



Report of Test

LLIA001574-011A

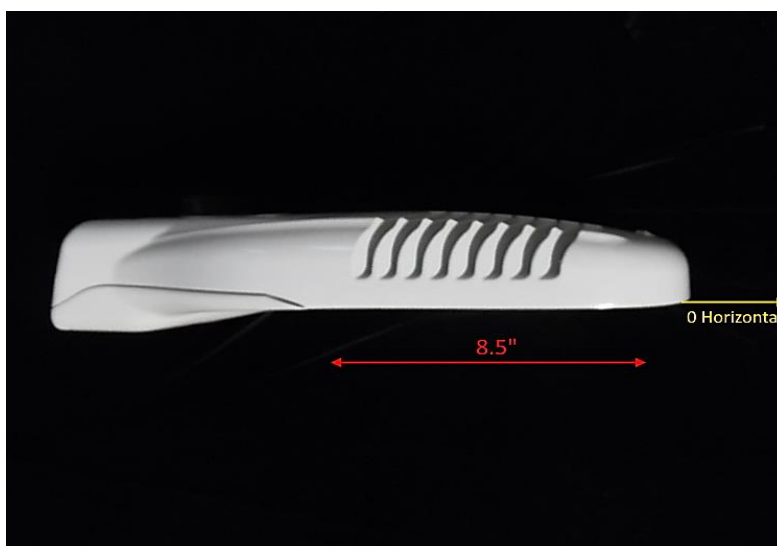
Roadway/Area Light Distribution Photometry Test Report

Catalog Number: NXT-36S-5-X-4AH-7-XX-4-XX-X-XX-X

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

36 white LEDs

Osram OT100W/UNV/800C/2DIM/P6 LED driver, Littlefuse LSP10277SBX3902 surge suppressor, 700mA



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	8986.4 Lumens
Input Current	0.6919 A	Total Efficacy	111.1 Lm/W
Input Power	80.86 W		
Frequency	60.00 Hz	Roadway Throw	Short
Power Factor	0.974	Roadway Type	Type IV
Current THD	3.3 %	IES BUG Rating	B2 - U0 - G2

