



Report of Test

LLIA001594-002A

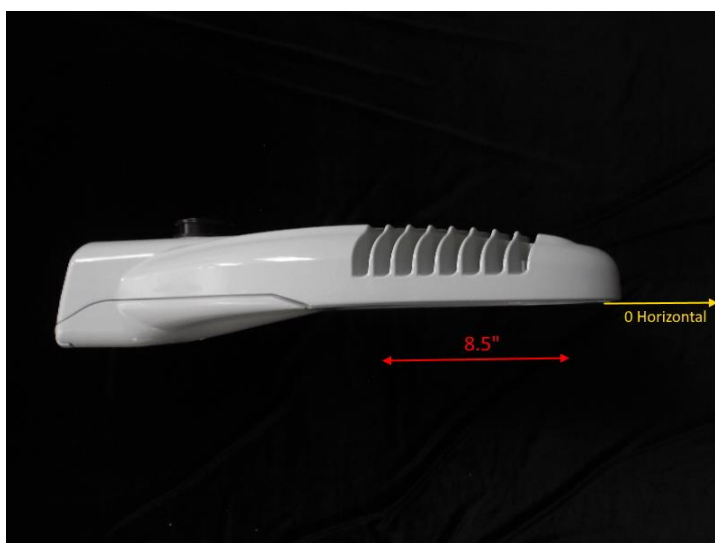
Roadway/Area Light Distribution Photometry Test Report

Catalog Number: NXT-36S-5-X-2ES-5-XX-4-XX-X-XX-X

Pole/arm mounted, grey painted cast aluminum housing and door/driver compartment cover, one circuit board, one clear plastic lens with optic below each LED and clear flat glass enclosure.

36 white LEDs

Osram Optotronic OT100W/UNV/800C/2DIM/P6 LED driver at 525mA, WH91-5U1-03 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 V	Luminous Flux	7335.4 Lumens
Input Current	0.5129 A	Total Efficacy	120.1 Lm/W
Input Power	61.09 W		
Frequency	60.00 Hz	Roadway Throw	Medium
Power Factor	0.992	Roadway Type	Type II
Current THD	1.7 %	IES BUG Rating	B2 - U0 - G2

