

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-22-L50-935-DMA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GENERATED FROM 15746385.02
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2025-05-02
[TEST DATE] 3/20/2025
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] FRM-22-L50-935-DMA-DIM-UNV
[LUMINAIRE] Recessed 2 x 2 narrow aperture LED luminaire
[MORE] with center frame driver housing
[LAMP] LED
[_SEARCH_SOURCE TYPE] LED
[_SEARCH_APPLICATION] INDOOR
[_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4189
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	53.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.98
Spacing Criterion (90-270)	1.00
Spacing Criterion (Diagonal)	1.06
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.90 ft
Luminous Width (90-270)	1.90 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4106	3559	4184
55	3617	3088	3673
65	3120	2640	3153
75	2545	2200	2610
85	1780	1345	1780

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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>
0.0	2248.848	2248.848	2248.848	2248.848	2248.848
0.5	2240.259	2249.922	2253.680	2249.385	2240.259
1.0	2238.648	2248.848	2252.069	2248.848	2238.648
1.5	2237.038	2246.701	2250.459	2246.701	2237.038
2.0	2234.353	2244.017	2247.775	2243.480	2233.817
2.5	2230.596	2240.796	2244.017	2240.259	2230.596
3.0	2226.838	2236.501	2239.722	2235.964	2226.838
3.5	2222.006	2231.132	2234.353	2231.132	2221.469
4.0	2216.101	2225.227	2228.448	2225.764	2216.638
4.5	2209.659	2218.785	2222.006	2219.322	2210.732
5.0	2202.143	2211.269	2215.027	2212.343	2203.753
5.5	2194.090	2203.216	2206.974	2205.364	2196.774
6.0	2186.037	2194.090	2198.385	2197.311	2189.258
6.5	2176.374	2184.964	2189.258	2188.185	2180.669
7.0	2166.174	2174.764	2179.058	2178.521	2171.542
7.5	2155.437	2164.027	2168.321	2168.858	2161.879
8.0	2144.700	2152.216	2157.048	2158.658	2152.216
8.5	2132.890	2140.405	2145.774	2147.384	2140.942
9.0	2120.542	2127.521	2133.426	2135.574	2130.205
9.5	2108.195	2115.174	2120.542	2123.763	2118.395
10.0	2095.310	2101.752	2107.121	2110.879	2106.047
10.5	2081.889	2087.794	2094.237	2097.995	2094.237
11.0	2067.931	2073.836	2079.742	2084.573	2082.426
11.5	2053.436	2058.805	2065.247	2070.079	2069.005
12.0	2038.941	2043.773	2049.678	2056.121	2055.584
12.5	2024.447	2028.205	2034.110	2041.626	2041.626
13.0	2008.341	2012.636	2018.541	2026.594	2027.668
13.5	1993.846	1996.531	2002.436	2011.562	2013.710
14.0	1978.278	1980.425	1985.794	1996.531	1999.215
14.5	1961.636	1963.783	1968.615	1980.425	1984.183
15.0	1944.993	1947.141	1950.899	1964.320	1969.151
15.5	1928.888	1929.962	1933.183	1948.215	1953.583
16.0	1912.246	1912.246	1914.930	1931.572	1938.014
16.5	1895.067	1895.067	1897.214	1914.393	1921.909
17.0	1877.888	1876.814	1877.888	1896.677	1905.267
17.5	1860.709	1858.561	1859.098	1879.498	1889.698
18.0	1842.993	1840.308	1839.772	1861.245	1873.056
18.5	1825.277	1821.519	1820.445	1842.993	1855.877
19.0	1807.561	1802.192	1800.582	1824.740	1838.698
19.5	1789.845	1783.403	1780.719	1805.950	1820.982
20.0	1772.129	1764.076	1760.855	1786.624	1803.803
20.5	1753.339	1744.213	1740.455	1767.834	1786.087
21.0	1735.087	1724.887	1719.518	1748.508	1768.908
21.5	1716.297	1705.560	1698.581	1729.181	1750.655
22.0	1698.044	1686.234	1678.181	1709.318	1731.866
22.5	1680.328	1666.370	1657.244	1689.992	1714.150
23.0	1661.539	1646.507	1636.844	1670.128	1695.897
23.5	1643.823	1627.181	1615.907	1650.802	1677.644
24.0	1626.644	1607.854	1595.507	1631.475	1659.391
24.5	1608.391	1587.991	1574.570	1611.612	1641.675
25.0	1590.675	1568.664	1553.633	1591.749	1623.959
25.5	1572.959	1549.338	1532.696	1571.885	1606.244
26.0	1555.243	1530.548	1512.295	1553.096	1589.601
26.5	1538.064	1511.759	1491.895	1533.769	1571.349

