



IES INDOOR REPORT
PHOTOMETRIC FILENAME : R1LA24H-50-45W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 4789945682_18
 [TESTLAB] UL-CCIC (Suzhou) Co.,Ltd
 [TESTDATE] 06/06/2021
 [ISSUEDATE] 07/08/2021
 [MANUFAC] LAMAR LED
 [LUMCAT] R1LA24H-50-45W
 [LUMINAIRE] 2X4 RECESSED 5000K
 [_VOLTAGE] 120.10
 [_CURRENT] 0.3680A
 [_WATTS] 44.03W
 [_POWER FACTOR] 0.9960
 [_ATHD] 7.24%

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5850
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	44
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.19 m
Luminous Width (90-270)	0.52 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2792	2970	3175
55	2632	2999	3373
65	2407	3107	3686
75	2158	3400	4081
85	1868	3481	2831

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	1904.379	1904.379	1904.379	1904.379	1904.379	1904.379	1904.379	1904.379	1904.379	1904.379
1	1901.598	1897.923	1901.101	1916.297	1916.098	1915.602	1906.464	1900.902	1898.221	1895.340
2	1901.498	1894.943	1898.022	1914.708	1914.609	1909.047	1913.913	1904.577	1898.519	1891.566
3	1901.101	1891.864	1894.347	1911.033	1913.913	1913.913	1920.369	1907.557	1897.426	1887.494
4	1900.604	1887.494	1888.785	1906.762	1924.541	1917.092	1924.143	1908.848	1894.943	1882.925
5	1899.015	1884.018	1881.336	1900.704	1920.469	1917.688	1920.568	1908.252	1892.261	1878.654
6	1896.334	1882.031	1875.576	1895.142	1916.297	1915.105	1924.143	1905.868	1889.083	1875.576
7	1892.460	1879.846	1871.007	1889.679	1911.629	1911.828	1920.667	1901.995	1885.408	1872.199
8	1887.991	1877.065	1867.332	1884.713	1906.862	1919.277	1915.801	1896.632	1880.045	1867.928
9	1882.826	1873.390	1864.352	1879.449	1901.796	1910.139	1908.749	1890.176	1873.688	1863.260
10	1876.767	1868.722	1861.671	1875.377	1896.135	1901.101	1898.817	1881.535	1865.941	1857.003
11	1869.219	1862.763	1859.585	1870.709	1888.984	1890.573	1887.097	1872.000	1857.201	1850.845
12	1859.684	1855.513	1856.804	1866.438	1881.733	1880.144	1874.582	1860.280	1847.070	1842.899
13	1848.759	1847.766	1852.732	1862.664	1873.887	1870.411	1860.777	1848.064	1835.947	1833.960
14	1837.238	1839.025	1847.070	1859.188	1865.941	1859.088	1846.673	1834.258	1824.525	1823.531
15	1824.922	1829.292	1839.820	1854.023	1857.102	1848.262	1832.073	1818.863	1811.812	1812.904
16	1812.705	1818.466	1830.782	1848.560	1848.660	1836.344	1817.572	1803.667	1798.900	1800.688
17	1800.688	1806.349	1819.857	1839.224	1840.714	1824.227	1802.475	1787.776	1784.498	1788.173
18	1787.677	1793.437	1807.044	1826.610	1831.179	1812.606	1788.173	1772.679	1769.997	1774.963
19	1773.871	1779.731	1792.345	1811.514	1820.949	1800.986	1774.368	1756.788	1754.702	1760.860
20	1758.774	1765.131	1776.652	1795.424	1809.130	1789.564	1760.959	1740.598	1739.208	1745.465
21	1742.386	1750.233	1760.661	1778.936	1795.920	1778.539	1747.352	1724.906	1723.118	1729.574
22	1725.402	1734.937	1744.869	1763.244	1781.221	1766.223	1734.341	1709.511	1706.631	1713.186