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

Test date: 11/19/2021

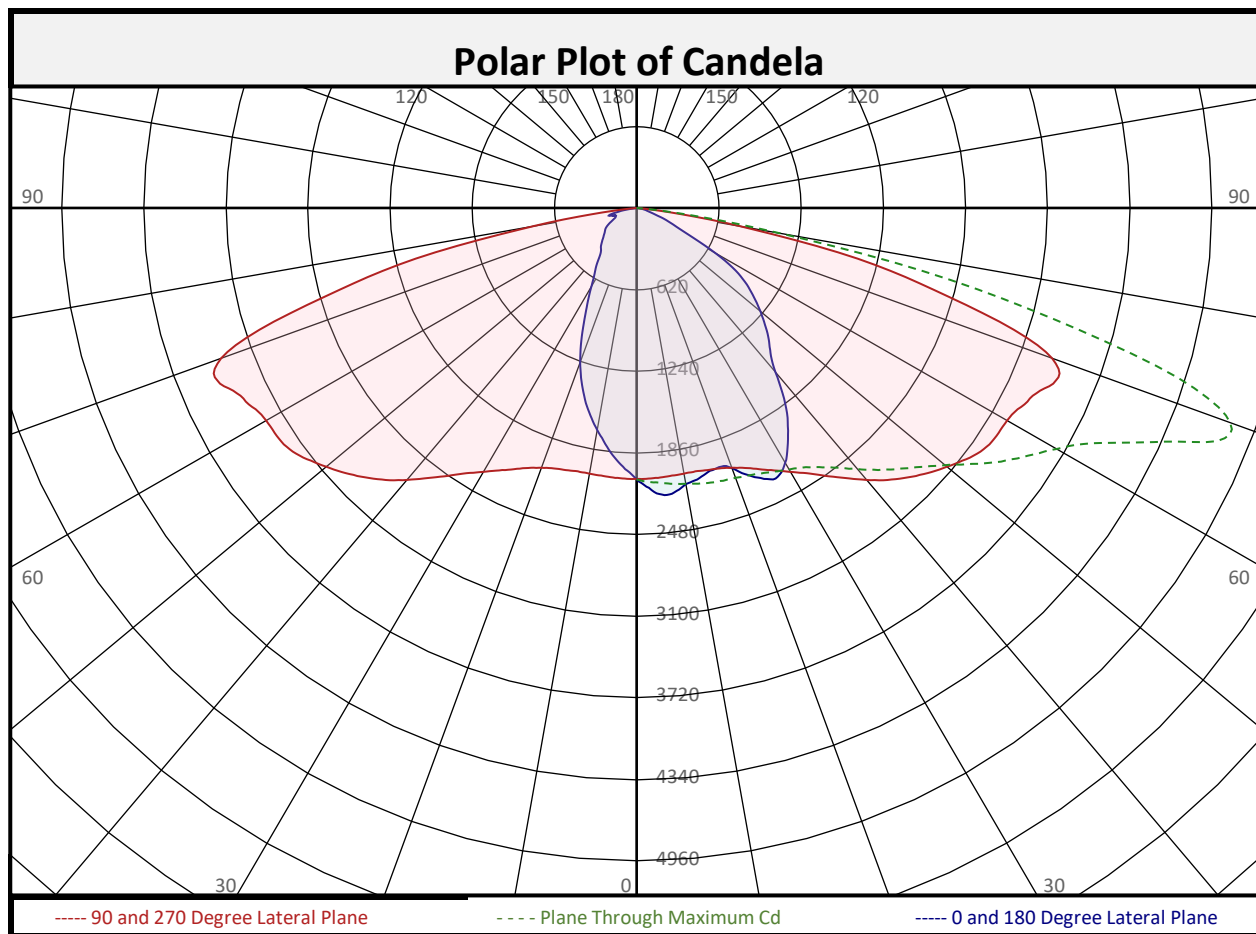
Report date: 11/22/2021

Signed: _____



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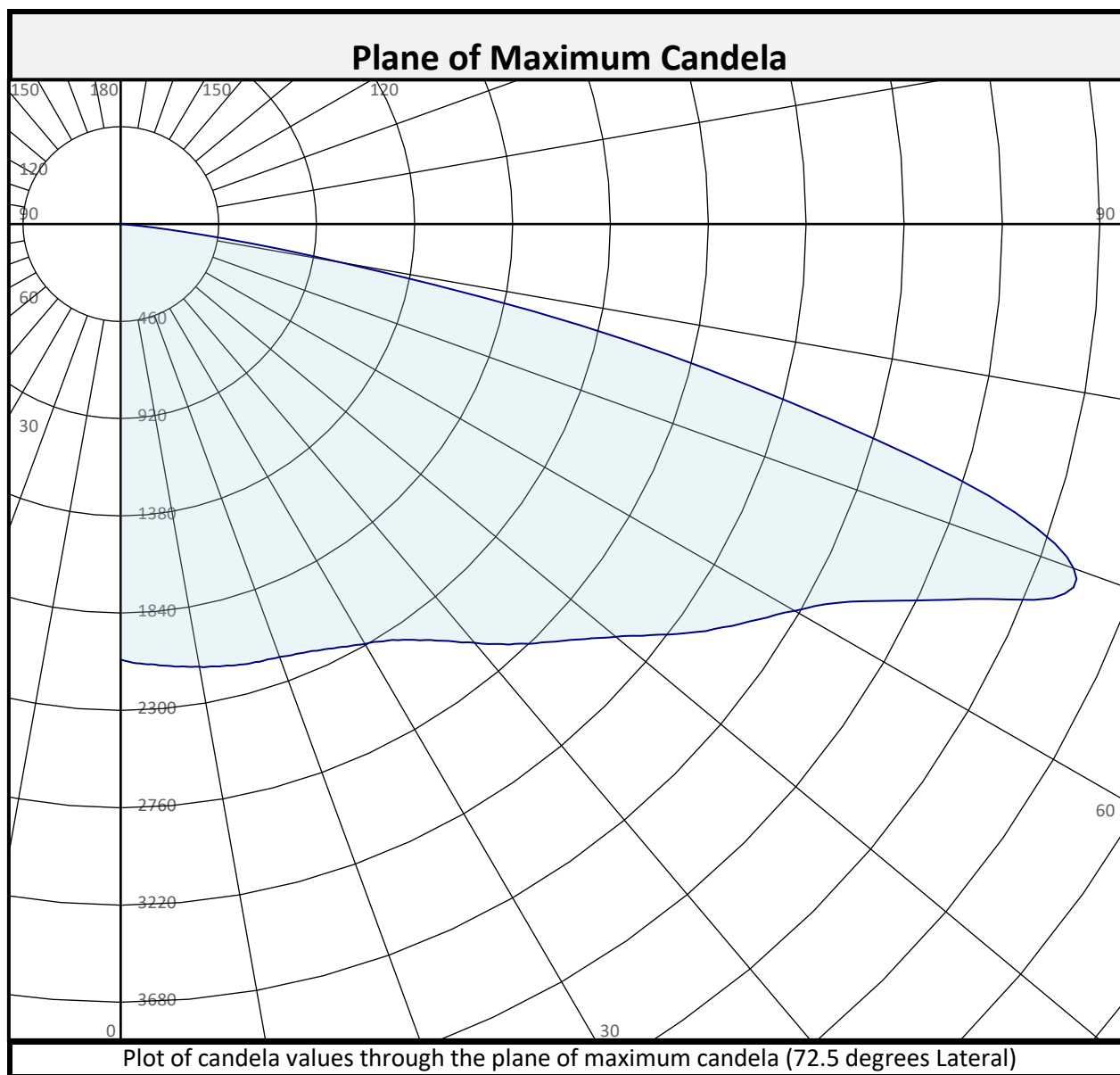


Zonal Flux Summary										
Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total
0-10	193.9	2.6%		90-100	0.0	0.0%		0-20	735.3	10.0%
10-20	541.4	7.4%		100-110	0.0	0.0%		0-30	1576	21.5%
20-30	841.0	11.5%		110-120	0.0	0.0%		0-40	2667	36.4%
30-40	1091	14.9%		120-130	0.0	0.0%		0-60	5303	72.3%
40-50	1266	17.3%		130-140	0.0	0.0%		0-80	7283	99.3%
50-60	1370	18.7%		140-150	0.0	0.0%		10-90	7141	97.4%
60-70	1288	17.6%		150-160	0.0	0.0%		20-50	3198	43.6%
70-80	691.7	9.4%		160-170	0.0	0.0%		40-90	4668	63.6%
80-90	52.2	0.7%		170-180	0.0	0.0%		60-90	2032	27.7%
0-90	7335	100.0%		90-180	0.0	0.0%		0-180	7335	100.0%



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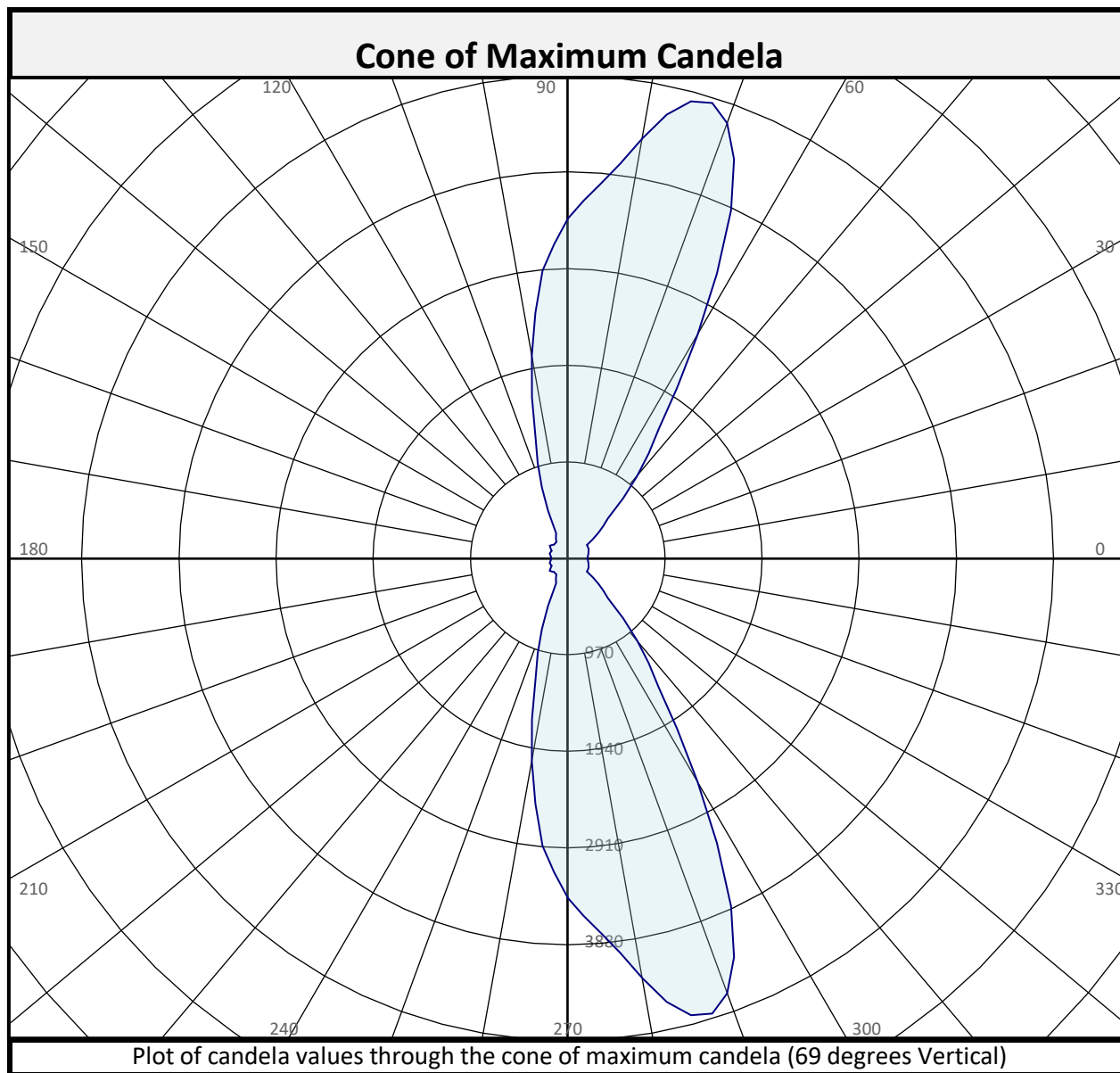


Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	4870.5	66.4%	0.0	0.0%	4870.5	66.4%
House Side	2464.9	33.6%	0.0	0.0%	2464.9	33.6%
Total	7335.4	100.0%	0.0	0.0%	7335.4	100.0%



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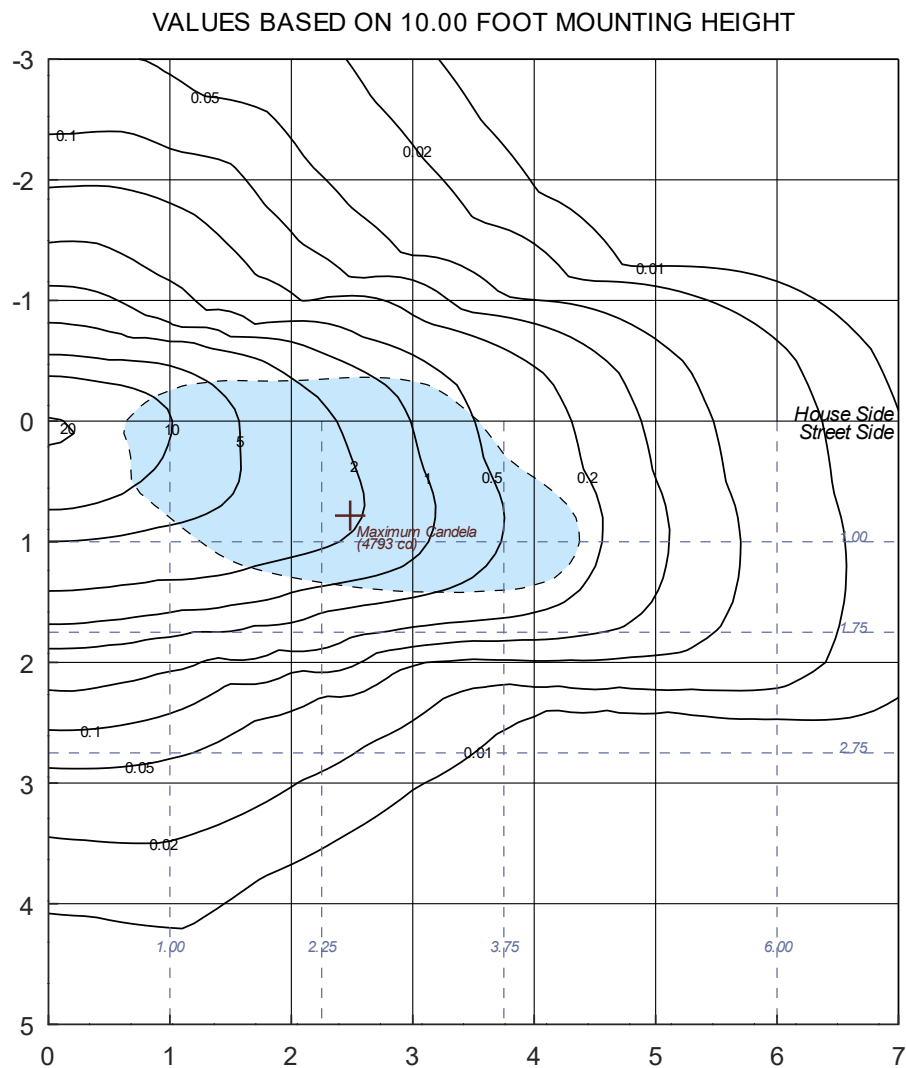


Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	4870.5	66.4%	0.0	0.0%	4870.5	66.4%
House Side	2464.9	33.6%	0.0	0.0%	2464.9	33.6%
Total	7335.4	100.0%	0.0	0.0%	7335.4	100.0%



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Iso-Illuminance Plot



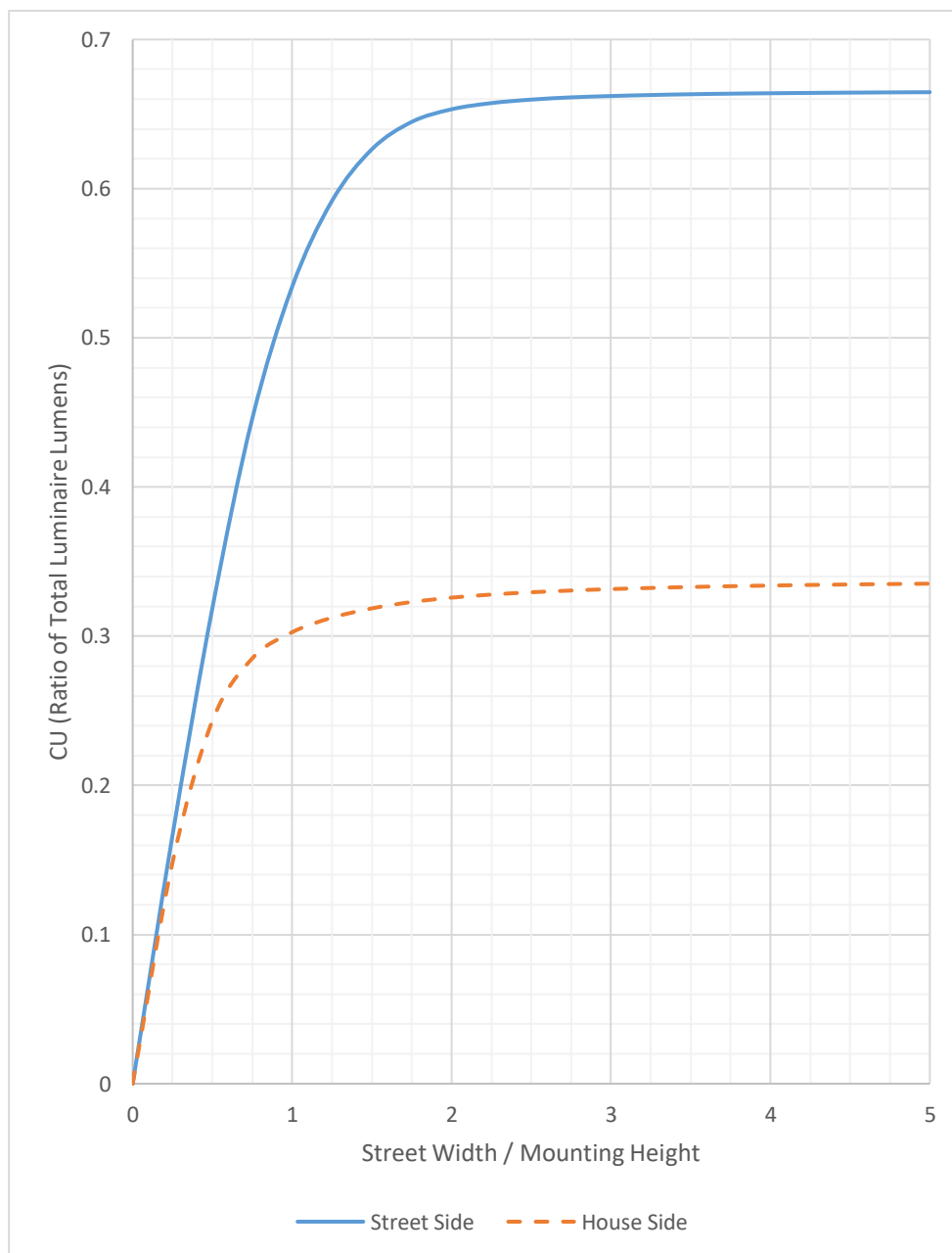
The isofootcandle values shown in the plot above are based on a mounting height of $h = 10.0$ feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the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



