



IES ROAD REPORT
PHOTOMETRIC FILENAME : XPWS3-WW-LED-48-350-CW-UE.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-3069
[TESTLAB]LSI INDUSTRIES
[ISSUE DATE]05/08/12
[TEST DATE]03/21/12
[MANUFACTURER]LSI INDUSTRIES
[LUMEN CATEGORY]XPWS3-WW-LED-48-350-CW-UE
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[LED DRIVER]ELECTRONIC LED DRIVER

CHARACTERISTICS

| | |
|---|---------------------------|
| IES Classification | Type VS |
| Longitudinal Classification | Very Short |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 5209 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 95 |
| Total Luminaire Watts | 55 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 2338 |
| Maximum Candela Angle | 65H 37.5V |
| Maximum Candela (<90 Degrees Vertical) | 2338 |
| Maximum Candela Angle (<90 Degrees Vertical) | 65H 37.5V |
| Maximum Candela At 90 Degrees Vertical | 0 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 9 (0.2% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

| | Lumens | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30) | 788.7 | N.A. | 15.1 |
| FM - Front-Medium (30-60) | 1655.6 | N.A. | 31.8 |
| FH - Front-High (60-80) | 108.3 | N.A. | 2.1 |
| FVH - Front-Very High (80-90) | 2.1 | N.A. | 0.0 |
| BL - Back-Low (0-30) | 799.4 | N.A. | 15.3 |
| BM - Back-Medium (30-60) | 1732.9 | N.A. | 33.3 |
| BH - Back-High (60-80) | 120.0 | N.A. | 2.3 |
| BVH - Back-Very High (80-90) | 2.3 | N.A. | 0.0 |
| UL - Uplight-Low (90-100) | 0.0 | N.A. | 0.0 |
| UH - Uplight-High (100-180) | 0.0 | N.A. | 0.0 |
| Total | 5209.3 | N.A. | 100.0 |
| BUG Rating | B2-U0-G0 | | |

