



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VF2-L106-740-HF_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN from ATAL009606-R2
[TESTLAB]ATAL-LABS
[ISSUE]16 DEC 2022
[MANUFAC]WILLIAMS OUTDOOR
[OTHER]H.E. WILLIAMS. INC. - CARTHAGE, MO.
[LUMCAT]VF2-L106-740-HF-MTG-CLR-OPT-DIM-UNV
[LUMINAIRE] MEDIUM ARCHITECTURAL FLOOD LIGHT WITH
[MORE]HORIZONTAL FLOOD MOLDED REFRACTIVE CLEAR ACRYLIC LENS AND A
[MORE]CLEAR GLASS LENS.
[LAMPCAT]X32-LUXEON TX 4000K LEDS
[BALLAST](1) PHILIPS ELECTRONIC DRIVER
[OTHER]INPUT WATTS: 98, VAC: 120.02, TEMP: 24.9 C
[SEARCH_SOURCE] LED
[SEARCH_APPLICATION] Outdoor, Architectural, Facade, Landscape, Parking, Site, Flood, Wet Location
[SEARCH_MOUNTING] Arm, Ground, Pole, Post Top, Wall
[SEARCH_CERTIFICATION] DLC
[SEARCH_CLASSIFICATION] IP66

Note: Candela values converted from Type-B to Type-C

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9395
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	98
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.72
Spacing Criterion (90-270)	3.16
Spacing Criterion (Diagonal)	2.10
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.69 ft (Diameter)
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	58017	119296	162940
55	22832	85803	278237
65	20755	24590	230754
75	16710	15574	16474
85	0	5728	5591

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CANDELA TABULATION

	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
0.0	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663
2.5	1565.461	1565.196	1564.863	1564.460	1563.989	1563.452	1562.848	1562.179	1561.446	1560.651
5.0	1608.565	1607.566	1606.405	1605.093	1603.637	1602.376	1601.816	1601.013	1600.056	1598.945
7.5	1662.184	1661.335	1660.161	1658.664	1657.790	1656.665	1655.219	1653.451	1650.155	1649.037
10.0	1722.112	1720.964	1719.347	1718.207	1717.016	1715.357	1713.233	1710.646	1707.601	1704.102
12.5	1775.730	1774.375	1772.756	1772.317	1771.357	1769.962	1768.254	1766.233	1763.686	1760.599
15.0	1804.117	1803.979	1803.851	1803.812	1803.483	1803.088	1802.845	1802.306	1801.307	1802.826
17.5	1826.825	1824.996	1824.251	1823.788	1822.823	1823.665	1824.507	1826.214	1828.769	1831.003
20.0	1866.497	1865.296	1865.068	1864.508	1864.557	1864.024	1865.121	1868.820	1870.871	1876.234
22.5	1905.046	1908.733	1909.792	1910.015	1912.772	1915.131	1919.874	1924.550	1933.122	1943.540
25.0	1954.109	1957.905	1960.892	1963.488	1969.370	1975.374	1984.431	1995.378	2012.870	2031.375
27.5	2016.790	2021.144	2024.876	2030.216	2038.434	2050.210	2062.647	2086.513	2106.303	2143.833
30.0	2066.955	2071.261	2077.443	2088.537	2102.684	2126.706	2156.381	2193.361	2235.897	2277.307
32.5	2093.238	2095.646	2103.186	2117.661	2137.612	2167.044	2209.937	2260.141	2322.571	2389.942
35.0	2015.321	2016.755	2030.348	2052.257	2085.660	2131.857	2199.678	2283.111	2378.648	2480.284
37.5	1911.354	1910.559	1926.303	1946.938	1982.242	2033.923	2099.848	2194.807	2298.544	2410.672
