



## Report of Test

**LLIA001821-002A**

### Roadway/Area Light Distribution Photometry Test Report

Catalog Number: L6-16S-5-X-2ES-M-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 400mA, 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	3292.3 Lumens
Input Current	0.1916 A	Total Efficacy	147.0 Lm/W
Input Power	22.40 W		
Frequency	60.00 Hz	Roadway Throw	Short
Power Factor	0.975	Roadway Type	Type II
Current THD	8.5 %	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

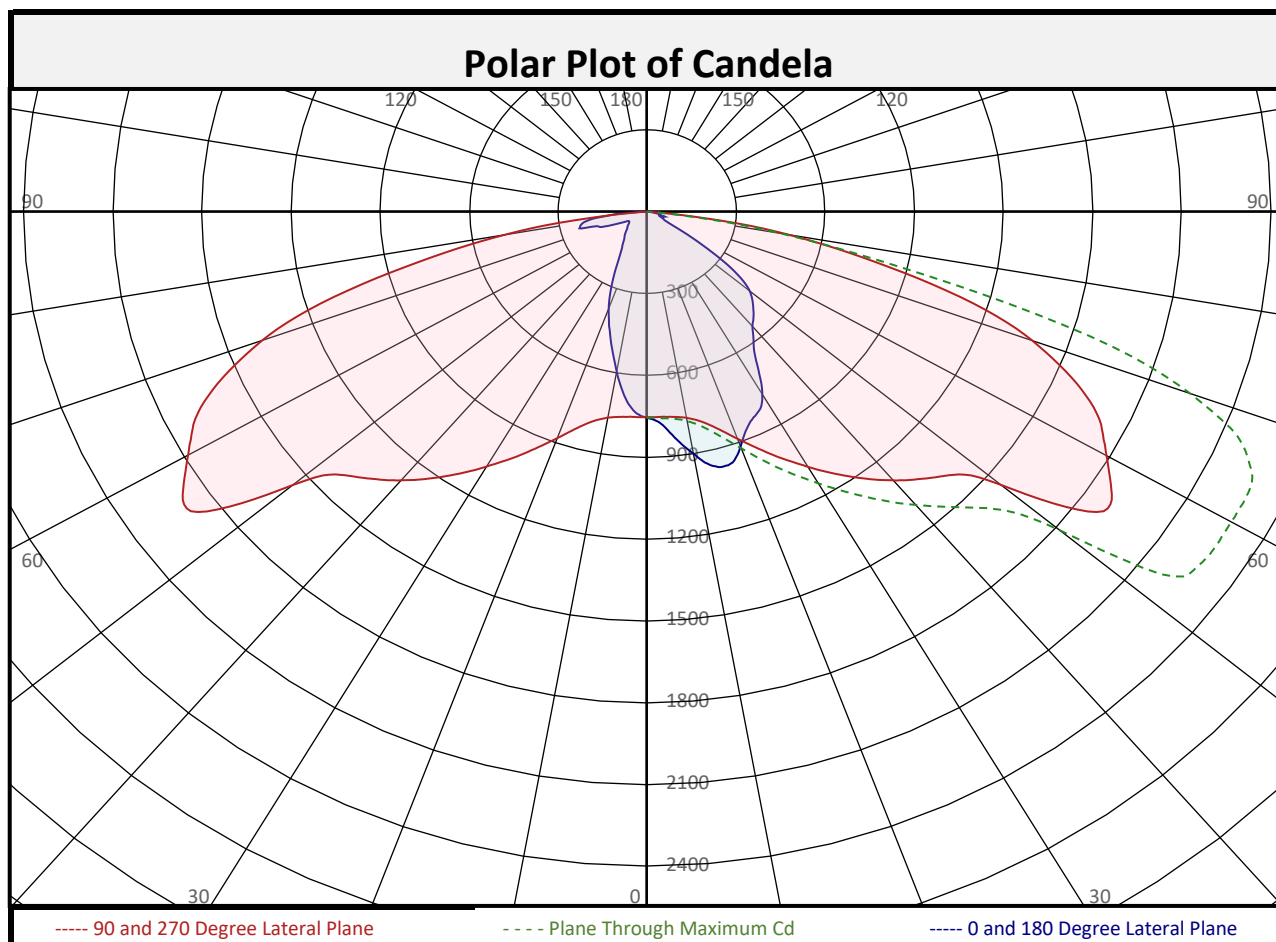
Report date: 08/01/2022

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

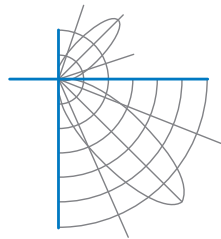


## Report of Test

### LLIA001821-002A

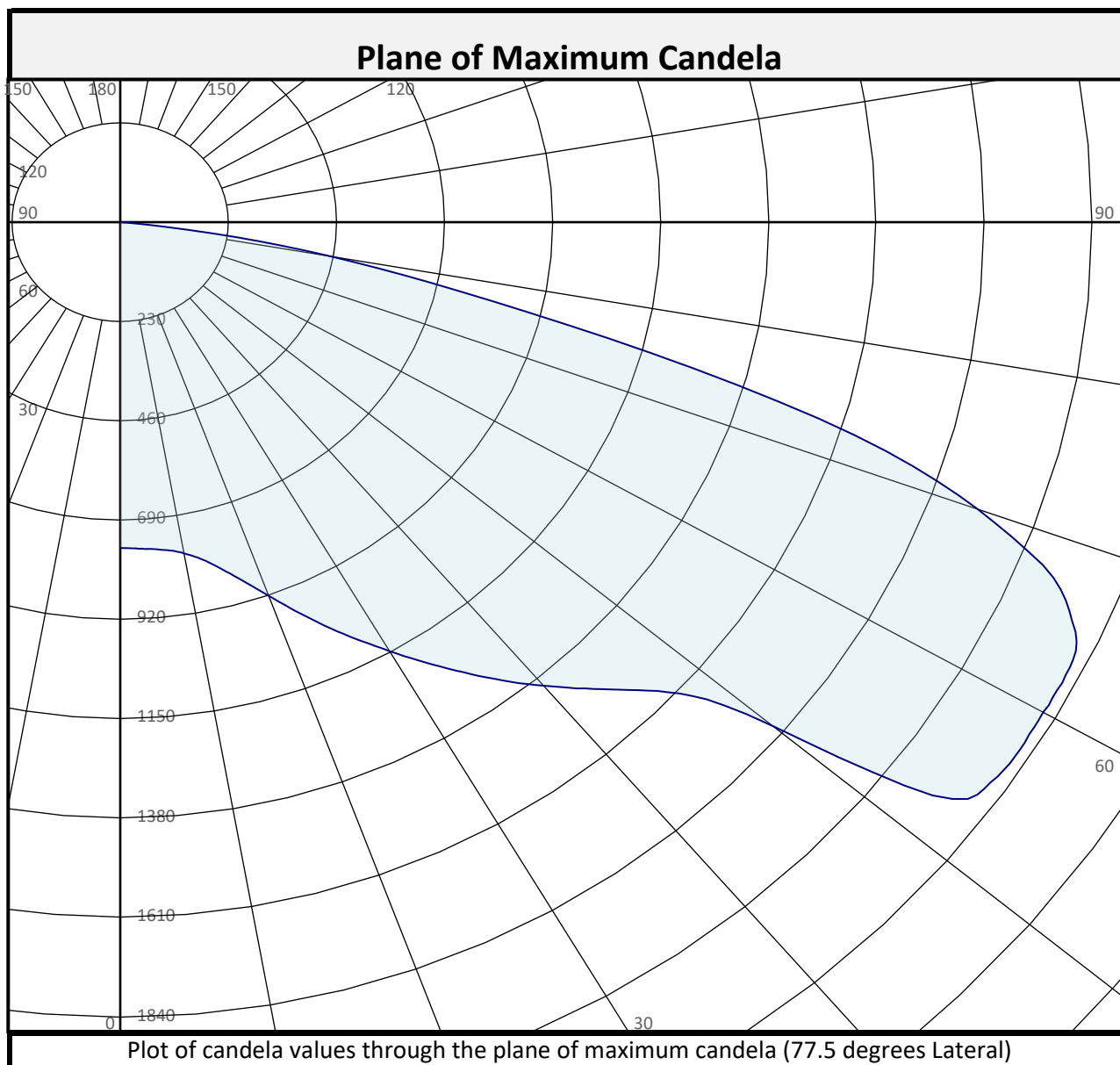