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

Test date: 11/15/2021

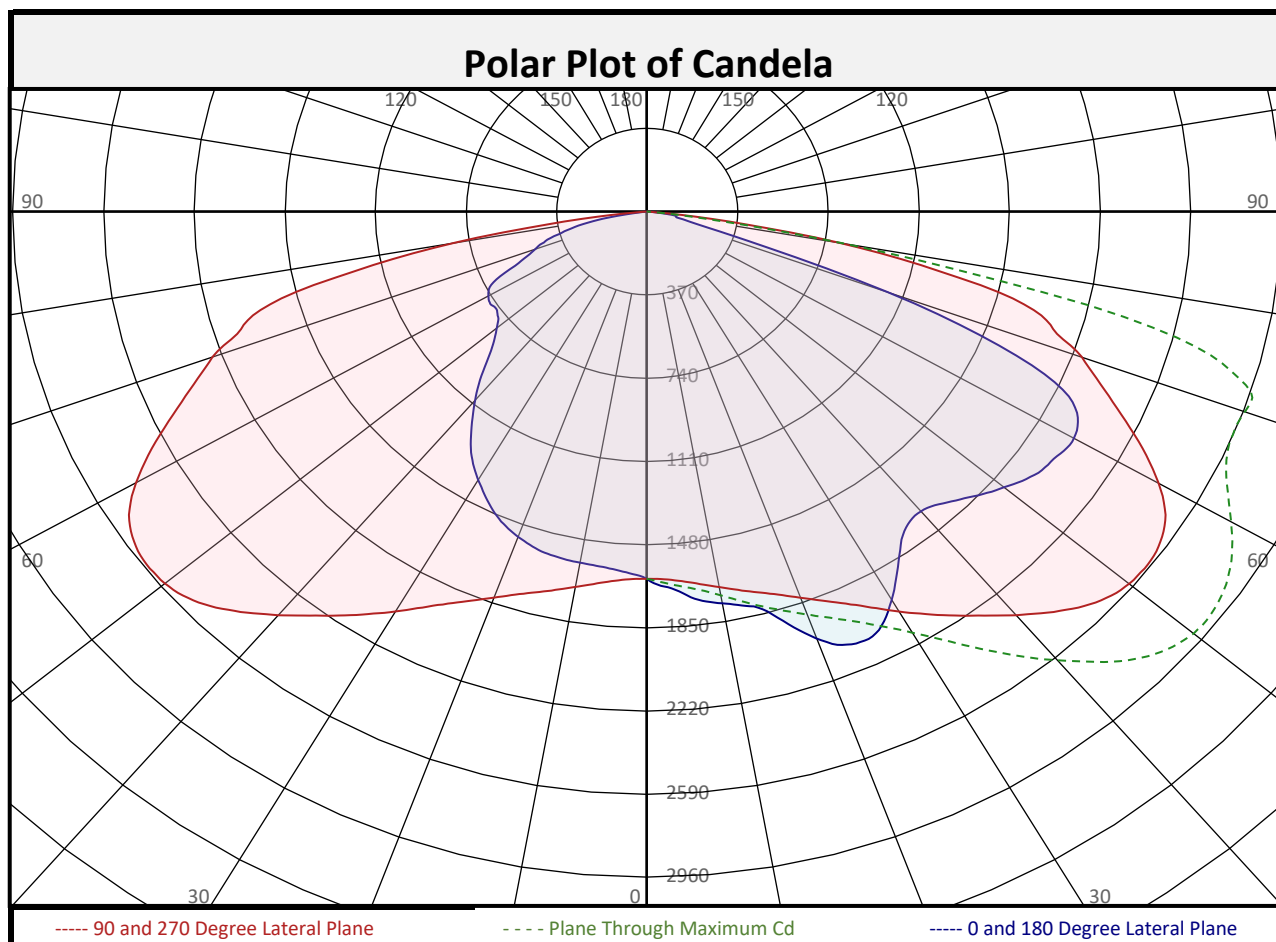
Report date: 11/16/2021

Signed: _____



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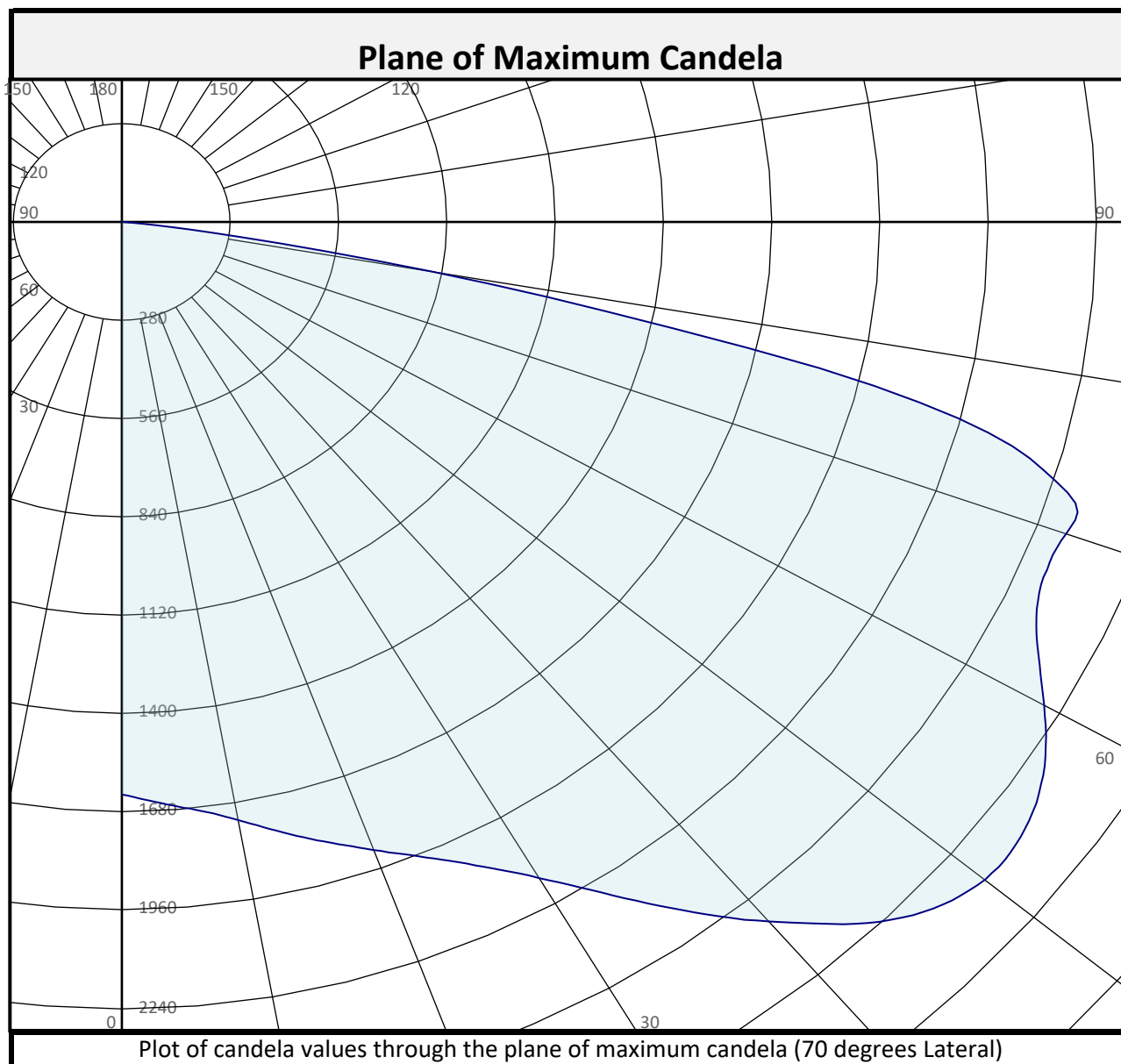


Zonal Flux Summary										
Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total
0-10	158.9	1.8%		90-100	0.0	0.0%		0-20	652.3	7.3%
10-20	493.5	5.5%		100-110	0.0	0.0%		0-30	1517	16.9%
20-30	864.4	9.6%		110-120	0.0	0.0%		0-40	2742	30.5%
