52.5	763	773	840	1051	1439	2088	2958	3176	3379	3574	3761	3918	4028	4094	4102
55	600	612	693	911	1325	2021	2914	3141	3366	3578	3774	3954	4095	4193	4242
57.5	385	395	471	685	1089	1841	2890	3133	3368	3590	3799	3979	4119	4220	4285
60	198	205	254	380	696	1406	2690	2984	3270	3541	3782	3969	4108	4211	4284
62.5	129	137	143	171	345	871	2204	2590	2952	3302	3626	3890	4074	4200	4281
65	116	121	117	118	150	469	1529	2010	2440	2852	3254	3610	3887	4093	4220
67.5	98	100	103	105	107	209	879	1333	1844	2322	2790	3184	3494	3754	3976
70	85	86	88	94	98	118	401	680	1192	1738	2283	2755	3053	3242	3485
72.5	115	112	92	85	86	86	137	226	501	1042	1583	2202	2666	2801	2885
75	92	93	92	84	72	64	81	88	127	423	880	1365	1959	2229	2180
77.5	77	77	82	83	53	54	59	63	67	102	412	697	1211	1591	1535
80	46	47	57	68	36	44	38	39	41	51	139	350	595	960	1024
82.5	23	23	25	32	22	22	21	21	21	24	53	124	229	367	433
85	12	12	12	11	11	10	8	8	8	8	12	18	25	33	35
87.5	0	0	0	0	0	0	1	1	1	1	1	2	2	2	2
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Report of Test

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Luminous Intensity (Candela) Table

Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	Lateral (C-Plane) Angles														
	77.5	80	82.5	85	90	95	105	115	125	135	145	155	165	175	180
0	1438	1438	1438	1438	1438	1438	1438	1438	1438	1438	1438	1438	1438	1438	1438
2.5	1442	1442	1440	1440	1436	1436	1434	1431	1428	1424	1421	1418	1413	1411	1411
5	1448	1448	1445	1444	1439	1437	1430	1421	1407	1392	1377	1363	1352	1345	1346
7.5	1459	1459	1456	1453	1447	1442	1427	1405	1372	1339	1305	1275	1253	1242	1242
10	1483	1479	1476	1471	1464	1454	1427	1382	1327	1268	1215	1172	1144	1126	1125
12.5	1522	1516	1511	1506	1495	1479	1434	1360	1272	1192	1119	1063	1030	1012	1010
15	1583	1573	1566	1560	1545	1523	1451	1340	1218	1110	1026	967	928	909	906
17.5	1661	1648	1639	1631	1611	1583	1480	1328	1165	1037	942	875	837	814	811
20	1752	1736	1724	1713	1690	1653	1517	1327	1123	971	866	792	746	722	719
22.5	1854	1835	1819	1807	1778	1730	1561	1328	1095	914	792	709	653	624	620
25	1962	1938	1919	1904	1870	1812	1609	1334	1071	859	718	613	550	519	515
27.5	2070	2043	2022	2004	1964	1895	1660	1346	1053	809	630	515	452	420	416
30	2182	2153	2128	2108	2059	1977	1707	1357	1035	750	538	421	370	346	343
32.5	2298	2267	2238	2215	2157	2061	1753	1367	1017	679	445	352	314	297	295
35	2416	2384	2350	2323	2255	2143	1798	1378	991	601	372	302	280	266	265
37.5	2538	2503	2466	2432	2351	2221	1837	1391	952	515	313	265	246	238	237
40	2659	2623	2582	2542	2444	2294	1865	1400	898	429	267	235	227	222	222
42.5	2776	2738	2695	2649	2529	2356	1885	1398	830	340	230	216	212	206	205
45	2898	2859	2809	2752	2610	2414	1898	1380	735	267	210	203	196	187	185
47.5	3050	3001	2940	2869	2702	2473	1910	1337	623	216	198	194	186	173	169
50	3372	3309	3233	3139	2924	2637	1966	1285	512	197	193	188	180	166	161
52.5	4043	3927	3790	3635	3321	2963	2224	1348	437	195	195	181	172	155	149
55	4245	4187	4076	3923	3567	3134	2256	1182	346	195	193	171	156	143	139
57.5	4294	4236	4110	3940	3504	3014	2134	1017	272	198	194	160	146	139	133
60	4304	4244	4095	3894	3393	2869	1961	804	209	202	195	156	153	147	132
62.5	4315	4254	4088	3856	3286	2718	1717	546	174	206	190	149	147	153	147
65	4279	4215	4028	3771	3144	2569	1422	334	163	205	181	145	162	186	186
67.5	4115	4086	3887	3598	2922	2379	1078	202	156	204	174	144	210	242	245
70	3743	3838	3680	3369	2648	2129	727	138	148	198	165	160	263	304	312
72.5	3185	3408	3331	3004	2296	1845	456	110	137	185	156	175	294	329	336
75	2288	2549	2677	2476	1821	1465	254	86	122	169	146	178	343	443	449
77.5	1440	1542	1783	1781	1349	1027	107	64	109	147	137	221	364	438	439
80	877	822	941	1029	931	587	50	47	91	115	123	217	330	405	405
82.5	379	307	310	378	471	232	25	34	57	82	105	158	256	316	310
85	31	26	28	36	48	27	9	14	21	26	34	58	122	185	177
87.5	2	2	2	3	3	3	3	4	4	5	4	4	5	6	5
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Report of Test