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27.0	1520.885	1492.969	1471.495	1514.980	1554.706
27.5	1503.706	1474.179	1451.095	1496.190	1537.527
28.0	1487.601	1455.927	1430.695	1477.400	1520.348
28.5	1470.421	1437.674	1410.832	1458.611	1503.706
29.0	1454.316	1419.421	1390.968	1439.821	1487.064
29.5	1437.674	1401.705	1370.568	1421.032	1469.885
30.0	1421.032	1383.452	1350.705	1402.779	1453.242
30.5	1404.926	1365.736	1330.841	1384.526	1436.600
31.0	1388.821	1348.021	1310.978	1366.273	1420.495
31.5	1372.715	1330.305	1291.652	1348.021	1403.853
32.0	1356.073	1313.126	1272.325	1330.305	1387.747
32.5	1339.968	1295.946	1253.536	1312.052	1371.642
33.0	1324.399	1278.231	1234.209	1293.799	1355.000
33.5	1308.294	1261.588	1215.420	1276.083	1338.894
34.0	1292.725	1243.872	1196.630	1258.367	1322.252
34.5	1277.157	1227.230	1178.377	1240.114	1306.683
35.0	1262.125	1210.051	1160.124	1222.399	1290.578
35.5	1246.557	1193.409	1141.872	1205.219	1273.936
36.0	1231.525	1176.767	1124.156	1188.040	1258.367
36.5	1216.493	1160.124	1106.440	1170.861	1242.799
37.0	1201.462	1144.019	1088.724	1153.682	1226.693
37.5	1186.430	1127.914	1071.545	1136.503	1210.588
38.0	1171.935	1112.345	1054.903	1120.398	1195.019
38.5	1157.440	1096.777	1038.260	1103.756	1179.451
39.0	1142.409	1080.671	1021.618	1087.650	1164.419
39.5	1128.451	1065.103	1005.513	1071.545	1149.388
40.0	1113.956	1050.071	989.407	1055.439	1134.356
40.5	1098.924	1035.039	973.839	1039.334	1119.324
41.0	1084.429	1020.008	958.270	1023.766	1104.292
41.5	1070.471	1004.976	943.239	1008.734	1089.798
42.0	1055.976	991.018	927.670	993.165	1075.303
42.5	1041.481	975.986	912.638	978.670	1060.808
43.0	1026.987	962.028	898.144	963.639	1046.313
43.5	1013.029	947.533	883.649	949.144	1031.818
44.0	999.071	933.575	869.154	934.649	1017.323
44.5	985.113	919.617	855.196	919.617	1002.829
45.0	970.618	905.659	841.238	905.123	988.871
45.5	956.660	891.165	827.280	891.165	974.376
46.0	942.702	877.743	813.322	876.670	959.881
46.5	928.207	863.785	799.901	862.175	945.923
47.0	914.249	849.827	786.480	847.680	930.891
47.5	899.754	835.869	773.058	833.722	916.933
48.0	885.796	821.911	760.174	819.764	902.438
48.5	872.375	808.490	747.290	805.806	887.943
49.0	858.417	794.532	734.405	791.848	873.985
49.5	844.459	781.111	722.058	777.890	858.954
50.0	830.501	767.153	709.174	763.932	844.996
50.5	816.543	753.732	696.826	749.974	830.501
51.0	802.585	740.311	685.016	736.553	816.543
51.5	788.627	726.353	673.205	723.132	802.048
52.0	775.206	713.468	661.394	709.711	788.090
52.5	761.248	700.047	649.584	696.289	774.132
53.0	747.827	687.163	637.773	682.868	759.637
53.5	733.869	673.742	625.963	669.984	745.679
54.0	719.911	661.394	614.689	657.100	731.721
54.5	707.026	648.510	603.415	644.215	717.763