30-40	1225	13.6%		120-130	0.0	0.0%		0-60	6074	67.6%
40-50	1545	17.2%		130-140	0.0	0.0%		0-80	8893	99.0%
50-60	1787	19.9%		140-150	0.0	0.0%		10-90	8828	98.2%
60-70	1738	19.3%		150-160	0.0	0.0%		20-50	3635	40.4%
70-80	1081	12.0%		160-170	0.0	0.0%		40-90	6245	69.5%
80-90	93.6	1.0%		170-180	0.0	0.0%		60-90	2912	32.4%
0-90	8986	100.0%		90-180	0.0	0.0%		0-180	8986	100.0%



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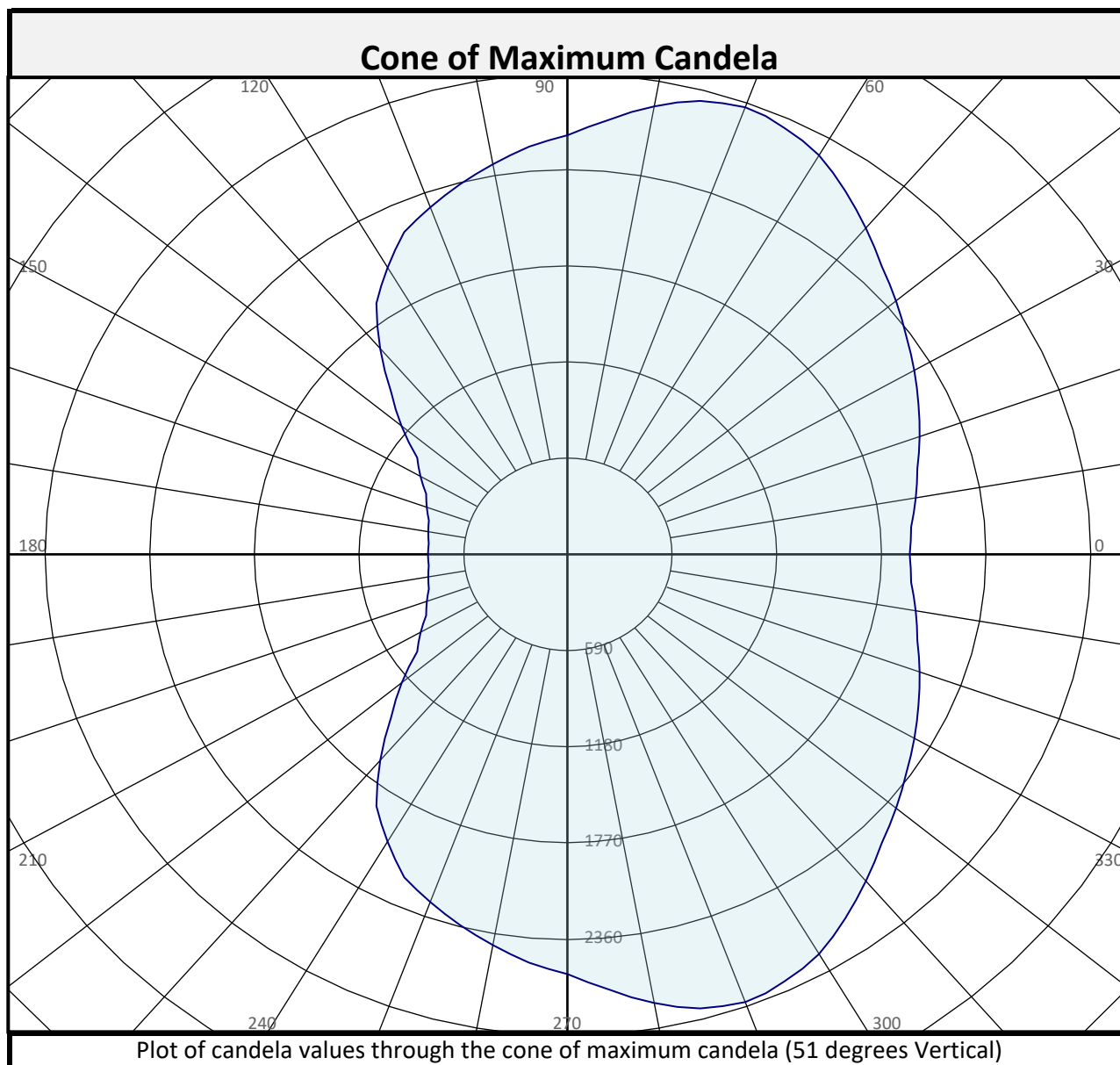


Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	5436.3	60.5%	0.0	0.0%	5436.3	60.5%
House Side	3550.1	39.5%	0.0	0.0%	3550.1	39.5%
Total	8986.4	100.0%	0.0	0.0%	8986.4	100.0%



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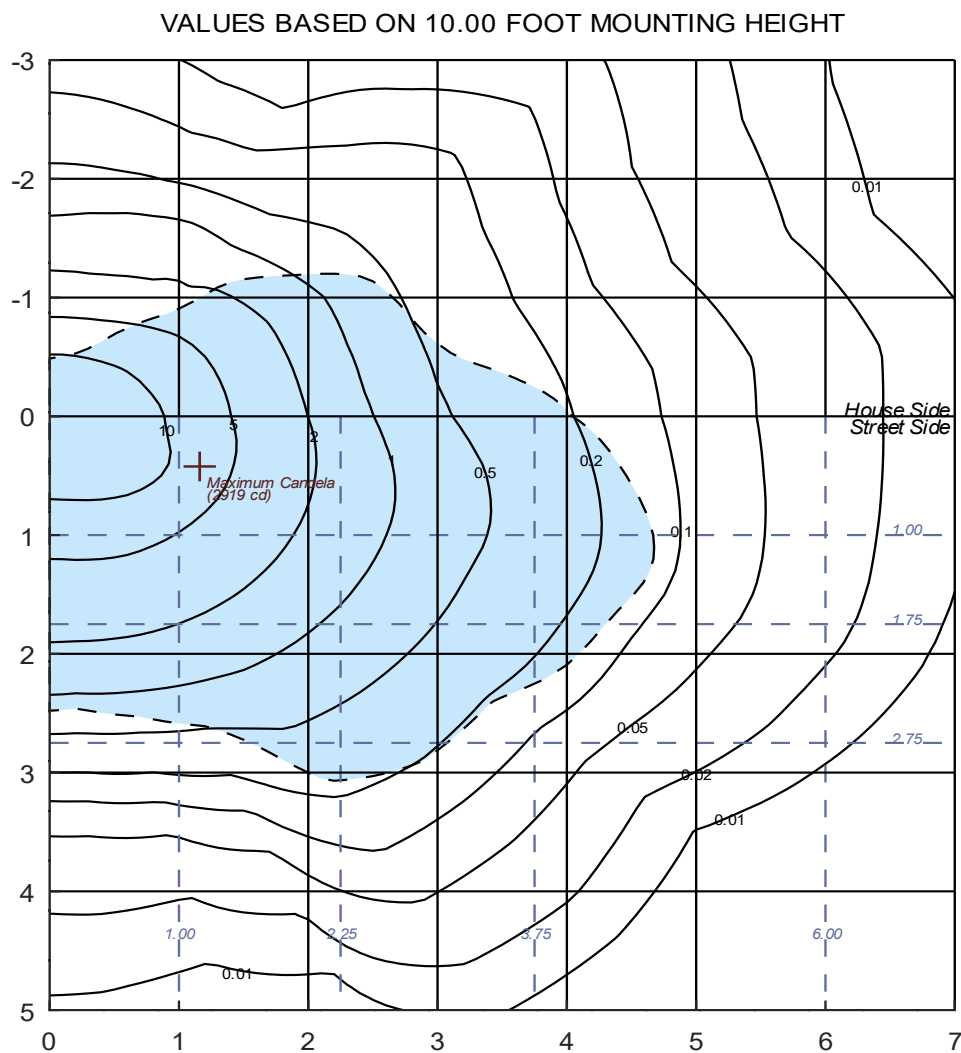


Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	5436.3	60.5%	0.0	0.0%	5436.3	60.5%
House Side	3550.1	39.5%	0.0	0.0%	3550.1	39.5%
Total	8986.4	100.0%	0.0	0.0%	8986.4	100.0%



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Iso-Illuminance Plot



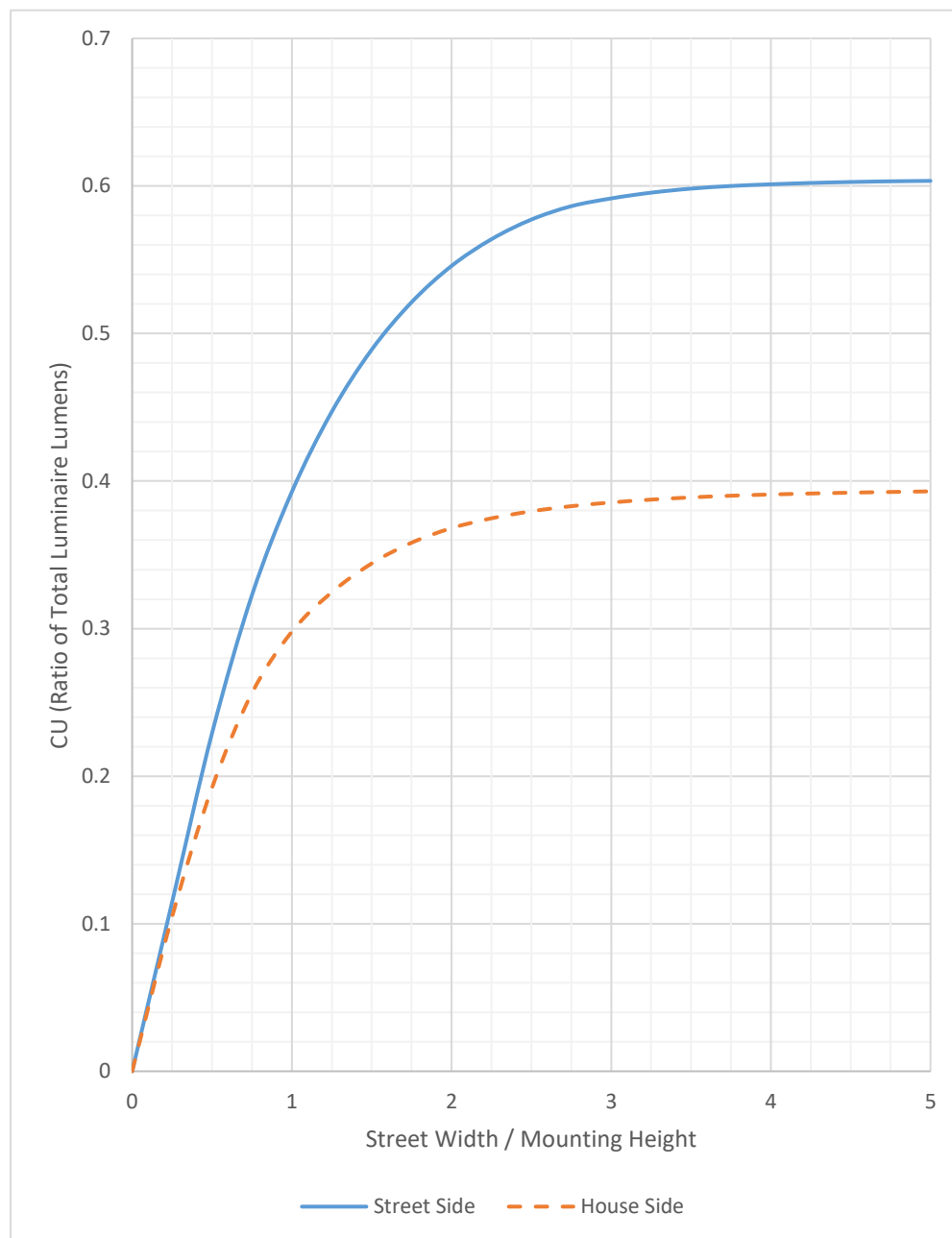
The isofootcandle values shown in the plot above are based on a mounting height of $h = 10.0$ feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the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