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Coefficients of Utilization Plot

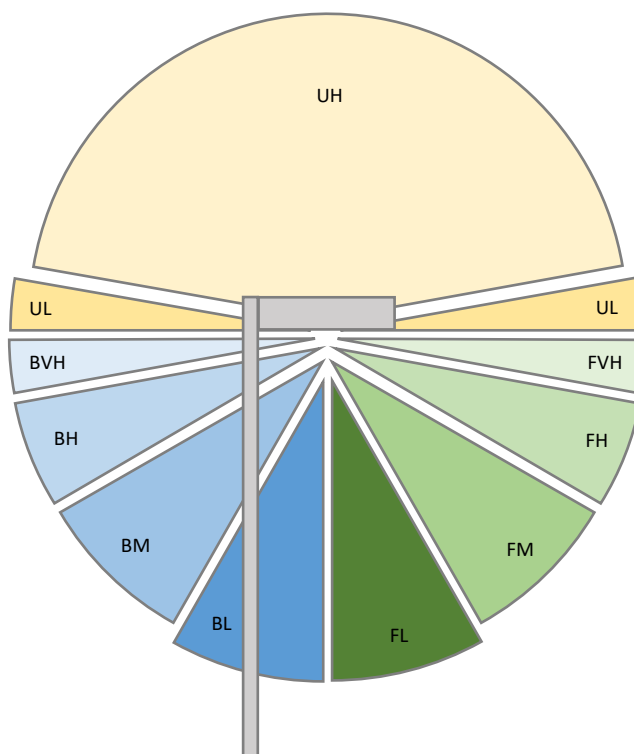




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LCS Tables and Bug Classification



Back Light

BL - Back Low (0°-30°)	668.4 Lm
BM - Back Mid (30°-60°)	1227.8 Lm
BH - Back High (60°-80°)	550.6 Lm
BVH - Back Very High (80°-90°)	18.0 Lm

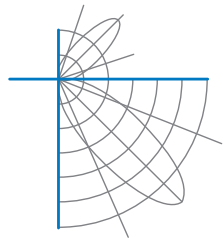
Forward Light

FL - Forward Low (0°-30°)	907.9 Lm
FM - Forward Mid (30°-60°)	2499.0 Lm
FH - Forward High (60°-80°)	1429.5 Lm
FVH - Forward Very High (80°-90°)	34.1 Lm

Uplight

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

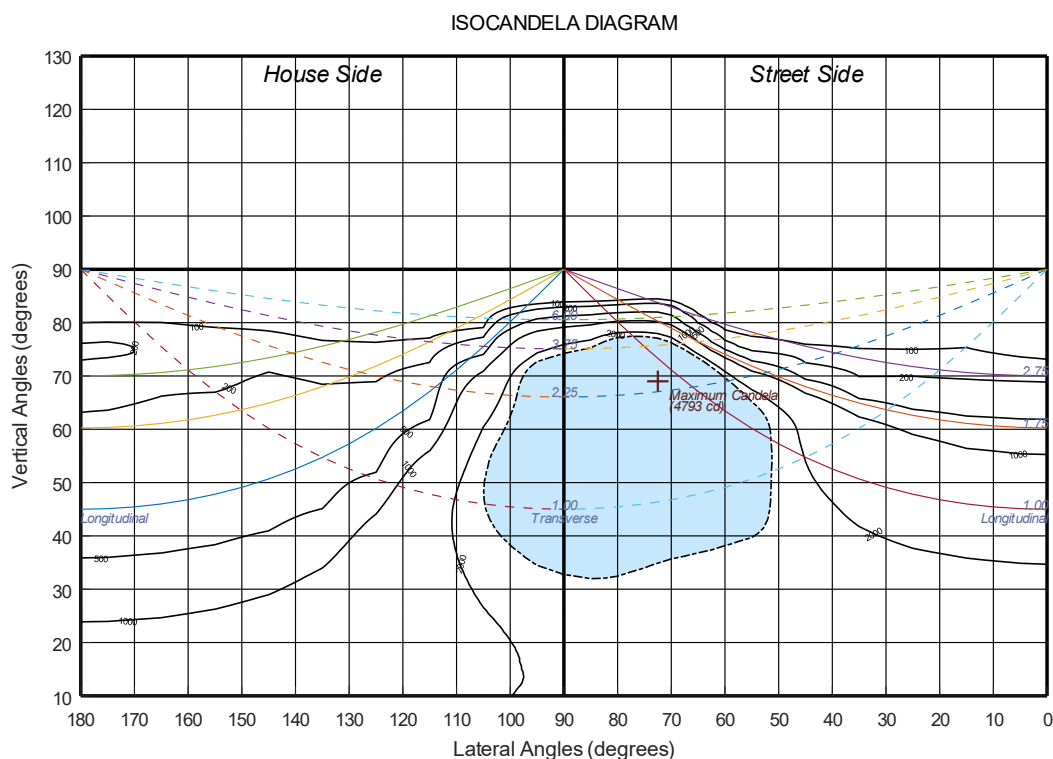
BUG Ratings: B2 - U0 - G2



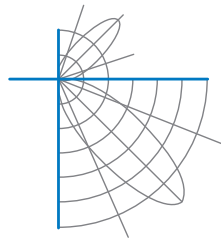
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Iso-Candela Plot