23	1708.319	1719.145	1729.375	1749.537	1766.223	1753.113	1720.337	1693.520	1689.746	1695.606
24	1690.541	1703.154	1713.881	1735.036	1750.133	1739.605	1707.127	1677.828	1671.471	1677.927
25	1673.259	1686.369	1698.586	1721.032	1735.632	1725.204	1693.421	1661.241	1653.494	1659.453
26	1655.381	1669.087	1683.489	1707.028	1720.436	1709.809	1678.126	1644.158	1634.325	1641.476
27	1637.305	1651.408	1668.392	1692.924	1706.730	1693.719	1662.135	1627.075	1614.958	1622.506
28	1619.228	1633.233	1652.997	1678.225	1692.626	1677.728	1645.846	1608.601	1594.398	1604.231
29	1599.861	1614.362	1637.603	1663.426	1679.218	1661.638	1627.770	1589.531	1574.137	1584.863
30	1580.096	1595.193	1621.811	1648.925	1663.923	1645.151	1608.899	1569.568	1552.882	1564.999
31	1558.941	1575.428	1605.621	1634.524	1649.422	1628.565	1589.929	1549.008	1531.826	1544.837
32	1537.487	1555.564	1588.340	1620.122	1634.027	1611.481	1570.164	1528.250	1510.174	1523.682
33	1515.140	1535.004	1570.561	1605.323	1618.434	1594.795	1549.803	1506.698	1488.323	1502.824
34	1491.998	1513.849	1551.889	1589.432	1602.741	1577.514	1529.045	1484.847	1466.870	1480.278
35	1469.254	1492.197	1531.925	1572.746	1586.651	1559.437	1508.784	1462.699	1444.523	1457.534
36	1446.708	1469.850	1511.167	1554.173	1570.263	1542.652	1487.926	1440.451	1421.778	1434.392
37	1423.467	1446.708	1489.416	1534.309	1552.882	1524.774	1466.771	1417.210	1398.339	1410.456
38	1399.928	1422.573	1466.473	1513.352	1534.806	1506.698	1445.615	1394.763	1374.005	1386.917
39	1376.091	1398.140	1443.033	1491.800	1515.041	1487.727	1424.559	1370.628	1349.473	1361.689
40	1351.261	1372.416	1418.898	1469.651	1494.084	1467.863	1403.503	1346.295	1324.444	1336.164
41	1326.530	1346.791	1394.664	1446.708	1472.929	1445.814	1381.553	1322.259	1298.720	1310.936
42	1301.104	1321.166	1370.529	1424.261	1451.575	1424.162	1358.908	1298.124	1271.506	1285.014
43	1275.181	1295.542	1346.593	1402.113	1430.320	1401.418	1335.369	1273.492	1245.583	1259.587
44	1249.159	1269.817	1323.351	1380.759	1409.661	1378.475	1311.632	1248.265	1218.568	1234.261
45	1222.243	1244.391	1300.309	1359.504	1389.797	1354.737	1286.305	1222.541	1191.751	1208.338
46	1195.327	1218.667	1277.465	1338.548	1369.536	1332.886	1260.581	1196.519	1165.034	1182.713
47	1167.716	1192.744	1255.019	1318.683	1349.771	1309.645	1235.353	1169.205	1137.721	1157.386
48	1139.707	1166.722	1232.473	1298.919	1330.999	1288.688	1209.430	1141.892	1110.110	1131.066
49	1111.401	1140.303	1209.530	1279.352	1311.830	1267.136	1183.706	1114.678	1082.300	1105.044
50	1082.796	1114.082	1186.388	1260.382	1293.257	1245.980	1157.486	1086.074	1054.688	1077.731
51	1053.795	1087.862	1162.750	1241.114	1274.486	1225.322	1132.556	1058.363	1026.382	1051.610
52	1024.396	1061.244	1138.913	1222.143	1256.111	1204.564	1107.329	1029.461	998.374	1023.601
53	994.699	1034.328	1114.579	1202.279	1237.340	1184.898	1082.002	1000.857	969.074	995.493