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Luminous Intensity (Candela) Table

Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	Lateral (C-Plane) Angles														
	0	5	15	25	35	45	55	57.5	60	62.5	65	67.5	70	72.5	75
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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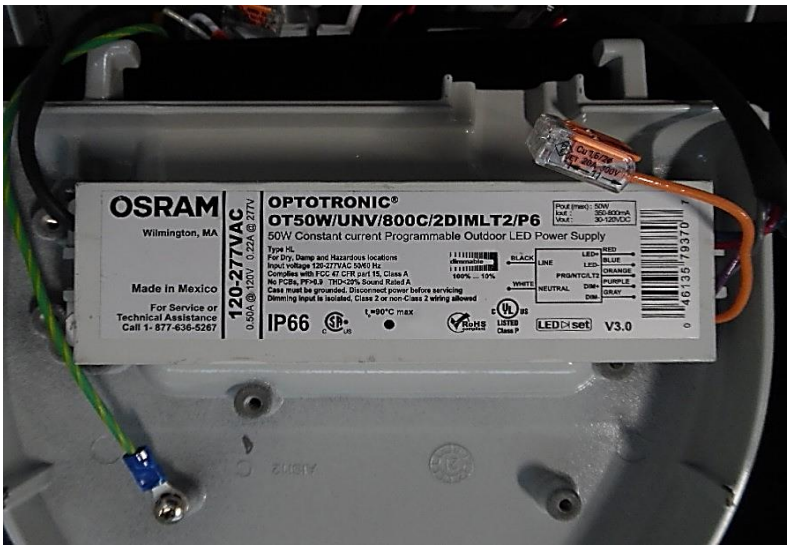
Luminous Intensity (Candela) Table

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

LLIA001821-005A

Additional Pictures of Test Subject



Report of Test

LLIA001821-005A

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.

LightLab INTERNATIONAL ALLENTOWN LLC

NVLAP TESTING Lab Code: 201079-0

Report of Test

LLIA001821-005B

Integrating Sphere Report

Catalog Number: L6-16S-5-X-2ES-T-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 800mA, Littlefuse LSP10277SBX3472 suppressor.

