



IES ROAD REPORT
PHOTOMETRIC FILENAME : XLCW-S-LED-HO-CW-UE.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-6645
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]02/27/15
[TEST DATE]02/27/15
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XLCW-S-LED-HO-CW-UE
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]5251

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5251
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	56.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1959
Maximum Candela Angle	85H 7.5V
Maximum Candela (<90 Degrees Vertical)	1959
Maximum Candela Angle (<90 Degrees Vertical)	85H 7.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	244 (4.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	792.4	N.A.	15.1
FM - Front-Medium (30-60)	1565.6	N.A.	29.8
FH - Front-High (60-80)	422.1	N.A.	8.0
FVH - Front-Very High (80-90)	75.0	N.A.	1.4
BL - Back-Low (0-30)	787.8	N.A.	15.0
BM - Back-Medium (30-60)	1365.9	N.A.	26.0
BH - Back-High (60-80)	234.0	N.A.	4.5
BVH - Back-Very High (80-90)	7.8	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	5250.6	N.A.	100.0
BUG Rating	B2-U0-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>
0.0	1902	1902	1902	1902	1902	1902	1902	1902	1902	1902
2.5	1872	1870	1871	1872	1884	1896	1908	1922	1935	1943
5.0	1880	1878	1879	1879	1891	1902	1914	1926	1939	1946
7.5	1888	1887	1887	1887	1898	1907	1918	1930	1941	1947
10.0	1894	1892	1893	1893	1903	1911	1921	1931	1941	1946
12.5	1896	1894	1894	1894	1905	1914	1923	1931	1940	1944
15.0	1895	1892	1893	1893	1904	1912	1921	1928	1937	1940
17.5	1888	1885	1886	1886	1897	1906	1915	1923	1930	1932
20.0	1874	1871	1872	1872	1884	1894	1905	1914	1921	1921
22.5	1852	1850	1851	1852	1865	1878	1891	1901	1907	1907
25.0	1826	1823	1825	1826	1840	1854	1870	1883	1891	1889
27.5	1793	1791	1793	1794	1808	1824	1842	1859	1868	1867
30.0	1752	1753	1755	1757	1772	1788	1807	1828	1837	1839
32.5	1706	1708	1711	1713	1728	1745	1765	1787	1801	1806
35.0	1652	1655	1658	1660	1676	1696	1717	1741	1760	1766
37.5	1596	1595	1599	1603	1617	1639	1660	1686	1712	1718
40.0	1533	1533	1536	1538	1555	1575	1600	1628	1658	1668
42.5	1465	1463	1466	1469	1486	1505	1531	1564	1597	1611
45.0	1392	1390	1393	1395	1407	1433	1459	1496	1531	1548
47.5	1312	1309	1312	1315	1327	1353	1381	1419	1457	1478
50.0	1229	1226	1227	1227	1242	1264	1299	1336	1378	1399
52.5	908	901	985	1068	1153	1173	1208	1246	1293	1307
55.0	713	714	714	714	885	1080	1109	1149	1195	1214
57.5	657	657	657	657	665	872	1010	1047	1085	1110
60.0	595	594	598	601	606	611	905	932	975	996
62.5	538	536	539	541	543	551	566	819	857	875
65.0	462	463	468	473	474	482	486	701	734	753
67.5	306	305	303	301	352	411	421	430	613	629
70.0	291	290	288	286	278	287	350	357	501	511
72.5	277	276	274	272	263	250	262	300	365	400
75.0	264	263	261	259	250	235	216	237	234	305
77.5	255	254	252	249	239	223	202	175	182	216
80.0	244	243	242	240	231	214	190	161	130	117
82.5	234	233	230	227	215	200	180	151	115	86
85.0	232	230	227	224	212	194	169	140	106	66
87.5	225	223	220	217	205	188	164	133	96	57
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	1902	1902	1902	1902	1902	1902	1902	1902	1902	1902
2.5	1957	1945	1937	1934	1928	1921	1905	1890	1880	1867
5.0	1958	1946	1939	1935	1928	1921	1905	1890	1878	1865
7.5	1959	1946	1939	1933	1927	1920	1904	1889	1878	1865
10.0	1957	1944	1936	1931	1924	1917	1901	1887	1877	1864
12.5	1954	1941	1932	1927	1920	1914	1898	1886	1875	1863
15.0	1948	1934	1926	1921	1914	1909	1894	1881	1870	1859
17.5	1940	1925	1916	1912	1905	1902	1887	1874	1866	1857
20.0	1927	1913	1905	1900	1894	1892	1879	1869	1864	1857
22.5	1912	1898	1889	1886	1881	1879	1870	1864	1862	1856
25.0	1893	1879	1870	1868	1864	1864	1859	1857	1855	1850
27.5	1870	1855	1846	1846	1843	1845	1846	1845	1843	1837

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CANDELA TABULATION - (Cont.)