40.0	1759.960	1761.199	1776.975	1800.396	1840.333	1899.945	1980.572	2080.980	2196.428	2324.400
42.5	1608.565	1610.998	1625.108	1648.847	1688.797	1750.155	1836.110	1937.976	2051.901	2182.526
45.0	1416.168	1421.956	1435.124	1461.182	1498.022	1562.522	1655.816	1762.343	1887.208	2026.072
47.5	1223.771	1232.144	1242.818	1266.465	1301.682	1359.830	1447.919	1551.524	1676.265	1801.607
50.0	966.541	973.909	985.466	1009.305	1046.223	1105.795	1191.857	1297.061	1423.753	1548.101
52.5	709.310	714.856	724.477	744.237	775.783	826.693	897.605	983.494	1081.287	1182.720
55.0	452.080	455.738	462.828	477.953	502.050	541.032	593.476	653.979	724.084	807.972
57.5	414.757	416.120	416.434	419.482	425.488	438.097	452.853	460.810	465.966	480.304
60.0	377.435	378.838	379.194	382.191	387.896	398.960	411.815	419.020	425.905	439.071
62.5	340.112	341.610	341.890	344.862	350.117	358.751	369.559	377.445	385.671	395.507
65.0	302.789	304.430	304.529	307.497	312.105	318.396	327.342	336.265	344.287	351.480
67.5	264.415	266.087	266.415	269.137	273.896	278.102	285.681	293.927	300.631	306.389
70.0	226.041	227.728	228.317	230.579	235.225	237.864	243.538	250.454	254.842	258.390
72.5	187.666	189.361	190.255	192.219	196.217	197.524	200.699	206.792	208.512	209.685
75.0	149.292	150.988	152.223	153.798	156.934	157.085	157.284	162.954	161.731	160.385
77.5	111.969	113.656	114.762	116.144	118.432	119.245	118.805	123.225	120.779	118.314
80.0	74.646	76.322	77.307	78.423	80.227	81.637	81.892	84.476	83.254	82.469
82.5	37.323	38.983	39.849	40.616	42.188	43.872	45.225	46.045	46.012	46.931
85.0	0.000	1.638	2.387	2.748	4.260	5.994	8.722	7.731	8.948	11.598
87.5	0.000	0.788	1.056	1.061	1.596	2.153	3.257	2.204	2.416	3.405
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
0.0	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663
2.5	1559.914	1559.303	1558.586	1557.800	1556.948	1556.030	1555.048	1554.003	1552.898	1551.734
5.0	1597.682	1596.271	1594.713	1593.011	1591.168	1589.145	1587.168	1584.969	1582.616	1580.113
7.5	1646.484	1643.687	1640.652	1637.387	1633.902	1630.205	1626.307	1622.107	1618.036	1611.767
10.0	1698.150	1695.999	1691.611	1687.846	1683.632	1678.915	1673.698	1667.987	1661.619	1657.046
12.5	1757.745	1755.086	1751.219	1746.174	1741.297	1737.392	1732.559	1726.794	1720.281	1714.455
15.0	1803.393	1803.443	1804.489	1804.768	1803.028	1799.936	1801.733	1800.864	1796.798	1789.989
17.5	1835.110	1841.322	1846.590	1852.742	1859.805	1866.128	1872.935	1880.610	1884.194	1883.057
20.0	1882.728	1886.564	1900.232	1907.730	1922.476	1938.375	1951.925	1964.546	1976.907	1986.200
22.5	1955.317	1971.481	1983.587	2004.942	2023.118	2039.906	2054.632	2065.911	2079.975	2090.694
25.0	2055.170	2078.035	2106.831	2131.375	2153.650	2171.487	2184.667	2197.138	2204.925	2207.710
27.5	2177.038	2215.339	2249.666	2280.289	2304.562	2322.097	2337.086	2343.965	2345.715	2341.559
30.0	2326.856	2371.925	2415.119	2449.874	2478.226	2496.633	2505.815	2506.073	2497.862	2490.420