 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	2059	2059	2059	2059	2059	2059	2059	2059	2059	2059	2059	2059	2059	2059	2059
	2.5	2126	2130	2129	2121	2117	2106	2097	2095	2090	2088	2085	2085	2083	2079	2077
	5	2183	2186	2185	2179	2170	2153	2132	2126	2120	2114	2109	2104	2101	2095	2089
	7.5	2177	2178	2183	2183	2184	2178	2163	2157	2149	2144	2137	2126	2119	2111	2102
	10	2129	2135	2140	2147	2158	2170	2171	2169	2168	2163	2155	2145	2139	2125	2115
	12.5	2111	2115	2116	2115	2120	2142	2161	2165	2166	2167	2162	2157	2151	2143	2134
	15	2075	2079	2085	2094	2102	2108	2141	2147	2155	2161	2164	2166	2161	2157	2146
	17.5	2062	2065	2063	2068	2078	2092	2112	2125	2138	2149	2157	2164	2166	2170	2162
	20	2101	2098	2081	2064	2063	2076	2104	2109	2121	2139	2154	2163	2174	2178	2180
	22.5	2194	2196	2168	2118	2069	2071	2100	2110	2118	2134	2151	2171	2188	2197	2205
	25	2269	2264	2240	2197	2125	2083	2109	2119	2133	2147	2166	2184	2204	2223	2236
	27.5	2300	2303	2297	2252	2195	2121	2133	2142	2157	2173	2190	2213	2232	2254	2269
	30	2235	2240	2264	2279	2245	2189	2168	2178	2194	2210	2224	2244	2266	2293	2311
	32.5	2119	2125	2170	2224	2270	2250	2222	2229	2240	2256	2272	2289	2310	2335	2360
	35	1983	1993	2043	2124	2238	2289	2285	2296	2309	2326	2340	2357	2378	2400	2424
	37.5	1823	1835	1910	2008	2164	2306	2345	2359	2377	2400	2420	2438	2457	2484	2512
	40	1625	1641	1745	1884	2068	2289	2402	2426	2451	2479	2508	2529	2556	2584	2611
	42.5	1492	1503	1586	1752	1973	2247	2451	2493	2527	2562	2602	2637	2666	2697	2722
	45	1405	1412	1480	1632	1884	2196	2499	2557	2609	2658	2706	2748	2777	2797	2816
	47.5	1309	1319	1383	1528	1793	2135	2538	2628	2702	2767	2821	2861	2892	2908	2919
	50	1215	1220	1279	1430	1696	2079	2578	2696	2798	2880	2945	2988	3020	3036	3040
	52.5	1113	1122	1176	1325	1594	2027	2612	2766	2896	3001	3082	3141	3178	3189	3184
	55	1013	1019	1069	1208	1484	1980	2646	2818	2983	3117	3221	3293	3338	3355	3344
	57.5	884	891	939	1093	1373	1926	2664	2858	3046	3215	3349	3446	3493	3498	3479
	60	683	694	748	920	1237	1870	2668	2886	3113	3309	3465	3575	3644	3657	3622
	62.5	446	451	499	642	974	1714	2622	2888	3170	3437	3639	3762	3832	3866	3844
	65	317	328	332	387	604	1340	2418	2771	3150	3525	3846	4066	4178	4207	4168
	67.5	242	249	253	274	317	850	1981	2410	2902	3434	3922	4299	4549	4643	4613
	70	157	161	178	199	197	406	1278	1718	2291	2970	3683	4252	4602	4763	4744
	72.5	109	115	130	140	142	199	575	888	1351	2023	2826	3584	4053	4277	4283
	75	82	85	102	100	102	120	177	264	493	894	1566	2367	2939	3255	3346
	77.5	64	67	86	68	70	77	99	112	144	302	650	1256	1885	2210	2356
	80	42	45	63	50	42	52	53	58	68	101	195	441	859	1069	1129
	82.5	21	22	31	31	23	26	27	29	32	40	72	141	296	384	386
	85	7	7	9	10	9	11	12	12	13	15	20	25	35	40	38
	87.5	2	2	2	3	3	3	4	4	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														
		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	2059	2059	2059	2059	2059	2059	2059	2059	2059	2059	2059	2059	2059	2059	2059
	2.5	2075	2072	2067	2063	2057	2051	2042	2026	2014	2003	1995	1990	1986	1983	1985
	5	2082	2076	2073	2067	2055	2043	2016	1992	1971	1951	1932	1921	1910	1904	1903
	7.5	2094	2085	2076	2067	2049	2033	1994	1959	1922	1890	1858	1836	1822	1811	1809
	10	2105	2094	2082	2071	2049	2022	1975	1921	1870	1820	1775	1744	1726	1713	1712
	12.5	2121	2105	2092	2079	2048	2017	1956	1887	1816	1751	1699	1660	1634	1615	1613
	15	2136	2122	2110	2094	2061	2022	1946	1855	1760	1686	1620	1568	1530	1508	1506
	17.5	2152	2142	2131	2113	2074	2033	1938	1825	1715	1619	1534	1465	1411	1385	1381
	20	2178	2168	2158	2140	2099	2052	1943	1804	1671	1547	1437	1346	1280	1246	1245
	22.5	2204	2204	2197	2184	2138	2085	1954	1788	1630	1470	1328	1217	1137	1095	1090
	25	2244	2243	2242	2230	2189	2132	1980	1784	1584	1387	1213	1074	978	935	930
	27.5	2285	2292	2292	2287	2247	2187	2015	1781	1538	1291	1080	927	838	799	796
	30	2329	2339	2347	2345	2315	2250	2057	1786	1483	1189	944	799	718	681	677
	32.5	2379	2398	2410	2412	2388	2326	2108	1795	1427	1071	821	688	621	592	589
	35	2448	2471	2490	2500	2484	2417	2163	1799	1364	953	712	601	551	528	525
	37.5	2537	2562	2582	2595	2585	2518	2224	1796	1290	842	620	526	480	457	455
	40	2637	2665	2685	2699	2696	2625	2286	1785	1197	729	532	454	429	419	417
	42.5	2743	2766	2789	2802	2802	2731	2336	1763	1087	618	453	416	406	400	399
	45	2834	2855	2877	2893	2894	2817	2377	1720	943	505	405	391	382	373	372
	47.5	2927	2943	2962	2980	2980	2888	2391	1635	781	420	375	366	358	346	345
	50	3037	3038	3051	3062	3057	2949	2386	1511	617	379	349	340	337	327	323
	52.5	3166	3155	3150	3153	3135	3001	2352	1330	471	355	326	320	332	311	303
	55	3310	3267	3241	3228	3195	3034	2293	1096	377	337	304	304	319	300	290
	57.5	3427	3362	3309	3280	3220	3020	2181	849	326	315	282	291	297	278	271
	60	3551	3459	3384	3334	3228	2971	2028	627	293	291	266	277	272	249	242
	62.5	3763	3644	3530	3449	3272	2942	1847	462	267	265	259	255	240	214	208
	65	4058	3896	3727	3596	3329	2920	1645	362	245	238	246	225	210	185	181
	67.5	4450	4217	3972	3778	3424	2928	1406	305	219	211	232	193	194	173	170
	70	4544	4235	3925	3690	3336	2835	1122	256	188	181	209	168	183	173	172
	72.5	4134	3825	3447	3176	2870	2441	742	201	158	153	176	148	173	184	191
	75	3281	3085	2759	2464	2210	1850	386	140	121	121	144	132	183	216	214
	77.5	2371	2276	2056	1769	1555	1266	183	93	82	89	114	125	161	169	165
	80	1127	1081	1000	879	780	631	72	54	50	59	75	85	101	104	101
	82.5	367	342	312	277	263	203	32	30	27	32	40	44	49	21	9
	85	34	31	29	27	24	23	14	13	12	13	13	13	7	2	2
	87.5	5	5	5	5	5	5	4	4	4	3	2	1	1	0	0
	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 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 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