30.0	1841	1826	1816	1817	1817	1824	1829	1827	1825	1821
32.5	1807	1791	1781	1784	1783	1799	1805	1802	1802	1798
35.0	1766	1751	1741	1746	1748	1769	1774	1772	1774	1771
37.5	1720	1705	1695	1701	1710	1730	1738	1738	1740	1730
40.0	1669	1655	1645	1652	1669	1689	1695	1699	1696	1688
42.5	1610	1598	1585	1600	1623	1644	1652	1648	1647	934
45.0	1542	1528	1513	1539	1571	1593	1600	1596	856	848
47.5	1456	1437	1430	1466	1515	1537	1542	943	815	809
50.0	1372	1356	1347	1385	1450	1475	1245	825	500	103
52.5	1288	1276	1270	1301	1376	1406	839	561	96	82
55.0	1196	1183	1182	1223	1291	1243	779	170	73	51
57.5	1087	1074	1075	1142	1204	1047	505	140	41	11
60.0	974	963	963	1037	1119	789	256	103	9	1
62.5	851	846	856	924	952	572	215	69	5	0
65.0	716	720	721	816	826	393	170	55	3	0
67.5	592	586	600	709	638	322	139	47	2	0
70.0	463	456	467	587	508	255	115	39	1	0
72.5	354	343	360	472	376	182	88	32	0	0
75.0	261	248	262	376	275	123	53	24	0	0
77.5	183	168	179	278	196	83	23	18	0	0
80.0	115	103	112	174	110	49	12	3	0	0
82.5	62	46	50	86	46	18	5	1	0	0
85.0	32	17	13	31	15	6	2	0	0	0
87.5	20	6	2	4	4	1	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

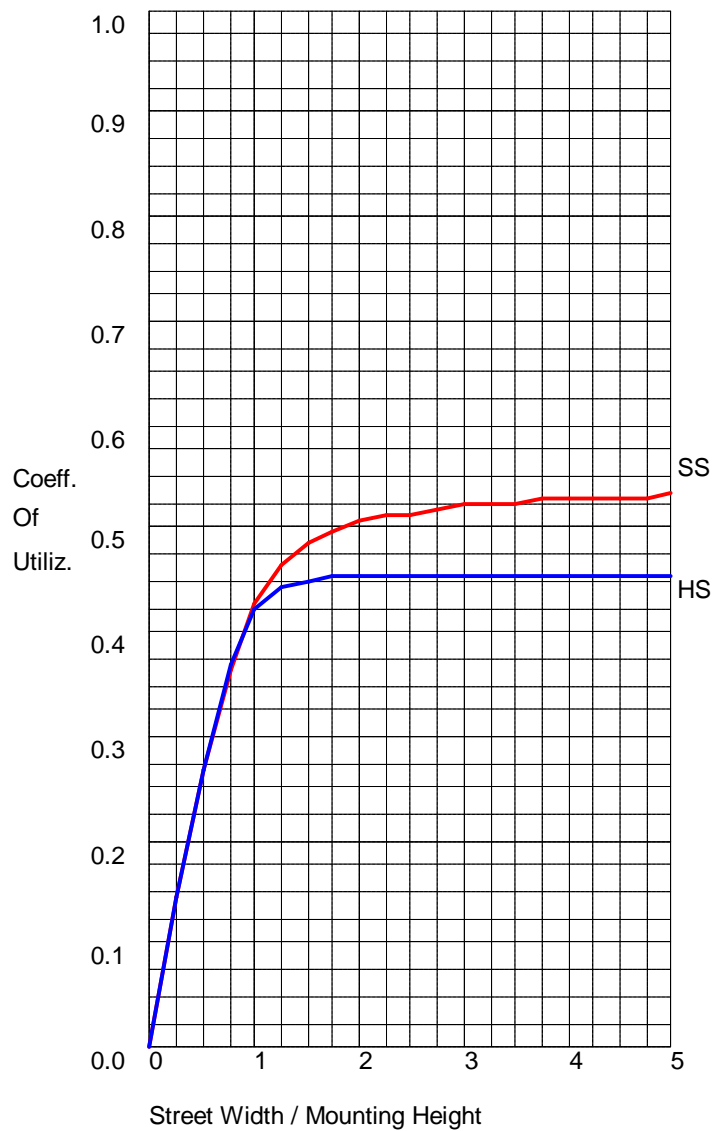
	<u>175</u>	<u>180</u>
0.0	1902	1902
2.5	1861	1860
5.0	1860	1859
7.5	1859	1858
10.0	1859	1857
12.5	1857	1854
15.0	1854	1850
17.5	1852	1848
20.0	1854	1849
22.5	1852	1846
25.0	1846	1839
27.5	1835	1828
30.0	1819	1811
32.5	1798	1791
35.0	1771	1761
37.5	1730	1725
40.0	1687	1682
42.5	882	878
45.0	844	841
47.5	751	711
50.0	97	96
52.5	75	73
55.0	38	38
57.5	1	1
60.0	0	0
62.5	0	0
65.0	0	0

