

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-24-L50-935-DMA-DIM-UNV_.IES_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GENERATED FROM 15746385.01
[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-24-L50-935-DMA-DIM-UNV_
[LUMINAIRE] Recessed 2 x 4 narrow aperture LED luminaire
[MORE] with center frame driver housing
[LAMP] LED
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] INDOOR
[_SEARCH_MOUNTING] RECESSED
[FILEGENINFO] 1.10000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4169
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	52.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	0.94
Spacing Criterion (Diagonal)	1.06
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.88 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	2226	1718	1827
55	1975	1488	1607
65	1706	1276	1382
75	1378	1059	1151
85	1015	760	896

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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	2233.848	2233.848	2233.848	2233.848	2233.848
0.5	2207.879	2231.728	2239.148	2237.558	2242.857
1.0	2206.819	2230.668	2238.088	2236.498	2241.268
1.5	2205.759	2229.078	2236.498	2233.848	2239.148
2.0	2203.639	2226.958	2233.848	2230.668	2235.438
2.5	2200.989	2223.778	2230.138	2226.428	2231.198
3.0	2198.340	2220.598	2225.898	2221.658	2226.428
3.5	2194.100	2216.359	2221.128	2215.829	2220.598
4.0	2189.860	2211.589	2215.299	2209.469	2213.709
4.5	2185.090	2206.289	2208.939	2202.049	2205.759
5.0	2179.790	2200.459	2202.049	2194.100	2197.810
5.5	2173.961	2193.570	2194.100	2185.090	2188.800
6.0	2167.601	2186.150	2185.090	2176.081	2178.200
6.5	2160.181	2179.260	2175.551	2165.481	2168.131
7.0	2152.762	2171.311	2166.011	2154.881	2156.471
7.5	2145.342	2162.301	2155.411	2143.752	2144.282
8.0	2136.862	2152.762	2144.812	2131.563	2132.093
8.5	2127.853	2143.222	2132.623	2118.313	2118.843
9.0	2118.843	2133.152	2120.963	2105.064	2105.064
9.5	2109.834	2122.553	2108.774	2091.814	2091.284
10.0	2099.764	2111.423	2095.524	2077.505	2076.445
10.5	2089.694	2100.294	2082.275	2062.666	2060.546
11.0	2079.095	2088.105	2067.965	2047.296	2045.177
11.5	2068.495	2075.915	2053.656	2031.397	2029.277
12.0	2057.366	2063.196	2038.817	2014.968	2012.848
12.5	2045.706	2049.946	2023.447	1998.009	1996.419
13.0	2034.047	2036.697	2008.078	1981.049	1979.460
13.5	2021.858	2022.918	1992.179	1964.090	1963.030
14.0	2009.668	2008.608	1975.750	1946.071	1945.011
14.5	1996.949	1994.829	1958.790	1928.052	1926.462
15.0	1984.229	1980.519	1941.831	1908.973	1908.443
15.5	1971.510	1965.150	1924.342	1890.424	1889.894
16.0	1958.260	1950.311	1906.853	1871.874	1870.814
16.5	1945.011	1934.942	1888.304	1852.265	1851.735
17.0	1931.762	1919.042	1869.755	1833.186	1832.126
17.5	1917.982	1902.613	1851.205	1813.577	1812.517
18.0	1903.673	1886.184	1832.126	1793.438	1792.378
18.5	1888.834	1869.755	1812.517	1773.299	1772.239
19.0	1874.524	1853.325	1793.438	1753.160	1752.100
19.5	1859.685	1836.366	1773.829	1733.021	1732.491
20.0	1844.846	1819.407	1753.690	1711.822	1711.822
20.5	1830.006	1801.918	1733.551	1691.683	1691.683
21.0	1814.637	1784.428	1712.882	1670.484	1671.544
21.5	1798.738	1766.939	1692.213	1649.815	1650.875
22.0	1782.838	1749.450	1671.544	1629.146	1630.735
22.5	1767.469	1731.961	1650.875	1607.946	1610.066
23.0	1752.100	1713.942	1630.205	1587.277	1589.927
23.5	1736.731	1695.392	1609.006	1566.078	1569.788
24.0	1721.361	1677.903	1588.337	1544.879	1549.649
24.5	1705.462	1659.354	1567.668	1524.740	1530.040
25.0	1689.563	1641.335	1546.999	1504.071	1510.431
25.5	1674.193	1623.316	1525.800	1483.932	1490.822
26.0	1658.294	1605.297	1505.661	1463.263	1471.743
26.5	1642.925	1586.747	1484.462	1442.594	1452.664