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CANDELA TABULATION - (Cont.)

54	964.803	1007.412	1089.848	1182.018	1217.674	1164.438	1057.668	972.153	938.185	966.889
55	934.510	979.403	1064.720	1161.458	1197.711	1144.475	1033.732	943.350	908.488	938.086
56	904.217	951.097	1039.492	1140.204	1176.952	1123.617	1009.895	914.249	877.798	907.892
57	873.726	921.797	1014.364	1119.346	1155.996	1102.660	986.654	886.240	846.810	878.593
58	842.936	891.008	988.739	1096.900	1135.138	1080.810	963.313	857.338	816.318	848.300
59	812.345	860.417	963.711	1075.248	1113.586	1059.853	939.675	828.535	785.132	818.106
60	781.953	829.627	938.086	1051.808	1091.139	1038.201	916.036	800.228	754.143	788.608
61	751.065	798.540	912.759	1028.468	1067.699	1015.755	892.100	772.716	723.851	758.911
62	720.474	767.750	887.432	1003.638	1042.770	992.315	868.859	744.211	693.359	729.413
63	690.280	737.358	862.503	978.311	1018.436	967.683	846.015	717.593	663.761	699.914
64	659.789	707.562	837.374	952.487	991.918	942.357	822.278	690.479	634.263	671.707
65	629.694	678.858	812.941	925.571	964.406	915.441	798.937	663.066	605.261	643.301
66	599.600	649.956	788.508	897.563	936.298	888.823	775.497	635.952	575.763	615.492
67	569.605	622.345	764.671	869.157	907.197	860.615	750.369	608.142	547.059	587.880
68	540.008	595.727	740.437	840.751	876.606	831.018	725.837	580.829	518.356	560.567
69	510.907	569.903	715.408	811.551	845.320	800.725	700.610	554.906	488.957	533.651
70	482.402	545.172	689.784	781.357	812.842	770.035	673.694	528.486	461.345	508.026
71	454.294	520.541	663.364	751.263	779.967	737.656	645.586	503.557	433.536	482.699
72	426.583	496.306	635.256	720.275	747.588	706.072	616.485	478.230	405.825	458.267
73	399.171	472.171	606.155	689.188	717.196	674.289	586.291	454.790	378.810	434.231
74	372.354	447.739	575.962	658.895	687.896	644.295	555.204	430.258	352.490	410.593
75	345.736	423.206	544.775	629.992	653.829	614.796	523.918	406.918	326.070	387.649
76	319.118	398.575	513.688	598.110	618.272	581.424	492.731	383.279	299.651	364.806
77	293.096	373.943	483.295	562.156	578.544	545.073	463.829	359.641	275.119	341.763
78	267.272	349.610	454.592	523.620	536.829	507.232	436.317	334.413	250.388	319.217
79	241.648	324.680	426.683	481.706	491.638	465.914	405.229	308.093	225.955	294.685
80	216.817	297.863	394.999	436.317	442.077	420.227	371.659	280.681	202.317	268.862
81	192.285	269.855	360.634	387.351	389.338	371.162	335.804	252.076	179.274	241.946
82	169.839	241.250	323.190	335.705	332.526	318.125	295.678	224.565	155.338	215.228
83	146.399	213.441	281.773	281.376	273.728	262.207	250.686	197.450	132.196	189.206
84	123.158	188.710	236.284	224.565	212.944	204.303	203.111	170.733	109.650	165.270
85	100.811	161.794	187.816	168.349	152.756	146.101	152.160	140.042	88.197	136.864
86	78.960	131.600	136.368	112.729	94.256	89.190	99.917	104.883	66.247	106.273
87	57.606	97.930	83.529	60.983	41.715	38.437	49.859	66.148	45.489	73.199
88	37.643	60.685	35.954	16.686	7.250	8.442	12.216	27.313	26.221	37.841
89	19.467	23.638	7.052	5.463	4.469	5.264	5.264	5.065	9.435	8.244
90	5.860	4.569	3.874	4.072	3.476	3.675	3.377	2.284	2.682	2.781
91	2.582	3.178	3.278	3.774	2.980	3.377	3.278	2.384	2.781	2.582
92	2.185	2.880	2.980	3.377	2.980	2.880	2.682	2.185	2.483	3.079
93	1.986	2.781	2.582	3.178	3.079	2.582	2.781	1.887	2.781	2.880
94	1.688	2.582	2.483	2.880	2.880	2.483	2.185	1.788	2.284	2.781
95	1.688	2.384	2.284	3.178	2.980	2.086	2.185	1.986	2.384	2.781
96	1.589	2.185	2.284	2.781	2.682	2.185	2.384	1.986	2.185	1.986
97	1.788	2.185	2.185	2.781	2.384	2.086	2.880	1.986	2.284	2.384
98	1.688	1.887	2.086	2.284	2.880	2.284	1.986	2.284	2.086	1.887
99	1.788	1.589	2.086	2.483	2.980	2.185	2.185	2.086	1.589	1.688
100	1.986	1.688	2.086	2.483	2.682	1.986	1.788	1.887	1.589	1.490
101	1.986	1.688	2.185	2.086	3.178	1.986	2.086	2.284	1.688	1.986
102	1.986	1.688	2.284	1.788	2.384	2.086	2.582	1.688	1.291	1.589
103	1.887	1.887	2.185	1.589	2.284	2.582	1.390	1.688	0.795	1.390
104	1.887	1.986	2.086	1.589	1.887	1.688	2.185	1.093	1.093	1.390
105	1.788	1.887	1.986	1.490	2.086	1.788	1.788	1.490	0.894	1.390
106	1.788	1.887	1.887	1.490	2.185	1.788	2.086	1.192	1.291	1.589
107	1.788	1.589	1.887	1.589	1.490	1.788	1.688	0.894	1.093	1.986
108	1.688	1.490	1.788	0.993	1.490	2.086	1.688	1.490	1.093	1.093
109	1.490	1.291	1.589	1.291	1.291	1.986	1.192	1.688	1.192	1.788

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CANDELA TABULATION - (Cont.)