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CANDELA TABULATION

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-------------------------|--------------------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | <u>0</u> | <u>5</u> | <u>15</u> | <u>25</u> | <u>35</u> | <u>45</u> | <u>55</u> | <u>65</u> | <u>75</u> | <u>85</u> |
| 0.0 | 1833 | 1833 | 1833 | 1833 | 1833 | 1833 | 1833 | 1833 | 1833 | 1833 |
| 2.5 | 1806 | 1804 | 1809 | 1808 | 1817 | 1813 | 1835 | 1847 | 1843 | 1856 |
| 5.0 | 1787 | 1784 | 1792 | 1789 | 1798 | 1795 | 1819 | 1831 | 1827 | 1839 |
| 7.5 | 1768 | 1767 | 1774 | 1771 | 1782 | 1786 | 1805 | 1818 | 1814 | 1827 |
| 10.0 | 1757 | 1756 | 1764 | 1762 | 1775 | 1784 | 1799 | 1810 | 1805 | 1819 |
| 12.5 | 1754 | 1753 | 1762 | 1760 | 1775 | 1779 | 1793 | 1805 | 1801 | 1815 |
| 15.0 | 1754 | 1754 | 1764 | 1766 | 1776 | 1781 | 1797 | 1809 | 1805 | 1820 |
| 17.5 | 1768 | 1768 | 1777 | 1777 | 1783 | 1794 | 1809 | 1821 | 1816 | 1830 |
| 20.0 | 1787 | 1786 | 1798 | 1798 | 1804 | 1822 | 1831 | 1840 | 1834 | 1846 |
| 22.5 | 1827 | 1827 | 1841 | 1841 | 1850 | 1858 | 1870 | 1878 | 1870 | 1878 |
| 25.0 | 1891 | 1892 | 1907 | 1916 | 1926 | 1931 | 1932 | 1945 | 1935 | 1936 |
| 27.5 | 1958 | 1961 | 1978 | 1993 | 2010 | 2011 | 2009 | 2019 | 2009 | 2005 |
| 30.0 | 2009 | 2012 | 2038 | 2062 | 2083 | 2084 | 2087 | 2087 | 2075 | 2066 |
| 32.5 | 1998 | 2008 | 2082 | 2138 | 2160 | 2156 | 2171 | 2174 | 2159 | 2134 |
| 35.0 | 1972 | 1978 | 2034 | 2162 | 2236 | 2232 | 2263 | 2283 | 2267 | 2214 |
| 37.5 | 1926 | 1937 | 2014 | 2124 | 2230 | 2265 | 2304 | 2338 | 2319 | 2231 |
| 40.0 | 1665 | 1675 | 1793 | 2004 | 2049 | 2149 | 2188 | 2218 | 2198 | 2080 |
| 42.5 | 1377 | 1376 | 1413 | 1617 | 1790 | 1846 | 1899 | 1918 | 1900 | 1764 |
| 45.0 | 1158 | 1156 | 1167 | 1278 | 1432 | 1554 | 1611 | 1633 | 1623 | 1492 |
| 47.5 | 1022 | 1021 | 1030 | 1123 | 1159 | 1360 | 1426 | 1457 | 1447 | 1333 |
| 50.0 | 930 | 931 | 945 | 1029 | 1043 | 1110 | 1301 | 1327 | 1326 | 1229 |
| 52.5 | 853 | 849 | 868 | 939 | 937 | 918 | 1169 | 1204 | 1212 | 1134 |
| 55.0 | 778 | 774 | 800 | 854 | 821 | 803 | 960 | 1092 | 1096 | 1048 |
| 57.5 | 695 | 695 | 733 | 765 | 715 | 712 | 751 | 971 | 974 | 968 |
| 60.0 | 568 | 574 | 611 | 612 | 561 | 560 | 567 | 734 | 779 | 806 |
| 62.5 | 306 | 308 | 321 | 332 | 300 | 296 | 300 | 369 | 415 | 444 |
| 65.0 | 78 | 75 | 81 | 96 | 95 | 94 | 99 | 110 | 122 | 121 |
| 67.5 | 48 | 45 | 45 | 46 | 49 | 52 | 49 | 51 | 53 | 58 |
| 70.0 | 29 | 27 | 26 | 25 | 28 | 36 | 29 | 28 | 28 | 33 |
| 72.5 | 17 | 15 | 15 | 15 | 18 | 28 | 19 | 18 | 18 | 20 |
| 75.0 | 11 | 10 | 10 | 10 | 12 | 18 | 14 | 12 | 12 | 13 |
| 77.5 | 8 | 7 | 7 | 8 | 9 | 10 | 11 | 9 | 9 | 10 |
| 80.0 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 8 | 7 | 7 |
| 82.5 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |
| 85.0 | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 5 |