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CANDELA TABULATION - (Cont.)

32.5	2458.558	2533.416	2600.480	2641.456	2667.648	2685.191	2687.812	2681.458	2670.736	2659.827
35.0	2557.482	2633.404	2705.483	2768.646	2827.403	2869.757	2871.644	2864.898	2855.904	2847.407
37.5	2527.590	2643.145	2756.056	2861.745	2910.141	2951.108	2984.179	3014.211	3027.248	3025.190
40.0	2450.068	2566.700	2676.027	2779.446	2877.036	2968.643	3029.006	3052.447	3084.491	3134.522
42.5	2313.709	2437.610	2560.077	2669.402	2765.996	2839.255	2916.192	2989.042	3069.952	3114.823
45.0	2160.074	2278.945	2386.640	2495.558	2585.448	2680.125	2761.163	2831.929	2911.954	3009.803
47.5	1921.847	2045.496	2168.596	2291.090	2382.651	2459.722	2540.080	2623.444	2716.464	2812.607
50.0	1652.932	1757.186	1872.243	1964.726	2070.804	2181.413	2299.098	2367.669	2455.429	2570.854
52.5	1288.145	1401.896	1512.103	1611.449	1698.564	1799.447	1896.183	2015.615	2160.991	2276.927
55.0	901.717	1004.096	1101.487	1200.491	1298.021	1388.272	1475.189	1568.863	1698.888	1865.315
57.5	504.170	593.639	691.483	792.047	896.265	988.268	1078.086	1154.959	1226.509	1313.170
60.0	445.782	453.153	461.742	468.239	496.803	602.806	702.212	791.626	868.125	873.145
62.5	401.954	409.229	415.994	421.527	424.491	428.070	425.934	446.156	529.393	571.969
65.0	358.229	364.938	369.677	373.711	373.415	373.119	367.964	364.411	358.742	353.998
67.5	313.226	320.300	322.842	323.647	321.335	316.306	309.378	303.443	297.648	293.247
70.0	262.766	267.491	269.853	270.187	268.316	259.640	250.273	243.569	237.697	235.409
72.5	211.624	213.792	215.087	215.757	215.413	207.802	199.607	191.152	182.475	179.967
75.0	159.908	159.902	160.060	162.479	162.944	157.930	151.876	144.730	139.143	138.570
77.5	115.739	112.954	110.390	112.017	111.960	109.736	105.463	99.779	97.616	98.983
80.0	81.125	79.545	78.498	80.076	79.239	76.269	71.024	64.495	62.299	62.414
82.5	46.795	46.485	46.642	48.163	48.042	46.911	43.797	39.934	39.651	40.230
85.0	12.661	13.670	14.803	16.261	17.307	18.079	17.411	16.344	17.232	18.305
87.5	3.480	3.555	3.641	3.739	3.849	3.974	3.442	2.864	2.972	3.110
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663
2.5	1550.514	1549.240	1547.915	1546.541	1545.121	1543.659	1541.279	1540.708	1539.358	1537.992
5.0	1577.465	1573.834	1572.110	1569.624	1567.098	1564.534	1561.931	1559.293	1556.618	1553.909
7.5	1609.373	1605.392	1601.286	1597.059	1592.716	1588.263	1583.705	1579.532	1575.908	1572.936
10.0	1651.809	1646.088	1639.895	1633.246	1625.277	1620.801	1615.071	1610.756	1605.550	1599.448
12.5	1708.686	1701.966	1694.311	1686.348	1678.361	1668.946	1662.087	1654.374	1648.685	1642.391
15.0	1784.332	1776.924	1768.804	1760.239	1750.313	1739.776	1733.172	1723.951	1713.551	1705.057
17.5	1881.938	1879.435	1872.340	1863.082	1849.037	1840.812	1827.458	1812.727	1800.107	1786.045
20.0	1992.963	1992.620	1987.662	1977.556	1968.127	1954.605	1938.591	1921.425	1898.645	1886.369
22.5	2096.395	2103.841	2107.627	2105.048	2096.954	2085.031	2064.885	2042.321	2022.160	1996.104
25.0	2210.515	2212.402	2216.856	2218.263	2217.927	2207.780	2193.593	2178.648	2156.264	2139.355
27.5	2338.343	2332.300	2327.504	2331.074	2336.938	2342.759	2342.344	2336.839	2324.253	2310.932
30.0	2477.442	2470.011	2467.926	2462.748	2470.673	2492.635	2512.035	2524.719	2531.384	2522.447
32.5	2647.846	2637.586	2638.878	2650.320	2663.509	2678.728	2700.775	2743.932	2778.550	2802.092
35.0	2843.664	2849.799	2858.536	2864.915	2882.742	2919.295	2965.184	3017.873	3062.588	3095.187
37.5	3036.469	3053.848	3060.943	3077.665	3105.156	3144.903	3197.516	3254.293	3319.601	3386.952
40.0	3167.742	3184.558	3216.240	3242.711	3279.338	3321.327	3367.219	3441.828	3530.568	3619.269
42.5	3176.835	3255.857	3309.304	3378.313	3435.268	3475.282	3535.881	3616.160	3701.630	3772.037
45.0	3117.129	3216.360	3347.951	3467.118	3562.176	3678.524	3764.572	3842.140	3904.811	3953.878
47.5	2944.488	3107.094	3266.014	3465.090	3680.637	3838.509	3986.830	4107.816	4233.302	4345.805
50.0	2714.579	2876.219	3118.951	3387.600	3640.574	3928.021	4173.076	4403.237	4600.324	4748.104
52.5	2415.155	2629.226	2888.731	3179.267	3562.473	3906.441	4283.267	4585.659	4834.442	5035.216
55.0	2095.021	2291.258	2557.448	2947.717	3355.033	3802.241	4201.408	4563.299	4881.767	5189.968
57.5	1482.226	1765.743	2167.116	2568.516	3065.187	3496.389	3935.333	4363.329	4793.147	5211.965
60.0	838.665	1034.415	1485.966	2028.613	2488.155	2966.387	3477.949	4044.174	4565.153	4783.796
62.5	583.868	647.893	720.070	1156.049	1696.654	2252.454	2829.562	3477.991	3678.378	3698.072
65.0	391.743	453.631	521.156	576.827	744.023	1344.541	1977.770	2318.814	2537.549	2652.357
67.5	291.097	288.347	326.992	391.269	443.142	481.812	914.103	1321.573	1537.399	1618.742