Zonal Flux Summary										
Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total
0-10	72.2	2.2%		90-100	0.0	0.0%		0-20	288.1	8.8%
10-20	216.0	6.6%		100-110	0.0	0.0%		0-30	638.6	19.4%
20-30	350.5	10.6%		110-120	0.0	0.0%		0-40	1105	33.6%
30-40	466.5	14.2%		120-130	0.0	0.0%		0-60	2414	73.3%
40-50	586.3	17.8%		130-140	0.0	0.0%		0-80	3253	98.8%
50-60	722.7	22.0%		140-150	0.0	0.0%		10-90	3220	97.8%
60-70	555.1	16.9%		150-160	0.0	0.0%		20-50	1403	42.6%
70-80	283.9	8.6%		160-170	0.0	0.0%		40-90	2187	66.4%
80-90	39.2	1.2%		170-180	0.0	0.0%		60-90	878.2	26.7%
0-90	3292	100.0%		90-180	0.0	0.0%		0-180	3292	100.0%



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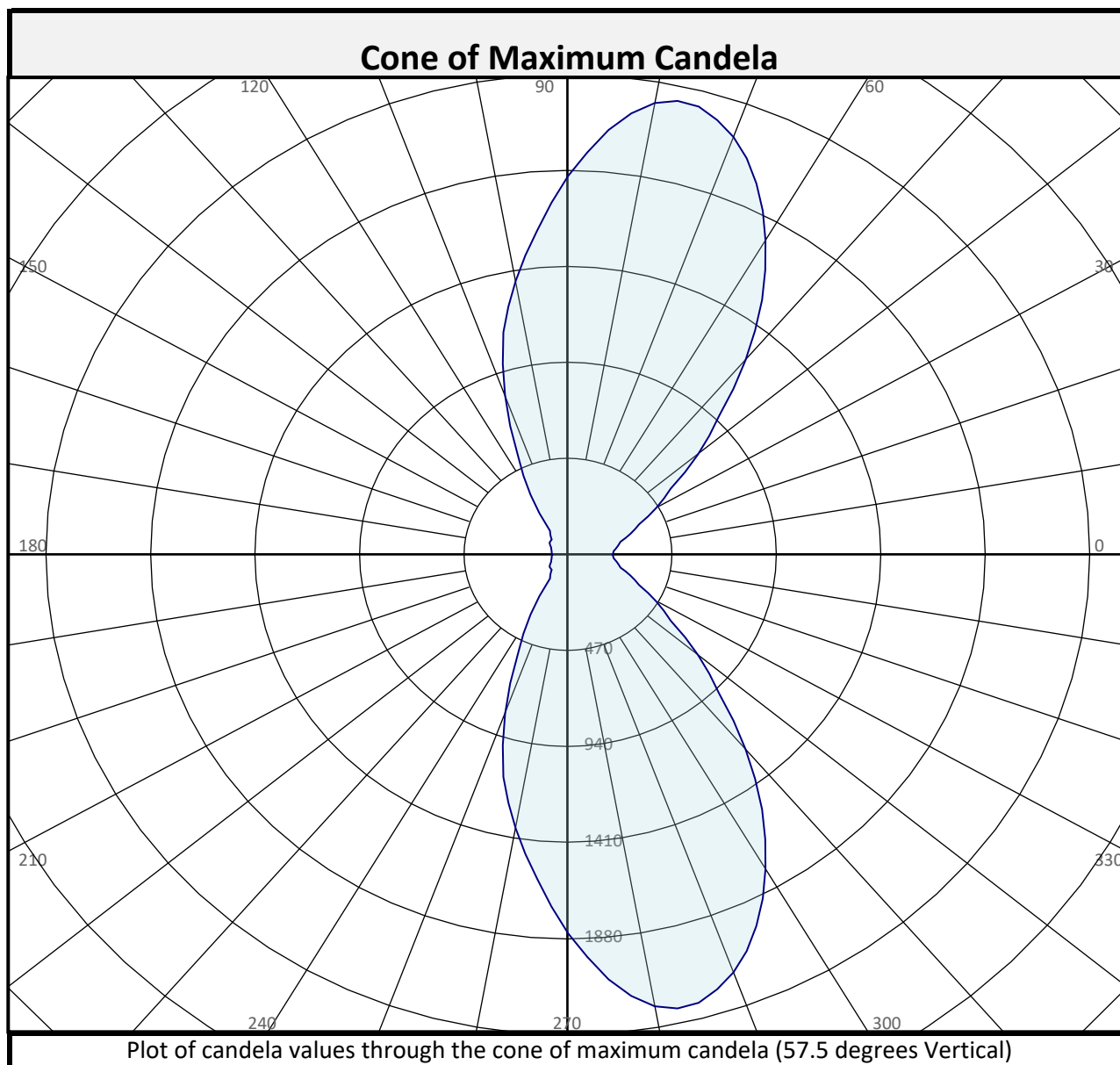


Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	2248.9	68.3%	0.0	0.0%	2248.9	68.3%
House Side	1043.4	31.7%	0.0	0.0%	1043.4	31.7%
Total	3292.3	100.0%	0.0	0.0%	3292.3	100.0%



## Report of Test

### LLIA001821-002A

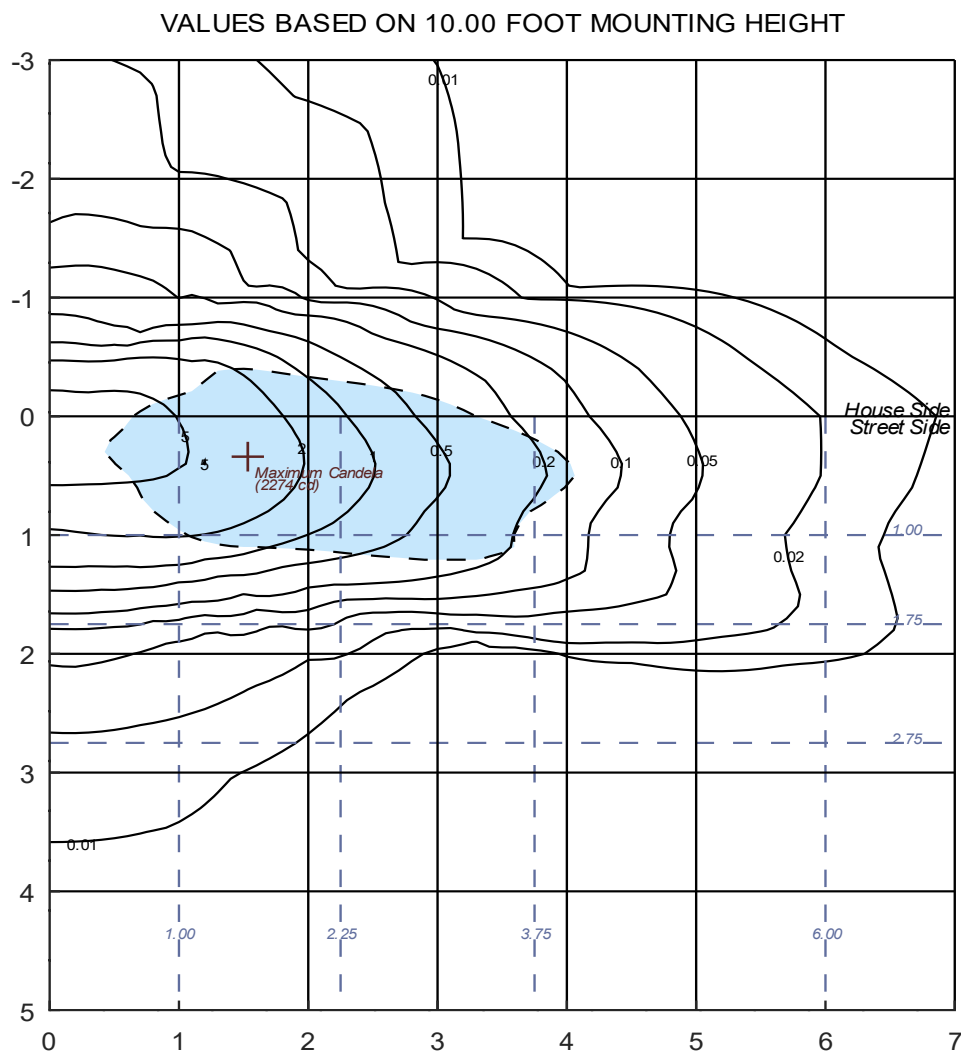


Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	2248.9	68.3%	0.0	0.0%	2248.9	68.3%
House Side	1043.4	31.7%	0.0	0.0%	1043.4	31.7%
Total	3292.3	100.0%	0.0	0.0%	3292.3	100.0%



## Report of Test LLIA001821-002A

### Iso-Illuminance Plot



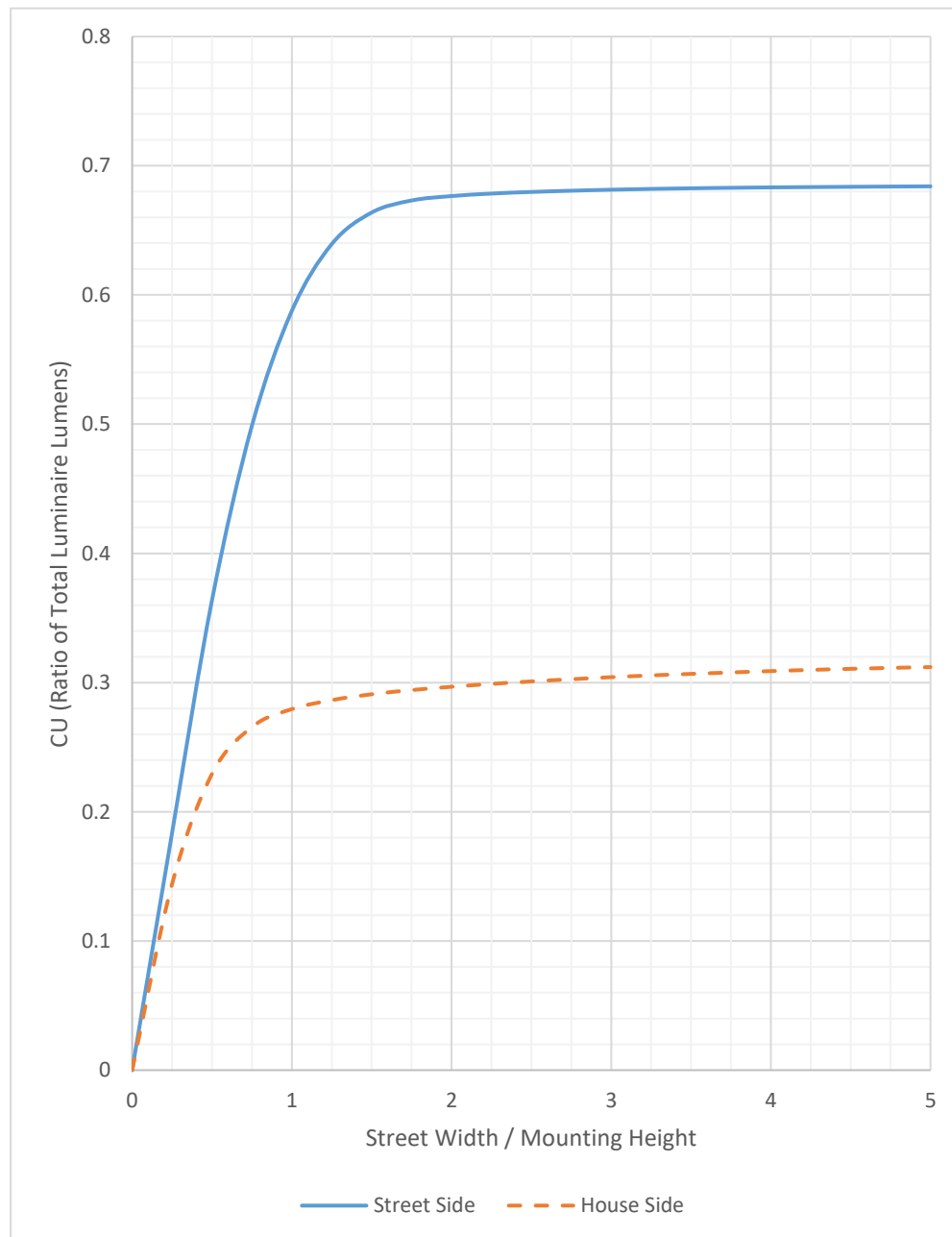
The isofootcandle values shown in the plot above are based on a mounting height of  $h = 10.0$  feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the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