| 87.5 | 4 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 90.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-------------------------|--------------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | <u>90</u> | <u>95</u> | <u>105</u> | <u>115</u> | <u>118</u> | <u>125</u> | <u>135</u> | <u>145</u> | <u>155</u> | <u>165</u> |
| 0.0 | 1833 | 1833 | 1833 | 1833 | 1833 | 1833 | 1833 | 1833 | 1833 | 1833 |
| 2.5 | 1854 | 1853 | 1859 | 1853 | 1850 | 1842 | 1835 | 1829 | 1817 | 1817 |
| 5.0 | 1841 | 1841 | 1846 | 1843 | 1842 | 1834 | 1825 | 1818 | 1800 | 1804 |
| 7.5 | 1830 | 1830 | 1837 | 1836 | 1835 | 1819 | 1811 | 1804 | 1785 | 1792 |
| 10.0 | 1822 | 1821 | 1828 | 1829 | 1825 | 1814 | 1807 | 1797 | 1783 | 1782 |
| 12.5 | 1818 | 1818 | 1824 | 1824 | 1820 | 1809 | 1802 | 1797 | 1786 | 1780 |
| 15.0 | 1820 | 1822 | 1826 | 1825 | 1824 | 1811 | 1806 | 1800 | 1789 | 1782 |
| 17.5 | 1829 | 1830 | 1834 | 1832 | 1834 | 1825 | 1819 | 1810 | 1803 | 1797 |
| 20.0 | 1843 | 1844 | 1848 | 1849 | 1854 | 1847 | 1859 | 1836 | 1832 | 1831 |
| 22.5 | 1873 | 1874 | 1878 | 1882 | 1895 | 1893 | 1901 | 1895 | 1896 | 1907 |
| 25.0 | 1929 | 1930 | 1934 | 1946 | 1963 | 1964 | 1975 | 1984 | 1994 | 1997 |
| 27.5 | 1993 | 1993 | 1996 | 2010 | 2033 | 2036 | 2051 | 2065 | 2061 | 2042 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|
| 30.0 | 2050 | 2050 | 2052 | 2068 | 2093 | 2092 | 2110 | 2113 | 2086 | 2042 |
| 32.5 | 2111 | 2111 | 2113 | 2134 | 2166 | 2157 | 2170 | 2156 | 2118 | 2064 |
| 35.0 | 2171 | 2168 | 2169 | 2208 | 2255 | 2243 | 2236 | 2219 | 2204 | 2134 |
| 37.5 | 2178 | 2176 | 2175 | 2217 | 2292 | 2279 | 2254 | 2240 | 2240 | 2147 |
| 40.0 | 2029 | 2016 | 2025 | 2063 | 2162 | 2151 | 2119 | 2102 | 2089 | 1985 |
| 42.5 | 1740 | 1747 | 1740 | 1765 | 1884 | 1870 | 1841 | 1830 | 1803 | 1693 |
| 45.0 | 1488 | 1494 | 1489 | 1495 | 1624 | 1599 | 1582 | 1582 | 1559 | 1461 |
| 47.5 | 1333 | 1336 | 1332 | 1333 | 1463 | 1430 | 1420 | 1427 | 1410 | 1328 |
| 50.0 | 1219 | 1223 | 1220 | 1227 | 1344 | 1309 | 1290 | 1315 | 1307 | 1226 |
| 52.5 | 1113 | 1118 | 1113 | 1132 | 1225 | 1181 | 1161 | 1188 | 1205 | 1127 |
| 55.0 | 1006 | 1014 | 1008 | 1045 | 1106 | 1049 | 1034 | 1052 | 1096 | 968 |
| 57.5 | 911 | 915 | 911 | 978 | 982 | 921 | 921 | 921 | 879 | 763 |
| 60.0 | 768 | 764 | 770 | 822 | 789 | 741 | 741 | 666 | 641 | 627 |
| 62.5 | 425 | 420 | 424 | 432 | 427 | 389 | 382 | 327 | 350 | 339 |
| 65.0 | 114 | 118 | 114 | 119 | 128 | 124 | 115 | 111 | 105 | 95 |
| 67.5 | 62 | 66 | 61 | 58 | 57 | 59 | 63 | 55 | 50 | 51 |
| 70.0 | 36 | 40 | 36 | 34 | 30 | 33 | 42 | 30 | 26 | 28 |
| 72.5 | 22 | 25 | 22 | 20 | 19 | 22 | 30 | 19 | 17 | 18 |
| 75.0 | 14 | 16 | 13 | 13 | 13 | 16 | 20 | 14 | 12 | 13 |
| 77.5 | 9 | 12 | 9 | 10 | 10 | 13 | 12 | 11 | 9 | 9 |
| 80.0 | 7 | 8 | 7 | 7 | 8 | 9 | 8 | 8 | 7 | 7 |
| 82.5 | 6 | 6 | 5 | 5 | 7 | 6 | 6 | 5 | 5 | 6 |
| 85.0 | 4 | 5 | 4 | 5 | 5 | 4 | 4 | 4 | 4 | 4 |
| 87.5 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 4 |
| 90.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Vert. Horizontal Angles
Angles