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70.0	234.588	235.441	242.266	251.266	287.152	332.884	372.607	534.644	757.363	785.645
72.5	180.768	183.763	189.258	196.849	204.562	207.195	237.150	273.900	309.509	324.050
75.0	137.342	136.259	135.497	141.407	147.540	151.758	153.786	153.178	186.038	213.975
77.5	99.178	98.403	97.726	97.491	98.467	100.765	104.960	106.253	107.832	119.410
80.0	61.769	61.387	61.059	62.251	64.546	66.068	66.594	66.237	69.631	71.517
82.5	39.024	36.915	34.238	33.348	33.111	35.431	37.767	39.553	40.718	40.539
85.0	18.500	18.294	17.684	18.302	18.951	19.346	19.404	19.248	18.799	19.569
87.5	3.268	3.450	3.661	4.379	5.237	6.696	8.001	8.712	9.221	9.465
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
0.0	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663
2.5	1536.614	1535.224	1533.823	1532.413	1530.995	1529.569	1528.137	1526.586	1525.035	1523.488
5.0	1551.163	1547.212	1545.712	1543.090	1540.423	1537.714	1534.971	1532.196	1529.390	1526.552
7.5	1569.536	1566.000	1562.335	1558.556	1554.818	1550.989	1547.062	1543.550	1539.939	1536.073
10.0	1595.860	1591.569	1587.024	1582.237	1577.587	1573.728	1569.666	1565.380	1560.855	1557.410
12.5	1635.523	1629.651	1625.171	1620.379	1615.246	1610.222	1604.886	1601.768	1598.315	1594.922
15.0	1697.274	1688.414	1681.022	1675.094	1668.351	1662.247	1656.928	1652.391	1648.660	1645.611
17.5	1773.394	1761.196	1753.040	1748.957	1745.446	1740.777	1734.728	1726.185	1719.038	1711.781
20.0	1869.437	1854.672	1843.037	1833.486	1830.748	1826.185	1819.537	1811.103	1803.766	1794.027
22.5	1981.065	1961.012	1947.203	1930.868	1923.622	1912.681	1907.149	1902.118	1899.416	1895.144
25.0	2117.771	2099.320	2080.809	2065.337	2053.482	2043.746	2035.063	2031.434	2028.454	2025.789
27.5	2294.695	2276.774	2257.595	2242.826	2228.752	2218.584	2209.637	2204.551	2199.630	2197.061
30.0	2506.612	2491.079	2476.626	2461.235	2446.681	2437.091	2427.567	2420.993	2412.440	2408.225
32.5	2802.941	2789.120	2765.831	2738.372	2718.108	2705.562	2693.033	2687.583	2679.644	2676.095
35.0	3118.480	3127.005	3118.309	3094.688	3065.730	3036.345	3006.861	2989.801	2975.883	2971.541
37.5	3450.859	3494.216	3508.588	3491.057	3445.398	3388.031	3332.779	3299.971	3281.531	3286.090
40.0	3681.105	3715.582	3715.186	3683.386	3630.729	3577.815	3538.844	3524.018	3518.696	3529.284
42.5	3821.199	3848.121	3852.099	3832.641	3794.696	3760.459	3744.909	3749.270	3750.662	3749.590
45.0	4037.875	4101.635	4137.884	4141.328	4104.674	4042.009	3977.257	3934.644	3908.540	3903.282
47.5	4433.164	4488.456	4510.571	4496.930	4437.072	4334.316	4209.605	4110.963	4055.088	4045.748
50.0	4841.733	4907.958	4944.994	4943.565	4884.962	4780.160	4642.761	4511.409	4427.707	4388.453
52.5	5203.584	5335.302	5409.182	5414.812	5349.505	5230.719	5075.918	4918.876	4821.118	4794.707
55.0	5470.797	5713.658	5856.404	5890.357	5815.430	5683.134	5509.074	5321.635	5212.104	5203.549
57.5	5618.823	5757.061	5598.563	5353.626	5083.652	4833.622	4973.410	4511.730	4542.514	4799.641
60.0	4754.032	4689.898	4584.771	4396.521	4163.520	3937.135	4437.749	3665.041	3714.591	4340.821
62.5	3670.018	3624.810	3533.194	3406.946	3225.303	3034.440	3902.086	2821.084	2883.229	3841.703
65.0	2618.327	2544.195	2466.072	2384.617	2266.640	2123.239	3366.423	1981.724	2041.144	3244.068
67.5	1602.076	1502.880	1524.715	1648.390	1686.867	1625.922	2561.615	1510.266	1939.468	2578.393
70.0	726.857	922.460	1069.759	1166.041	1201.721	1148.095	1756.806	1060.147	1748.234	1893.716
72.5	414.507	553.722	669.816	724.266	724.539	667.165	951.998	615.617	1043.505	1223.565
75.0	229.862	282.584	348.630	346.254	277.269	186.525	147.189	178.177	359.065	575.920
77.5	136.846	139.055	139.568	111.353	117.203	117.774	114.597	112.889	113.976	114.203
80.0	70.831	71.093	67.572	78.108	83.575	85.478	82.006	82.132	83.679	82.596
82.5	40.170	39.240	42.147	45.999	52.056	51.310	49.414	51.296	54.955	51.099
85.0	19.887	20.908	23.148	24.692	24.859	21.263	16.822	23.189	28.058	28.333
87.5	9.311	9.740	10.257	11.647	11.703	8.919	8.411	10.406	12.392	13.081
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663
2.5	1521.949	1520.424	1518.917	1517.431	1515.972	1513.944	1513.142	1511.762	1510.409	1509.083

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CANDELA TABULATION - (Cont.)