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Coefficients of Utilization Plot

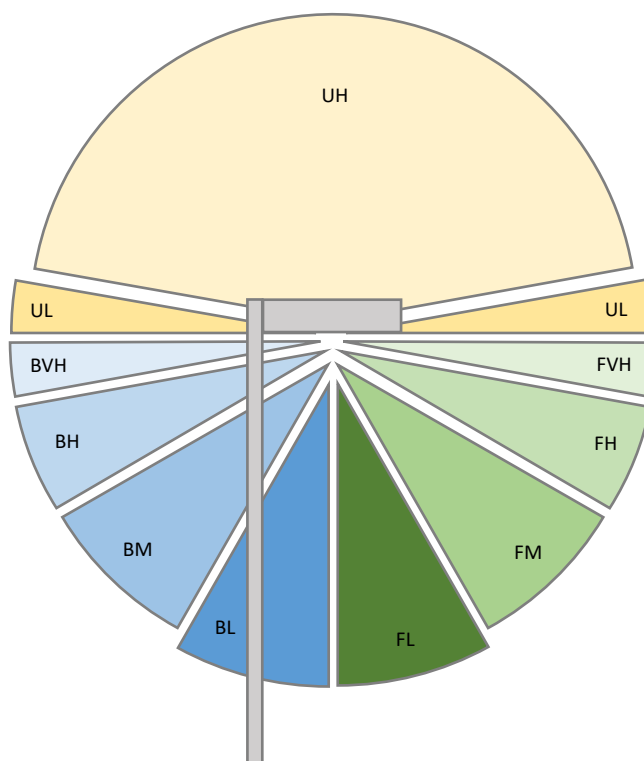




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LCS Tables and Bug Classification



Back Light

BL - Back Low (0°-30°)	694.1 Lm
BM - Back Mid (30°-60°)	1827.0 Lm
BH - Back High (60°-80°)	982.0 Lm
BVH - Back Very High (80°-90°)	47.0 Lm

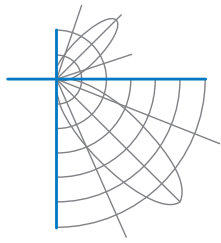
Uplight

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

Forward Light

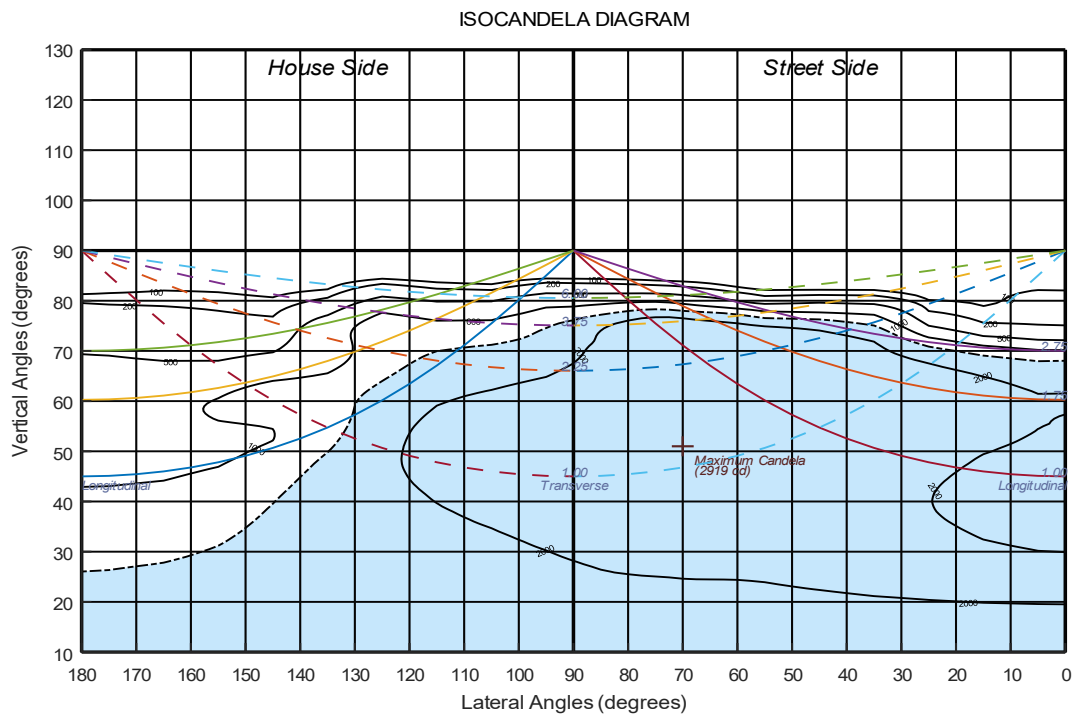
FL - Forward Low (0°-30°)	822.6 Lm
FM - Forward Mid (30°-60°)	2730.5 Lm
FH - Forward High (60°-80°)	1836.5 Lm
FVH - Forward Very High (80°-90°)	46.6 Lm

BUG Ratings: B2 - U0 - G2



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Iso-Candela Plot





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Luminous Intensity (Candela) Table

