



Report of Test

LLIA001821-004A

Roadway/Area Light Distribution Photometry Test Report

Catalog Number: L6-16S-5-X-2ES-3-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 700mA, 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	5551.1 Lumens
Input Current	0.3280 A	Total Efficacy	144.8 Lm/W
Input Power	38.34 W		
Frequency	60.00 Hz	Roadway Throw	Short
Power Factor	0.974	Roadway Type	Type II
Current THD	6.0 %	IES BUG Rating	B1 - U0 - G1

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

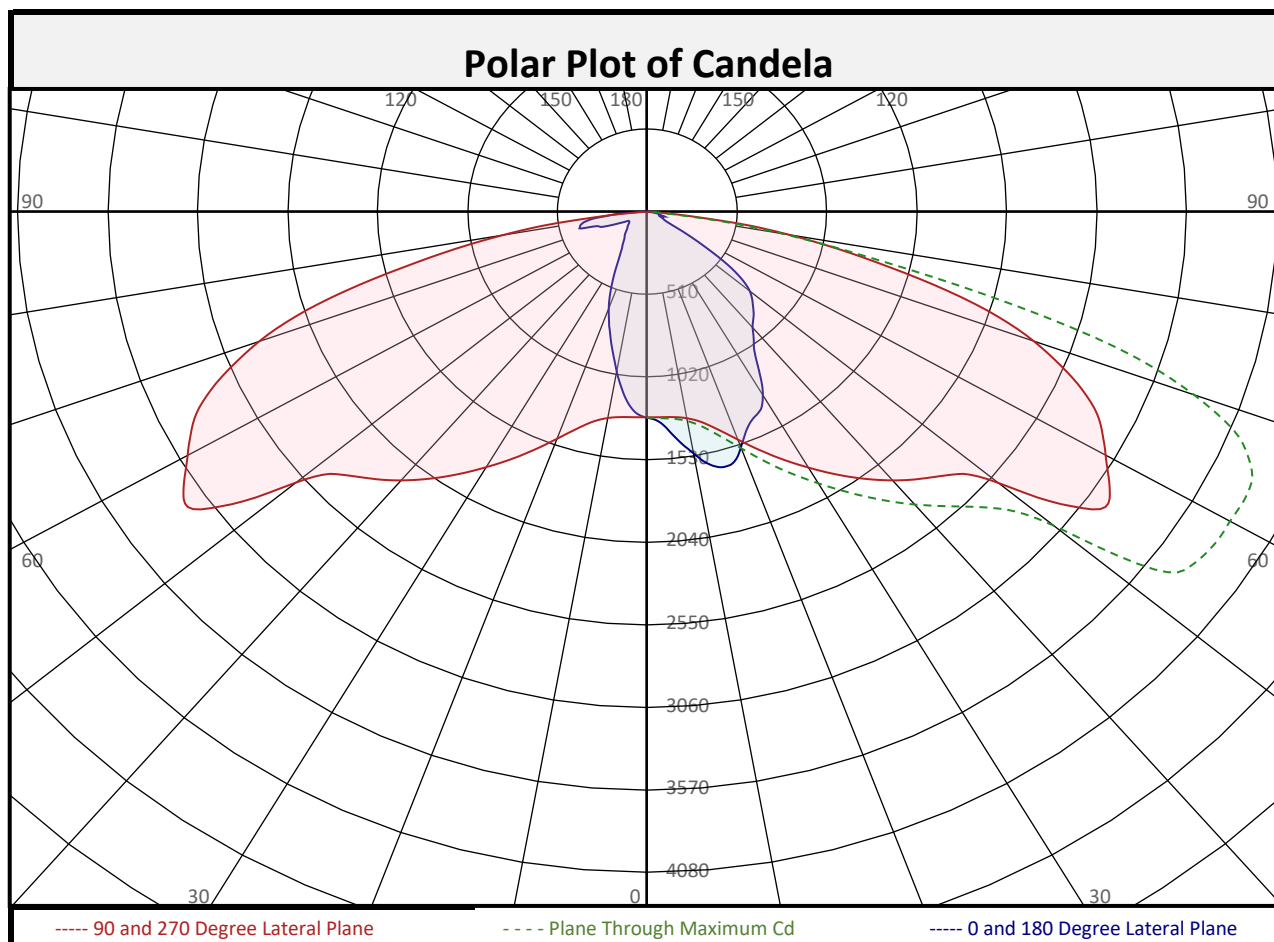
Test date: 07/26/2022
Report date: 08/01/2022

Signed: _____



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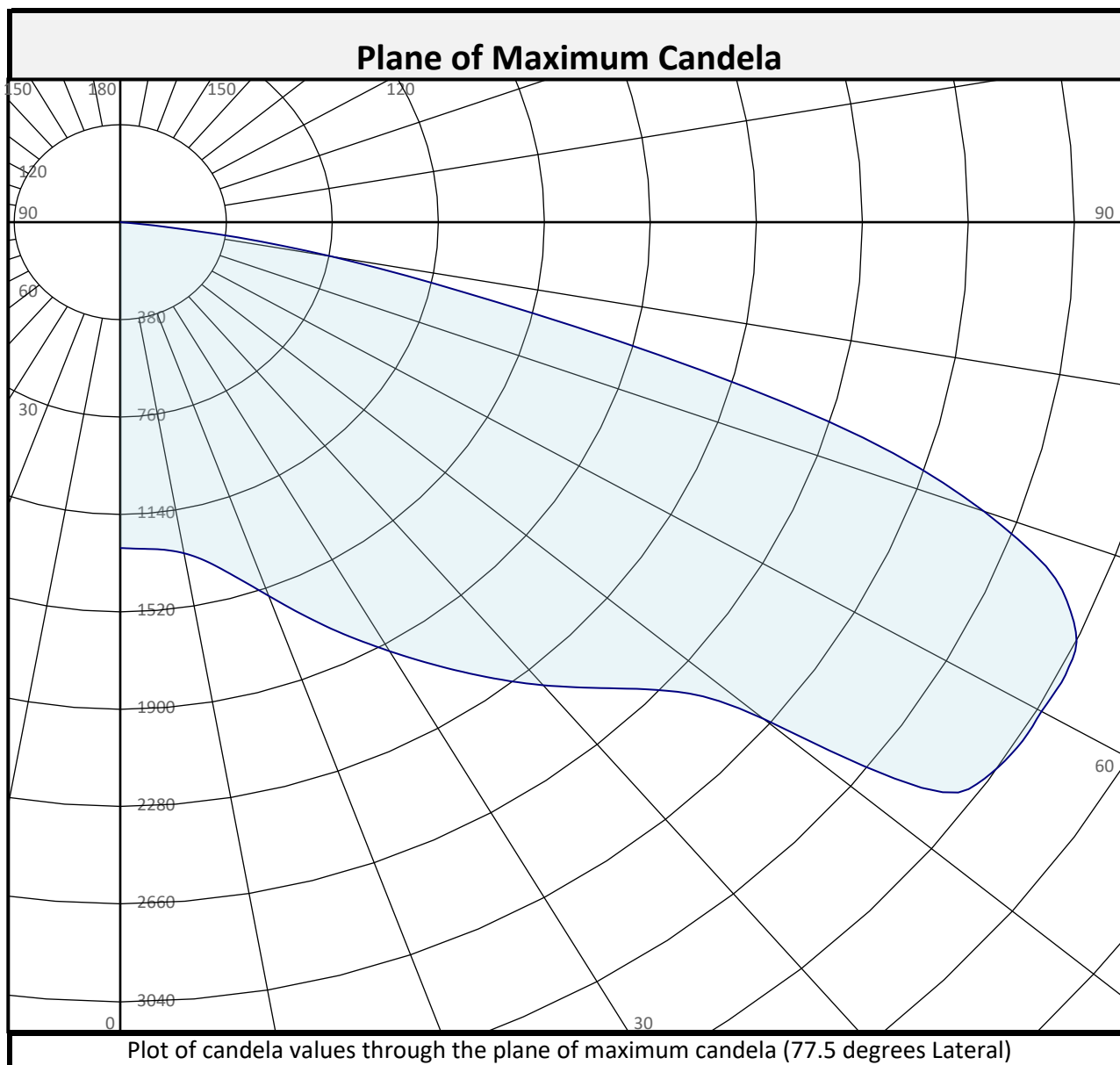