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CANDELA TABULATION - (Cont.)

67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0

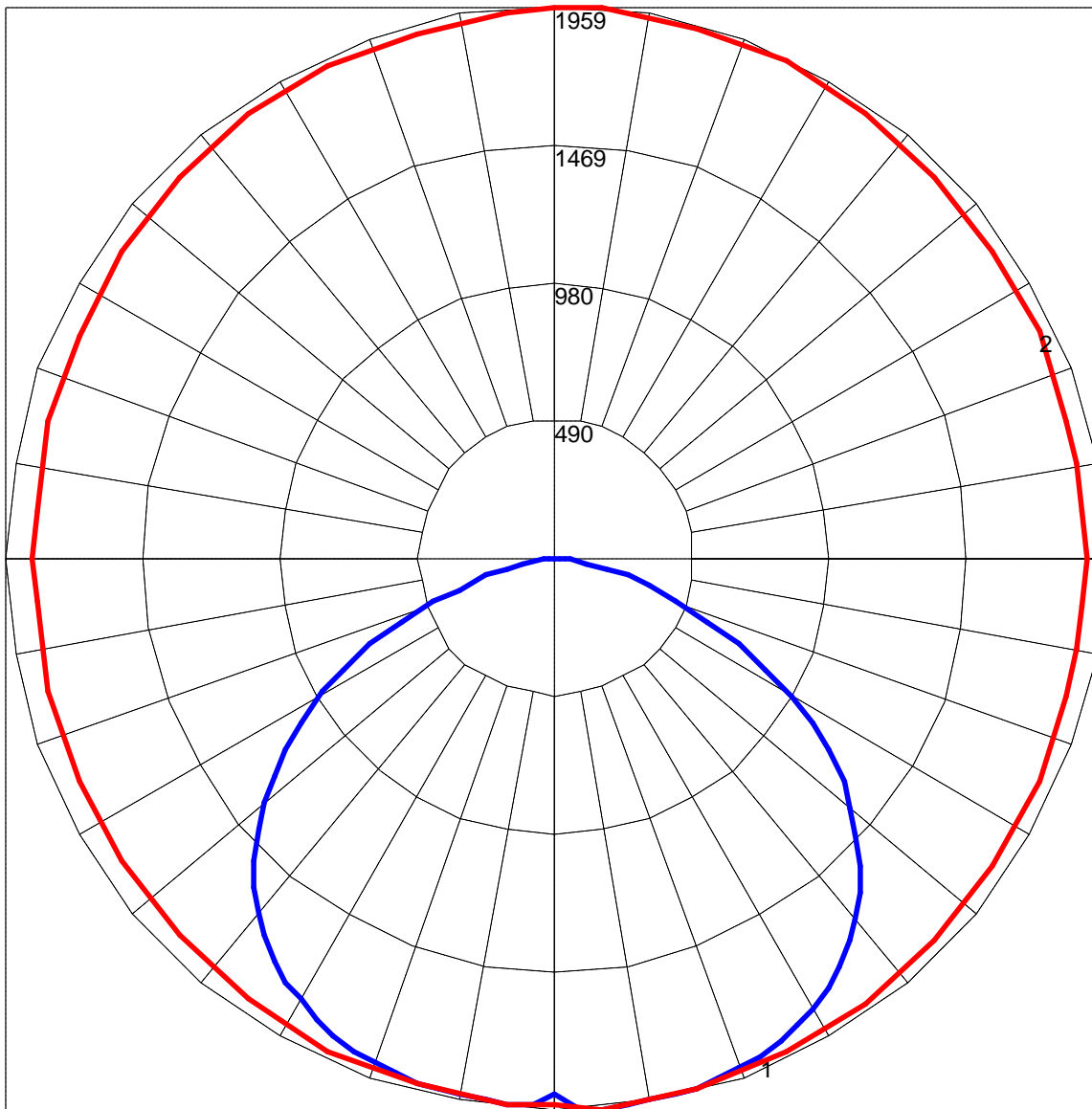
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