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27.0	1627.026	1568.728	1463.793	1422.455	1434.114
27.5	1611.656	1550.709	1443.124	1402.846	1415.035
28.0	1596.287	1532.690	1422.985	1383.237	1396.486
28.5	1580.388	1514.671	1402.846	1363.628	1378.997
29.0	1564.488	1496.652	1382.707	1344.549	1360.448
29.5	1549.119	1479.162	1363.098	1325.469	1342.429
30.0	1533.750	1461.143	1342.959	1306.390	1325.469
30.5	1518.911	1443.124	1323.350	1287.841	1307.980
31.0	1504.071	1425.635	1303.210	1269.292	1291.021
31.5	1488.172	1408.146	1284.131	1251.273	1274.062
32.0	1472.803	1390.126	1264.522	1233.254	1257.103
32.5	1457.433	1372.637	1244.913	1215.234	1240.673
33.0	1441.534	1355.678	1225.834	1197.215	1224.244
33.5	1426.695	1338.189	1206.755	1179.726	1208.345
34.0	1410.796	1320.700	1187.676	1162.767	1192.445
34.5	1395.426	1303.740	1169.657	1145.278	1176.546
35.0	1380.057	1286.251	1151.107	1128.848	1161.177
35.5	1365.218	1268.762	1132.558	1111.889	1145.808
36.0	1349.848	1251.803	1114.009	1095.460	1130.438
36.5	1334.479	1234.844	1096.520	1079.031	1115.599
37.0	1319.110	1217.884	1079.031	1062.601	1100.760
37.5	1303.740	1201.455	1061.541	1046.702	1085.920
38.0	1288.901	1185.026	1044.582	1031.333	1071.081
38.5	1273.532	1168.067	1027.623	1015.964	1056.772
39.0	1257.633	1151.107	1010.664	1001.124	1042.462
39.5	1242.793	1135.208	994.235	985.755	1028.683
40.0	1227.424	1118.779	978.335	971.446	1014.904
40.5	1212.585	1102.880	962.436	956.606	1001.124
41.0	1196.685	1086.450	947.067	942.297	987.345
41.5	1181.846	1071.081	931.697	928.518	974.095
42.0	1166.477	1055.182	916.328	914.738	960.316
42.5	1151.637	1039.812	901.489	900.959	947.067
43.0	1136.268	1023.913	886.649	886.649	934.347
43.5	1120.899	1008.544	872.340	873.400	921.098
44.0	1105.529	993.175	858.031	860.151	908.378
44.5	1090.690	977.805	844.251	846.901	895.659
45.0	1075.321	962.966	829.942	833.652	882.410
45.5	1059.952	947.597	816.163	820.932	869.690
46.0	1045.112	932.227	802.913	807.683	856.971
46.5	1030.273	917.388	789.664	794.964	844.251
47.0	1015.434	902.549	776.415	782.244	831.002
47.5	1000.064	887.709	763.165	770.055	818.283
48.0	984.695	872.870	750.446	757.335	805.563
48.5	969.326	858.031	737.196	744.616	792.844
49.0	955.016	843.721	725.007	731.897	780.124
49.5	939.117	828.882	712.287	719.707	767.935
50.0	924.278	814.573	699.568	706.988	755.215
50.5	909.438	800.263	687.379	694.798	743.026
51.0	894.069	785.954	675.189	682.609	730.307
51.5	879.230	771.115	663.530	669.889	717.057
52.0	863.331	756.805	651.340	657.700	704.868
52.5	848.491	742.496	639.681	645.510	692.148
53.0	833.652	728.717	628.551	633.851	679.429
53.5	818.813	714.407	616.892	621.662	666.710
54.0	803.443	700.628	605.232	609.472	653.990
54.5	788.604	687.379	594.103	597.813	641.271