Zonal Flux Summary										
Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total
0-10	121.5	2.2%		90-100	0.0	0.0%		0-20	485.5	8.7%
10-20	364.1	6.6%		100-110	0.0	0.0%		0-30	1077	19.4%
20-30	591.9	10.7%		110-120	0.0	0.0%		0-40	1865	33.6%
30-40	787.3	14.2%		120-130	0.0	0.0%		0-60	4064	73.2%
40-50	985.5	17.8%		130-140	0.0	0.0%		0-80	5485	98.8%
50-60	1213	21.9%		140-150	0.0	0.0%		10-90	5430	97.8%
60-70	939.4	16.9%		150-160	0.0	0.0%		20-50	2365	42.6%
70-80	481.8	8.7%		160-170	0.0	0.0%		40-90	3686	66.4%
80-90	66.2	1.2%		170-180	0.0	0.0%		60-90	1487	26.8%
0-90	5551	100.0%		90-180	0.0	0.0%		0-180	5551	100.0%



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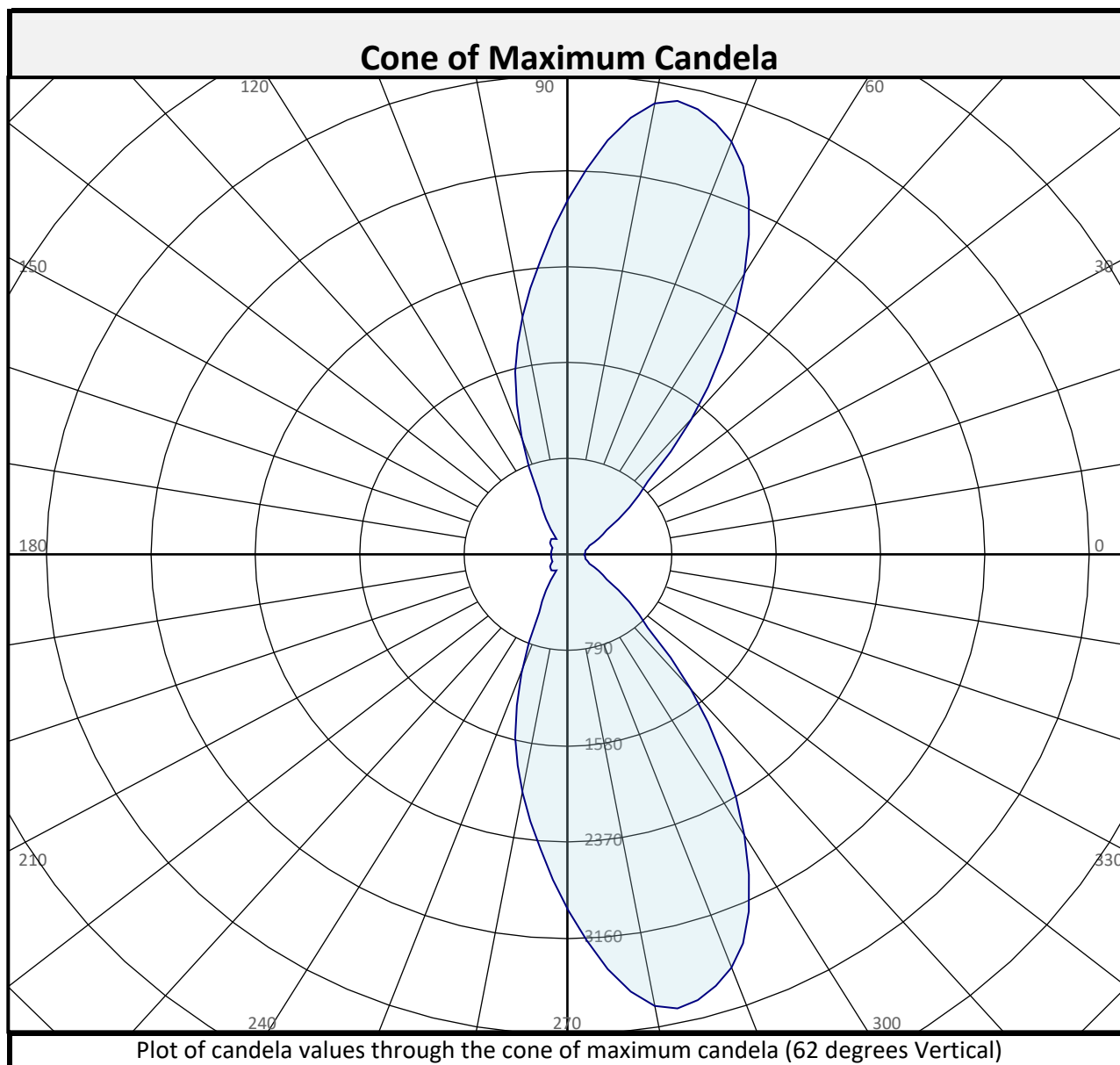


Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	3792.9	68.3%	0.0	0.0%	3792.9	68.3%
House Side	1758.2	31.7%	0.0	0.0%	1758.2	31.7%
Total	5551.1	100.0%	0.0	0.0%	5551.1	100.0%