## Report of Test

### LLIA001821-002A

#### Coefficients of Utilization Plot

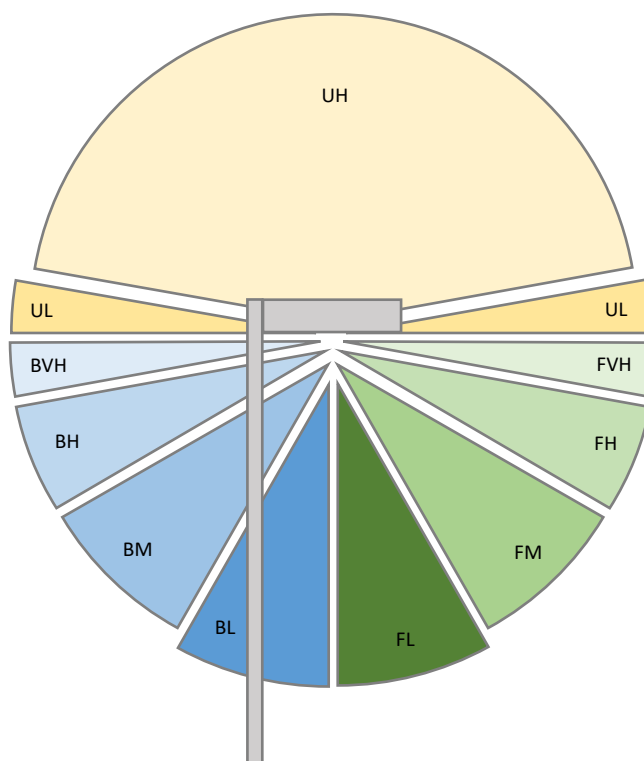




## Report of Test

### LLIA001821-002A

#### LCS Tables and Bug Classification



#### Back Light

BL - Back Low (0°-30°)	242.2 Lm
BM - Back Mid (30°-60°)	520.2 Lm
BH - Back High (60°-80°)	258.7 Lm
BVH - Back Very High (80°-90°)	22.3 Lm

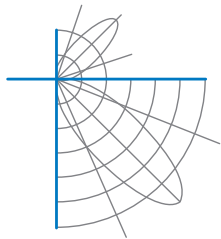
#### Uplight

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

#### Forward Light

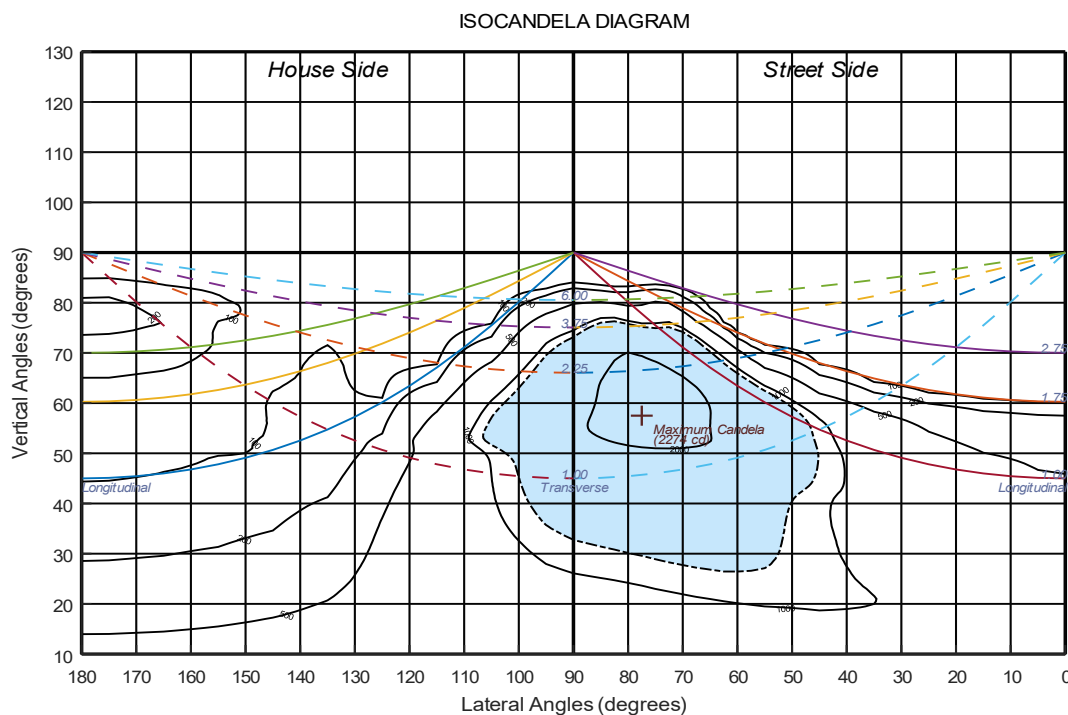
FL - Forward Low (0°-30°)	396.5 Lm
FM - Forward Mid (30°-60°)	1255.3 Lm
FH - Forward High (60°-80°)	580.3 Lm
FVH - Forward Very High (80°-90°)	16.9 Lm