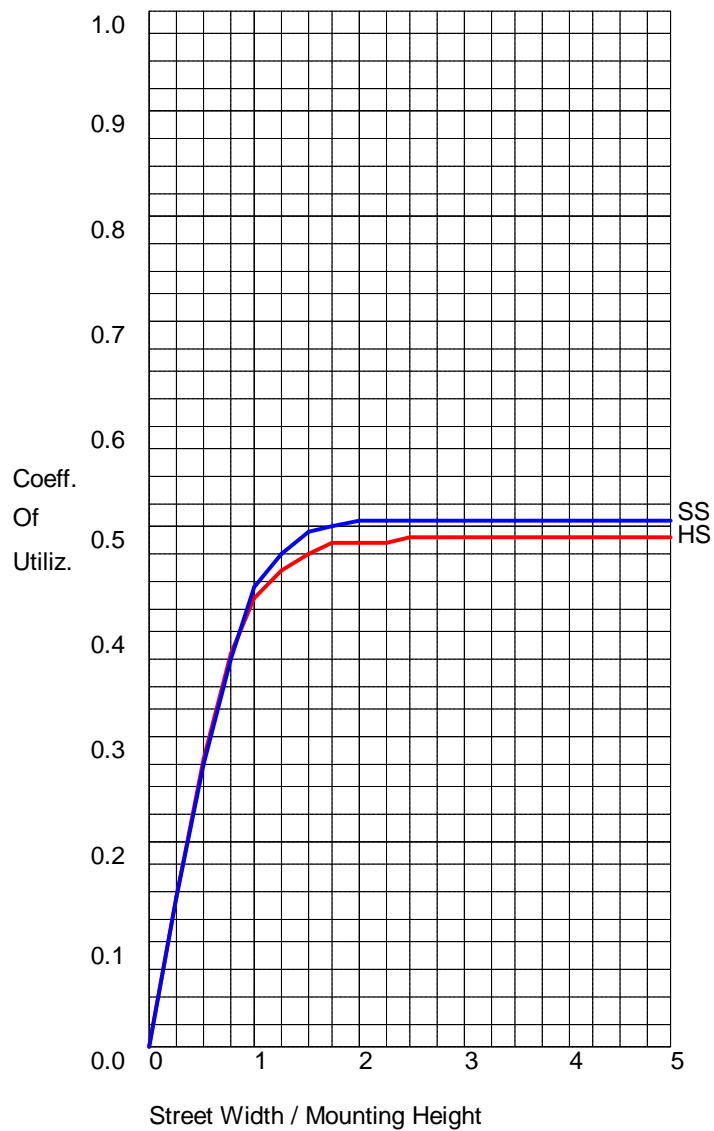
| | <u>175</u> | <u>180</u> |
|------|------------|------------|
| 0.0 | 1833 | 1833 |
| 2.5 | 1809 | 1814 |
| 5.0 | 1797 | 1800 |
| 7.5 | 1783 | 1788 |
| 10.0 | 1775 | 1779 |
| 12.5 | 1770 | 1775 |
| 15.0 | 1775 | 1779 |
| 17.5 | 1786 | 1791 |
| 20.0 | 1820 | 1827 |
| 22.5 | 1898 | 1904 |
| 25.0 | 1984 | 1989 |
| 27.5 | 2025 | 2027 |
| 30.0 | 2015 | 2016 |
| 32.5 | 2021 | 2019 |
| 35.0 | 2077 | 2073 |
| 37.5 | 2087 | 2082 |
| 40.0 | 1924 | 1920 |
| 42.5 | 1650 | 1653 |
| 45.0 | 1442 | 1444 |
| 47.5 | 1310 | 1311 |
| 50.0 | 1195 | 1196 |
| 52.5 | 1088 | 1085 |
| 55.0 | 868 | 861 |
| 57.5 | 719 | 715 |
| 60.0 | 597 | 589 |
| 62.5 | 323 | 321 |
| 65.0 | 87 | 90 |