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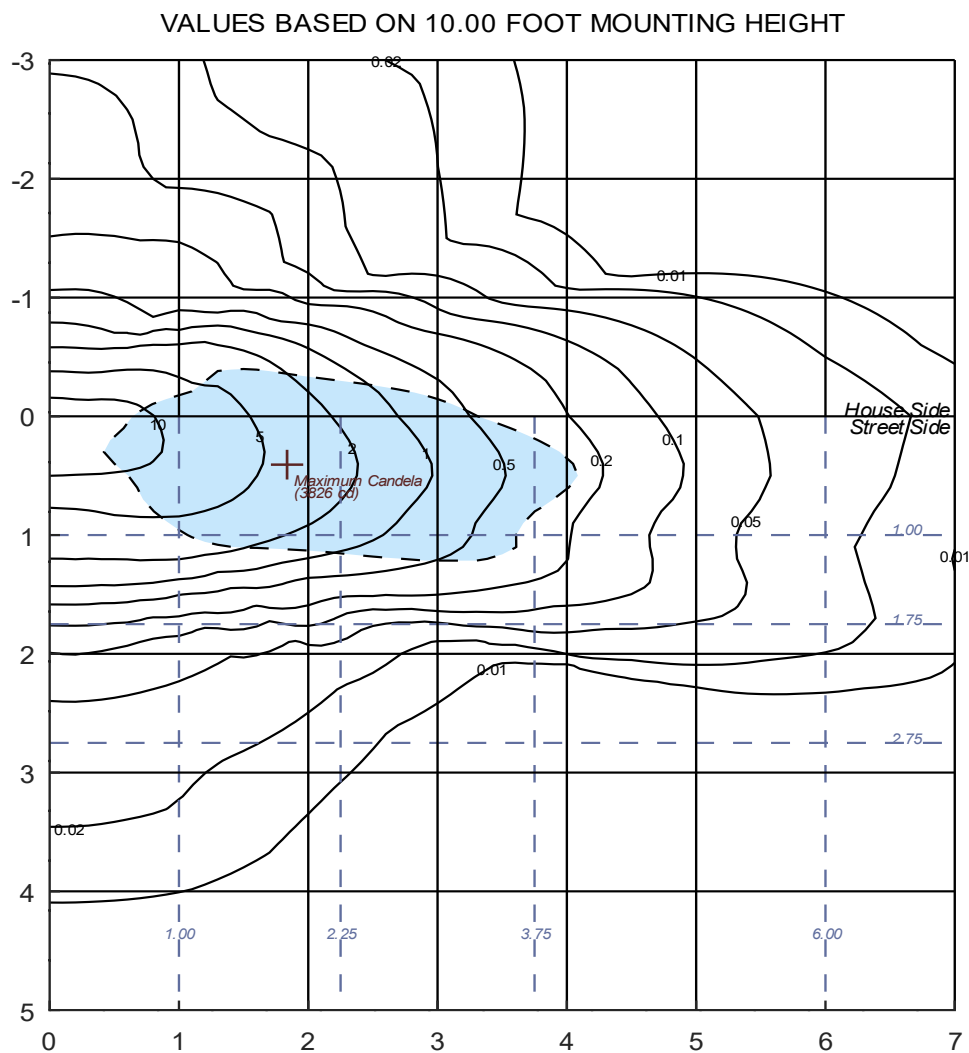


Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	3792.9	68.3%	0.0	0.0%	3792.9	68.3%
House Side	1758.2	31.7%	0.0	0.0%	1758.2	31.7%
Total	5551.1	100.0%	0.0	0.0%	5551.1	100.0%



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Iso-Illuminance Plot



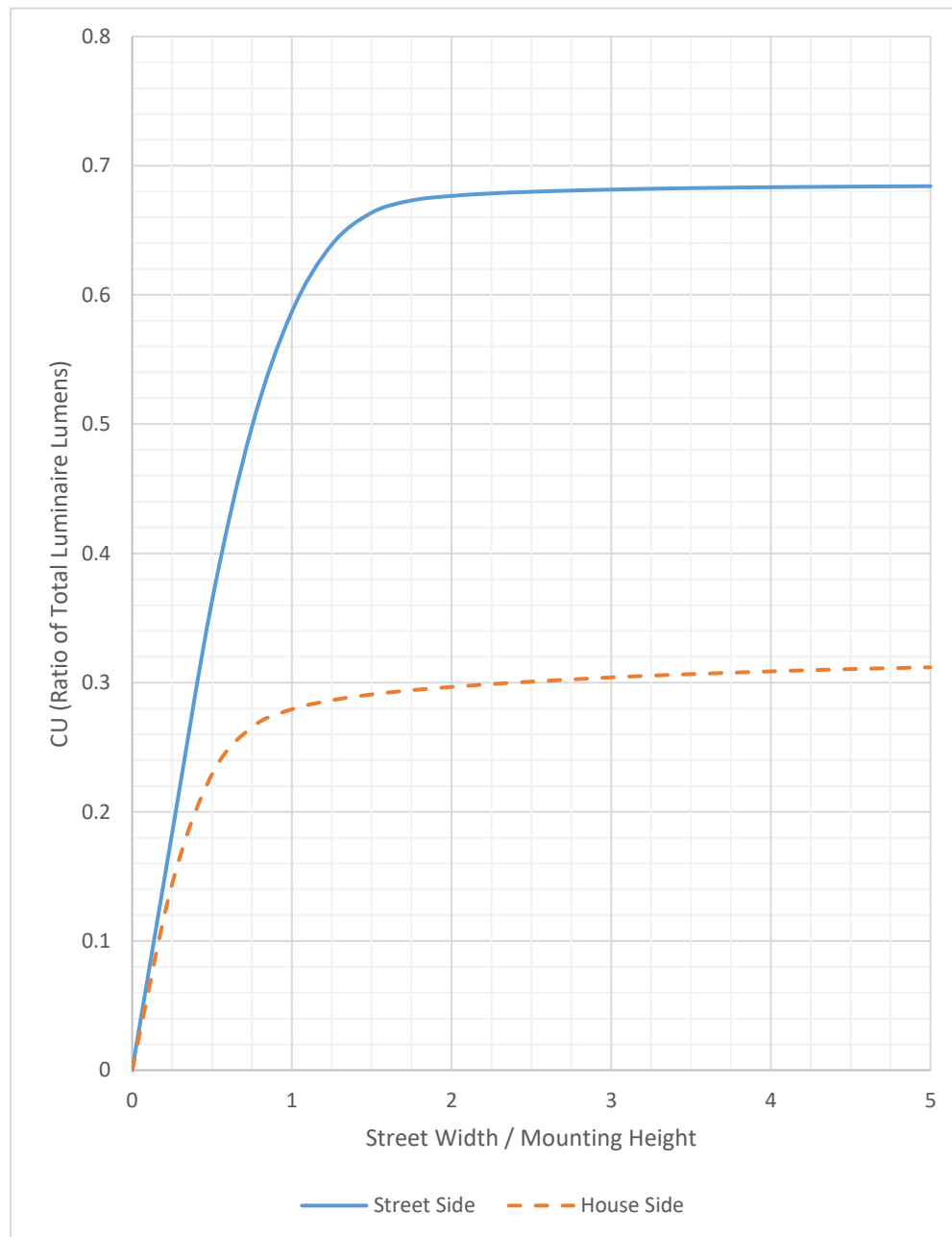
The isofootcandle values shown in the plot above are based on a mounting height of $h = 10.0$ feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the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