		Lateral (C-Plane) Angles														
		0	5	15	25	35	45	55	57.5	60	62.5	65	67.5	70	72.5	75
Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	0	1632	1632	1632	1632	1632	1632	1632	1632	1632	1632	1632	1632	1632	1632	1632
	2.5	1668	1668	1668	1667	1666	1663	1658	1657	1656	1655	1653	1653	1651	1649	1647
	5	1703	1702	1702	1697	1693	1687	1681	1680	1678	1677	1674	1675	1672	1670	1667
	7.5	1745	1745	1745	1743	1739	1727	1715	1712	1708	1705	1701	1701	1697	1695	1691
	10	1768	1770	1771	1772	1771	1768	1757	1751	1746	1743	1740	1736	1731	1726	1722
	12.5	1793	1795	1797	1798	1801	1800	1798	1793	1789	1785	1781	1776	1772	1767	1761
	15	1830	1829	1827	1824	1827	1832	1835	1834	1830	1829	1824	1819	1815	1810	1803
	17.5	1922	1919	1909	1889	1867	1864	1872	1871	1872	1872	1870	1865	1859	1853	1850
	20	2018	2016	2007	1985	1953	1917	1909	1910	1910	1910	1910	1909	1905	1900	1897
	22.5	2085	2084	2089	2080	2057	2005	1957	1954	1953	1956	1957	1956	1953	1947	1944
	25	2104	2104	2126	2151	2164	2107	2039	2027	2019	2015	2013	2012	2009	2003	1998
	27.5	2075	2080	2125	2187	2245	2219	2152	2136	2118	2103	2095	2086	2077	2068	2061
	30	1997	2006	2072	2187	2295	2329	2280	2263	2244	2222	2200	2179	2159	2142	2130
	32.5	1901	1913	1997	2145	2312	2422	2416	2396	2373	2348	2319	2289	2257	2229	2207
	35	1807	1820	1920	2086	2292	2479	2540	2530	2510	2481	2449	2413	2371	2330	2295
	37.5	1751	1766	1862	2032	2257	2496	2637	2641	2631	2609	2570	2530	2488	2444	2396
	40	1740	1754	1847	2010	2227	2491	2702	2720	2721	2710	2685	2646	2602	2560	2510
	42.5	1764	1779	1868	2024	2222	2481	2725	2761	2782	2791	2780	2751	2713	2666	2614
	45	1809	1818	1906	2061	2247	2479	2732	2780	2818	2841	2847	2839	2812	2772	2717
	47.5	1859	1866	1957	2111	2284	2482	2732	2785	2835	2863	2885	2893	2879	2851	2806
	50	1905	1920	2015	2159	2317	2495	2726	2780	2831	2866	2890	2912	2915	2897	2870
	52.5	1953	1970	2072	2207	2345	2509	2718	2772	2818	2856	2878	2903	2914	2901	2882
	55	1983	2004	2113	2250	2370	2523	2699	2752	2800	2839	2860	2878	2887	2877	2859
	57.5	2002	2020	2123	2269	2381	2525	2676	2724	2769	2804	2824	2832	2832	2823	2810
	60	2013	2020	2115	2259	2376	2519	2641	2678	2713	2741	2758	2762	2754	2738	2724
	62.5	1983	1975	2073	2221	2357	2500	2606	2633	2657	2673	2683	2682	2673	2651	2632
	65	1872	1864	1993	2147	2315	2467	2575	2593	2602	2615	2620	2620	2611	2594	2559
	67.5	1556	1540	1747	2002	2250	2418	2551	2564	2570	2582	2590	2593	2590	2570	2524
	70	1043	1054	1270	1639	2141	2349	2518	2545	2561	2584	2594	2601	2599	2582	2540
	72.5	435	449	599	1053	1933	2188	2398	2451	2500	2542	2561	2564	2564	2558	2524
	75	203	209	239	503	1475	1823	1974	2043	2114	2168	2213	2260	2319	2380	2373
	77.5	135	136	132	229	938	1052	1124	1248	1375	1469	1532	1589	1657	1719	1725
	80	122	125	88	106	357	415	338	412	496	586	670	739	814	891	928
	82.5	83	87	56	38	80	81	79	94	116	148	181	211	239	269	289
	85	19	20	14	11	15	17	17	18	20	22	25	27	29	30	31
	87.5	3	4	4	4	5	5	5	5	5	5	5	5	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	1632	1632	1632	1632	1632	1632	1632	1632	1632	1632	1632	1632	1632	1632	1632
	2.5	1645	1642	1642	1641	1635	1631	1627	1621	1617	1614	1612	1609	1609	1609	1608
	5	1665	1661	1660	1658	1648	1642	1631	1623	1615	1610	1604	1599	1598	1596	1594
	7.5	1688	1685	1681	1679	1669	1658	1644	1632	1620	1612	1603	1595	1592	1589	1587
	10	1718	1714	1710	1707	1693	1680	1661	1645	1630	1620	1608	1598	1590	1586	1583
	12.5	1754	1748	1743	1737	1721	1704	1679	1659	1642	1628	1613	1600	1590	1583	1580
	15	1797	1788	1780	1771	1751	1732	1698	1674	1656	1636	1617	1599	1586	1575	1573
	17.5	1843	1833	1823	1810	1784	1761	1719	1692	1669	1644	1615	1594	1575	1562	1560
	20	1891	1882	1871	1857	1825	1795	1745	1711	1680	1648	1612	1584	1558	1542	1540
	22.5	1941	1934	1923	1908	1871	1835	1775	1731	1691	1651	1605	1568	1539	1516	1513
	25	1995	1989	1980	1965	1921	1880	1813	1756	1706	1650	1592	1544	1510	1483	1478
	27.5	2052	2047	2042	2028	1983	1933	1854	1789	1725	1649	1578	1513	1465	1436	1432
	30	2118	2111	2107	2095	2051	1993	1899	1826	1746	1651	1557	1478	1418	1386	1382
	32.5	2191	2178	2173	2161	2120	2057	1949	1868	1774	1654	1537	1439	1369	1331	1329
	35	2266	2250	2240	2230	2190	2126	2008	1914	1805	1662	1515	1397	1314	1267	1262
	37.5	2354	2330	2312	2298	2262	2199	2068	1958	1834	1665	1490	1342	1238	1185	1180
	40	2459	2421	2397	2375	2341	2283	2134	2007	1860	1662	1451	1263	1152	1104	1098
	42.5	2560	2511	2478	2455	2416	2363	2210	2058	1881	1648	1387	1177	1064	1020	1015
	45	2658	2605	2561	2533	2488	2430	2278	2118	1898	1611	1300	1080	966	926	922
	47.5	2749	2694	2646	2607	2540	2480	2322	2162	1908	1549	1192	977	881	853	852
	50	2821	2769	2715	2663	2569	2508	2348	2180	1893	1451	1079	897	824	803	805
	52.5	2852	2808	2755	2689	2575	2506	2346	2176	1857	1348	993	881	806	769	770
	55	2840	2806	2757	2691	2556	2472	2314	2142	1798	1266	1016	950	838	760	755
	57.5	2798	2771	2723	2658	2508	2404	2238	2063	1713	1243	1169	1041	864	768	763
	60	2716	2683	2638	2578	2408	2292	2125	1964	1620	1271	1246	1022	846	766	752
	62.5	2622	2579	2522	2458	2279	2145	1984	1869	1530	1200	1133	900	773	733	728
	65	2536	2480	2407	2334	2134	1989	1843	1776	1403	1039	904	721	648	646	644
	67.5	2483	2416	2322	2224	2001	1843	1698	1633	1272	881	667	535	518	546	546
	70	2473	2395	2293	2157	1887	1713	1548	1457	1237	799	482	410	446	478	487
	72.5	2455	2357	2246	2066	1737	1546	1347	1309	1306	770	361	339	382	411	437
	75	2310	2201	2067	1896	1592	1427	1134	1112	1283	688	266	274	309	347	359
	77.5	1672	1582	1484	1388	1218	1145	807	817	1014	454	180	212	249	276	287
	80	925	902	875	842	792	791	483	478	620	236	119	143	158	175	182
	82.5	303	313	322	329	339	353	163	189	303	90	61	80	88	45	25
	85	34	38	40	41	42	41	21	29	56	24	22	28	26	6	4
	87.5	5	5	5	5	4	5	5	5	6	6	5	4	3	1	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, 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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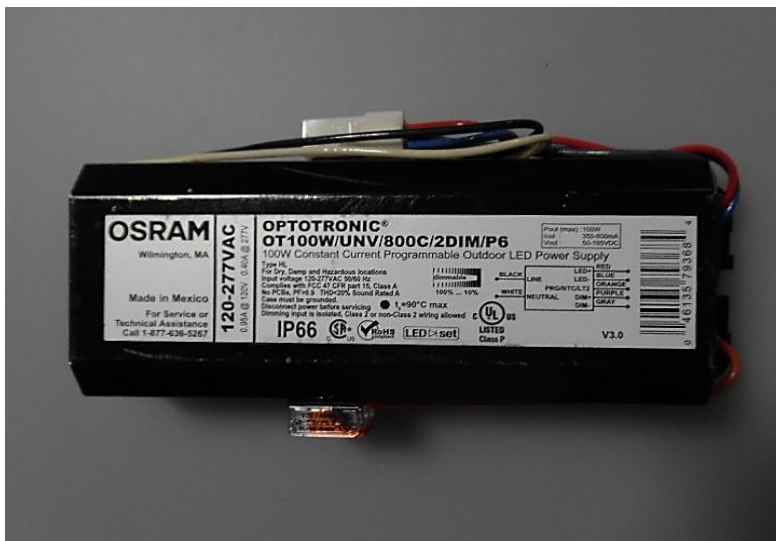
Luminous Intensity (Candela) Table