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55.0	773.765	673.599	582.973	586.153	629.611
55.5	758.925	659.820	571.844	574.494	617.422
56.0	744.086	646.570	560.714	562.834	604.702
56.5	729.777	633.321	549.585	551.705	592.513
57.0	715.467	620.072	538.985	540.045	580.323
57.5	700.628	606.822	528.333	528.598	568.134
58.0	686.319	594.103	517.521	517.362	556.475
58.5	672.009	580.853	506.975	505.968	544.815
59.0	657.700	568.134	496.216	494.785	532.626
59.5	643.921	555.415	485.670	483.762	520.648
60.0	629.611	542.695	475.017	472.738	509.148
60.5	615.832	529.976	464.365	461.821	497.912
61.0	602.052	517.468	453.924	450.797	486.412
61.5	587.743	505.120	443.060	439.986	475.176
62.0	574.494	492.824	432.566	429.174	464.206
62.5	560.714	480.794	421.861	418.522	452.970
63.0	546.935	468.711	411.261	408.028	441.629
63.5	534.216	456.998	400.715	397.641	431.029
64.0	520.436	445.074	389.850	387.253	420.112
64.5	506.657	433.308	379.198	377.025	409.406
65.0	492.506	421.861	368.492	367.114	398.913
65.5	479.045	410.148	357.999	357.363	388.419
66.0	465.690	398.436	347.664	347.505	377.025
66.5	452.705	387.041	337.436	338.072	366.531
67.0	439.721	375.488	327.366	328.744	356.197
67.5	426.472	364.199	317.402	319.363	346.021
68.0	412.692	353.070	307.810	310.142	335.740
68.5	399.231	342.311	298.535	300.920	325.935
69.0	386.458	331.341	289.367	291.752	315.813
69.5	374.004	320.688	280.357	282.742	305.796
70.0	361.390	310.301	271.454	273.891	295.885
70.5	349.201	299.807	262.656	265.200	286.346
71.0	336.694	289.473	254.017	256.508	276.700
71.5	324.769	279.297	245.485	247.923	267.320
72.0	312.633	269.281	236.952	239.390	257.992
72.5	300.814	259.158	228.420	230.963	248.718
73.0	288.996	249.195	220.099	222.484	239.602
73.5	277.495	239.284	211.725	214.110	230.433
74.0	266.154	229.427	203.405	205.684	221.318
74.5	254.759	219.675	195.190	197.416	212.361
75.0	243.577	209.976	187.187	189.148	203.458
75.5	232.394	200.384	179.185	181.093	194.448
76.0	221.424	190.844	171.023	172.931	185.757
76.5	210.612	181.305	163.127	164.875	176.906
77.0	200.066	171.659	155.336	156.873	168.214
77.5	189.519	162.385	147.439	149.135	159.576
78.0	179.079	153.534	139.596	141.345	151.043
78.5	168.744	144.630	131.964	133.713	142.563
79.0	158.728	135.992	124.332	126.134	134.296
79.5	149.135	127.512	116.807	118.556	126.081
80.0	139.596	119.404	109.281	110.977	117.920
80.5	130.268	111.348	101.808	103.504	110.394
81.0	121.152	103.451	94.442	96.403	103.133
81.5	112.302	95.926	87.128	89.778	96.456
82.0	103.822	88.559	80.079	83.418	89.884
82.5	95.714	81.510	73.084	77.482	83.365

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CANDELA TABULATION - (Cont.)