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Coefficients of Utilization Plot

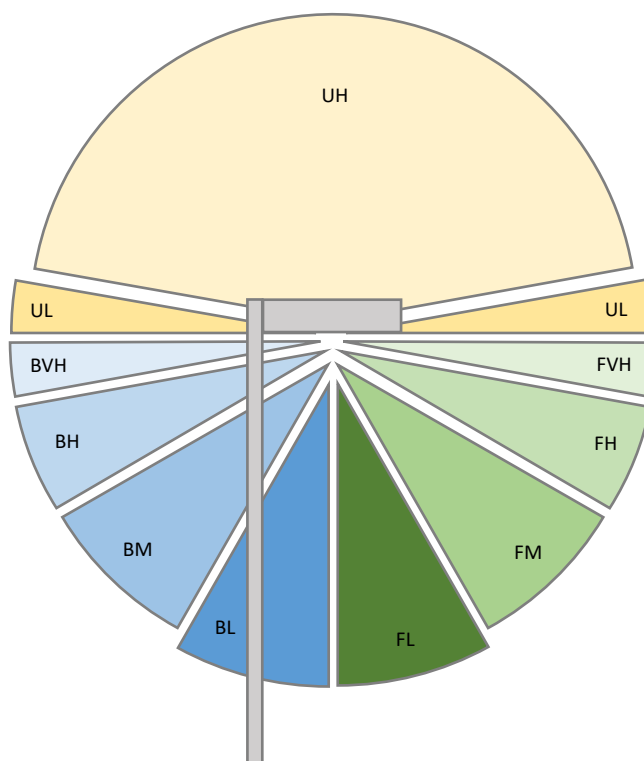




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LCS Tables and Bug Classification



Back Light

BL - Back Low (0°-30°)	408.6 Lm
BM - Back Mid (30°-60°)	875.0 Lm
BH - Back High (60°-80°)	437.0 Lm
BVH - Back Very High (80°-90°)	37.6 Lm

Uplight

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

Forward Light

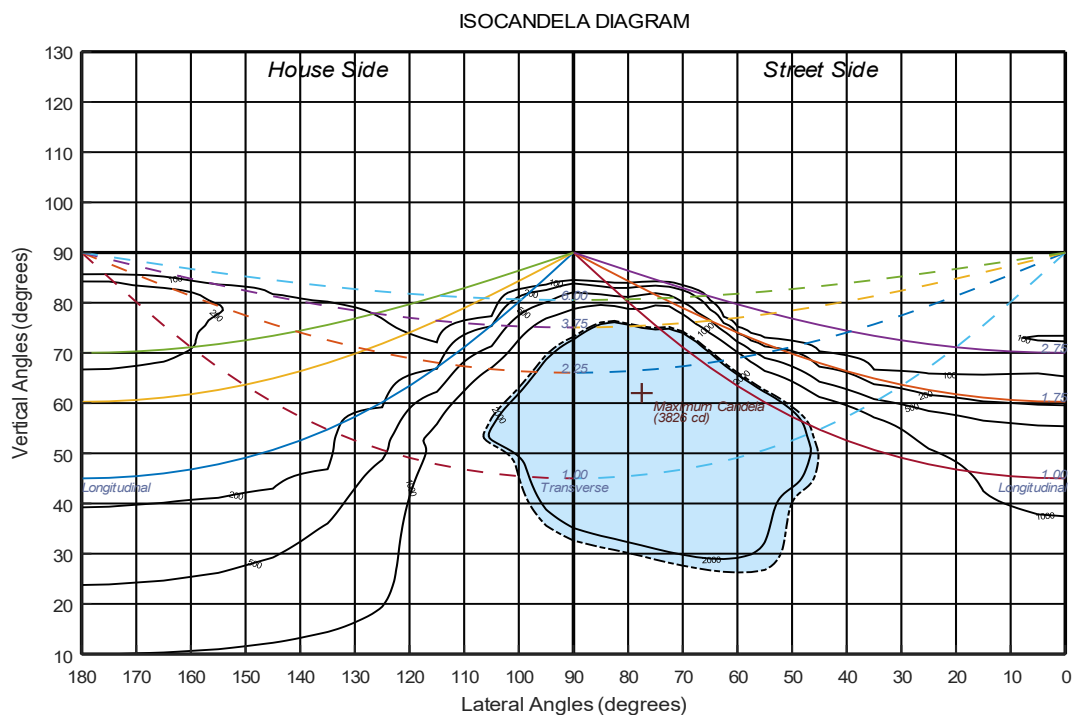
FL - Forward Low (0°-30°)	668.8 Lm
FM - Forward Mid (30°-60°)	2111.2 Lm
FH - Forward High (60°-80°)	984.2 Lm
FVH - Forward Very High (80°-90°)	28.7 Lm

BUG Ratings: B1 - U0 - G1



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Iso-Candela Plot



Half-max Candela Contour Line



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Luminous Intensity (Candela) Table