110	1.390	1.093	1.390	1.688	1.093	2.086	1.390	1.688	1.788	1.986
111	1.291	1.192	1.291	1.688	1.093	2.284	1.291	1.192	1.688	1.887
112	1.192	1.093	1.291	2.086	0.993	1.490	1.390	1.093	1.688	1.688
113	1.093	1.192	1.291	1.887	1.490	1.688	1.093	1.390	1.788	1.589
114	1.093	1.390	1.291	1.986	1.490	1.390	1.291	1.887	1.887	1.688
115	1.192	1.291	1.589	1.589	2.086	1.291	1.093	2.086	1.291	1.589
116	1.291	1.291	1.688	1.887	1.887	1.291	1.788	1.788	1.688	1.093
117	1.490	1.390	1.986	2.086	2.284	1.589	2.284	1.788	1.291	0.695
118	1.490	1.390	1.986	1.589	1.887	1.390	1.887	1.490	1.291	1.192
119	1.688	1.490	1.986	1.688	2.284	1.688	1.688	1.788	1.192	1.291
120	1.887	1.788	1.986	1.788	1.788	1.589	1.986	1.390	1.788	0.894
121	1.887	1.986	1.887	1.589	1.688	1.490	1.788	1.192	0.894	1.688
122	1.986	1.986	1.986	1.986	1.688	1.192	1.788	0.894	1.490	2.086
123	1.986	2.086	1.688	2.582	1.490	1.589	1.986	1.390	1.490	1.589
124	1.986	2.086	1.788	1.788	1.986	1.688	1.986	1.688	1.291	2.384
125	1.887	2.086	1.887	1.887	1.887	2.582	1.788	1.390	1.788	2.086
126	1.887	1.986	1.887	1.589	1.688	1.788	1.688	1.589	1.986	2.185
127	1.887	1.887	1.788	1.688	1.788	2.086	2.384	2.185	2.284	1.986
128	1.887	1.887	1.887	2.185	2.185	2.384	2.086	2.284	2.384	1.788
129	1.887	1.788	1.986	2.086	2.086	2.086	1.688	2.284	2.483	2.185
130	1.788	1.887	1.986	1.688	1.688	2.781	2.086	2.384	2.384	2.284
131	1.887	2.185	2.086	2.682	2.483	2.582	2.284	2.582	2.086	1.688
132	1.986	2.582	2.284	2.284	2.682	2.483	2.384	2.284	2.384	1.986
133	2.086	2.682	2.582	2.483	2.781	2.384	2.185	3.079	2.185	1.887
134	2.185	2.781	2.682	2.781	2.980	2.284	2.284	2.483	1.688	2.284
135	2.384	2.880	2.582	2.980	2.582	2.284	2.185	2.980	1.887	2.185
136	2.483	2.880	2.880	2.980	2.880	2.284	3.377	2.980	2.284	2.781
137	2.682	2.980	3.079	3.377	2.682	1.986	3.278	2.483	2.185	2.483
138	2.880	2.880	3.178	2.880	3.079	2.185	3.178	2.682	2.682	2.483
139	3.079	2.781	3.178	3.278	2.980	2.284	3.178	2.781	2.781	2.384
140	3.178	2.880	3.178	3.079	2.980	3.278	2.781	2.483	3.178	2.483
141	3.178	2.980	3.178	3.377	3.278	2.781	2.582	2.880	3.377	2.980
142	3.178	2.781	3.377	3.278	2.980	3.079	3.079	2.880	3.377	3.079
143	3.079	2.781	3.377	3.178	2.980	3.178	2.682	2.880	2.880	3.278
144	3.079	2.880	3.476	3.178	2.880	3.774	3.178	2.880	3.178	3.576
145	3.178	2.980	3.377	3.079	2.582	3.874	2.980	2.980	2.880	3.774
146	3.079	3.278	3.278	3.576	2.880	3.576	3.178	3.278	2.781	3.377
147	3.079	3.278	3.377	3.278	3.476	3.874	3.178	3.377	2.880	2.980
148	3.079	3.576	3.377	3.079	3.774	3.675	3.079	3.774	3.178	3.278
149	3.178	3.774	3.476	3.079	3.476	3.874	2.880	3.377	3.079	3.178
150	3.278	3.874	3.576	3.377	3.675	3.576	3.079	3.675	2.781	3.079
151	3.377	3.874	3.576	3.278	3.774	3.774	3.377	3.377	3.476	3.874
152	3.476	3.874	3.476	3.576	4.072	3.377	3.377	3.476	3.377	3.476
153	3.774	3.973	3.675	4.171	3.973	3.675	3.278	2.880	3.476	3.576
154	4.072	4.171	3.973	4.072	4.171	3.576	3.774	3.278	4.072	3.774
155	4.370	4.072	4.271	4.469	3.874	3.675	4.370	3.675	4.271	4.171
156	4.469	4.171	4.271	4.171	4.370	3.973	4.469	3.874	4.569	4.668
157	4.569	4.171	4.469	3.874	4.370	4.469	4.370	3.874	4.668	4.072
158	4.569	4.072	4.370	4.271	4.370	5.165	4.469	4.271	4.668	4.271
159	4.569	4.171	4.469	4.370	4.469	4.966	5.065	4.469	4.767	4.569
160	4.569	4.469	4.966	4.271	4.767	5.562	4.569	4.469	4.370	4.171
161	4.668	4.668	5.165	4.767	4.271	5.065	4.668	4.966	4.370	4.370
162	4.668	5.065	5.264	4.767	4.668	4.668	5.065	5.065	4.370	4.171
163	4.867	5.264	5.165	4.469	5.165	5.165	4.569	5.264	4.966	4.569
164	5.165	5.661	5.065	4.867	5.761	5.264	4.867	5.363	4.569	5.264
165	5.463	5.761	5.264	4.966	5.959	6.059	5.463	5.264	4.767	5.562

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CANDELA TABULATION - (Cont.)

166	5.860	5.661	5.562	5.264	5.959	5.761	5.959	5.463	5.761	4.966
167	6.059	5.661	5.761	6.357	5.959	6.357	6.158	5.661	6.257	6.158
168	6.257	6.059	6.158	6.357	6.257	6.456	6.754	5.562	6.456	5.761
169	6.555	6.357	6.456	6.555	6.257	6.357	6.456	5.661	6.555	6.654
170	6.654	6.654	6.754	6.555	6.257	6.456	5.761	5.959	6.257	6.257
171	6.654	6.555	6.754	6.158	6.059	6.257	5.860	6.257	6.456	6.257
172	6.456	6.357	6.654	6.456	6.158	6.257	5.959	6.158	6.555	6.257
173	6.158	6.158	6.357	6.059	6.257	5.860	6.257	6.257	5.959	5.562
174	5.959	5.959	6.257	6.456	6.456	6.456	6.059	5.761	6.555	6.357
175	6.257	6.059	6.059	6.158	6.555	6.257	5.761	6.158	6.754	6.555
176	6.555	6.357	6.257	6.158	6.357	6.754	5.959	6.257	6.555	6.555
177	6.456	6.654	6.654	6.654	6.456	6.555	6.059	6.257	5.860	6.357
178	6.654	6.555	6.456	7.052	5.959	6.456	6.257	6.555	6.257	6.059
179	6.257	6.257	6.456	6.456	6.158	6.456	6.257	6.257	6.754	6.357
180	6.456	6.456	6.456	6.456	6.456	6.456	6.456	6.456	6.456	6.456