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55.0	693.605	635.626	592.141	631.331	704.342
55.5	680.184	623.278	581.404	618.984	691.458
56.0	666.763	610.931	570.131	606.636	678.037
56.5	653.342	598.583	558.857	593.752	664.079
57.0	640.457	586.773	548.120	581.404	651.194
57.5	627.036	574.425	536.846	569.594	637.773
58.0	614.152	562.078	525.948	557.783	624.352
58.5	601.268	550.267	515.211	545.436	610.931
59.0	587.846	538.457	504.421	533.732	597.510
59.5	574.962	526.324	493.630	521.600	584.625
60.0	562.078	514.245	482.625	509.467	571.204
60.5	549.730	502.112	471.834	497.495	558.320
61.0	537.920	490.087	461.204	485.577	545.436
61.5	525.411	478.276	450.307	473.606	532.820
62.0	513.493	466.895	439.462	461.956	520.365
62.5	501.468	455.675	428.457	450.199	508.232
63.0	489.443	444.616	417.129	438.872	495.616
63.5	477.256	433.288	405.748	427.974	483.108
64.0	465.016	422.068	394.743	416.539	470.546
64.5	452.991	411.009	383.899	405.426	457.930
65.0	440.751	399.950	373.001	394.689	445.475
65.5	428.081	389.052	362.371	383.899	433.396
66.0	415.948	378.208	351.581	373.591	421.263
66.5	403.601	367.417	340.790	363.176	408.647
67.0	392.059	356.734	330.321	352.815	397.105
67.5	380.463	346.158	320.068	342.830	385.402
68.0	368.921	335.851	310.404	332.845	373.967
68.5	357.325	325.651	301.224	322.698	362.586
69.0	346.051	315.504	292.474	312.874	351.688
69.5	335.260	305.573	283.831	303.211	340.897
70.0	324.148	295.749	275.187	293.762	329.785
70.5	313.357	285.817	266.598	284.367	318.887
71.0	302.566	275.993	257.955	275.187	308.311
71.5	291.830	266.383	249.258	265.900	297.896
72.0	281.200	256.935	240.722	256.720	287.213
72.5	270.785	247.486	232.240	247.701	276.744
73.0	260.370	238.199	223.865	238.735	266.329
73.5	250.170	228.857	215.490	229.663	256.129
74.0	240.078	219.677	207.169	220.590	246.251
74.5	230.039	210.390	198.740	211.571	235.944
75.0	220.161	201.210	190.312	202.659	225.851
75.5	210.229	192.030	182.098	193.748	215.705
76.0	200.458	182.796	173.777	184.729	205.666
76.5	190.902	173.670	165.563	175.602	195.627
77.0	181.239	164.651	157.296	166.422	185.695
77.5	171.630	155.578	149.243	157.672	175.763
78.0	162.128	146.935	141.298	149.136	166.046
78.5	152.679	138.506	133.299	140.600	156.544
79.0	143.284	130.024	125.407	132.440	146.774
79.5	134.104	121.542	117.569	124.226	137.379
80.0	125.031	113.328	109.678	116.012	128.038
80.5	116.120	105.329	102.001	107.906	118.858
81.0	107.530	97.384	94.378	99.907	110.000
81.5	99.370	89.600	87.023	92.069	101.357
82.0	91.264	82.030	79.561	84.392	93.035
82.5	83.802	74.836	72.152	76.984	85.090

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CANDELA TABULATION - (Cont.)