		Lateral (C-Plane) Angles														
		0	5	15	25	35	45	55	57.5	60	62.5	65	67.5	70	72.5	75
Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	0	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272
	2.5	1289	1289	1289	1287	1285	1284	1281	1280	1279	1278	1278	1278	1277	1277	1276
	5	1346	1346	1341	1332	1321	1310	1298	1295	1292	1290	1288	1287	1286	1284	1283
	7.5	1431	1432	1423	1409	1388	1362	1332	1325	1318	1312	1307	1304	1301	1298	1295
	10	1512	1512	1501	1483	1460	1427	1387	1375	1363	1352	1342	1335	1328	1322	1317
	12.5	1590	1590	1580	1561	1531	1496	1452	1439	1425	1411	1396	1383	1373	1363	1355
	15	1633	1632	1629	1622	1607	1571	1526	1513	1499	1483	1467	1452	1437	1423	1412
	17.5	1627	1628	1639	1651	1660	1653	1609	1597	1584	1569	1553	1536	1519	1502	1484
	20	1556	1561	1591	1639	1690	1719	1703	1692	1678	1662	1647	1630	1611	1590	1569
	22.5	1471	1475	1507	1576	1684	1770	1792	1789	1778	1763	1747	1730	1709	1688	1665
	25	1417	1418	1442	1511	1640	1794	1868	1873	1871	1861	1847	1829	1809	1787	1764
	27.5	1388	1390	1412	1469	1595	1788	1929	1944	1952	1952	1944	1928	1908	1886	1861
	30	1318	1325	1372	1449	1564	1768	1973	2003	2023	2034	2036	2027	2009	1987	1960
	32.5	1198	1209	1281	1404	1549	1751	2002	2052	2088	2111	2122	2122	2112	2091	2065
	35	1072	1084	1168	1324	1527	1740	2024	2091	2147	2186	2208	2215	2211	2196	2172
	37.5	998	1008	1084	1239	1488	1739	2043	2124	2195	2252	2288	2306	2310	2302	2280
	40	935	946	1034	1190	1456	1752	2069	2157	2240	2310	2362	2392	2404	2401	2385
	42.5	896	908	1000	1187	1469	1814	2131	2213	2296	2372	2433	2476	2497	2501	2489
	45	857	870	971	1164	1457	1874	2260	2341	2418	2485	2540	2582	2603	2607	2599
	47.5	814	826	921	1123	1426	1896	2366	2461	2548	2629	2696	2745	2767	2764	2747
	50	764	774	847	1038	1361	1900	2533	2659	2771	2874	2967	3035	3071	3074	3057
	52.5	675	684	743	930	1275	1849	2624	2820	3006	3184	3355	3499	3603	3663	3676
	55	529	540	611	806	1172	1790	2583	2785	2987	3178	3354	3516	3647	3734	3782
	57.5	340	350	415	603	960	1626	2559	2776	2987	3185	3369	3529	3656	3745	3806
	60	175	181	223	334	612	1236	2371	2636	2889	3130	3345	3514	3640	3730	3798
	62.5	114	121	126	151	303	763	1934	2277	2596	2906	3196	3434	3605	3717	3793
	65	103	107	103	104	132	411	1337	1762	2141	2502	2861	3179	3428	3611	3730
	67.5	87	89	91	93	95	184	767	1165	1614	2032	2448	2801	3075	3305	3502
	70	75	76	78	83	86	104	350	593	1038	1519	2000	2420	2686	2851	3065
	72.5	103	100	82	75	76	77	121	198	434	907	1385	1928	2346	2468	2536
	75	82	83	82	74	64	57	72	78	111	357	769	1190	1715	1958	1915
	77.5	68	69	72	73	47	48	53	56	59	88	354	607	1053	1394	1351
	80	41	42	51	60	32	39	33	35	36	45	120	304	516	834	896
	82.5	20	21	22	28	19	20	18	19	19	21	46	109	201	321	378
	85	11	11	11	10	9	8	7	7	7	7	10	16	22	30	32
	87.5	0	0	0	0	0	0	1	1	1	1	1	1	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	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272
	2.5	1275	1275	1273	1273	1270	1269	1268	1266	1262	1259	1257	1254	1251	1248	1248
	5	1280	1280	1278	1277	1273	1270	1264	1257	1244	1231	1218	1206	1197	1191	1191
	7.5	1291	1290	1287	1284	1279	1274	1261	1243	1213	1185	1156	1129	1111	1100	1099
	10	1311	1308	1305	1300	1294	1285	1262	1223	1173	1123	1076	1037	1014	998	996
	12.5	1347	1341	1335	1330	1321	1307	1268	1203	1125	1055	990	941	912	896	894
	15	1400	1391	1384	1378	1364	1345	1283	1185	1077	982	909	856	823	805	802
	17.5	1469	1458	1448	1440	1423	1398	1308	1175	1030	917	835	775	742	722	718
	20	1550	1536	1524	1513	1493	1460	1340	1173	993	859	767	701	661	639	636
	22.5	1641	1623	1608	1596	1571	1529	1379	1175	967	809	701	627	578	552	548
	25	1737	1715	1697	1683	1652	1602	1422	1180	947	759	635	542	487	459	455
	27.5	1834	1810	1789	1772	1736	1675	1466	1190	930	715	557	454	400	371	367
	30	1933	1907	1884	1864	1821	1747	1508	1200	915	662	475	372	327	306	304
	32.5	2036	2009	1982	1959	1909	1822	1550	1209	898	600	393	311	278	263	261
	35	2142	2113	2083	2056	1996	1895	1590	1218	875	530	329	267	248	236	234
	37.5	2250	2220	2186	2154	2082	1965	1624	1231	840	454	277	235	218	211	210
	40	2358	2327	2289	2252	2165	2030	1650	1239	792	378	236	209	201	197	196
	42.5	2463	2431	2391	2348	2242	2087	1668	1237	732	300	204	192	188	182	181
	45	2574	2539	2494	2441	2314	2138	1680	1221	648	236	186	180	173	165	164
	47.5	2712	2668	2613	2547	2396	2191	1691	1184	549	191	175	172	165	154	150
	50	3016	2959	2887	2800	2604	2344	1745	1139	452	174	171	166	159	147	143
	52.5	3625	3520	3392	3250	2965	2642	1984	1201	386	173	172	160	152	137	132
	55	3786	3735	3633	3496	3177	2787	2004	1048	306	173	171	152	138	127	123
	57.5	3816	3765	3653	3500	3112	2672	1889	898	240	176	172	142	129	123	118
	60	3818	3765	3633	3452	3006	2539	1730	706	184	179	173	138	136	130	118
	62.5	3825	3771	3623	3417	2910	2403	1512	477	154	183	168	132	130	137	131
	65	3784	3731	3564	3335	2779	2271	1248	290	145	182	160	128	145	166	166
	67.5	3633	3613	3436	3177	2578	2100	942	177	139	181	154	128	187	216	219
	70	3298	3389	3253	2976	2337	1879	634	122	131	175	147	143	235	271	278
	72.5	2794	2998	2938	2648	2023	1626	398	97	121	164	139	157	262	293	299
	75	2000	2230	2352	2178	1602	1289	221	76	108	150	130	159	304	393	400
	77.5	1262	1350	1560	1556	1186	900	94	57	96	130	122	195	323	389	389
	80	769	720	819	890	815	512	44	42	81	102	109	193	293	360	359
	82.5	331	271	272	327	413	203	22	30	50	73	93	141	229	282	277
	85	27	23	25	31	43	24	8	12	19	23	30	51	109	164	157
	87.5	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
	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