BUG Ratings: B1 - U0 - G1



## Report of Test LLIA001821-002A

### 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	755	755	755	755	755	755	755	755	755	755	755	755	755	755	
	2.5	768	766	766	765	763	762	761	760	760	759	758	758	758	757	758
	5	802	802	799	794	786	779	771	770	768	767	764	764	763	762	762
	7.5	852	851	848	838	826	811	793	788	785	781	777	774	772	770	769
	10	899	900	893	883	869	848	825	818	811	805	798	794	788	785	782
	12.5	945	944	938	929	911	889	864	855	847	840	830	824	815	809	805
	15	969	967	966	962	953	934	906	899	890	882	871	863	854	845	839
	17.5	963	962	969	976	985	980	956	948	941	932	922	913	902	891	881
	20	920	922	938	969	1000	1019	1011	1004	997	988	976	968	957	943	933
	22.5	871	874	891	931	995	1048	1063	1060	1055	1046	1037	1027	1013	1001	989
	25	840	841	853	894	969	1060	1106	1112	1110	1106	1096	1086	1073	1059	1047
	27.5	821	823	836	870	943	1057	1142	1151	1156	1158	1152	1144	1132	1118	1105
	30	779	783	810	857	926	1044	1168	1186	1199	1207	1207	1204	1192	1178	1163
	32.5	707	715	756	830	917	1037	1183	1215	1237	1252	1257	1259	1254	1241	1228
	35	634	642	689	782	903	1030	1197	1237	1271	1296	1310	1315	1313	1306	1291
	37.5	591	598	642	734	880	1030	1210	1259	1302	1336	1357	1370	1373	1367	1356
	40	555	562	613	706	863	1039	1227	1279	1328	1370	1402	1421	1428	1427	1419
	42.5	532	540	594	707	874	1080	1266	1315	1365	1409	1446	1472	1485	1486	1482
	45	508	517	577	693	865	1114	1346	1395	1441	1482	1512	1536	1549	1550	1549
	47.5	484	491	547	667	847	1128	1409	1466	1519	1568	1609	1638	1652	1649	1637
	50	454	460	503	615	806	1128	1512	1589	1660	1724	1780	1823	1847	1846	1837
	52.5	399	405	440	551	756	1097	1559	1677	1792	1901	2007	2094	2157	2198	2208
	55	310	319	361	477	696	1064	1536	1657	1780	1894	2000	2098	2177	2230	2261
	57.5	200	206	244	353	563	961	1521	1651	1776	1897	2004	2099	2175	2230	2270
	60	102	106	130	194	355	721	1400	1559	1712	1857	1985	2089	2163	2218	2256
	62.5	68	72	74	88	176	442	1130	1337	1528	1715	1888	2034	2138	2208	2254
	65	61	63	61	62	77	237	774	1026	1252	1468	1684	1873	2022	2139	2211
	67.5	51	53	54	55	56	107	442	674	941	1190	1438	1649	1811	1950	2070
	70	45	45	46	49	51	62	202	342	601	885	1172	1423	1582	1678	1803
	72.5	62	60	49	45	45	46	71	114	246	525	806	1130	1381	1458	1488
	75	49	49	48	44	38	34	42	46	63	200	447	690	1002	1156	1128
	77.5	41	41	43	43	28	29	31	33	35	50	201	350	612	822	798
	80	25	25	30	36	19	23	20	21	22	26	68	177	296	487	529
	82.5	12	12	13	17	11	12	11	11	11	13	26	62	116	185	220
	85	6	6	6	6	5	5	4	4	4	4	6	9	13	17	19
	87.5	0	0	0	0	0	0	0	0	1	1	1	1	1	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														
		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	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755
	2.5	757	756	755	755	754	753	751	751	749	746	745	743	741	741	741
	5	760	760	759	758	755	754	749	745	738	730	723	716	710	707	708
	7.5	766	766	764	762	759	755	747	737	720	702	685	670	659	654	654
	10	779	778	774	772	767	762	748	725	696	666	639	617	601	593	592
	12.5	800	796	792	789	783	774	751	714	667	625	588	559	541	532	532
	15	832	825	821	817	808	796	759	703	639	583	539	509	489	479	477
	17.5	872	865	859	853	842	827	775	696	611	544	496	461	441	429	427
	20	920	911	903	897	884	864	793	694	589	509	455	416	392	380	378
	22.5	975	964	954	946	929	905	817	695	573	479	416	373	343	328	325
	25	1032	1018	1006	997	978	948	841	698	561	450	376	321	288	271	270
	27.5	1089	1074	1061	1050	1028	992	868	703	551	423	330	269	237	220	218
	30	1148	1133	1118	1105	1078	1036	892	710	542	391	281	221	194	182	180
	32.5	1210	1194	1176	1163	1131	1080	918	714	531	353	233	185	165	157	156
	35	1273	1256	1237	1221	1183	1126	942	721	517	313	195	159	148	140	140
	37.5	1338	1320	1300	1279	1236	1167	964	729	496	267	164	140	130	126	126
	40	1402	1385	1362	1339	1285	1207	978	734	468	223	140	124	119	117	117
	42.5	1465	1447	1423	1397	1332	1240	991	733	432	177	121	114	112	108	108
	45	1533	1513	1485	1452	1377	1271	998	724	383	139	111	107	103	98	97
	47.5	1616	1590	1557	1517	1426	1304	1006	702	324	113	104	102	98	91	89
	50	1818	1781	1735	1681	1558	1402	1043	677	267	104	101	99	95	87	85
	52.5	2182	2115	2036	1951	1776	1585	1191	710	228	103	102	95	90	82	79
	55	2264	2233	2174	2091	1896	1664	1198	625	183	103	102	90	82	76	73
	57.5	2274	2244	2178	2086	1853	1593	1126	534	142	105	102	84	77	74	70
	60	2271	2240	2164	2054	1788	1510	1026	417	109	107	102	82	81	78	70
	62.5	2272	2241	2157	2032	1728	1427	894	279	91	108	100	79	78	82	79
	65	2246	2215	2118	1980	1648	1348	735	169	86	108	95	76	87	99	99
	67.5	2152	2141	2040	1884	1526	1245	553	104	83	107	91	77	112	128	130
	70	1945	2009	1931	1765	1382	1112	373	72	78	104	87	86	139	162	166
	72.5	1640	1768	1743	1567	1195	960	234	57	73	97	83	93	156	175	178
	75	1169	1307	1386	1288	947	759	129	45	65	89	77	94	179	233	237
	77.5	743	786	913	915	700	528	56	34	57	77	73	115	191	230	231
	80	453	421	477	521	481	301	26	25	48	61	64	115	174	213	213
	82.5	196	162	160	191	243	123	13	17	30	44	55	84	136	168	166
	85	16	14	15	18	28	16	5	7	11	14	18	30	63	97	94
	87.5	1	1	1	1	1	1	2	2	2	2	2	2	3	3	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														
		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