83.0	76.715	68.179	64.636	69.844	77.574
83.5	70.219	62.059	57.389	63.079	70.434
84.0	63.938	56.423	50.571	56.852	63.885
84.5	57.818	51.108	44.343	51.054	57.765
85.0	51.859	46.115	39.190	45.686	51.859
85.5	45.847	41.015	35.002	40.371	46.169
86.0	40.263	36.022	31.459	35.324	40.532
86.5	34.895	31.191	28.184	30.547	35.486
87.0	30.171	26.574	25.071	26.198	30.922
87.5	25.661	22.440	21.957	22.548	26.842
88.0	21.528	18.897	18.682	19.434	23.031
88.5	17.447	15.569	14.924	16.159	19.219
89.0	12.240	11.220	9.932	11.113	14.387
89.5	4.832	5.315	4.671	4.939	6.711
90.0	0.000	0.000	0.000	0.000	0.000
90.5	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000

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111.0	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FRM-22-L50-935-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

139.0	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FRM-22-L50-935-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FRM-22-L50-935-DMA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	755.26	N.A.	18.00
0-30	1481.94	N.A.	35.40
0-40	2243.65	N.A.	53.60
0-60	3517.52	N.A.	84.00
0-80	4133.67	N.A.	98.70
0-90	4189.04	N.A.	100.00
10-90	3981.43	N.A.	95.00
20-40	1488.39	N.A.	35.50
20-50	2189.32	N.A.	52.30
40-70	1673.8	N.A.	40.00
60-80	616.14	N.A.	14.70
70-80	216.21	N.A.	5.20
80-90	55.38	N.A.	1.30
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	4189.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	207.61
10-20	547.65
20-30	726.67
30-40	761.72
40-50	700.93
50-60	572.94
60-70	399.93
70-80	216.21
80-90	55.38
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
PHOTOMETRIC FILENAME : FRM-22-L50-935-DMA-DIM-UNV_.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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	78	73	68	76	71	66	73	69	65	63
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	57	44	37	32	55	44	36	31	43	36	31	42	36	31	41	35	31	29