83.0	88.029	74.621	66.512	71.812	77.005
83.5	80.609	68.049	60.470	66.088	70.858
84.0	73.720	61.795	54.958	60.417	64.816
84.5	66.883	55.700	49.977	54.852	58.986
85.0	60.417	49.871	45.260	49.394	53.369
85.5	54.217	44.306	40.861	44.147	47.910
86.0	48.069	38.900	36.674	39.218	43.034
86.5	42.080	33.865	32.700	34.819	38.635
87.0	36.091	29.361	28.990	31.057	34.554
87.5	30.103	25.280	25.704	27.877	31.004
88.0	24.220	21.411	22.630	24.962	27.824
88.5	18.973	17.701	19.450	22.047	24.750
89.0	14.150	13.673	15.581	17.860	19.768
89.5	8.745	8.692	10.441	13.408	15.581
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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CANDELA TABULATION - (Cont.)

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-24-L50-935-DMA-DIM-UNV_.IES_.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-24-L50-935-DMA-DIM-UNV_.IES_.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-24-L50-935-DMA-DIM-UNV_.IES_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	751.03	N.A.	18.00
0-30	1474.03	N.A.	35.40
0-40	2230.66	N.A.	53.50
0-60	3496.45	N.A.	83.90
0-80	4109.15	N.A.	98.60
0-90	4168.51	N.A.	100.00
10-90	3962.2	N.A.	95.10
20-40	1479.63	N.A.	35.50
20-50	2175.81	N.A.	52.20
40-70	1663.67	N.A.	39.90
60-80	612.70	N.A.	14.70
70-80	214.82	N.A.	5.20
80-90	59.36	N.A.	1.40
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	4168.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	206.32
10-20	544.71
20-30	723.00
30-40	756.63
40-50	696.19
50-60	569.61
60-70	397.88
70-80	214.82
80-90	59.36
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-24-L50-935-DMA-DIM-UNV_.IES_.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	91	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	72	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	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	48	42	67	55	47	42	53	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-24-L50-935-DMA-DIM-UNV_.IES_.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