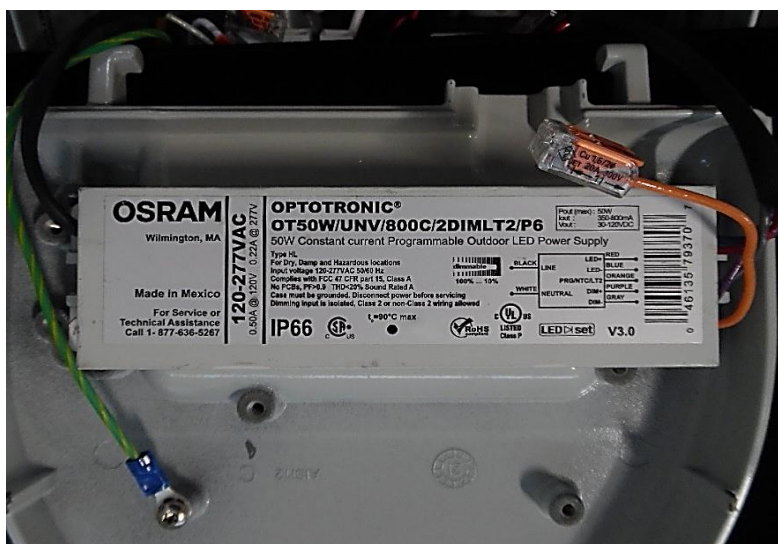
		Lateral (C-Plane) Angles														
		77.5	80	82.5	85	90	95	105	115	125	135	145	155	165	175	180
Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	97.5	0	0	0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

### LLIA001821-002A

### Additional Pictures of Test Subject



## Report of Test

### LLIA001821-002A

Test Distance                      9.5 m  
Ambient Temperature          25.2 °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

**LLIA001821-002B**

Integrating Sphere Report

Catalog Number: L6-16S-5-X-2ES-M-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 400mA, Littlefuse LSP10277SBX3472 suppressor.



### Performance Summary

Voltage	120.0 Vac
Current	0.1935 A
Power	22.36 W
Frequency	59.99 Hz
Power Factor	0.963
Current THD	8.4 %
Total Luminous Flux	3297.9 lm
Efficacy	147.5 lm/W
Chromaticity (x,y)	(0.4389, 0.4102)
(u',v')	(0.2492, 0.5241)
Duv	0.0021
CCT	3016 K
CRI (Ra)	71
R9	-43
TM-30: Rf	72
TM-30: Rg	93
TM-30: Rcs,h1	-18

Prepared For:

LED Roadway Lighting

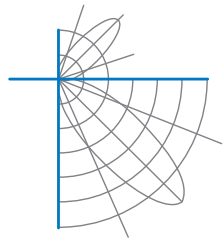
84 Chain Lake Drive

Suite 403

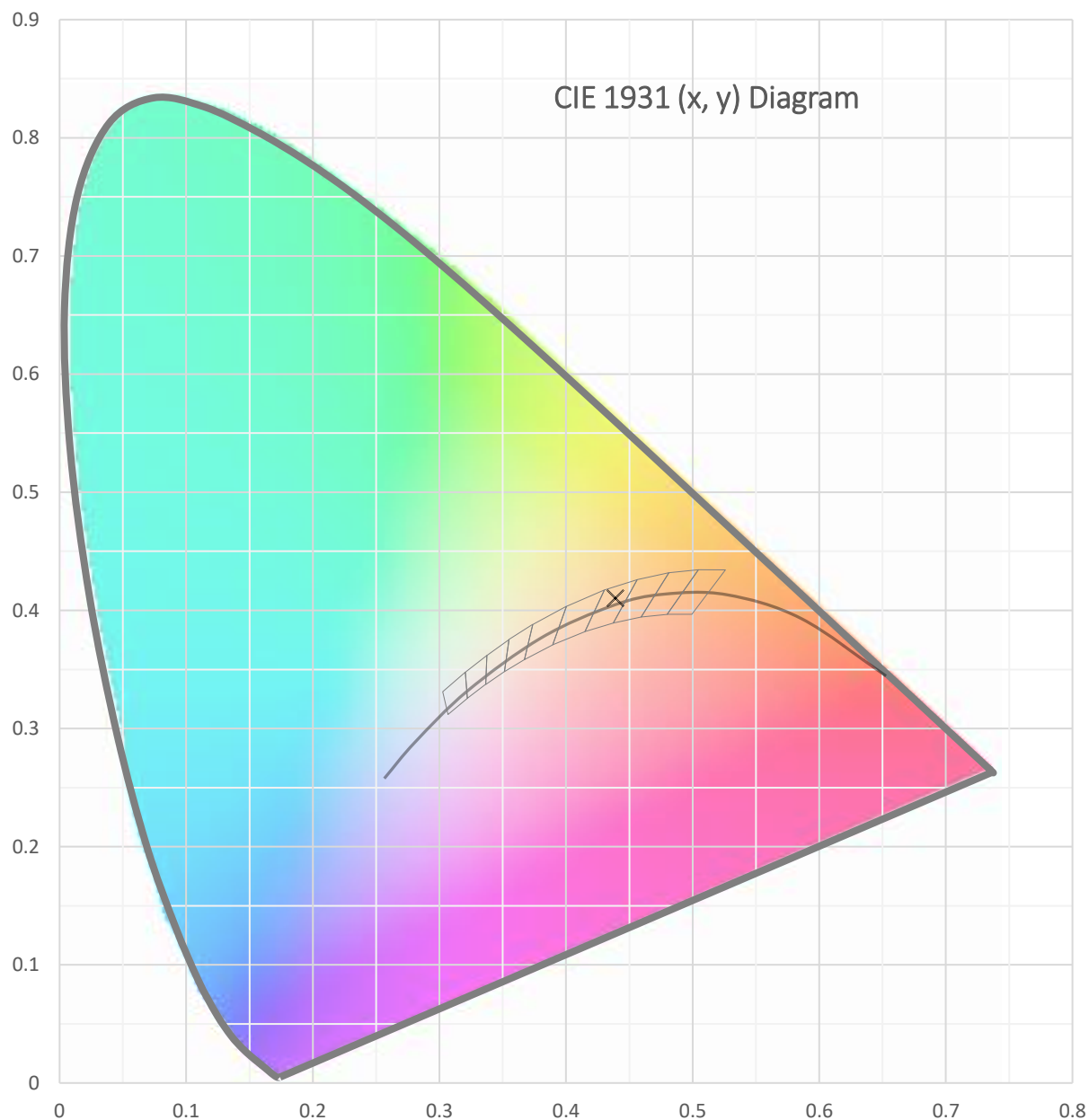
Halifax, Nova Scotia B3S 1A2, Canada

Test date: 07/29/2022

Report date: 08/01/2022



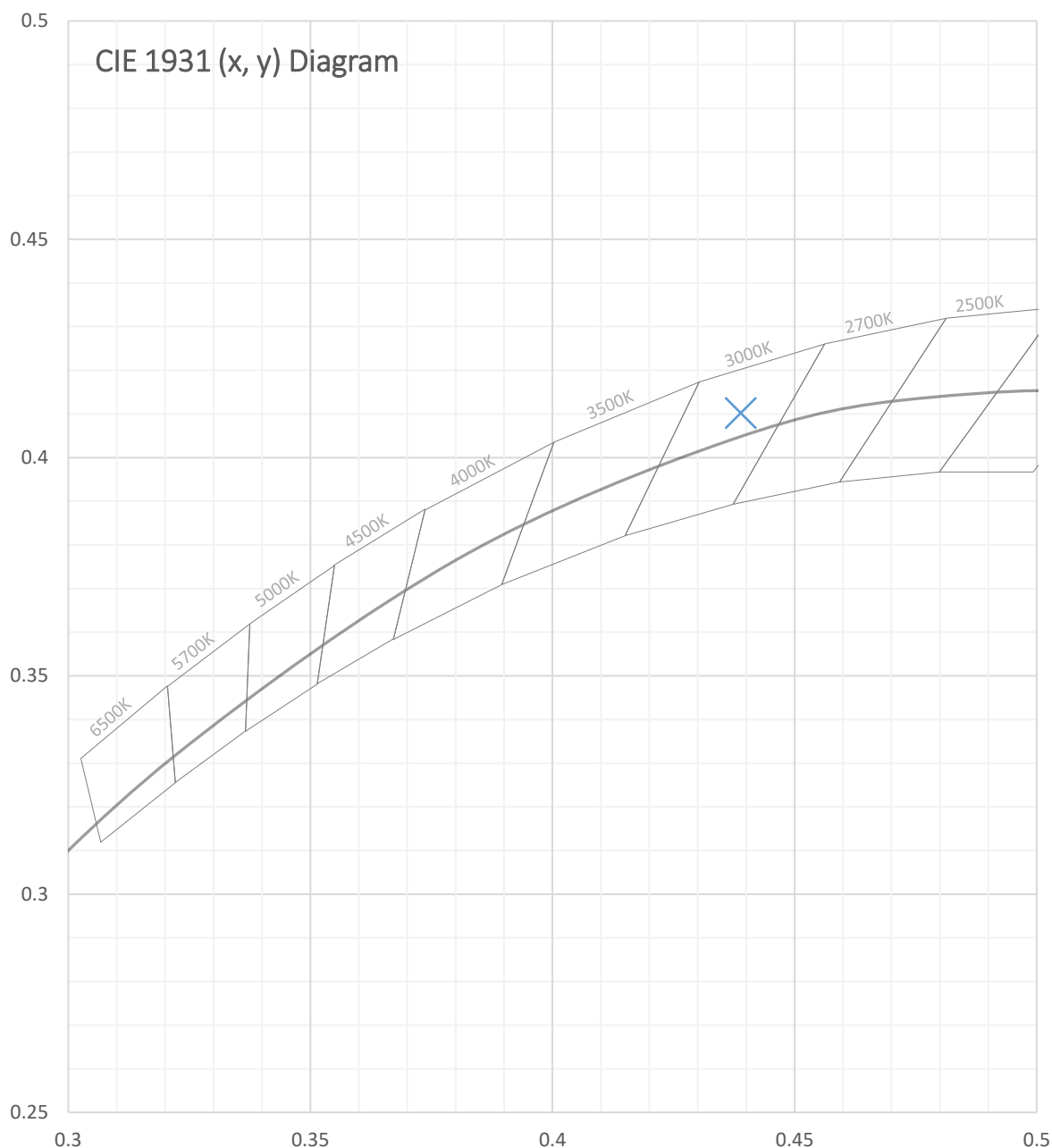
Test Report Number: LLIA001821-002B







Test Report Number: LLIA001821-002B





Test Report Number: LLIA001821-002B

Total Radiant Flux	9.208 W
Total Luminous Flux	3297.9 Lm
Chromaticity CIE 1931 (x, y)	(0.4389, 0.4102)
Chromaticity CIE 1976 (u', v')	(0.2492, 0.5241)
Correlated Color Temperature (CCT)	3016 K
Color Rendering Index (Ra)	71
R1	66
R2	81
R3	95
R4	67
R5	66
R6	75
R7	76
R8	39
R9	-43
R10	59
R11	63
R12	53
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 $\frac{V_{\lambda}}{V_{\lambda}^{\prime}}$	1.210

**Electrical Data**

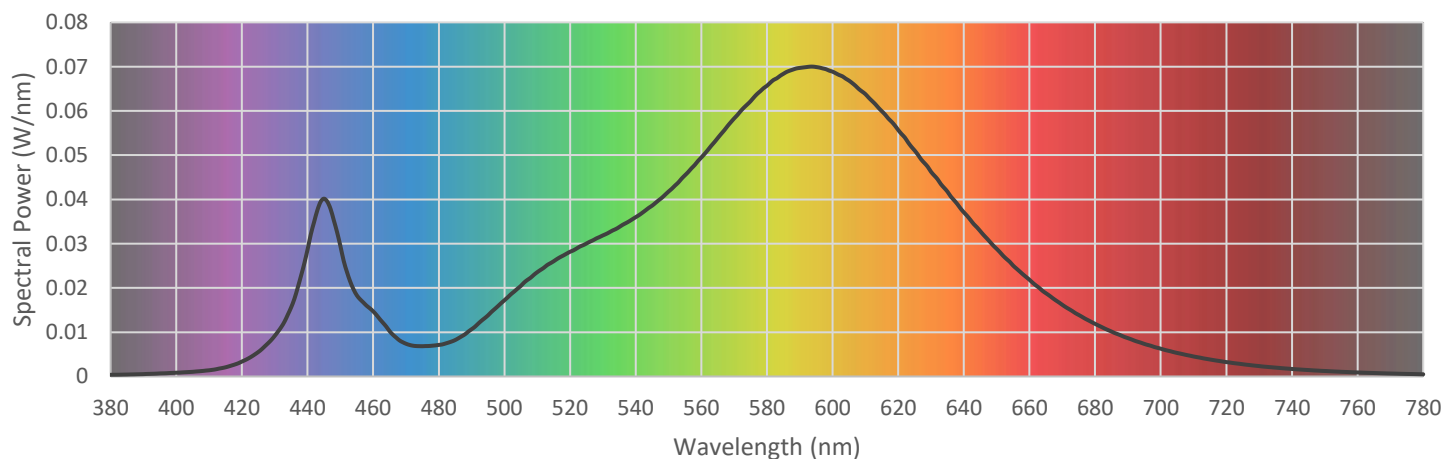
Voltage	120.0 Vac
Current	0.1935 A
Power	22.36 W
Frequency	59.99 Hz
Power Factor	0.963
Current THD	8.4 %