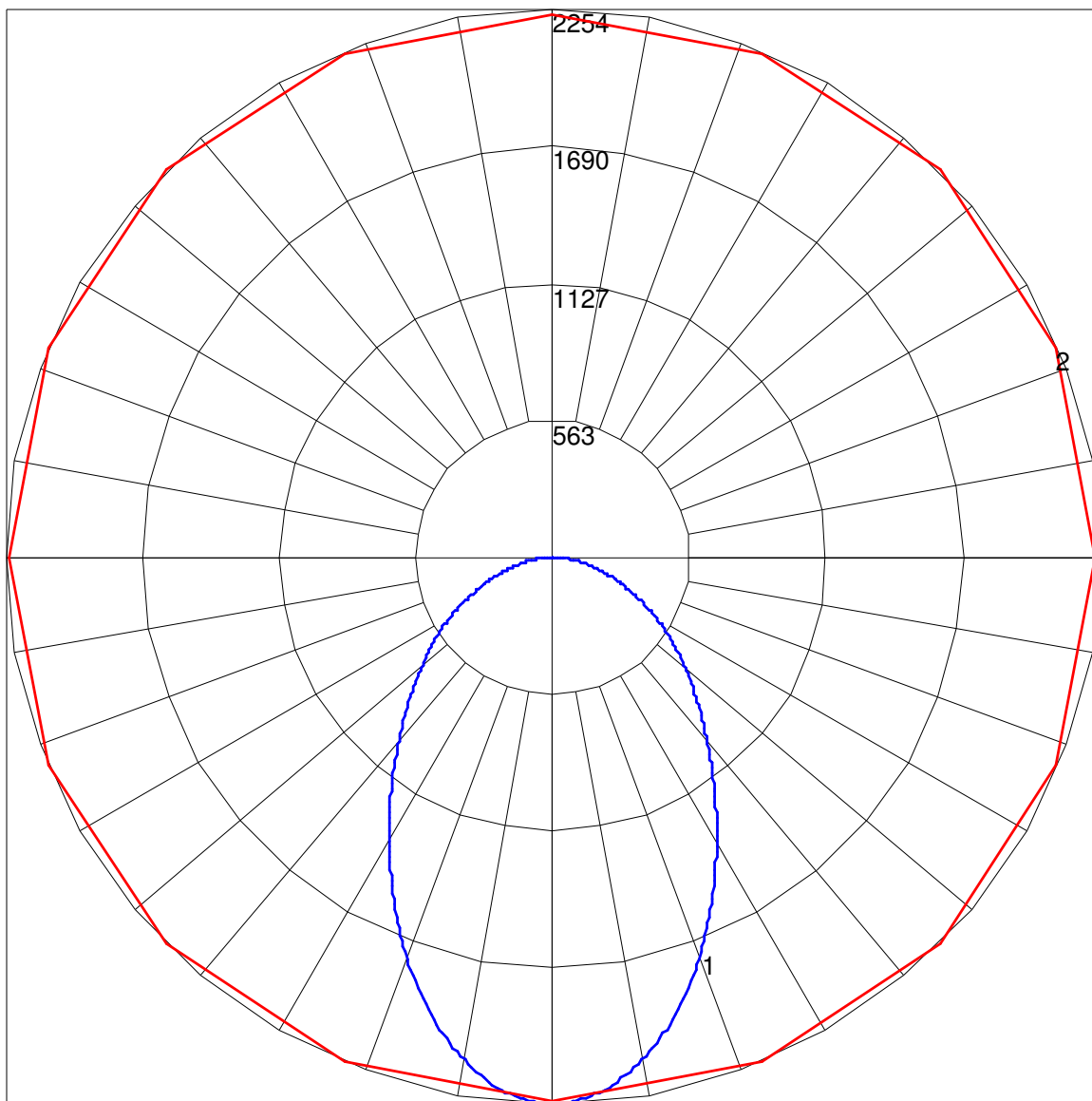
IES INDOOR REPORT
PHOTOMETRIC FILENAME : FRM-22-L50-935-DMA-DIM-UNV_.IES

UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.8	17.3	16.2	17.7	18.0	15.8	17.3	16.1	17.6	17.9
	3H	17.4	18.8	17.8	19.2	19.5	17.4	18.8	17.8	19.1	19.5
	4H	18.0	19.3	18.4	19.7	20.1	18.1	19.4	18.5	19.7	20.1
	6H	18.5	19.7	18.9	20.0	20.4	18.5	19.7	18.9	20.1	20.4
	8H	18.6	19.7	19.0	20.1	20.5	18.6	19.8	19.1	20.1	20.5
	12H	18.6	19.7	19.1	20.1	20.5	18.7	19.8	19.1	20.2	20.6
4H	2H	16.2	17.5	16.6	17.9	18.3	16.2	17.5	16.6	17.9	18.2
	3H	18.1	19.2	18.5	19.6	20.0	18.1	19.2	18.5	19.6	20.0
	4H	18.8	19.8	19.2	20.2	20.6	18.8	19.8	19.2	20.2	20.6
	6H	19.3	20.2	19.8	20.6	21.1	19.4	20.2	19.8	20.7	21.1
	8H	19.5	20.3	20.0	20.7	21.2	19.5	20.3	20.0	20.8	21.2
	12H	19.6	20.3	20.1	20.8	21.3	19.6	20.4	20.1	20.8	21.3
8H	4H	19.0	19.8	19.5	20.3	20.7	19.0	19.8	19.5	20.3	20.7
	6H	19.6	20.3	20.1	20.8	21.3	19.7	20.3	20.2	20.8	21.3
	8H	19.8	20.4	20.4	20.9	21.4	19.9	20.5	20.4	21.0	21.5
	12H	20.0	20.5	20.5	21.0	21.6	20.1	20.6	20.6	21.1	21.6
12H	4H	19.0	19.7	19.5	20.2	20.7	19.0	19.8	19.5	20.2	20.7
	6H	19.7	20.3	20.2	20.7	21.3	19.7	20.3	20.2	20.8	21.3
	8H	19.9	20.4	20.4	20.9	21.5	20.0	20.5	20.5	21.0	21.5

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 2253.68 Located At Horizontal Angle = 45, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)