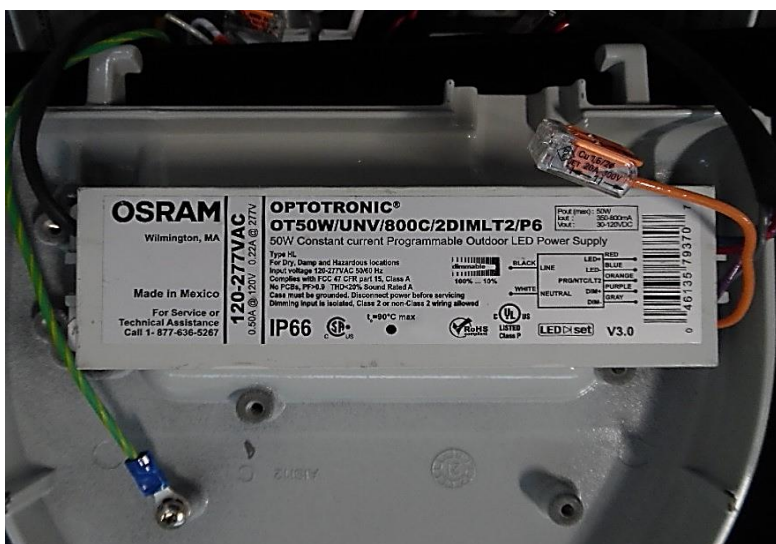
		Lateral (C-Plane) Angles														
		77.5	80	82.5	85	90	95	105	115	125	135	145	155	165	175	180
Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	97.5	0	0	0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

LLIA001821-004A

Additional Pictures of Test Subject



Report of Test

LLIA001821-004A

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

LLIA001821-004B

Integrating Sphere Report

Catalog Number: L6-16S-5-X-2ES-3-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 700mA, Littlefuse LSP10277SBX3472 suppressor.



Performance Summary

Voltage	120.0 Vac
Current	0.3241 A
Power	38.26 W
Frequency	59.99 Hz
Power Factor	0.984
Current THD	6.1 %
Total Luminous Flux	5562.1 lm
Efficacy	145.4 lm/W
Chromaticity (x,y)	(0.4384, 0.4100)
(u',v')	(0.2490, 0.5239)
Duv	0.0021
CCT	3023 K
CRI (Ra)	71
R9	-44
TM-30: Rf	72
TM-30: Rg	93
TM-30: Rcs,h1	-18

Prepared For:

LED Roadway Lighting

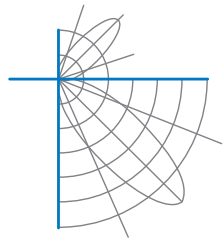
84 Chain Lake Drive

Suite 403

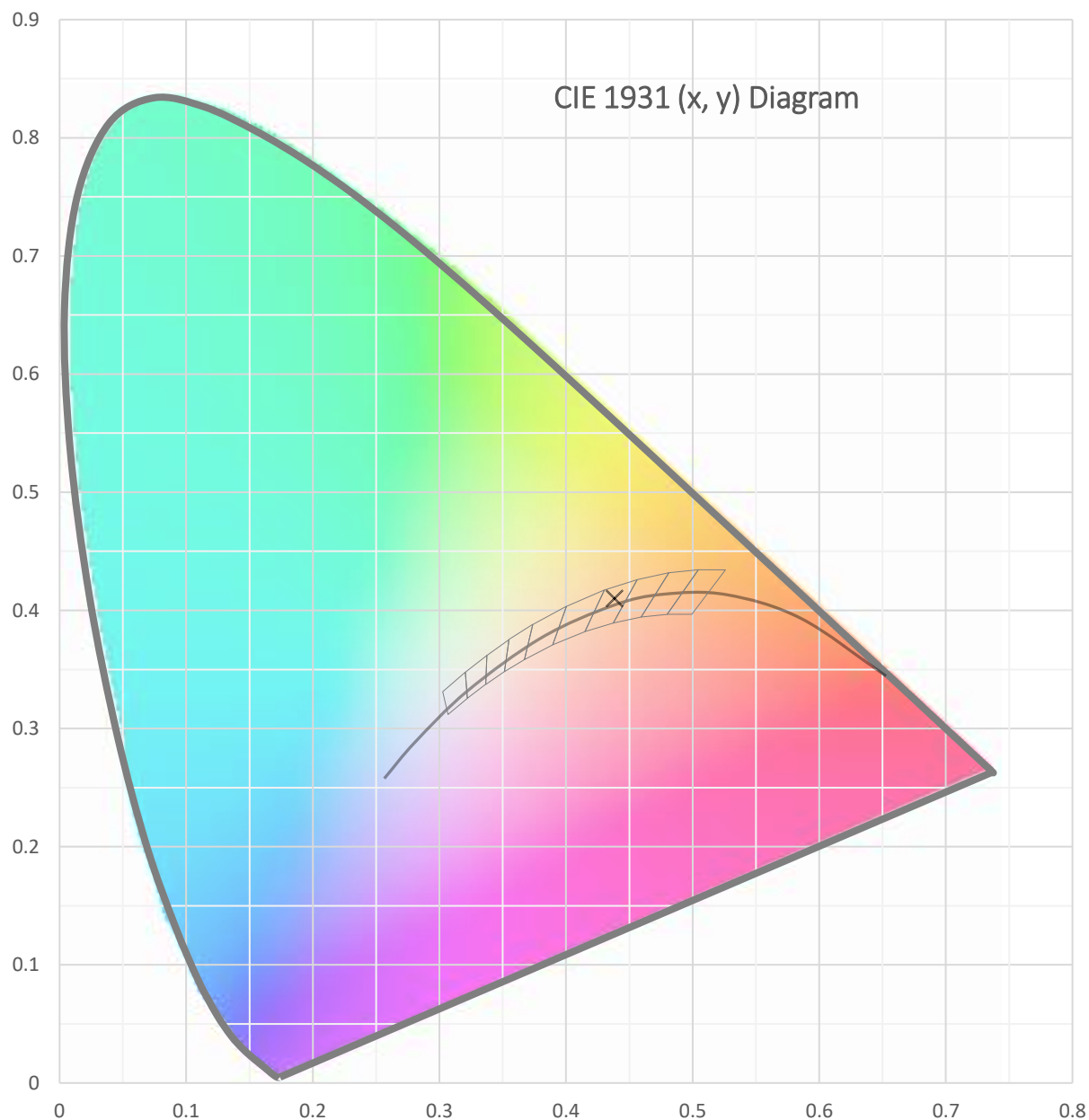
Halifax, Nova Scotia B3S 1A2, Canada

Test date: 07/29/2022

Report date: 08/01/2022

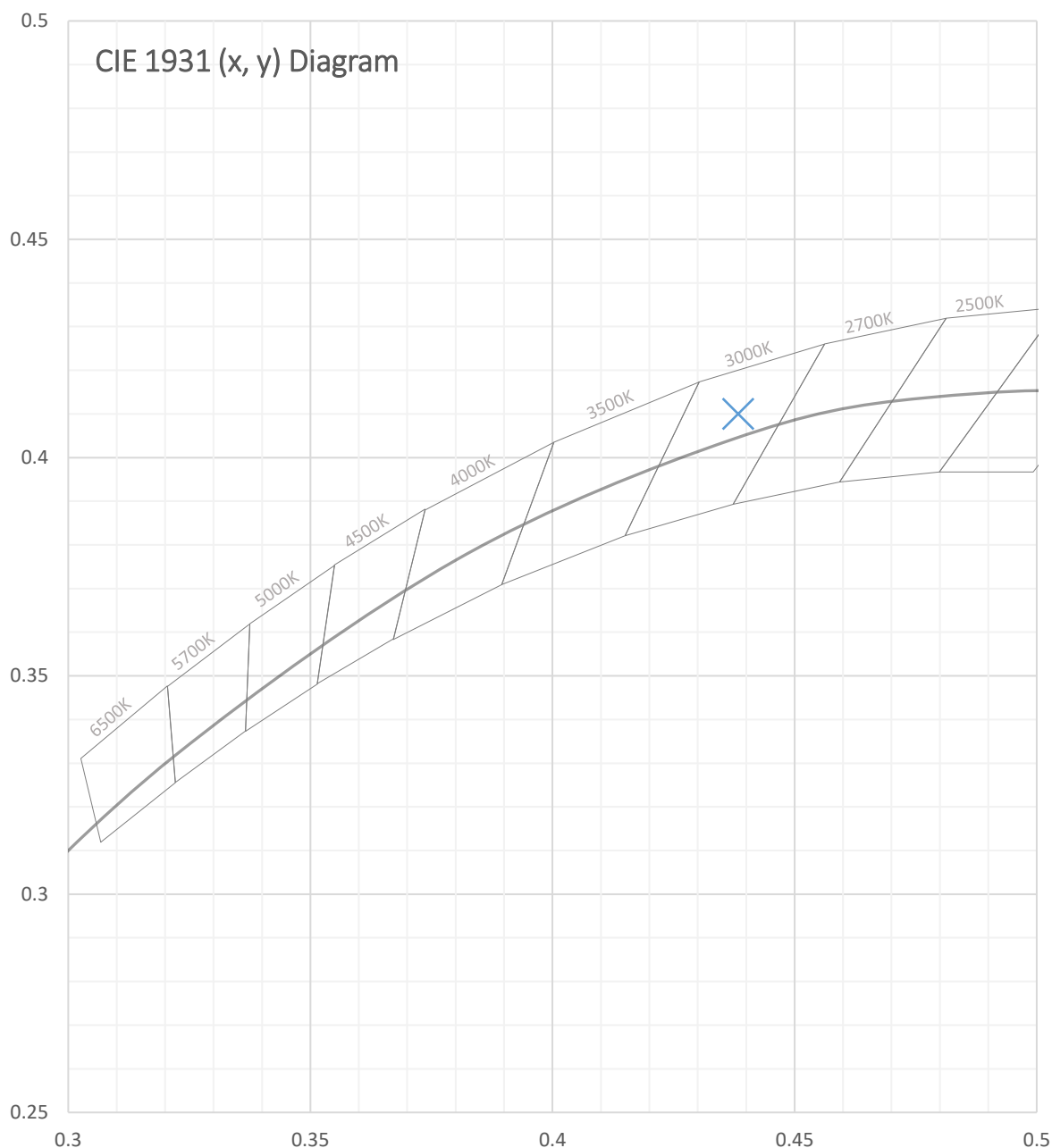


Test Report Number: LLIA001821-004B





Test Report Number: LLIA001821-004B





Test Report Number: LLIA001821-004B

Total Radiant Flux	15.56 W
Total Luminous Flux	5562.1 Lm
Chromaticity CIE 1931 (x, y)	(0.4384, 0.4100)
Chromaticity CIE 1976 (u', v')	(0.2490, 0.5239)
Correlated Color Temperature (CCT)	3023 K
Color Rendering Index (Ra)	71
R1	66
R2	81
R3	95
R4	67
R5	66
R6	75
R7	76
R8	39
R9	-44
R10	59
R11	63
R12	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 $\frac{V_{\lambda}}{V_{\lambda}^p}$	1.211

Electrical Data

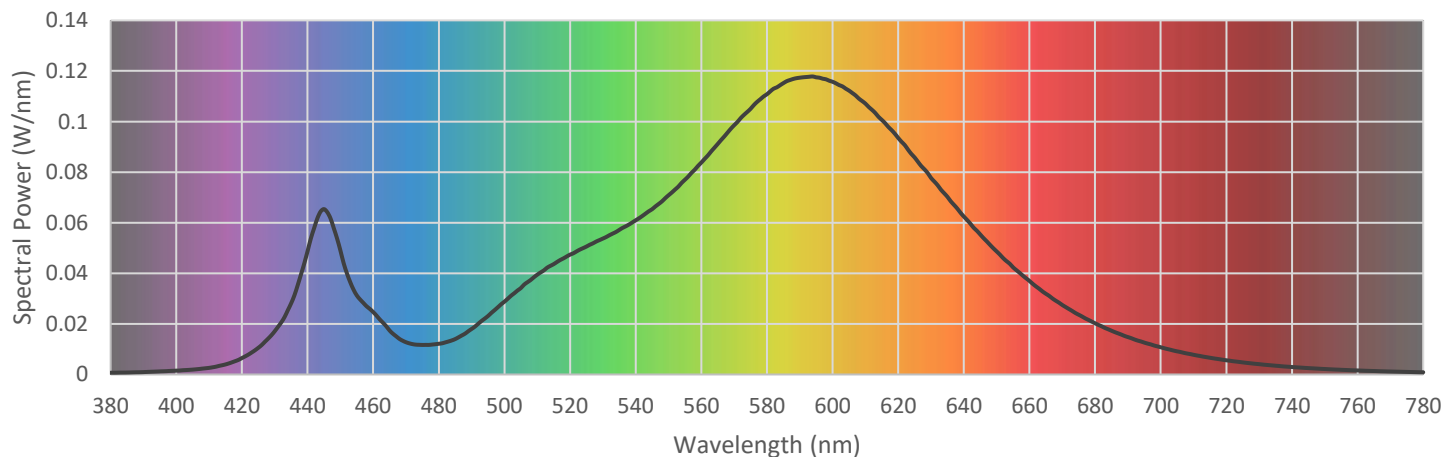
Voltage	120.0 Vac
Current	0.3241 A
Power	38.26 W
Frequency	59.99 Hz
Power Factor	0.984
Current THD	6.1 %