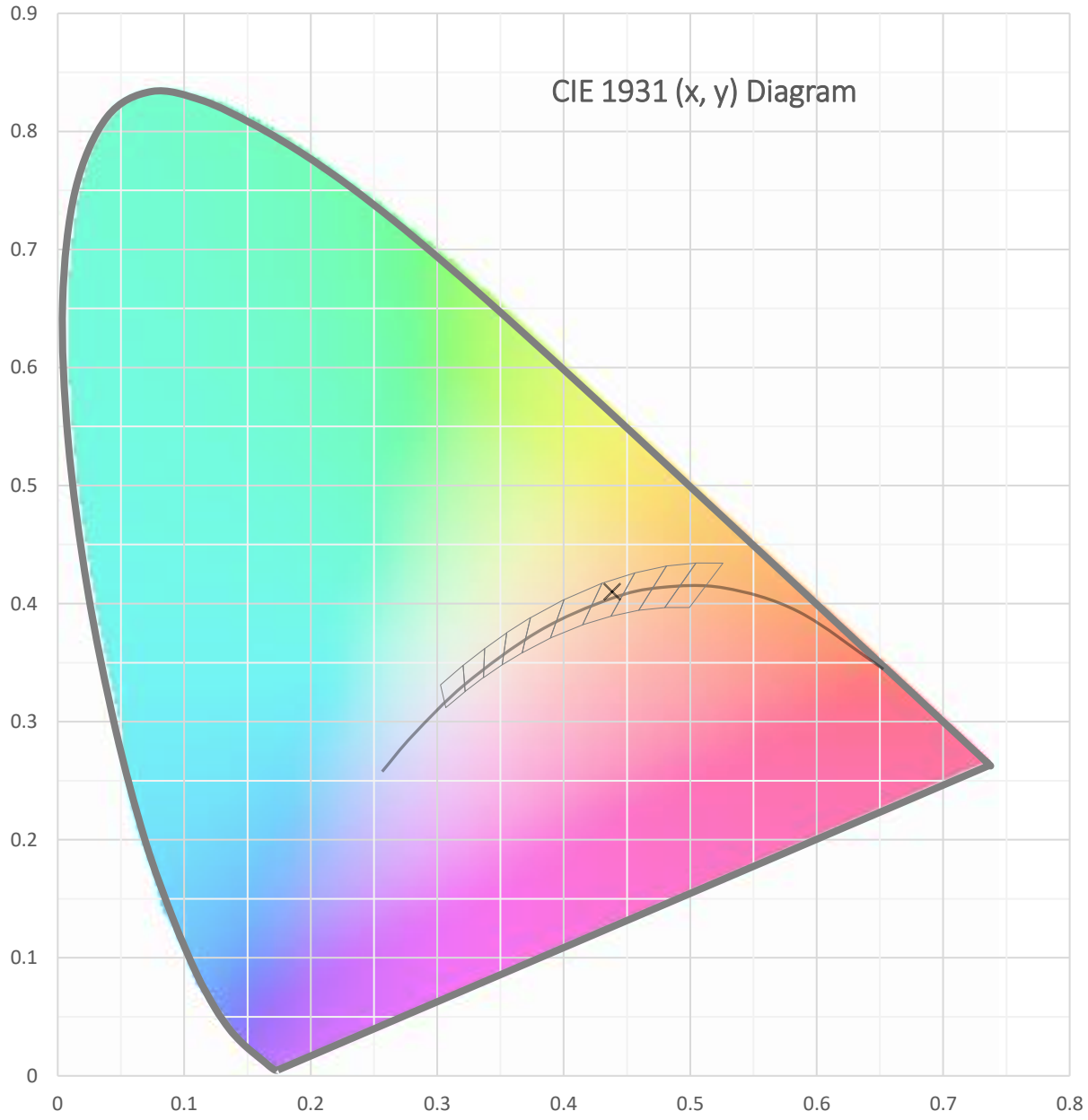
Performance Summary

Voltage	120.0	Vac
Current	0.3731	A
Power	44.19	W
Frequency	59.99	Hz
Power Factor	0.987	
Current THD	5.8	%
Total Luminous Flux	6290.9	lm
Efficacy	142.4	lm/W
Chromaticity (x,y)	(0.4382, 0.4099)	
(u',v')	(0.2489, 0.5238)	
Duv	0.0021	
CCT	3026	K
CRI (Ra)	71	
R9	-44	
TM-30: Rf	72	
TM-30: Rg	93	
TM-30: Rcs,h1	-18	