5.0	1523.680	1520.780	1517.861	1514.921	1511.963	1508.990	1506.006	1503.013	1500.016	1497.019
7.5	1532.963	1529.571	1526.018	1522.292	1517.935	1514.432	1510.617	1506.784	1502.805	1498.679
10.0	1554.183	1550.653	1546.800	1542.684	1539.019	1534.975	1529.665	1526.059	1521.448	1518.410
12.5	1591.115	1586.904	1583.211	1579.792	1575.770	1571.120	1568.103	1563.756	1562.198	1558.725
15.0	1641.811	1638.279	1635.080	1631.096	1627.914	1626.623	1624.598	1621.922	1619.050	1615.354
17.5	1704.732	1699.730	1699.041	1697.842	1697.377	1695.472	1694.556	1692.540	1686.365	1683.998
20.0	1789.752	1786.792	1786.168	1786.314	1785.286	1786.098	1784.875	1781.870	1776.403	1769.302
22.5	1894.940	1893.453	1895.136	1895.089	1898.027	1897.833	1895.797	1890.940	1882.680	1872.855
25.0	2024.534	2026.209	2027.304	2032.013	2033.757	2031.932	2024.128	2022.892	2014.751	1997.194
27.5	2194.512	2197.383	2199.873	2200.875	2199.737	2198.656	2200.188	2192.366	2174.470	2149.846
30.0	2405.905	2404.910	2409.535	2419.707	2426.095	2430.147	2423.378	2406.645	2377.909	2354.204
32.5	2678.922	2685.961	2694.331	2701.790	2709.587	2706.496	2689.666	2680.932	2662.448	2631.125
35.0	2979.412	2993.358	3006.284	3021.009	3040.429	3049.959	3042.419	3015.399	2981.869	2935.574
37.5	3309.225	3337.326	3357.858	3374.960	3382.963	3381.132	3367.918	3340.922	3268.054	3208.578
40.0	3556.546	3592.363	3636.536	3682.059	3681.053	3635.419	3586.972	3532.403	3477.651	3403.450
42.5	3750.320	3750.672	3768.391	3798.217	3814.165	3797.917	3756.676	3699.617	3648.790	3581.435
45.0	3907.121	3910.379	3913.439	3916.508	3954.913	3972.184	3958.470	3927.250	3872.141	3809.591
47.5	4071.175	4129.199	4189.298	4230.119	4246.691	4238.971	4239.832	4224.679	4177.685	4089.781
50.0	4402.284	4458.373	4525.307	4596.545	4636.536	4647.135	4627.864	4576.397	4499.221	4401.959
52.5	4823.982	4886.373	4945.935	4999.088	5046.974	5080.888	5065.505	4981.330	4861.666	4655.343
55.0	5249.048	5302.488	5348.248	5387.263	5423.602	5460.768	5463.217	5378.284	5151.961	4921.734
57.5	5204.041	5528.299	5729.820	5754.090	5773.268	5753.803	5689.957	5545.480	5346.212	4878.890
60.0	4644.492	4953.650	5330.694	5782.866	6047.658	5926.367	5626.815	5340.528	5043.481	4712.003
62.5	4052.839	4337.366	4674.899	5071.805	5503.239	5698.018	5222.346	4794.407	4409.080	4045.415
65.0	3416.738	3645.645	3910.673	4208.396	4338.822	4384.022	4424.026	3988.163	3558.418	2932.390
67.5	2726.979	2817.115	2931.778	3011.503	2982.014	2962.268	3062.764	2972.795	2230.525	1513.141
70.0	2037.923	2003.889	1758.548	1602.350	1570.442	1831.662	1781.221	1424.986	828.758	420.966
72.5	1348.694	1266.405	891.164	397.064	723.922	849.111	649.052	340.999	339.706	308.219
75.0	708.089	586.754	278.480	261.754	224.938	206.209	223.449	225.924	216.183	193.124
77.5	224.157	163.950	163.794	141.234	126.896	130.509	137.095	128.225	121.648	119.980
80.0	74.629	81.140	81.942	84.396	83.443	80.338	81.278	80.568	78.036	74.078
82.5	47.394	45.322	48.220	49.579	49.930	48.591	46.194	42.314	38.148	37.829
85.0	27.179	25.706	25.217	24.945	23.966	24.336	24.290	23.769	23.142	22.440
87.5	12.390	12.412	12.395	12.437	12.048	11.375	10.502	9.472	8.395	7.815
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0.0	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663
2.5	1507.787	1506.523	1505.293	1504.100	1502.945	1501.831	1500.759	1499.733	1498.753	1497.823
5.0	1494.026	1491.143	1488.528	1485.918	1483.318	1480.732	1478.166	1475.385	1473.600	1471.762
7.5	1494.409	1489.996	1485.446	1481.220	1477.678	1473.235	1470.701	1467.571	1464.280	1460.840
10.0	1514.747	1510.449	1505.509	1499.926	1493.030	1489.528	1484.702	1479.305	1473.361	1466.898
12.5	1554.959	1550.684	1545.512	1539.440	1532.942	1524.366	1514.978	1504.836	1493.972	1483.983
15.0	1610.527	1603.843	1595.189	1585.207	1575.403	1563.638	1549.646	1532.863	1519.411	1503.612
17.5	1677.345	1668.527	1656.009	1641.714	1626.337	1608.501	1586.638	1565.770	1544.938	1523.498
20.0	1758.570	1744.968	1727.425	1705.818	1682.886	1657.901	1632.278	1606.289	1579.232	1553.654
22.5	1857.071	1834.667	1806.219	1782.567	1754.425	1723.511	1695.426	1665.420	1634.937	1604.621
25.0	1974.164	1940.082	1916.880	1886.886	1853.051	1817.284	1780.355	1739.841	1702.986	1663.373
27.5	2121.552	2096.720	2066.176	2026.891	1983.794	1939.109	1888.655	1838.687	1782.898	1731.978
30.0	2329.701	2294.186	2241.562	2197.242	2143.402	2079.239	2015.452	1948.785	1879.790	1813.189
32.5	2583.306	2528.764	2473.683	2399.664	2317.407	2244.010	2159.952	2074.296	1992.632	1907.668
35.0	2880.427	2805.356	2719.476	2634.546	2530.750	2421.309	2322.251	2220.903	2111.121	2012.631
37.5	3127.047	3047.565	2941.713	2834.107	2732.635	2606.481	2473.524	2349.822	2229.152	2112.846
40.0	3313.288	3216.386	3109.315	2995.201	2872.876	2740.221	2603.791	2450.481	2292.834	2142.867