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	1904.379	1904.379	1904.379	1904.379	1904.379	1904.379	1904.379
1	1898.519	1913.417	1922.952	1913.814	1905.670	1902.293	1900.108
2	1894.943	1911.331	1911.728	1920.469	1913.417	1905.769	1900.803
3	1890.772	1907.557	1910.834	1912.424	1918.780	1908.550	1900.803
4	1884.117	1901.896	1920.866	1915.105	1923.746	1911.132	1899.711
5	1876.469	1894.943	1915.801	1916.794	1925.733	1911.132	1898.618
6	1870.014	1889.480	1911.430	1914.013	1909.941	1909.047	1895.936
7	1864.551	1884.713	1906.365	1908.649	1912.424	1905.968	1892.261
8	1858.393	1878.654	1901.498	1917.588	1917.092	1901.498	1888.090
9	1853.924	1872.795	1895.738	1908.649	1909.742	1895.241	1883.025
10	1850.149	1867.431	1890.176	1898.916	1899.810	1886.799	1875.874
11	1847.766	1861.770	1883.720	1889.480	1888.388	1877.264	1867.233
12	1844.091	1857.301	1876.171	1878.754	1876.271	1866.239	1857.598
13	1839.919	1852.533	1868.325	1868.524	1862.862	1854.520	1848.461
14	1833.463	1847.666	1858.294	1857.003	1849.951	1842.601	1838.330
15	1824.624	1841.211	1848.660	1845.879	1836.344	1828.696	1827.504
16	1813.599	1833.861	1839.522	1833.265	1821.545	1814.692	1815.288
17	1800.588	1824.525	1829.789	1821.744	1806.647	1799.396	1801.085
18	1786.485	1811.712	1820.055	1809.229	1792.047	1783.902	1786.783
19	1771.487	1796.615	1809.031	1798.006	1777.744	1768.706	1771.189
20	1755.497	1780.327	1796.913	1786.783	1764.038	1752.716	1755.894
21	1739.804	1763.542	1783.008	1774.268	1751.325	1737.619	1740.003
22	1723.913	1746.458	1768.408	1761.654	1738.314	1722.323	1724.211
23	1707.028	1730.070	1753.510	1748.246	1725.204	1706.432	1709.213
24	1690.143	1713.980	1737.122	1734.540	1712.093	1690.739	1691.931
25	1672.663	1699.082	1721.132	1719.145	1697.791	1674.550	1675.543
26	1655.878	1684.184	1705.836	1703.850	1683.092	1657.963	1657.268
27	1639.490	1669.087	1691.137	1687.859	1666.505	1640.582	1638.596
28	1622.804	1654.289	1676.437	1671.968	1649.521	1622.307	1618.632
29	1606.515	1639.093	1661.638	1655.778	1631.643	1603.834	1598.470
30	1589.929	1624.095	1646.144	1639.788	1613.468	1584.764	1577.216
31	1573.044	1608.899	1630.253	1621.910	1594.100	1564.900	1556.160
32	1555.564	1593.604	1614.362	1604.330	1574.733	1544.340	1535.402
33	1536.792	1577.116	1597.576	1586.949	1554.372	1523.384	1513.849
34	1516.829	1560.927	1581.188	1569.866	1534.011	1501.930	1493.289
35	1496.070	1542.652	1564.701	1551.988	1514.048	1479.881	1471.042
36	1474.518	1523.582	1548.015	1533.713	1492.495	1457.037	1448.893

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CANDELA TABULATION - (Cont.)