LLIA001594-002A

Additional Pictures of Test Subject





Report of Test

LLIA001594-002A

Test Distance 9.5 m
Ambient Temperature 25.1 °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-31-95 and LM-10-96.

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.

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-75-01.

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.



Report of Test

LLIA001594-002B

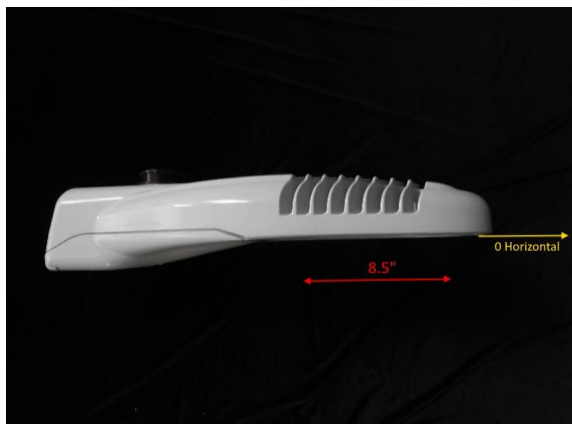
Integrating Sphere Report

Catalog Number: NXT-36S-5-X-2ES-5-XX-4-XX-X-XX-X

Pole/arm mounted, grey painted cast aluminum housing and door/driver compartment cover, one circuit board, one clear plastic lens with optic below each LED and clear flat glass enclosure.

36 white LEDs

Osram Optotronic OT100W/UNV/800C/2DIM/P6 LED driver at 525mA, WH91-5U1-03 surge suppressor



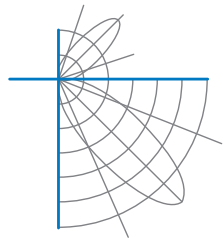
Performance Summary

Voltage	120.0 Vac
Current	0.5143 A
Power	60.94 W
Frequency	59.99 Hz
Power Factor	0.988
Current THD	1.7 %
Total Luminous Flux	7346.7 lm
Efficacy	120.6 lm/W
Chromaticity (x,y)	(0.4319, 0.4070)
(u',v')	(0.2461, 0.5218)
Duv	0.0019
CCT	3110 K
CRI (Ra)	73
R9	-27
TM-30: Rf	72
TM-30: Rg	96
TM-30: Rcs,h1	-15

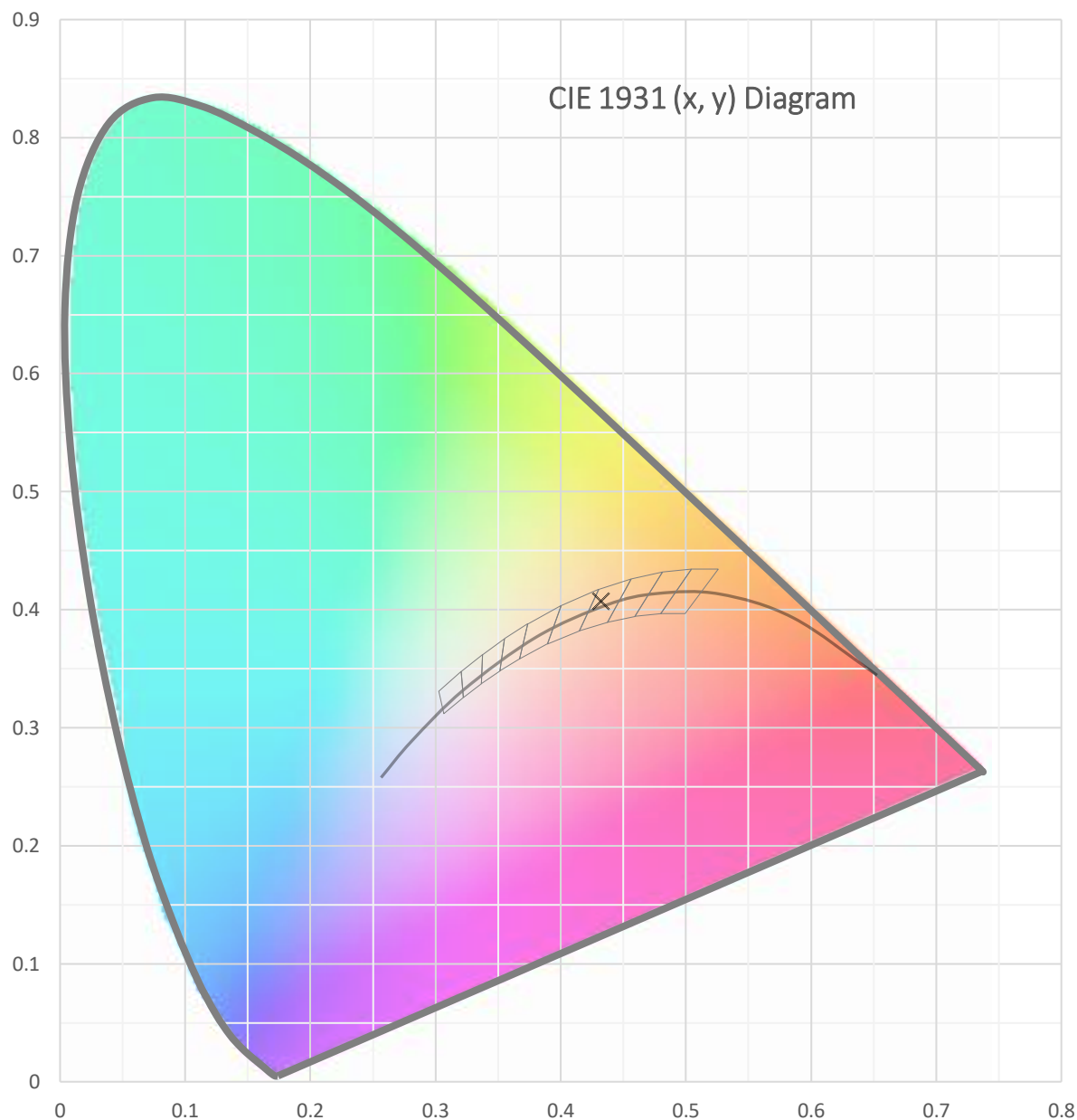
Prepared For:
LED Roadway Lighting
84 Chain Lake Drive
Suite 403
Halifax, Nova Scotia B3S 1A2, Canada