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CANDELA TABULATION - (Cont.)

42.5	3493.304	3386.309	3279.363	3153.762	3014.445	2845.355	2665.042	2490.524	2315.299	2152.228
45.0	3719.559	3607.202	3476.765	3310.607	3125.103	2932.376	2735.271	2484.768	2265.451	2060.932
47.5	3979.566	3836.659	3646.488	3446.883	3236.102	2946.793	2669.253	2408.971	2167.815	1961.427
50.0	4225.234	4015.705	3812.659	3495.746	3181.085	2880.778	2585.550	2299.980	2038.377	1818.498
52.5	4451.174	4144.145	3778.848	3445.568	3112.291	2757.835	2435.212	2136.905	1882.579	1639.250
55.0	4510.479	4121.948	3739.758	3306.931	2923.485	2566.769	2241.877	1894.506	1578.781	1292.827
57.5	4459.320	3976.556	3494.477	3070.314	2646.151	2223.246	1886.549	1541.258	1216.057	934.632
60.0	4118.851	3613.141	3112.731	2564.352	2065.409	1700.581	1443.078	1165.297	844.646	632.423
62.5	3565.952	2857.280	2409.370	1914.667	1433.288	1060.281	984.521	917.951	716.965	554.063
65.0	2248.802	1684.737	1396.561	1265.506	1006.029	793.519	732.026	689.746	564.399	444.551
67.5	815.995	508.479	741.326	890.854	744.436	576.430	483.561	437.161	371.380	303.964
70.0	380.067	342.825	421.332	484.465	428.929	312.705	238.574	212.796	214.248	212.997
72.5	268.849	233.003	211.331	171.125	166.738	168.761	170.975	172.238	173.336	172.851
75.0	154.588	146.161	139.123	134.011	129.834	130.123	131.849	132.548	132.555	132.649
77.5	112.552	105.738	100.558	96.460	93.024	92.170	93.352	93.591	92.432	93.689
80.0	68.787	64.288	61.188	60.468	60.616	61.636	64.376	66.352	66.670	67.385
82.5	37.941	38.976	39.607	39.798	39.421	39.400	40.994	42.195	41.871	41.544
85.0	21.739	21.224	20.420	19.407	18.472	17.629	18.022	18.239	17.253	16.019
87.5	7.304	6.309	5.433	4.665	4.458	4.290	4.814	5.299	5.132	4.819
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663	1528.663
2.5	1496.943	1496.117	1495.309	1494.663	1494.082	1493.567	1493.118	1492.737	1492.424	1492.180
5.0	1469.962	1468.208	1466.505	1464.861	1463.283	1461.780	1460.359	1458.783	1456.892	1456.439
7.5	1457.266	1453.577	1449.789	1446.082	1444.570	1442.781	1441.005	1439.251	1437.528	1435.941
10.0	1460.079	1455.431	1450.586	1445.546	1440.445	1435.339	1432.369	1429.423	1426.517	1423.668
12.5	1474.283	1463.998	1453.285	1444.281	1436.987	1429.650	1422.299	1416.822	1412.711	1408.744
15.0	1487.068	1470.797	1457.682	1444.541	1429.911	1421.280	1411.585	1401.904	1395.747	1391.562
17.5	1503.242	1483.884	1464.309	1447.435	1432.715	1417.958	1406.249	1396.921	1387.529	1382.745
20.0	1530.724	1504.181	1486.010	1464.898	1445.298	1429.118	1411.021	1401.521	1391.249	1383.509
22.5	1571.537	1545.894	1518.043	1493.030	1469.731	1448.514	1429.982	1413.067	1401.561	1390.488
25.0	1627.350	1591.342	1557.039	1524.025	1495.892	1469.413	1447.460	1427.641	1413.306	1400.515
27.5	1682.568	1637.293	1593.764	1557.424	1520.872	1496.027	1470.378	1452.450	1436.556	1424.269
30.0	1750.062	1692.736	1643.190	1595.712	1560.069	1526.324	1502.497	1484.833	1469.859	1460.204
32.5	1829.291	1758.965	1697.207	1648.975	1605.635	1570.361	1547.034	1529.353	1517.250	1510.711
35.0	1917.504	1834.094	1764.058	1702.473	1648.739	1607.664	1577.983	1560.897	1552.095	1548.109
37.5	1991.931	1882.281	1788.235	1715.461	1659.810	1619.103	1591.170	1580.991	1577.346	1579.239
40.0	2009.365	1892.024	1797.104	1712.244	1640.980	1594.835	1566.308	1549.929	1543.111	1542.873
42.5	1981.143	1843.739	1728.079	1638.632	1572.559	1533.258	1510.239	1498.209	1495.880	1499.246
45.0	1892.838	1745.187	1636.765	1552.499	1485.510	1441.091	1417.016	1401.393	1395.582	1393.445
47.5	1776.704	1619.910	1506.559	1420.954	1361.707	1320.108	1299.871	1287.999	1283.699	1281.393
50.0	1623.741	1477.803	1357.497	1263.873	1200.359	1139.517	1099.362	1084.526	1084.178	1079.937
52.5	1421.667	1247.591	1091.856	1001.730	954.598	897.518	844.191	839.870	861.216	868.635
55.0	1095.176	963.287	821.297	725.641	688.623	663.621	587.996	587.136	633.225	657.217
57.5	714.949	646.133	534.811	473.954	472.916	516.306	452.507	461.769	516.242	547.799
60.0	474.070	483.452	462.951	409.322	399.689	442.733	388.656	387.333	425.451	448.913
62.5	430.072	394.711	390.763	348.891	335.004	351.067	328.153	319.193	338.454	350.163
65.0	358.351	313.237	309.470	283.663	270.214	269.277	262.158	255.179	254.916	251.533
67.5	261.462	237.431	230.469	225.227	221.083	218.829	218.361	216.143	215.602	213.621
70.0	209.643	203.623	197.692	193.195	189.874	187.308	185.759	183.748	183.006	180.799
72.5	171.910	168.431	164.408	160.893	158.427	156.297	153.122	151.399	150.401	148.102
75.0	133.204	132.422	130.689	128.357	126.778	125.702	120.455	119.082	117.790	115.409
77.5	96.299	98.462	98.946	97.726	96.783	96.423	91.612	90.867	89.739	88.113