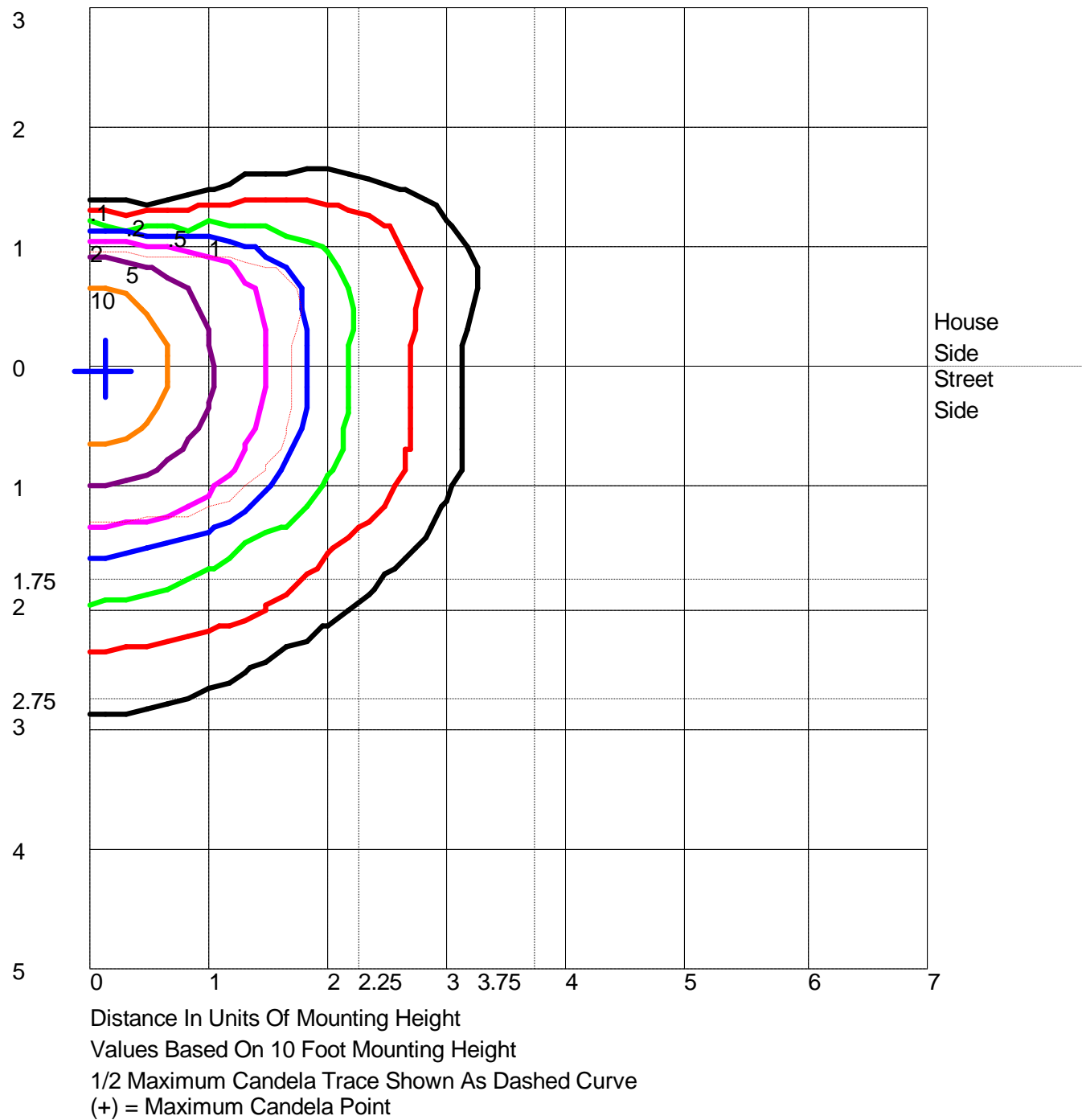
	Lumens	Percent Of Luminaire
Downward Street Side	2855.1	54.4
Downward House Side	2395.4	45.6
Downward Total	5250.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5250.5	100.0