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CANDELA TABULATION - (Cont.)

| | | |
|-------------|----|----|
| 67.5 | 52 | 54 |
| 70.0 | 30 | 32 |
| 72.5 | 18 | 20 |
| 75.0 | 12 | 13 |
| 77.5 | 8 | 9 |
| 80.0 | 6 | 8 |
| 82.5 | 5 | 5 |
| 85.0 | 4 | 4 |
| 87.5 | 3 | 4 |
| 90.0 | 0 | 0 |

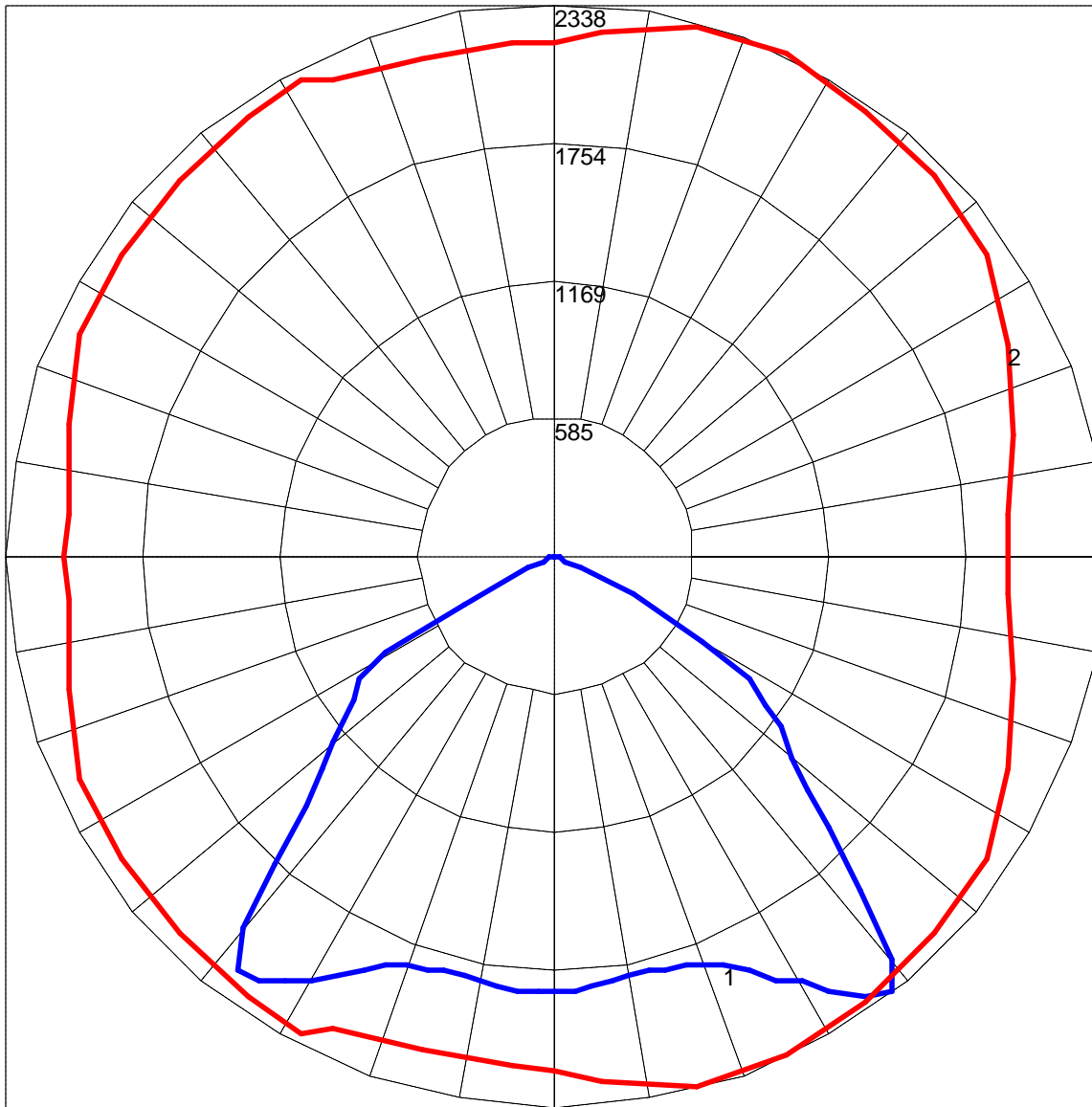
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