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80.0	68.498	69.623	69.872	68.709	67.768	67.217	63.761	63.196	62.172	61.039
82.5	41.106	41.056	40.802	39.704	38.773	38.092	35.959	35.439	34.642	33.921
85.0	13.990	12.676	11.732	10.703	9.788	8.989	8.190	7.621	6.308	6.308
87.5	3.935	3.555	3.480	3.414	3.356	3.307	3.265	3.230	3.203	3.181
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>
0.0	1528.663	1528.663	1528.663
2.5	1492.005	1491.900	1491.866
5.0	1455.983	1455.526	1455.068
7.5	1435.594	1435.307	1435.093
10.0	1421.381	1420.294	1419.323
12.5	1404.417	1403.197	1401.975
15.0	1387.217	1384.937	1383.577
17.5	1377.963	1374.236	1372.642
20.0	1378.045	1373.096	1371.311
22.5	1382.831	1375.074	1373.063
25.0	1393.543	1387.329	1385.329
27.5	1416.664	1411.989	1409.410
30.0	1453.549	1451.110	1448.761
32.5	1507.460	1508.305	1506.584
35.0	1547.797	1549.574	1548.989
37.5	1583.909	1586.990	1587.538
40.0	1545.539	1545.614	1548.639
42.5	1503.652	1503.430	1509.739
45.0	1394.613	1393.844	1397.245
47.5	1282.518	1281.761	1284.750
50.0	1073.483	1071.772	1075.181
52.5	860.563	859.177	865.611
55.0	648.135	644.127	656.042
57.5	545.357	545.768	554.061
60.0	447.040	446.625	452.081
62.5	348.516	347.691	350.100
65.0	246.510	248.119	248.119
67.5	213.111	213.531	213.950
70.0	178.644	178.607	179.781
72.5	144.248	143.648	145.612
75.0	109.161	108.468	111.443
77.5	83.448	82.336	84.108
80.0	57.126	56.102	56.773
82.5	30.775	29.900	29.438
85.0	4.205	3.670	2.103
87.5	2.111	1.840	1.052
90.0	0.000	0.000	0.000

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	620.64	N.A.	6.60
0-30	1532.85	N.A.	16.30
0-40	3130.67	N.A.	33.30
0-60	7749.43	N.A.	82.50
0-80	9368.09	N.A.	99.70
0-90	9395.27	N.A.	100.00
10-90	9247.63	N.A.	98.40
20-40	2510.03	N.A.	26.70
20-50	4717.25	N.A.	50.20
40-70	5981.72	N.A.	63.70
60-80	1618.66	N.A.	17.20
70-80	255.71	N.A.	2.70
80-90	27.17	N.A.	0.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	9395.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	147.64
10-20	473.00
20-30	912.21
30-40	1597.82
40-50	2207.22
50-60	2411.54
60-70	1362.96
70-80	255.71
80-90	27.17
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