Test Report Number: LLIA001821-004B

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

380	0.000689	480	0.012139	580	0.110793	680	0.020232
385	0.000761	485	0.014001	585	0.115177	685	0.017302
390	0.000934	490	0.017994	590	0.117329	690	0.014785
395	0.001221	495	0.023117	595	0.117484	695	0.012595
400	0.001511	500	0.028791	600	0.115723	700	0.010764
405	0.001921	505	0.034157	605	0.112237	705	0.009143
410	0.002607	510	0.039443	610	0.107103	710	0.007779
415	0.003970	515	0.043610	615	0.100655	715	0.006609
420	0.006486	520	0.047387	620	0.093517	720	0.005605
425	0.010551	525	0.050585	625	0.085805	725	0.004777
430	0.017101	530	0.053737	630	0.077703	730	0.004073
435	0.028140	535	0.057153	635	0.070232	735	0.003459
440	0.048741	540	0.060961	640	0.062435	740	0.002946
445	0.065361	545	0.065336	645	0.055351	745	0.002520
450	0.049063	550	0.070841	650	0.048656	750	0.002154
455	0.031266	555	0.076981	655	0.042356	755	0.001842
460	0.024672	560	0.083781	660	0.036979	760	0.001588
465	0.017384	565	0.091133	665	0.031916	765	0.001364
470	0.012743	570	0.098534	670	0.027471	770	0.001165
475	0.011674	575	0.105007	675	0.023627	775	0.001007
						780	0.000868





Test Report Number: LLIA001821-004B

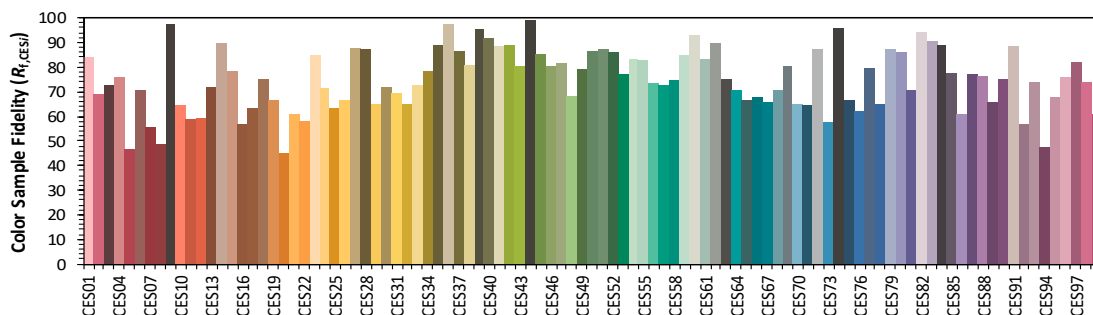
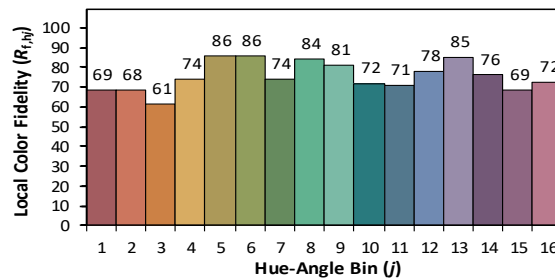
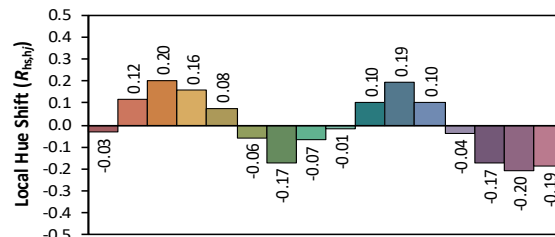
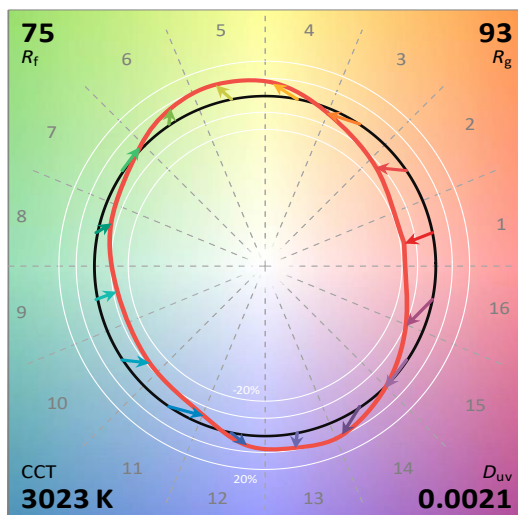
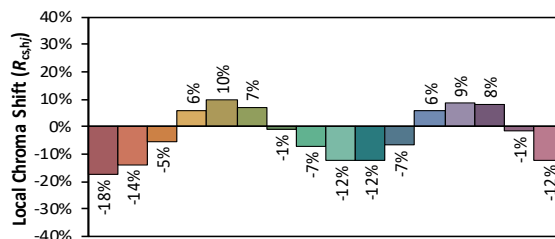
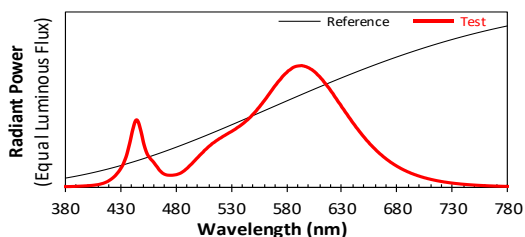
IES TM-30 Details

Source: LLIA001821-004B

Manufacturer: LED Roadway Lighting

Date: 8/1/2022

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



Notes:

x 0.4384
y 0.4099
u' 0.2490
v' 0.5239

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



Test Report Number: LLIA001821-004B

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: 25.2 °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: The measurements and other derived quantities contained in this report are based on the absolute data as measured.

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

This report is free of erasures and corrections

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Sphere Report Template V2-18



Report of Test

LLIA001821-004C

Electrical Test Report

Catalog Number: L6-16S-5-X-2ES-3-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 700mA, Littlefuse LSP10277SBX3472 suppressor.



Performance Summary

Voltage	277.0 Vac
Current	0.1479 A
Power	37.83 W
Frequency	60.00 Hz
Power Factor	0.923
Current THD	13.7 %

Ambient Temperature: 25.4 °C

Prepared For:

LED Roadway Lighting

84 Chain Lake Drive

Suite 403

Halifax, Nova Scotia B3S 1A2, Canada

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

Test date: 07/26/2022

Report date: 08/01/2022

Electrical Report Template V1-4