Test date: 11/19/2021

Report date: 11/22/2021

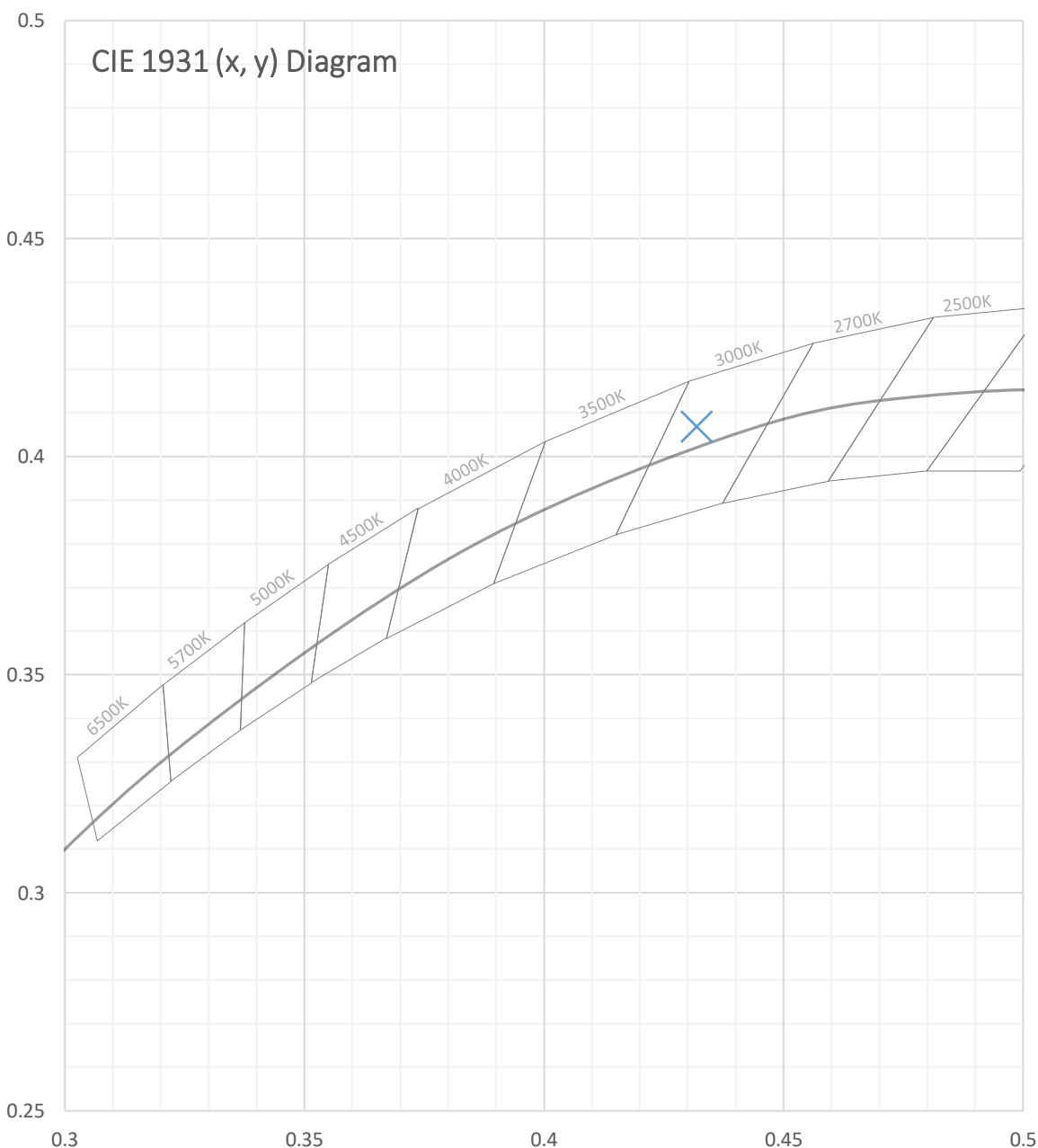


Test Report Number: LLIA001594-002B





Test Report Number: LLIA001594-002B





Test Report Number: LLIA001594-002B

Total Radiant Flux	21.08 W
Total Luminous Flux	7346.7 Lm
Chromaticity CIE 1931 (x, y)	(0.4319, 0.4070)
Chromaticity CIE 1976 (u', v')	(0.2461, 0.5218)
Correlated Color Temperature (CCT)	3110 K
Color Rendering Index (Ra)	73
R1	70
R2	81
R3	91
R4	72
R5	69
R6	74
R7	80
R8	48
R9	-27
R10	56
R11	68
R12	49
R13	71
R14	95
TM-30: Rf	72
TM-30: Rg	96
TM-30: Rcs,h1	-15
Distance from Planckian Locus (Duv)	0.0019
Scotopic/Photopic Ratio ϕ	1.228

Electrical Data

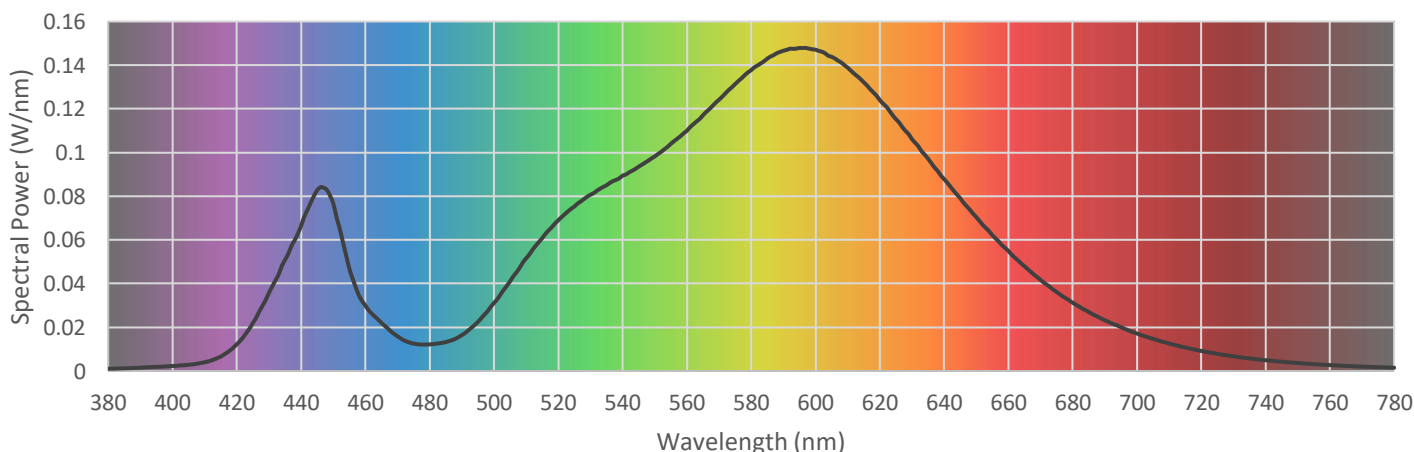
Voltage	120.0 Vac
Current	0.5143 A
Power	60.94 W
Frequency	59.99 Hz
Power Factor	0.988
Current THD	1.7 %