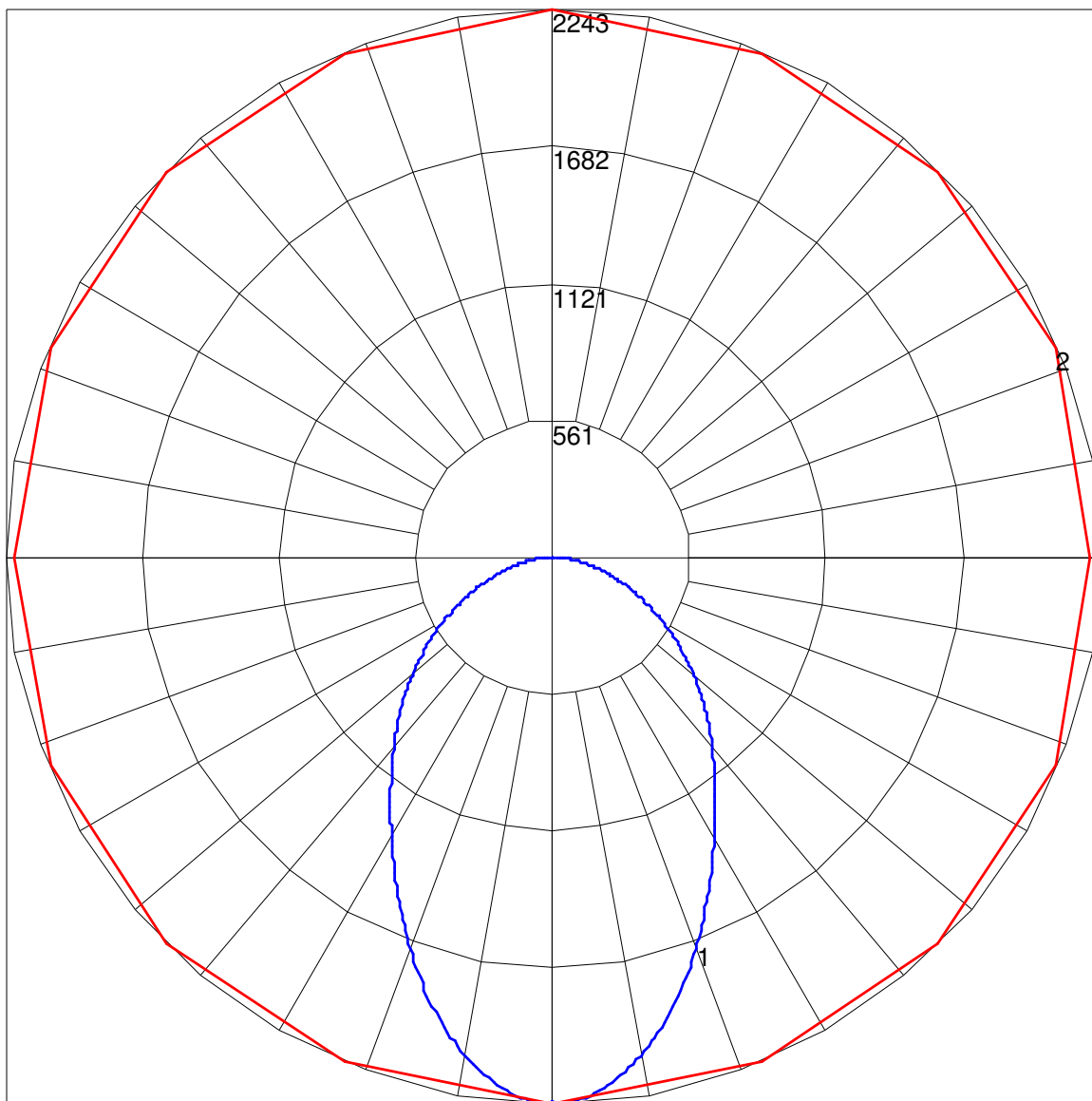
X=2H	Y=2H	13.8	15.4	14.2	15.7	16.0	12.8	14.3	13.1	14.6	14.9
	3H	15.5	16.9	15.9	17.2	17.6	14.4	15.8	14.8	16.1	16.5
	4H	16.1	17.4	16.5	17.8	18.1	15.0	16.3	15.4	16.7	17.0
	6H	16.5	17.7	17.0	18.1	18.5	15.4	16.6	15.9	17.0	17.4
	8H	16.7	17.8	17.1	18.2	18.6	15.6	16.7	16.0	17.1	17.5
	12H	16.8	17.8	17.2	18.2	18.7	15.7	16.8	16.1	17.2	17.6

UGR Viewed Endwise

4H	2H	14.2	15.5	14.6	15.8	16.2	13.3	14.6	13.7	14.9	15.3
	3H	16.1	17.1	16.5	17.5	17.9	15.1	16.2	15.5	16.6	17.0
	4H	16.8	17.8	17.2	18.2	18.6	15.8	16.8	16.3	17.2	17.7
	6H	17.3	18.2	17.8	18.6	19.1	16.4	17.3	16.9	17.7	18.2
	8H	17.5	18.3	18.0	18.7	19.2	16.6	17.4	17.0	17.8	18.3
	12H	17.6	18.3	18.1	18.8	19.3	16.7	17.4	17.2	17.9	18.4
8H	4H	17.0	17.7	17.4	18.2	18.7	16.1	16.9	16.6	17.3	17.8
	6H	17.6	18.2	18.1	18.7	19.2	16.8	17.4	17.3	17.9	18.4
	8H	17.8	18.4	18.3	18.9	19.4	17.0	17.6	17.5	18.1	18.6
	12H	18.0	18.5	18.5	19.0	19.6	17.2	17.7	17.7	18.2	18.8
12H	4H	17.0	17.7	17.4	18.1	18.6	16.1	16.8	16.6	17.3	17.8
	6H	17.6	18.2	18.1	18.7	19.2	16.8	17.4	17.3	17.9	18.4
	8H	17.9	18.4	18.4	18.9	19.5	17.1	17.6	17.6	18.1	18.7

Maximum UGR = 19.6

POLAR GRAPH



Maximum Candela = 2242.857 Located At Horizontal Angle = 90, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)