37	1451.972	1503.222	1530.833	1515.537	1471.538	1434.094	1426.347
38	1427.837	1481.768	1512.756	1496.070	1449.787	1410.555	1402.312
39	1403.503	1459.322	1491.800	1477.001	1427.638	1385.626	1377.084
40	1379.368	1436.875	1471.638	1456.243	1405.093	1361.491	1352.353
41	1355.531	1414.826	1449.986	1434.094	1382.845	1336.859	1325.636
42	1330.701	1391.982	1428.036	1412.144	1359.405	1311.930	1299.415
43	1306.566	1369.734	1406.483	1388.407	1336.263	1287.497	1272.598
44	1283.325	1348.082	1385.328	1365.166	1312.128	1261.375	1245.683
45	1260.084	1326.033	1364.868	1342.222	1287.099	1235.552	1218.270
46	1237.141	1305.374	1343.812	1320.074	1261.772	1209.530	1191.155
47	1214.297	1285.212	1323.649	1297.131	1236.247	1182.713	1163.445
48	1191.751	1264.553	1303.984	1274.883	1209.828	1155.301	1136.032
49	1167.716	1244.987	1284.020	1253.032	1183.806	1127.491	1108.222
50	1143.183	1224.924	1264.355	1231.380	1158.081	1099.879	1081.108
51	1119.048	1204.564	1245.583	1210.523	1131.861	1071.871	1053.000
52	1094.218	1183.408	1225.818	1189.467	1106.037	1043.167	1024.694
53	1068.991	1162.750	1207.047	1168.808	1080.810	1014.364	996.288
54	1042.770	1141.594	1186.487	1147.454	1055.086	985.164	967.783
55	1017.940	1119.247	1165.928	1126.597	1030.156	956.063	938.086
56	992.116	1097.396	1145.468	1105.243	1005.127	926.167	907.694
57	966.789	1074.950	1124.610	1083.889	980.893	896.967	875.712
58	941.761	1053.298	1102.958	1062.336	956.361	867.667	843.930
59	916.930	1030.355	1080.810	1040.088	931.729	837.970	812.246
60	892.100	1007.908	1058.562	1017.344	907.992	809.465	780.166
61	867.568	984.767	1034.924	995.096	883.757	780.066	749.277
62	842.738	960.930	1010.491	970.961	860.119	750.767	717.891
63	817.907	936.497	984.866	947.124	835.885	722.659	686.705
64	793.276	911.070	958.149	921.499	812.147	694.352	656.610
65	769.042	884.750	931.332	895.278	788.111	666.344	626.715
66	744.708	857.834	903.224	868.065	764.374	638.931	596.819
67	719.580	830.422	873.825	840.652	740.239	612.115	568.115
68	695.147	801.917	844.525	811.750	715.210	584.702	539.809
69	669.919	771.823	814.431	782.947	690.379	558.581	511.105
70	643.500	741.430	784.039	753.150	664.357	531.963	482.898
71	617.279	711.138	752.455	722.559	636.548	506.537	455.386
72	589.767	680.249	721.368	691.472	608.638	480.614	427.874
73	561.461	649.261	692.068	660.683	579.736	454.790	399.667
74	532.559	620.656	663.166	631.581	549.542	430.258	372.652
75	503.458	593.244	630.986	603.672	519.150	405.924	344.941
76	475.052	562.256	596.422	571.790	489.255	381.094	317.827
77	446.249	528.288	559.673	538.021	459.359	356.860	291.110
78	419.730	493.029	521.037	501.272	431.847	333.122	265.783
79	391.920	455.088	478.429	463.233	403.441	307.497	240.357
80	360.634	413.671	432.642	420.922	371.957	281.575	216.520
81	326.766	368.977	383.577	375.830	337.989	254.361	191.987
82	289.719	320.906	331.334	327.362	301.737	227.346	169.739
83	249.991	269.855	276.807	275.814	262.505	200.231	146.796
84	206.587	216.122	219.598	221.684	219.400	176.493	124.052
85	161.496	161.297	162.290	167.952	173.514	148.783	101.407
86	112.729	106.472	105.280	112.431	125.144	118.192	79.457
87	64.658	55.123	51.746	59.990	75.980	85.515	58.003
88	22.049	12.415	10.528	16.289	31.087	49.760	37.245
89	5.860	5.363	5.264	6.357	7.648	16.289	18.474
90	2.980	3.675	3.675	4.171	4.370	3.576	4.867
91	3.476	3.576	3.576	3.774	3.476	2.781	2.483
92	3.774	3.476	3.973	3.476	3.377	2.980	1.986