Test Report Number: LLIA001821-002B

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

380	0.000381	480	0.007133	580	0.065675	680	0.011883
385	0.000431	485	0.008232	585	0.068373	685	0.010146
390	0.000528	490	0.010676	590	0.069707	690	0.008663
395	0.000688	495	0.013806	595	0.069907	695	0.007352
400	0.000847	500	0.017219	600	0.068864	700	0.006279
405	0.001054	505	0.020459	605	0.066841	705	0.005318
410	0.001397	510	0.023563	610	0.063802	710	0.004517
415	0.002069	515	0.026028	615	0.059931	715	0.003838
420	0.003372	520	0.028174	620	0.055686	720	0.003249
425	0.005533	525	0.030041	625	0.051065	725	0.002762
430	0.009180	530	0.031866	630	0.046243	730	0.002346
435	0.015608	535	0.033770	635	0.041763	735	0.001996
440	0.028686	540	0.035989	640	0.037078	740	0.001694
445	0.040167	545	0.038588	645	0.032843	745	0.001452
450	0.029500	550	0.041767	650	0.028845	750	0.001238
455	0.018351	555	0.045443	655	0.025062	755	0.001053
460	0.014706	560	0.049470	660	0.021847	760	0.000910
465	0.010232	565	0.053865	665	0.018811	765	0.000778
470	0.007394	570	0.058295	670	0.016192	770	0.000665
475	0.006838	575	0.062173	675	0.013902	775	0.000572
						780	0.000494





## Test Report Number: LLIA001821-002B

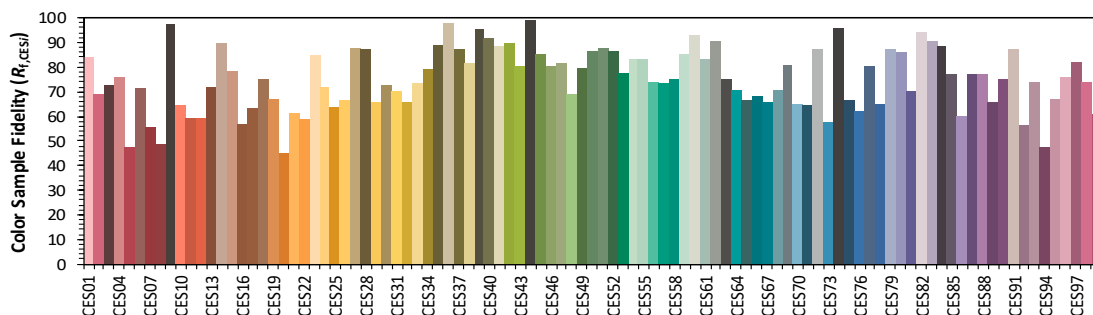
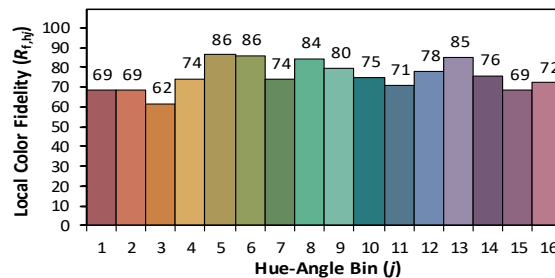
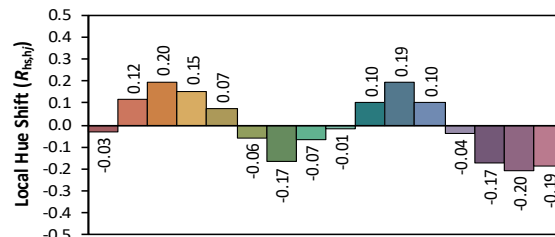
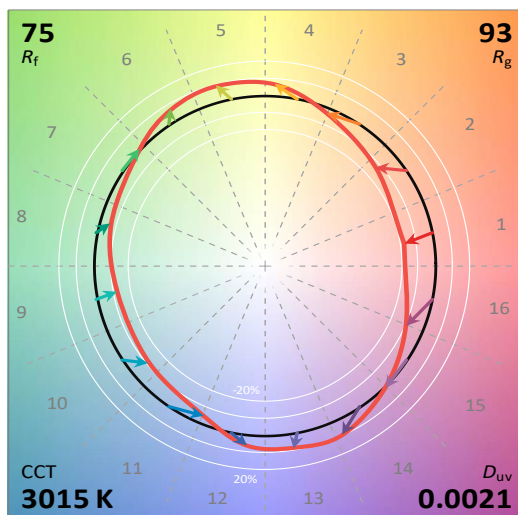
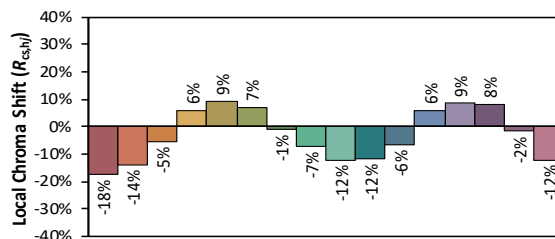
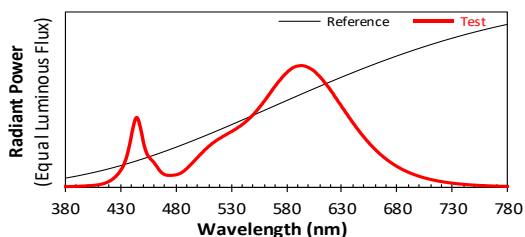
### IES TM-30 Details

Source: LLIA001821-002B

Manufacturer: LED Roadway Lighting

Date: 8/1/2022

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



#### Notes:

x 0.4389  
y 0.4101  
u' 0.2493  
v' 0.5240

CIE 13.3-1995  
(CRI)

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



## Test Report Number: LLIA001821-002B

**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:** 25.3 °C

**Test Procedure:** Tested in accordance with the applicable sections of:  
LM-79-19, LM-78-20, LM-58-20, ANSI\_ANSI C78.377-2017, TM-30-20

**Significance:** The laboratory has not participated in the selection of samples to be tested.  
All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

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

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

This report is free of erasures and corrections

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## Report of Test

**LLIA001821-002C**

Electrical Test Report

Catalog Number: L6-16S-5-X-2ES-M-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 400mA, Littlefuse LSP10277SBX3472 suppressor.



### Performance Summary

Voltage	277.0 Vac
Current	0.0974 A
Power	22.63 W
Frequency	60.00 Hz
Power Factor	0.839
Current THD	18.2 %
Ambient Temperature:	25.2 °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