		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 LLIA001574-011A

Additional Pictures of Test Subject





Report of Test

LLIA001574-011A

Test Distance 9.5 m
Ambient Temperature 24.7 °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

LLIA001574-011B

Integrating Sphere Report

Catalog Number: NXT-36S-5-X-4AH-7-XX-4-XX-X-XX-X

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

36 white LEDs

Osram OT100W/UNV/800C/2DIM/P6 LED driver, Littlefuse LSP10277SBX3902 surge suppressor, 700mA



Performance Summary

Voltage	120.0 Vac
Current	0.6747 A
Power	80.54 W
Frequency	59.99 Hz
Power Factor	0.995
Current THD	2.7 %
Total Luminous Flux	9005.4 lm
Efficacy	111.8 lm/W
Chromaticity (x,y)	(0.4296, 0.4056)
(u',v')	(0.2452, 0.5209)
Duv	0.0017
CCT	3140 K
CRI (Ra)	73
R9	-28
TM-30: Rf	72
TM-30: Rg	96
TM-30: Rcs,h1	-15

Prepared For:

LED Roadway Lighting

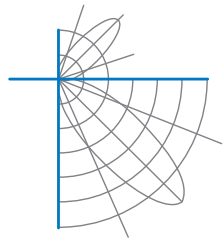
84 Chain Lake Drive

Suite 403

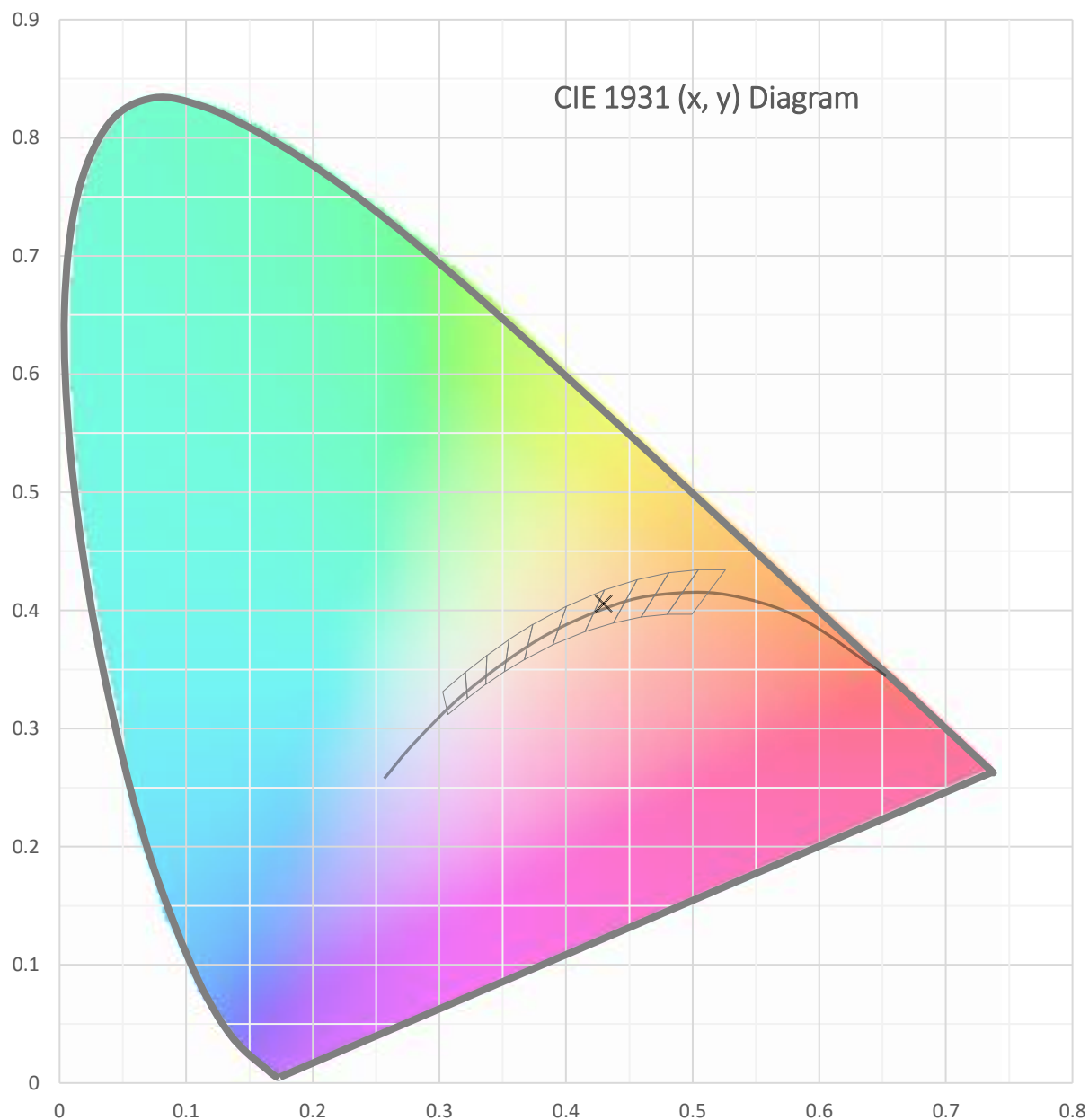
Halifax, Nova Scotia B3S 1A2, Canada

Test date: 11/12/2021

Report date: 11/16/2021

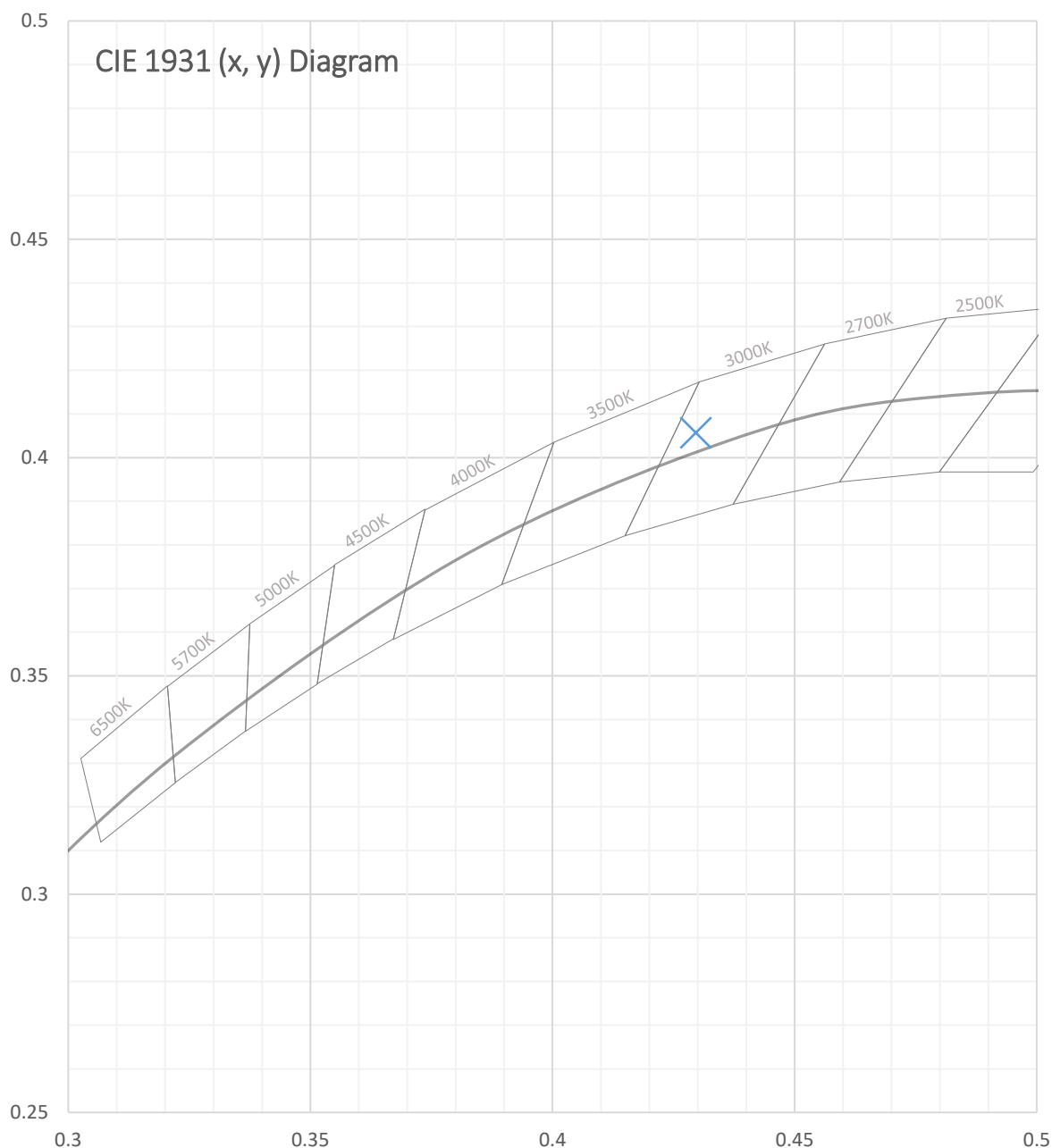


Test Report Number: LLIA001574-011B





Test Report Number: LLIA001574-011B





Test Report Number: LLIA001574-011B

Total Radiant Flux	25.89 W
Total Luminous Flux	9005.4 Lm
Chromaticity CIE 1931 (x, y)	(0.4296, 0.4056)
Chromaticity CIE 1976 (u', v')	(0.2452, 0.5209)
Correlated Color Temperature (CCT)	3140 K
Color Rendering Index (Ra)	73
R1	70
R2	81
R3	91
R4	71
R5	69
R6	73
R7	80
R8	48
R9	-28
R10	55
R11	67
R12	49
R13	71
R14	95
TM-30: Rf	72
TM-30: Rg	96
TM-30: Rcs,h1	-15
Distance from Planckian Locus (Duv)	0.0017
Scotopic/Photopic Ratio $\frac{V_{\lambda}}{V_{\lambda}^{\text{scot}}}$	1.239

Electrical Data

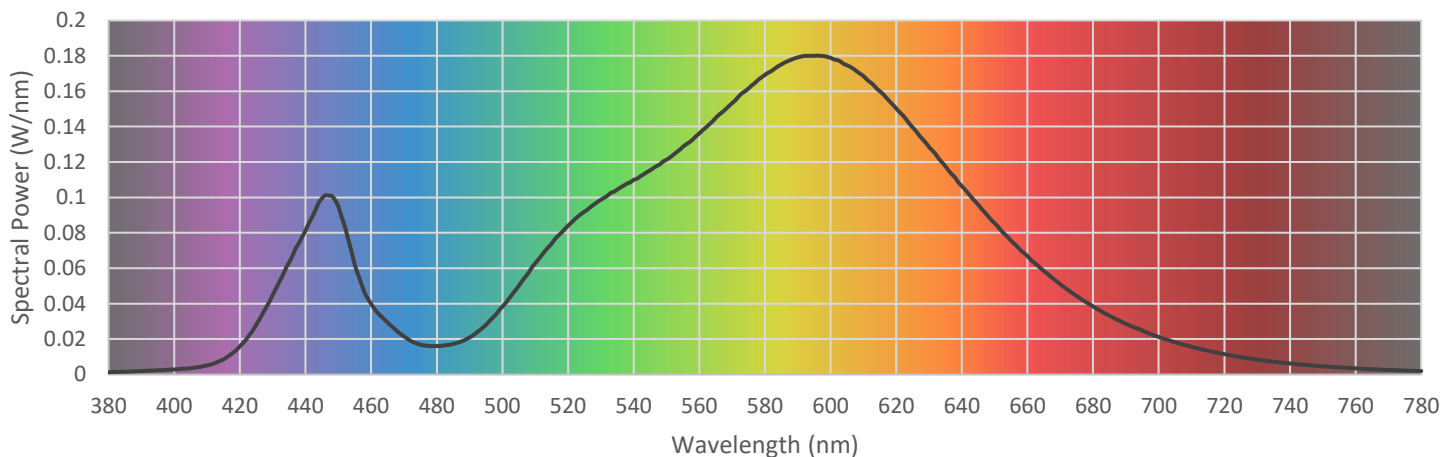
Voltage	120.0 Vac
Current	0.6747 A
Power	80.54 W
Frequency	59.99 Hz
Power Factor	0.995
Current THD	2.7 %