POLAR GRAPH

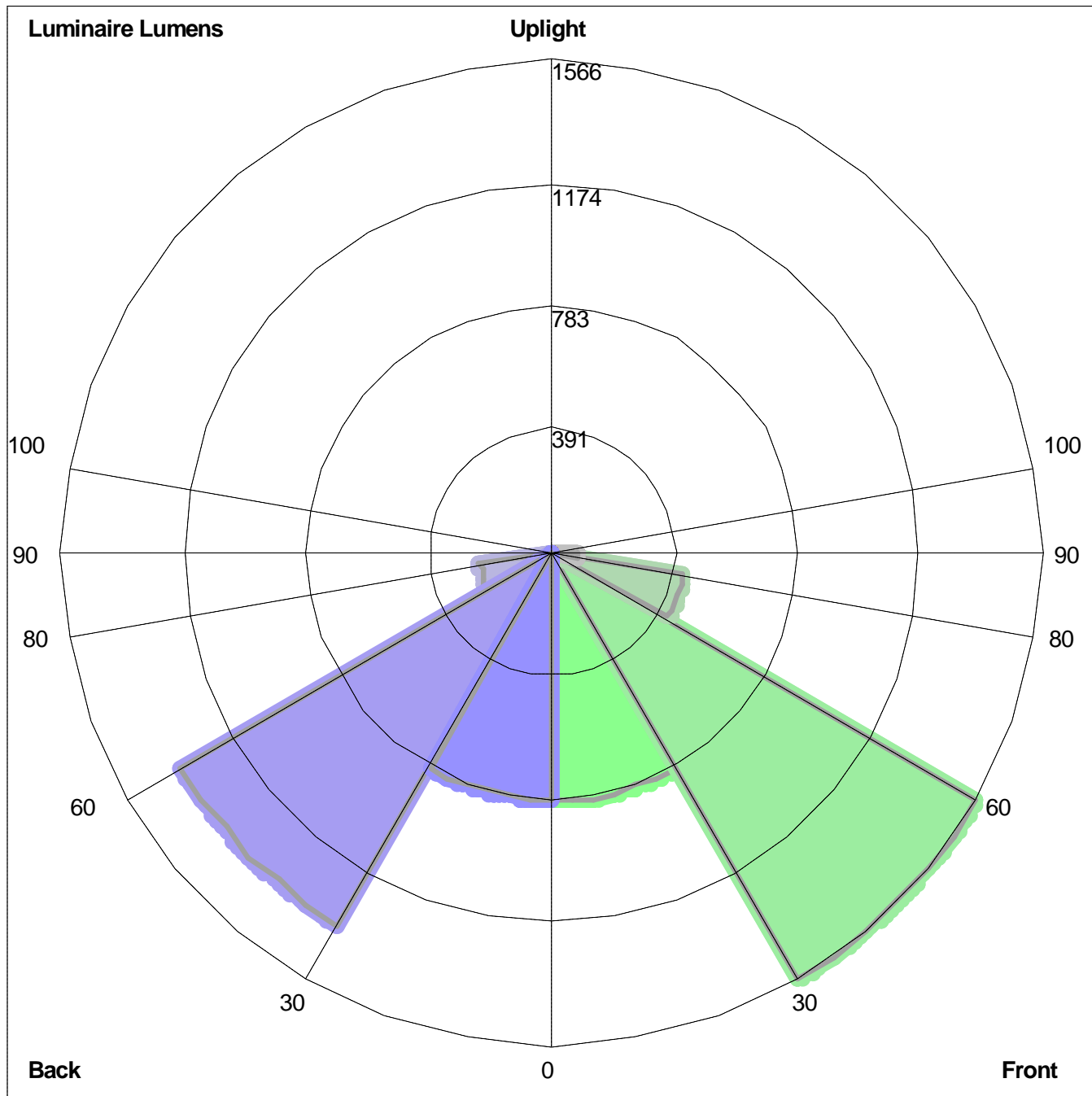


Maximum Candela = 1959 Located At Horizontal Angle = 85, Vertical Angle = 7.5
1 - Vertical Plane Through Horizontal Angles (85 - 265) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (7.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=792.4, Medium=1565.6, High=422.1, Very High=75.0
Back: Low=787.8, Medium=1365.9, High=234.0, Very High=7.8
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1