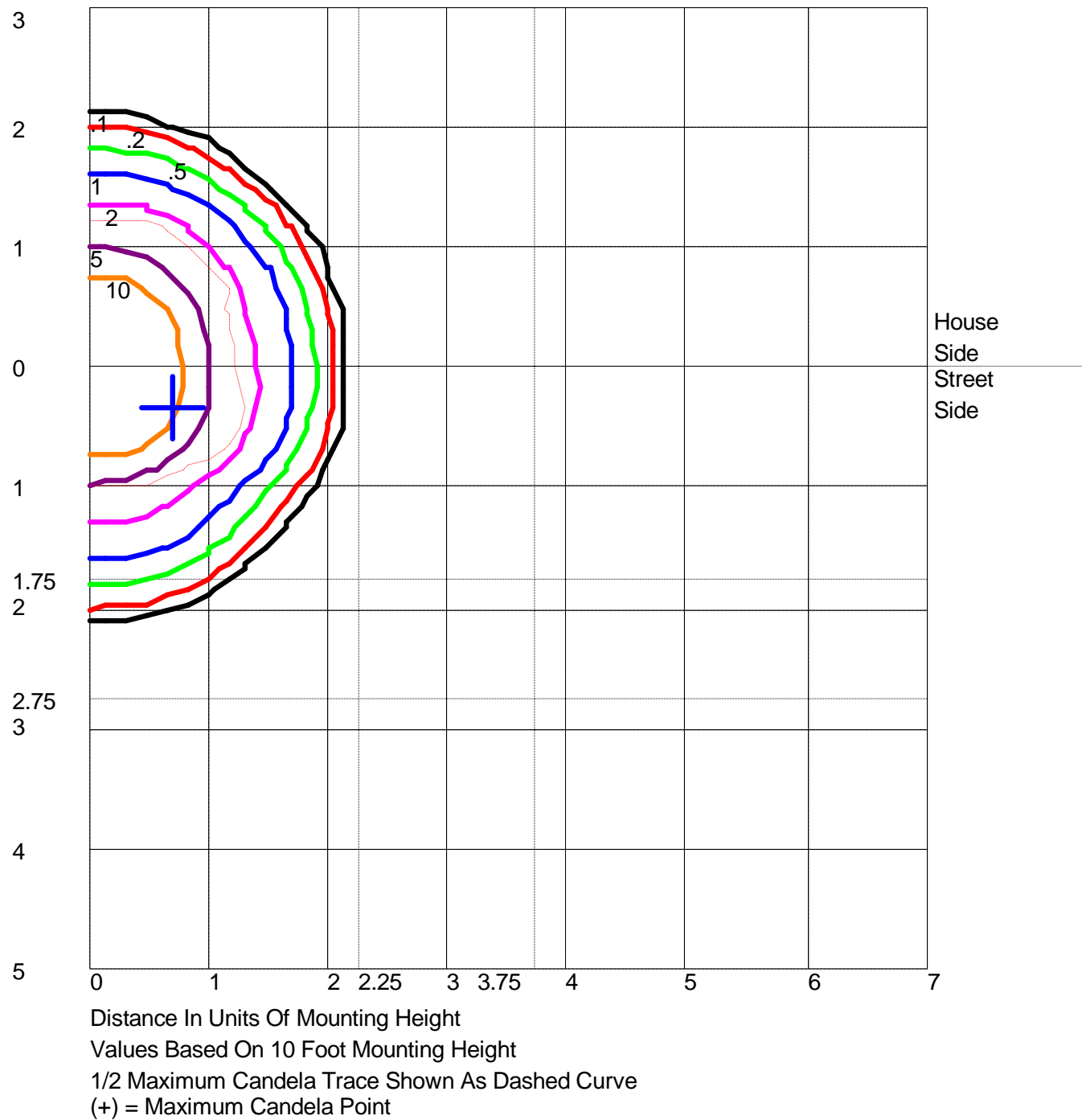
| | Lumens | Percent Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 2554.8 | 49.0 |
| Downward House Side | 2654.6 | 51.0 |
| Downward Total | 5209.4 | 100.0 |
| Upward Street Side | 0.0 | 0.0 |
| Upward House Side | 0.0 | 0.0 |
| Upward Total | 0.0 | 0.0 |
| Total Flux | 5209.4 | 100.0 |