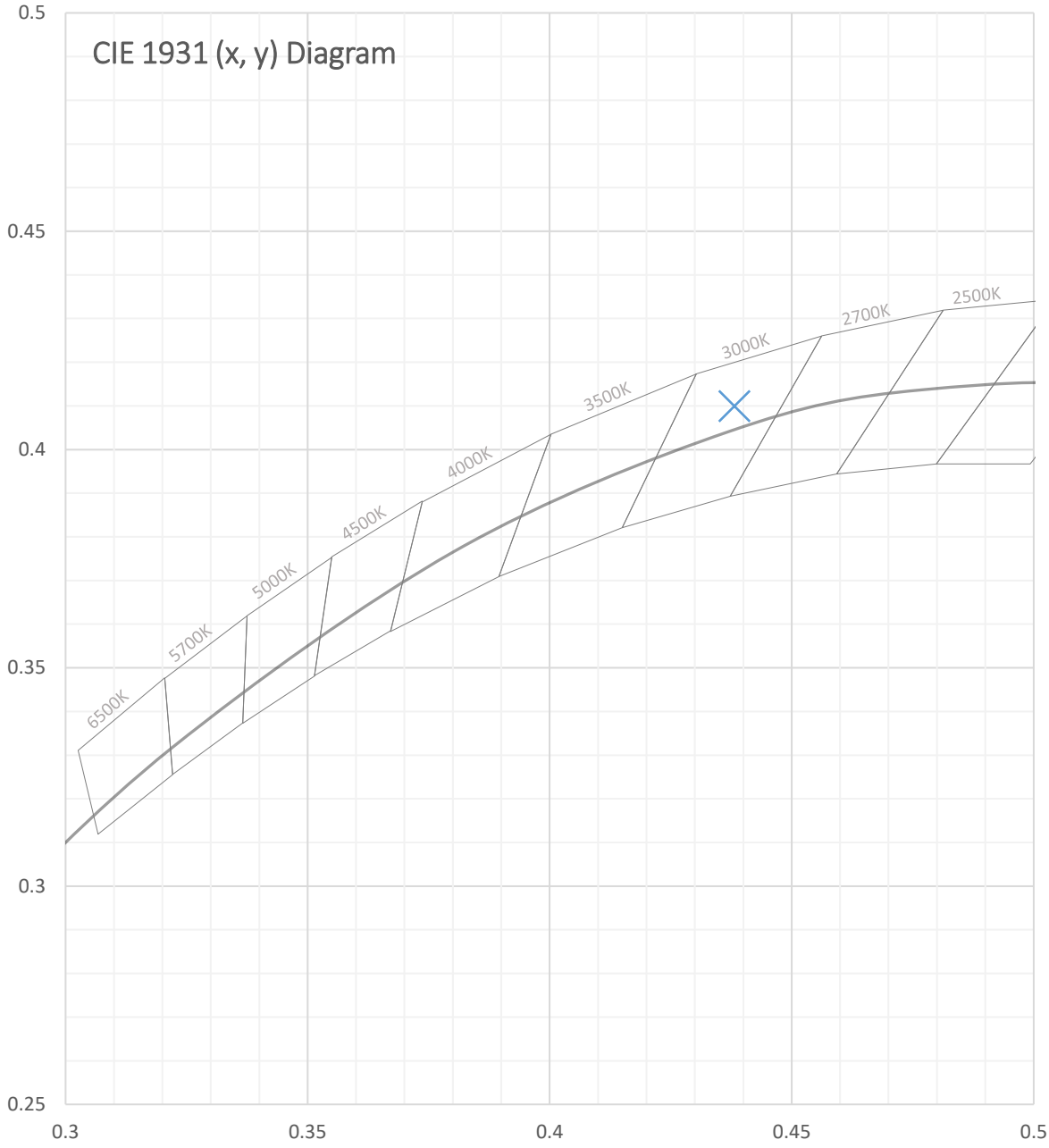
Prepared For:
LED Roadway Lighting
84 Chain Lake Drive
Suite 403
Halifax, Nova Scotia B3S 1A2, Canada

Test date: 07/29/2022
Report date: 07/29/2022

Test Report Number: LLIA001821-005B



Test Report Number: LLIA001821-005B



Test Report Number: LLIA001821-005B

Total Radiant Flux	17.61	W
Total Luminous Flux	6290.9	Lm
Chromaticity CIE 1931 (x, y)	(0.4382, 0.4099)	
Chromaticity CIE 1976 (u', v')	(0.2489, 0.5238)	
Correlated Color Temperature (CCT)	3026	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	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 ǂ	1.211	