Test Report Number: LLIA001574-011B

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

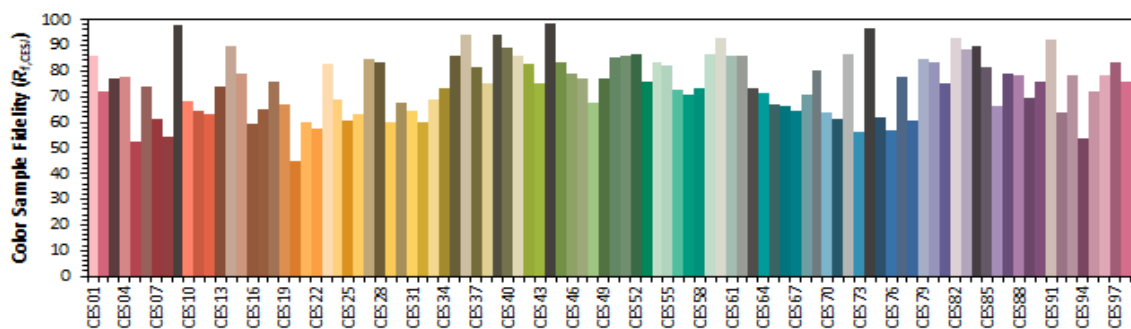
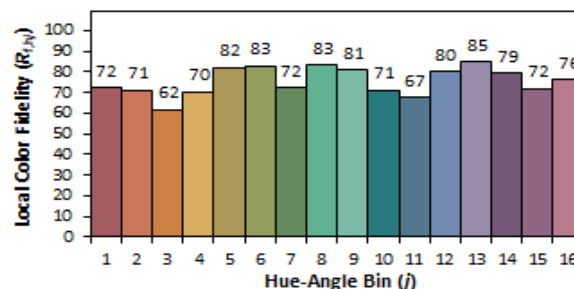
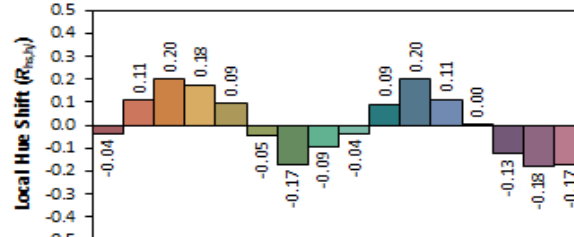
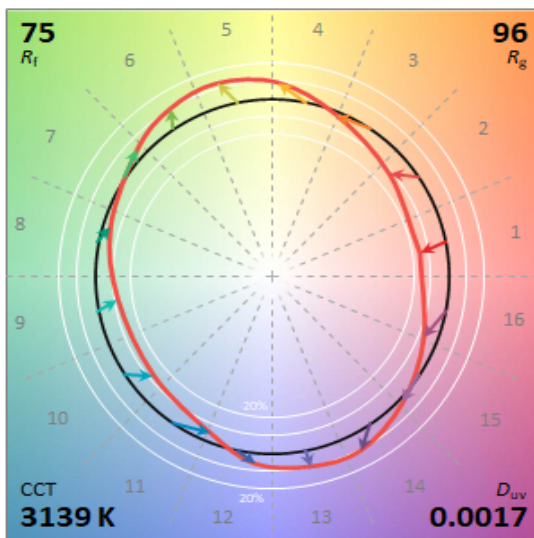
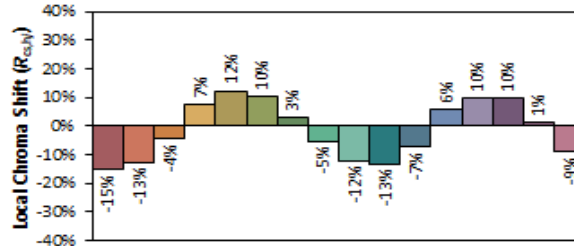
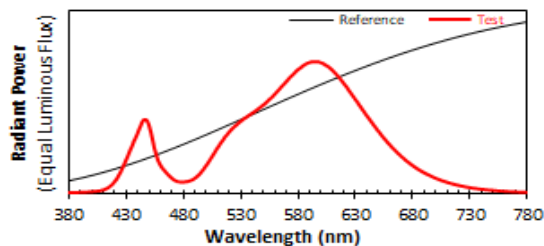
380	0.001299	480	0.016034	580	0.169236	680	0.038419
385	0.001552	485	0.017233	585	0.175100	685	0.033186
390	0.001884	490	0.020929	590	0.179094	690	0.028592
395	0.002387	495	0.028045	595	0.179986	695	0.024795
400	0.002826	500	0.038349	600	0.178858	700	0.021225
405	0.003533	505	0.050040	605	0.174650	705	0.018216
410	0.005099	510	0.062791	610	0.168595	710	0.015622
415	0.008524	515	0.073882	615	0.159986	715	0.013426
420	0.015916	520	0.084035	620	0.150277	720	0.011471
425	0.028152	525	0.091966	625	0.139542	725	0.009809
430	0.044950	530	0.098671	630	0.128496	730	0.008440
435	0.063330	535	0.104413	635	0.117587	735	0.007217
440	0.081322	540	0.109943	640	0.106392	740	0.006195
445	0.099448	545	0.115285	645	0.095885	745	0.005354
450	0.094852	550	0.121267	650	0.085435	750	0.004607
455	0.061996	555	0.128562	655	0.075547	755	0.003975
460	0.039816	560	0.136162	660	0.066844	760	0.003440
465	0.029325	565	0.144915	665	0.058432	765	0.002962
470	0.021478	570	0.153251	670	0.050915	770	0.002561
475	0.016779	575	0.161563	675	0.044288	775	0.002224
						780	0.001920





Test Report Number: LLIA001574-011B

IES TM-30 Details



Notes:

x 0.4296
y 0.4056
u' 0.2452
v' 0.5209

CIE 13.3-1995
(CRI)

R_a 73
R_g -28

Test Report Number: LLIA001574-011B

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: 25.1 °C

Test Procedure: Tested in accordance with the applicable sections of:
LM-79-19, LM-78-07, LM-58-13, ANSI_ANSLG 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

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Sphere Report Template V2-15



Dimming Test Results

LLIA001574-011C

Catalog Number: NXT-36S-5-X-4AH-7-XX-4-XX-X-XX-X

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

36 white LEDs

Osram OT100W/UNV/800C/2DIM/P6 LED driver, Littlefuse LSP10277SBX3902 surge suppressor, 700mA

Target percentage of maximum output	100%	90%	80%	70%	60%	50%
Lumen Output (Lm)	9005.4	8102.5	7203.9	6303.8	5404.3	4501.0
Percent of max output	100.0%	90.0%	80.0%	70.0%	60.0%	50.0%
Input Voltage (V)	120.00	120.04	120.06	120.00	119.96	120.00
Input Current (A)	0.6747	0.5940	0.5191	0.4439	0.3730	0.3090
Input Power (W)	80.54	70.81	61.59	52.65	44.27	36.56
Power Factor	0.995	0.993	0.988	0.989	0.989	0.986
THD-i	2.7%	2.8%	3.1%	3.3%	3.5%	3.7%
Luminaire Efficacy (Lm/W)	111.8	114.4	117.0	119.7	122.1	123.1

Prepared For:

LED Roadway Lighting

84 Chain Lake Drive

Suite 403

Halifax, Nova Scotia B3S 1A2, Canada

Test Date: 11/12/21

Testing was performed in compliance with IES LM-79-19 in the LightLab International 2m integrating sphere. 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.

Dimming Report Template V2-0



Report of Test

LLIA001574-011D

Electrical Test Report

Catalog Number: NXT-36S-5-X-4AH-7-XX-4-XX-X-XX-X

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

36 white LEDs

Osram OT100W/UNV/800C/2DIM/P6 LED driver, Littlefuse LSP10277SBX3902 surge suppressor, 700mA



Performance Summary

Voltage	277.0 Vac
Current	0.2988 A
Power	79.56 W
Frequency	60.00 Hz
Power Factor	0.961
Current THD	5.3 %

Ambient Temperature: 25.3 °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: 11/12/2021

Report date: 11/16/2021

Electrical Report Template V1-3