Test Report Number: LLIA001594-002B

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

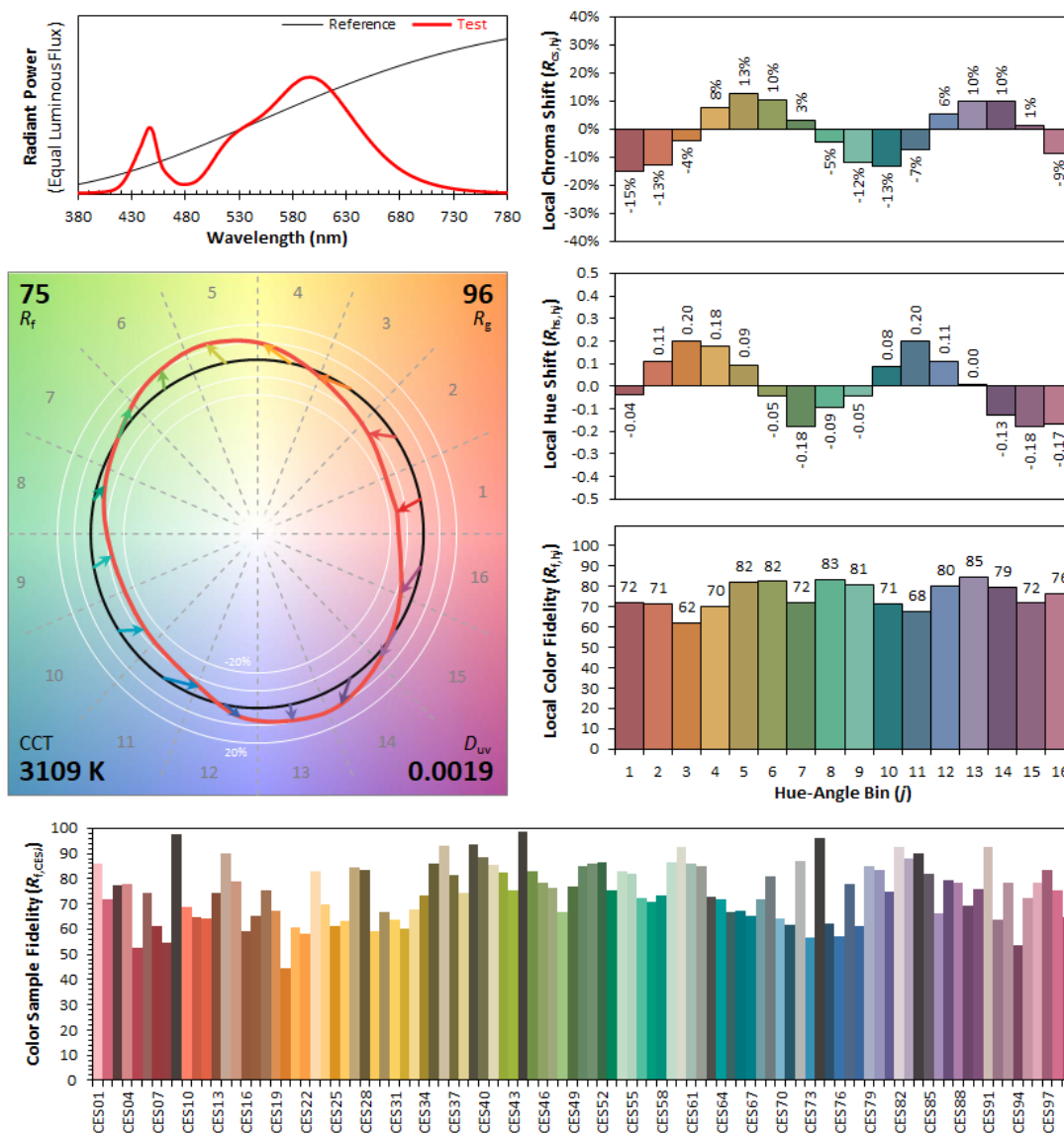
380	0.001029	480	0.012178	580	0.137729	680	0.031244
385	0.001222	485	0.013258	585	0.142974	685	0.027012
390	0.001493	490	0.016425	590	0.146578	690	0.023194
395	0.001899	495	0.022472	595	0.147841	695	0.020054
400	0.002284	500	0.031140	600	0.147087	700	0.017140
405	0.002831	505	0.041074	605	0.143810	705	0.014686
410	0.004011	510	0.051623	610	0.138830	710	0.012553
415	0.006593	515	0.060839	615	0.132150	715	0.010760
420	0.012267	520	0.069021	620	0.123988	720	0.009171
425	0.021979	525	0.075316	625	0.115286	725	0.007864
430	0.035821	530	0.080706	630	0.106094	730	0.006738
435	0.050879	535	0.085046	635	0.097184	735	0.005745
440	0.066526	540	0.089432	640	0.087825	740	0.004914
445	0.082741	545	0.093563	645	0.079081	745	0.004226
450	0.076644	550	0.098225	650	0.070398	750	0.003640
455	0.046772	555	0.104008	655	0.062158	755	0.003141
460	0.029882	560	0.109994	660	0.054909	760	0.002707
465	0.021973	565	0.117079	665	0.047906	765	0.002325
470	0.015843	570	0.124191	670	0.041679	770	0.002007
475	0.012543	575	0.131345	675	0.036152	775	0.001736
						780	0.001502





Test Report Number: LLIA001594-002B

IES TM-30 Details



Notes:

x **0.4319**
y **0.4069**
 u' **0.2461**
 v' **0.5217**

CIE 13.3-1995
(CRI)

R_a 73
 R_g -27



Test Report Number: LLIA001594-002B

Additional Pictures of Test Subject





Test Report Number: LLIA001594-002B

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-78-07, LM-58-13, ANSI/ANSI C78.377-2017, TM-30-18

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.

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Report of Test

LLIA001594-002C

Electrical Test Report

Catalog Number: NXT-36S-5-X-2ES-5-XX-4-XX-X-XX-X

Pole/arm mounted, grey painted cast aluminum housing and door/driver compartment cover, one circuit board, one clear plastic lens with optic below each LED and clear flat glass enclosure.

36 white LEDs

Osram Optotronic OT100W/UNV/800C/2DIM/P6 LED driver at 525mA, WH91-5U1-03 surge suppressor



Performance Summary

Voltage	277.0 Vac
Current	0.2369 A
Power	60.44 W
Frequency	59.99 Hz
Power Factor	0.921
Current THD	4.4 %
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: 11/19/2021

Report date: 11/22/2021

Electrical Report Template V1-3