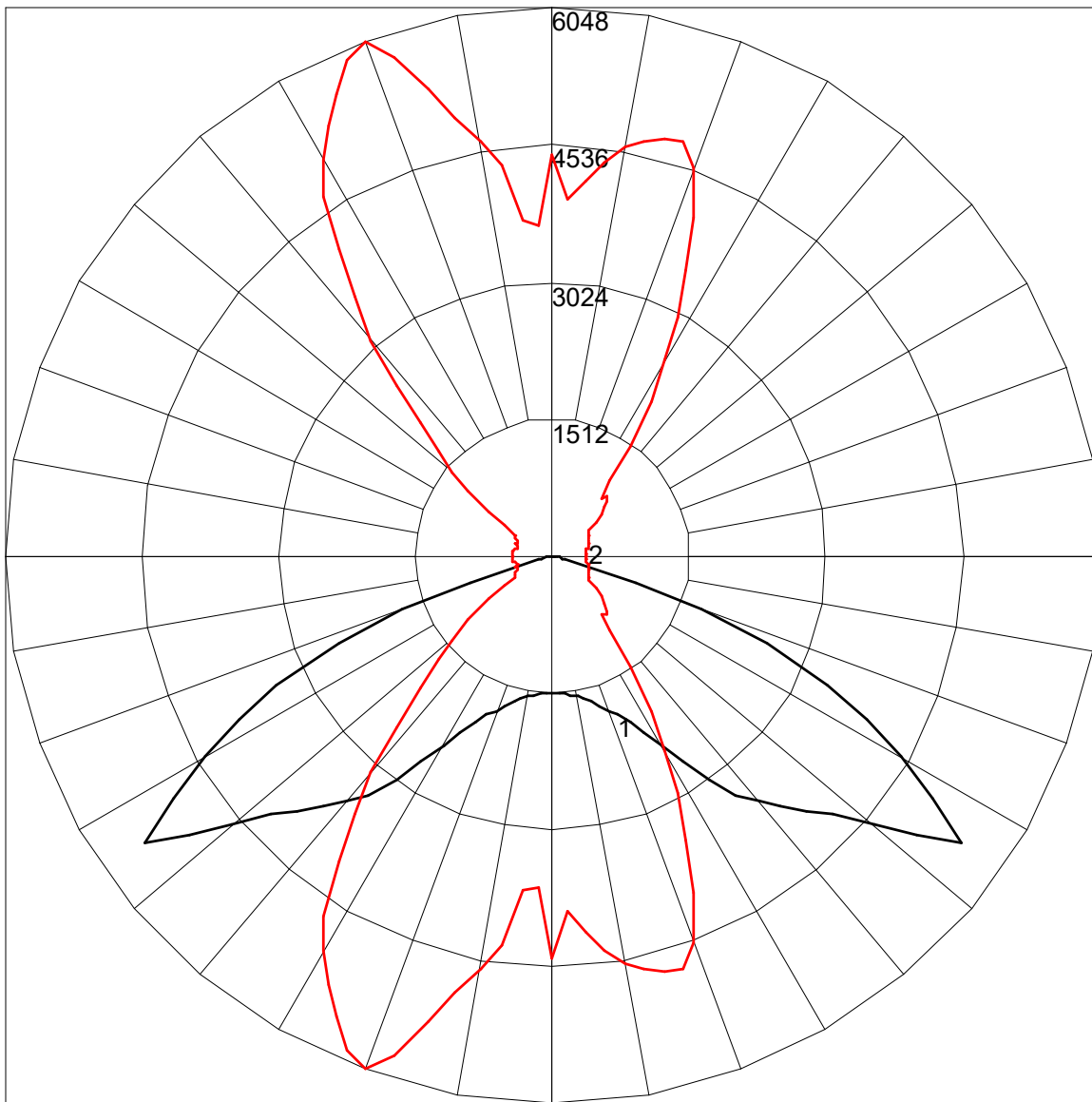
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	214	214	214	214	209	209	209	209	200	200	200	191	191	191	184	184	184	180
1	197	188	181	174	192	184	177	171	177	171	166	170	165	161	163	159	156	152
2	178	163	150	140	173	159	148	138	153	143	135	147	139	132	141	135	129	125
3	160	141	125	113	156	138	124	112	132	120	110	127	117	108	123	114	106	102
4	145	122	106	93	141	120	104	92	115	102	91	111	99	90	107	97	88	84
5	132	107	90	77	128	105	89	77	101	87	76	97	85	75	94	83	74	70
6	120	95	77	65	117	93	77	65	89	75	64	86	73	64	83	72	63	59
7	110	84	67	56	107	83	67	55	80	65	55	77	64	54	75	63	54	50
8	101	75	59	48	99	74	59	48	72	58	47	69	56	47	67	55	47	43
9	94	68	52	42	91	67	52	42	65	51	41	63	50	41	61	49	41	37
10	87	62	47	37	85	61	46	37	59	46	36	57	45	36	56	44	36	33

POLAR GRAPH



Maximum Candela = 6047.658 Located At Horizontal Angle = 110, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)