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

93	3.178	2.880	3.675	3.377	3.377	2.781	2.284
94	3.079	3.178	2.682	3.476	2.781	2.582	1.788
95	3.079	2.682	2.483	3.178	3.079	1.688	1.986
96	2.980	2.582	2.185	2.980	2.682	2.284	2.284
97	2.384	2.086	2.781	2.980	2.185	2.483	1.887
98	2.384	2.483	2.483	2.781	2.284	1.887	1.788
99	2.086	2.284	2.483	2.086	1.986	1.688	1.986
100	2.086	2.284	2.483	2.185	1.688	1.490	1.788
101	1.490	2.185	2.086	1.986	1.887	1.093	1.788
102	1.887	1.688	2.086	1.887	1.390	1.986	1.688
103	1.788	2.185	2.384	2.284	1.390	1.589	1.589
104	1.291	2.384	1.589	1.688	1.192	0.993	2.185
105	1.192	2.284	1.788	1.887	1.291	1.490	1.589
106	1.291	2.284	1.688	1.490	1.688	1.589	1.788
107	2.284	1.688	1.788	1.291	1.291	1.093	1.788
108	1.490	1.688	1.986	1.390	1.093	1.390	1.093
109	2.284	2.185	1.788	1.490	1.192	1.192	1.093
110	1.986	1.291	1.887	1.291	1.490	1.093	0.795
111	2.185	1.490	2.284	1.986	1.192	1.093	1.192
112	1.986	1.192	2.086	2.185	2.185	1.291	1.291
113	1.688	1.291	1.887	2.185	2.086	1.390	0.993
114	1.788	1.093	1.788	1.788	1.887	1.589	1.192
115	1.688	1.788	1.788	2.086	1.589	1.192	1.291
116	1.490	1.986	1.688	1.986	1.887	1.192	1.589
117	1.192	2.086	1.887	1.887	1.589	1.192	1.192
118	1.291	1.986	1.688	2.086	1.490	1.688	1.291
119	1.887	2.384	1.589	1.986	0.695	1.986	1.688
120	1.490	1.887	1.490	1.986	1.490	1.986	2.086
121	1.688	2.185	1.490	1.887	1.390	2.284	2.185
122	1.788	2.185	1.093	1.788	1.291	1.490	2.483
123	1.788	2.185	1.490	1.788	1.589	1.589	1.390
124	1.688	2.185	2.185	1.887	1.688	1.390	1.688
125	2.284	2.682	2.185	1.788	1.986	1.688	1.589
126	2.284	2.284	1.887	1.589	1.390	1.589	1.688
127	1.887	2.582	1.589	1.887	2.384	1.589	1.390
128	2.384	2.284	2.582	2.483	2.086	1.887	1.788
129	2.384	2.185	2.781	2.384	2.086	1.490	1.192
130	2.582	2.185	2.682	2.284	2.483	1.887	2.185
131	2.483	2.086	2.682	2.284	2.185	2.086	2.284
132	2.384	2.483	2.384	2.980	2.781	2.284	2.880
133	2.582	1.788	2.781	2.483	2.483	2.682	2.483
134	2.284	2.483	3.278	3.079	2.980	2.682	2.781
135	2.682	2.185	2.781	2.781	2.284	2.781	2.781
136	2.781	2.483	3.079	2.980	2.185	2.980	2.682
137	2.880	2.980	2.980	2.980	2.384	2.781	2.682
138	2.384	2.781	2.582	2.880	2.185	2.781	2.980
139	2.582	2.682	2.284	2.582	2.781	2.682	2.781
140	2.880	3.476	2.980	2.980	2.781	2.781	2.582
141	2.682	3.178	2.384	2.682	3.278	2.682	2.781
142	2.781	3.178	2.980	2.682	2.682	2.880	2.980
143	3.079	3.079	2.880	3.377	3.079	2.384	2.682
144	2.980	3.178	3.178	3.278	3.278	2.980	2.880
145	3.377	3.774	2.980	3.675	3.675	3.377	3.377
146	3.278	2.880	2.781	3.377	3.576	3.178	3.178
147	3.079	3.178	3.377	3.675	3.675	3.576	3.377
148	3.675	3.576	3.774	3.675	3.576	3.377	3.774

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

149	4.171	3.278	4.072	3.874	3.973	3.774	3.675
150	4.271	3.377	4.171	4.072	3.476	3.774	3.675
151	3.874	3.476	4.171	3.874	3.774	3.576	3.774
152	4.370	3.576	4.271	3.874	3.476	3.377	3.576
153	3.973	3.377	4.072	3.675	3.377	3.874	3.774
154	4.171	3.476	4.271	4.271	3.476	3.675	3.576
155	3.874	4.072	4.668	3.973	3.576	3.675	3.774
156	4.370	4.072	4.072	4.072	3.973	3.874	3.874
157	4.072	3.973	4.171	3.874	4.469	4.569	4.569
158	4.469	4.271	4.072	3.774	4.668	3.973	4.171
159	4.569	4.171	4.668	4.469	4.668	4.469	4.569
160	4.072	4.966	4.072	4.867	5.264	4.469	4.171
161	4.271	5.065	4.569	4.966	4.767	4.966	5.165
162	4.469	4.767	4.966	5.363	4.668	5.363	4.966
163	5.264	5.165	5.562	5.264	4.867	5.065	5.065
164	5.363	4.966	5.661	5.463	5.264	5.065	5.860
165	5.761	5.065	5.761	5.562	5.065	5.661	5.860
166	6.357	5.463	6.059	6.059	5.165	5.761	5.959
167	6.059	5.562	6.257	6.158	6.456	5.562	5.761
168	6.059	6.456	6.555	5.860	6.059	5.860	5.959
169	6.257	6.158	6.059	6.158	6.952	5.959	6.257
170	6.257	6.754	6.357	5.959	6.357	7.052	5.860
171	6.555	6.555	6.555	5.959	6.257	6.654	6.257
172	6.555	6.555	6.357	6.456	6.158	6.456	5.860
173	6.357	6.456	6.158	6.654	6.257	6.158	6.059
174	5.959	6.357	6.555	6.456	5.562	6.257	6.654
175	6.357	5.463	6.456	6.357	6.456	6.059	6.059
176	5.860	6.158	6.059	6.059	6.555	5.860	6.357
177	6.158	6.456	5.860	6.158	6.357	6.257	6.357
178	7.151	6.158	5.761	6.952	6.059	6.555	6.456
179	6.555	6.654	6.654	6.853	6.555	6.456	6.754
180	6.456	6.456	6.456	6.456	6.456	6.456	6.456