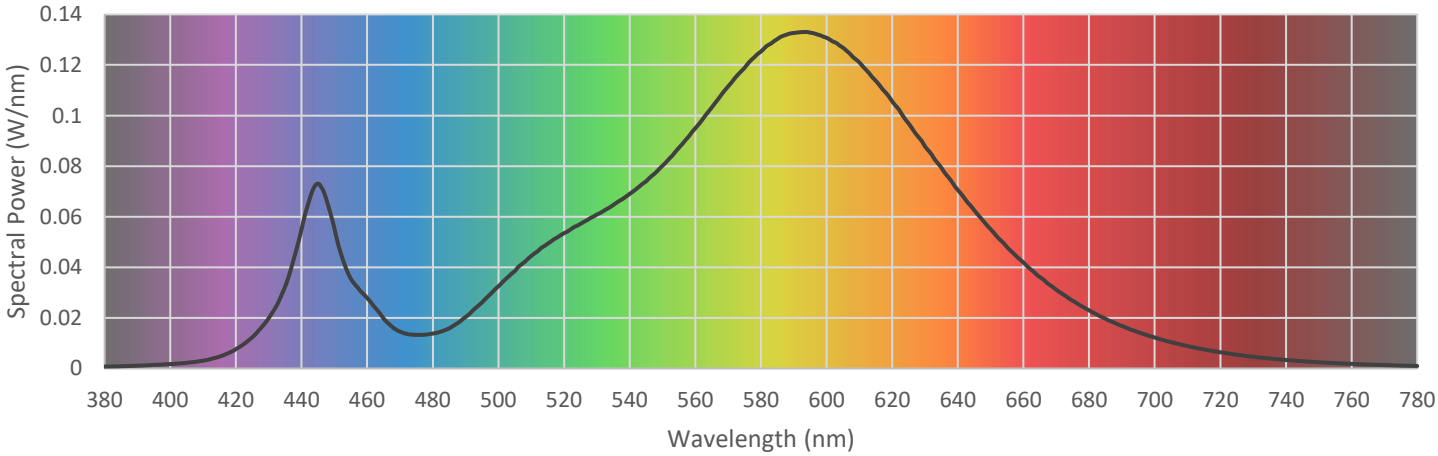
Electrical Data

Voltage	120.0	Vac
Current	0.3731	A
Power	44.19	W
Frequency	59.99	Hz
Power Factor	0.987	
Current THD	5.8	%

Test Report Number: LLIA001821-005B

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

380	0.000773	480	0.013805	580	0.125306	680	0.022978
385	0.000888	485	0.015875	585	0.130234	685	0.019654
390	0.001085	490	0.020363	590	0.132630	690	0.016809
395	0.001417	495	0.026108	595	0.132776	695	0.014294
400	0.001732	500	0.032499	600	0.130734	700	0.012241
405	0.002221	505	0.038520	605	0.126835	705	0.010397
410	0.003076	510	0.044481	610	0.120999	710	0.008860
415	0.004678	515	0.049296	615	0.113719	715	0.007522
420	0.007635	520	0.053481	620	0.105592	720	0.006395
425	0.012354	525	0.057169	625	0.096867	725	0.005438
430	0.019925	530	0.060863	630	0.087781	730	0.004642
435	0.032376	535	0.064623	635	0.079330	735	0.003952
440	0.055088	540	0.069025	640	0.070536	740	0.003359
445	0.073069	545	0.073995	645	0.062550	745	0.002883
450	0.055413	550	0.080157	650	0.055048	750	0.002458
455	0.035508	555	0.087251	655	0.047949	755	0.002099
460	0.027860	560	0.094972	660	0.041878	760	0.001815
465	0.019769	565	0.103195	665	0.036124	765	0.001560
470	0.014564	570	0.111511	670	0.031138	770	0.001336
475	0.013276	575	0.118819	675	0.026775	775	0.001150
						780	0.000991