POLAR GRAPH

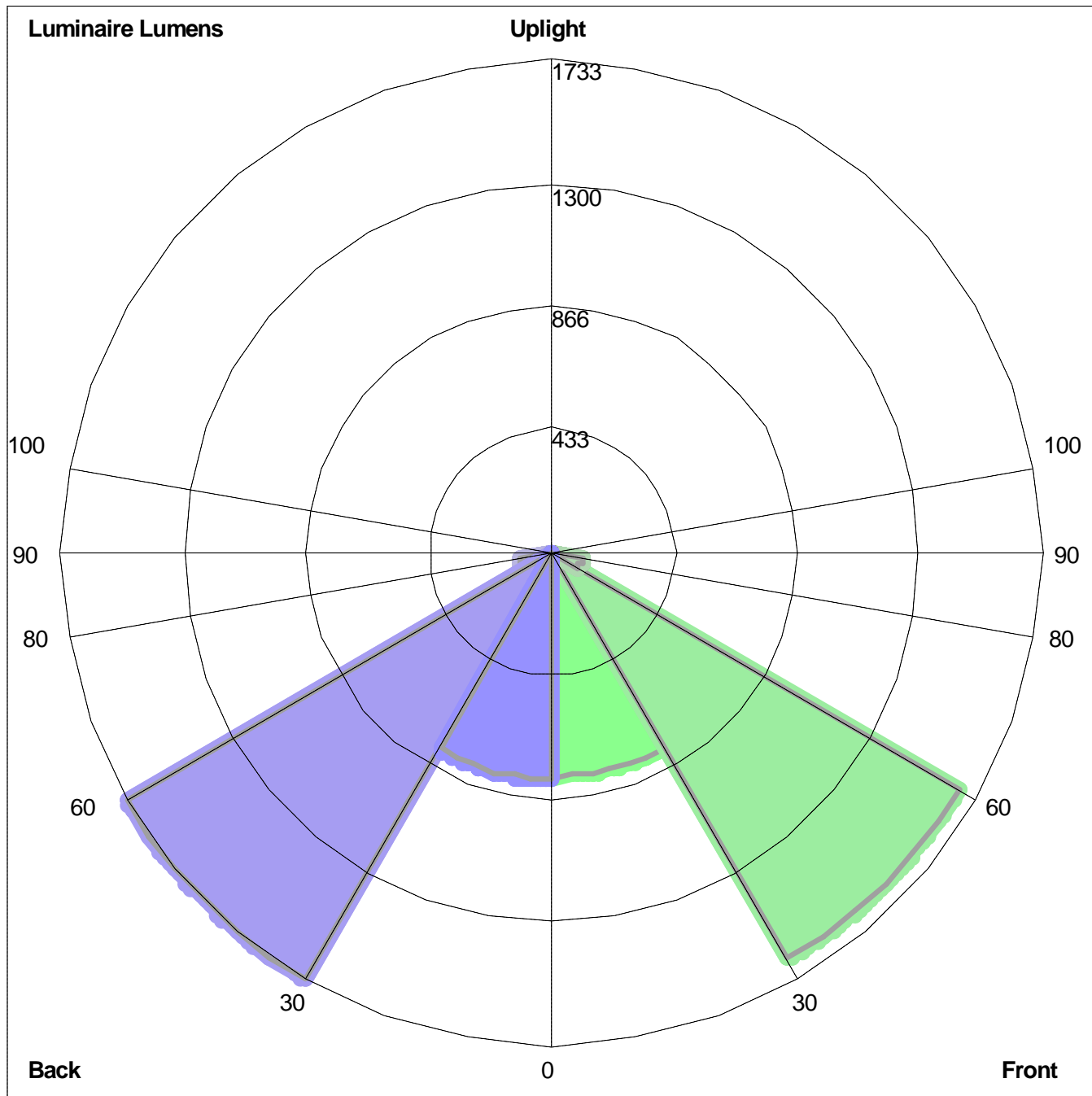


Maximum Candela = 2338 Located At Horizontal Angle = 65, Vertical Angle = 37.5
1 - Vertical Plane Through Horizontal Angles (65 - 245) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (37.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=788.7, Medium=1655.6, High=108.3, Very High=2.1
Back: Low=799.4, Medium=1732.9, High=120.0, Very High=2.3
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G0