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	698.32	N.A.	11.90
0-30	1479.22	N.A.	25.30
0-40	2426.64	N.A.	41.50
0-60	4355.39	N.A.	74.50
0-80	5665.04	N.A.	96.80
0-90	5833.66	N.A.	99.70
10-90	5652.77	N.A.	96.60
20-40	1728.32	N.A.	29.50
20-50	2722.44	N.A.	46.50
40-70	2705.9	N.A.	46.30
60-80	1309.65	N.A.	22.40
70-80	532.49	N.A.	9.10
80-90	168.62	N.A.	2.90
90-110	4.66	N.A.	0.10
90-120	6.25	N.A.	0.10
90-130	7.95	N.A.	0.10
90-150	11.97	N.A.	0.20
90-180	15.95	N.A.	0.30
110-180	11.30	N.A.	0.20
0-180	5849.61	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	180.89
10-20	517.43
20-30	780.90
30-40	947.42
40-50	994.12
50-60	934.62
60-70	777.16
70-80	532.49
80-90	168.62
90-100	2.85
100-110	1.80
110-120	1.59
120-130	1.70
130-140	2.00
140-150	2.02
150-160	1.85
160-170	1.53
170-180	0.60

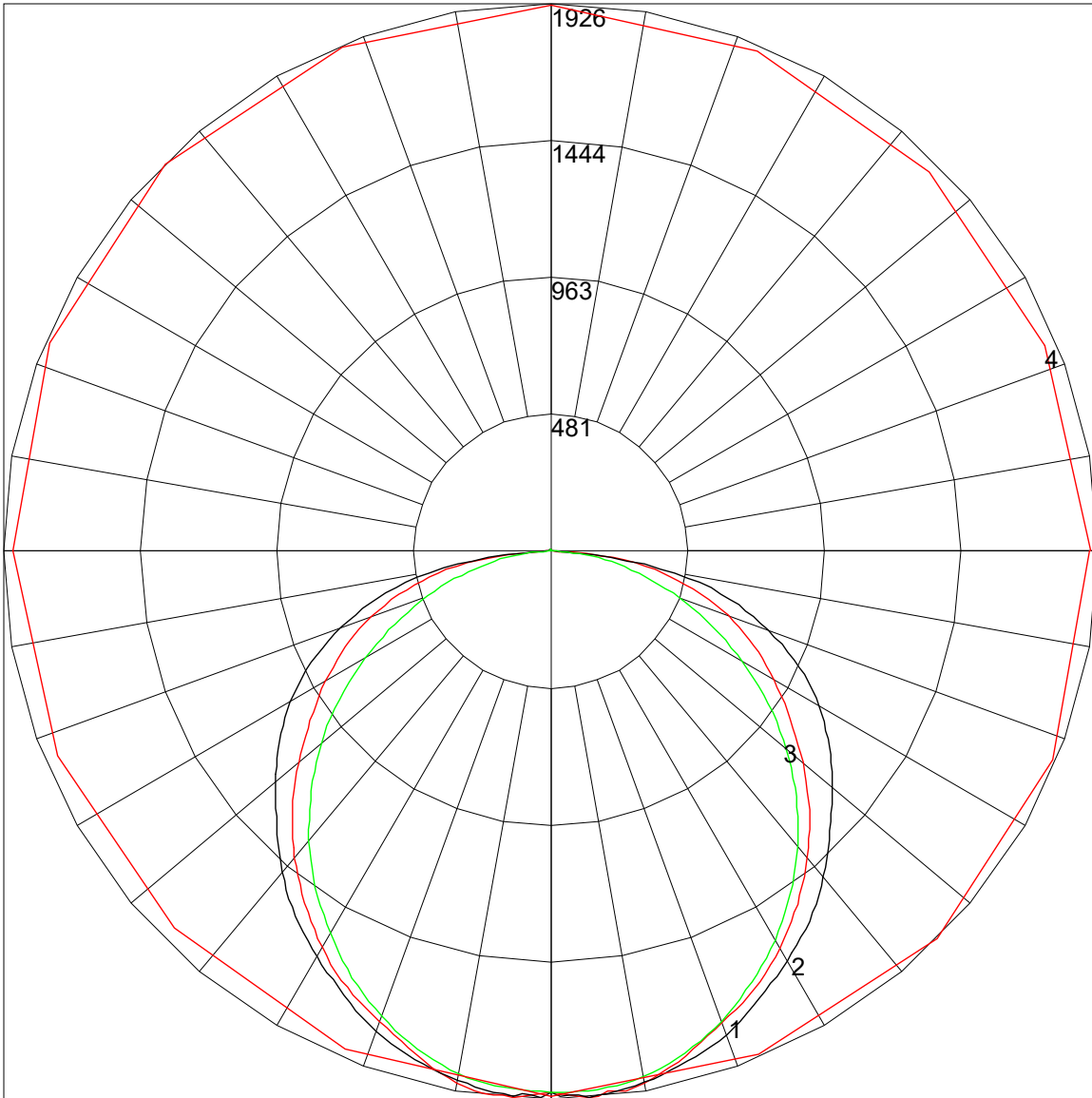
IES INDOOR REPORT
PHOTOMETRIC FILENAME : R1LA24H-50-45W.IES

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	73	80	75	71	77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	25	36	29	24	35	29	24	22

POLAR GRAPH



Maximum Candela = 1925.733 Located At Horizontal Angle = 315, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (315 - 135) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Vertical Plane Through Horizontal Angles (0 - 180)
4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)