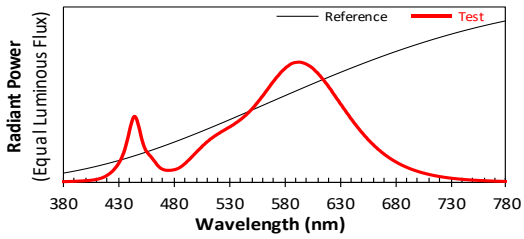


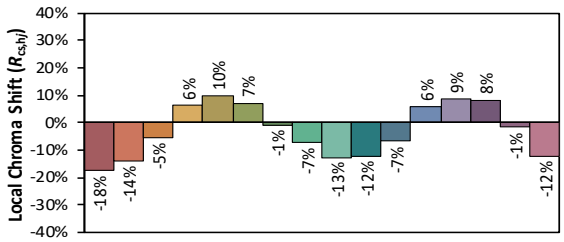
Test Report Number: LLIA001821-005B

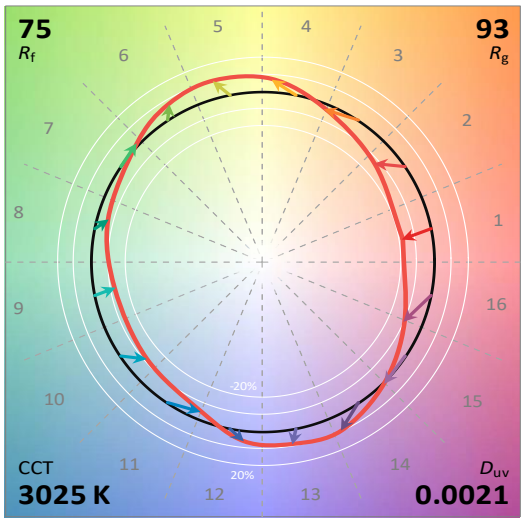
IES TM-30 Details

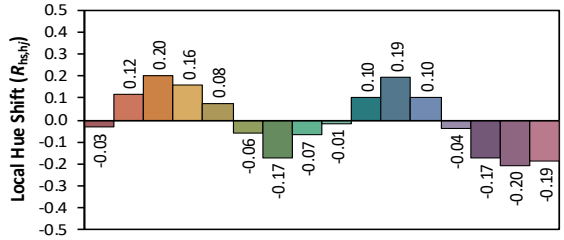
Source: LLIA001821-005B **Manufacturer:** LED Roadway Lighting

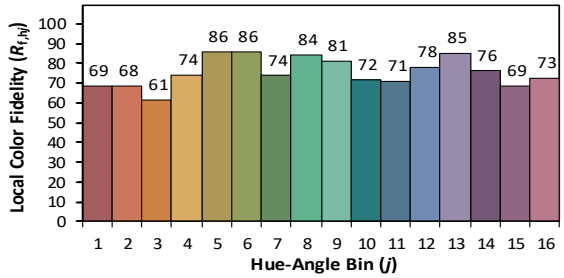
Date: 7/29/2022 **Model:** L6-16S-5-X-2ES-T-X-XX-3-XX-X-X-X

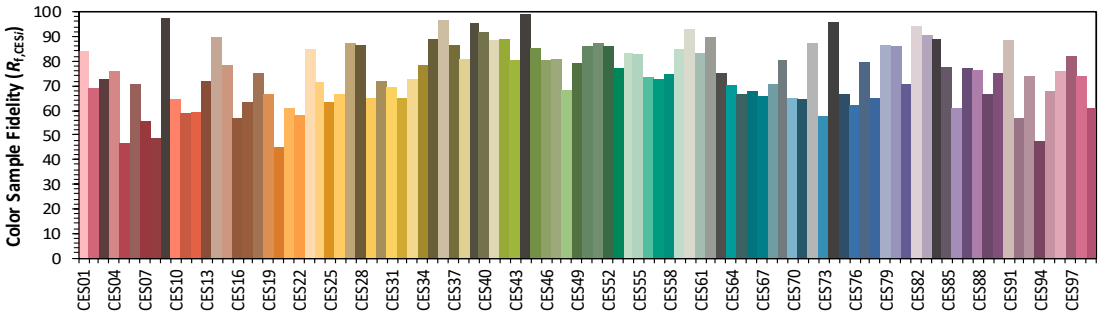












Notes:

x	0.4382
y	0.4098
u'	0.2489
v'	0.5238

CIE 13.3-1995 (CRI)

R_a	71
R_9	-44

Test Report Number: LLIA001821-005B

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:	25.4 °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:	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. 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.

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Australasia & S.E. Asia LightLab International, 50 Redcliffe Gardens Drive, Clontarf, Queensland, 4019, Australia, Ph : +61 7 3283 7862, Fx : +61 7 3283 8751, www.lightlabint.com

LightLab INTERNATIONAL ALLENTOWN LLC

NVLAP TESTING Lab Code: 201079-0

Report of Test

LLIA001821-005C

Electrical Test Report

Catalog Number: L6-16S-5-X-2ES-T-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 800mA, Littlefuse LSP10277SBX3472 suppressor.

Performance Summary

Voltage	277.0	Vac
Current	0.1681	A
Power	43.66	W
Frequency	60.00	Hz
Power Factor	0.938	
Current THD	12.5	%
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