

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 2DS-L12-930-DIM-UNV-LW-OF-XX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13257153.14
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 04/03/2025
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 2DS-L12-930-DIM-UNV-LW-OF-xx
[LUMINAIRE] Aluminum housing, optics, and trim enclosure
[LAMP] One white LED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor, Downlight
[SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1020
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	14
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.84
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.21 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	24435	30078	24860
55	19769	21398	20100
65	17275	17537	17462
75	13584	13339	14073
85	8177	7087	8721

IES INDOOR REPORT
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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	1179.962	1179.962	1179.962	1179.962	1179.962
0.5	1204.173	1185.696	1175.502	1171.679	1171.042
1.0	1203.536	1185.696	1175.502	1171.679	1171.042
1.5	1202.899	1185.059	1175.502	1171.679	1170.405
2.0	1202.262	1184.422	1174.865	1171.042	1170.405
2.5	1200.987	1183.785	1173.591	1170.405	1169.131
3.0	1200.350	1181.874	1172.317	1169.131	1168.494
3.5	1198.439	1180.599	1170.405	1167.220	1166.582
4.0	1195.890	1178.688	1169.131	1165.945	1164.671
4.5	1193.342	1176.777	1166.582	1163.397	1162.760
5.0	1190.793	1173.591	1164.034	1160.848	1159.574
5.5	1187.608	1171.042	1161.485	1157.663	1157.663
6.0	1184.422	1167.857	1158.300	1154.477	1155.114
6.5	1180.599	1164.034	1154.477	1151.928	1152.566
7.0	1177.414	1160.211	1151.291	1148.743	1149.380
7.5	1173.591	1156.388	1148.106	1145.557	1146.831
8.0	1169.768	1152.566	1144.920	1142.372	1143.009
8.5	1165.945	1148.743	1141.097	1138.549	1139.186
9.0	1160.848	1144.283	1137.275	1134.726	1135.363
9.5	1157.026	1139.823	1132.815	1130.903	1130.903
10.0	1151.291	1134.726	1128.355	1126.443	1125.806
10.5	1146.194	1129.629	1123.258	1121.346	1120.709
11.0	1140.460	1123.895	1118.161	1116.249	1114.975
11.5	1133.452	1118.161	1112.427	1111.152	1109.878
12.0	1127.080	1111.789	1106.692	1104.781	1103.507
12.5	1120.072	1105.418	1100.321	1099.047	1097.135
13.0	1112.427	1098.410	1093.950	1092.676	1089.490
13.5	1104.781	1090.764	1086.941	1085.030	1082.481
14.0	1095.861	1081.844	1079.296	1077.384	1074.199
14.5	1086.941	1073.562	1071.013	1068.465	1064.642
15.0	1076.747	1064.005	1062.093	1059.545	1055.722
15.5	1066.553	1054.448	1052.536	1049.988	1045.528
16.0	1055.722	1043.617	1041.705	1039.157	1034.697
16.5	1043.617	1032.785	1030.874	1028.326	1022.591
17.0	1031.511	1020.680	1020.043	1016.857	1010.486
17.5	1018.769	1008.575	1007.937	1004.115	997.106
18.0	1004.752	995.195	995.832	991.372	982.452
18.5	989.461	981.178	982.452	977.355	967.161
19.0	973.532	966.524	969.073	962.701	950.596
19.5	955.693	951.233	955.056	946.773	932.756
20.0	937.216	934.668	939.765	930.845	913.642
20.5	917.465	917.465	923.836	913.005	893.254
21.0	895.166	898.988	907.271	893.891	871.592
21.5	872.229	878.600	890.069	874.140	848.655
22.0	848.018	857.575	872.229	853.115	824.444
22.5	821.896	835.913	853.115	831.453	799.596
23.0	795.136	812.339	834.001	808.516	773.474
23.5	767.103	788.128	813.613	784.942	746.078
24.0	737.795	762.643	793.225	760.094	718.681
24.5	708.487	737.158	771.563	734.609	690.010
25.0	678.542	709.761	749.263	707.850	661.339
25.5	647.960	682.365	725.689	680.453	631.968
26.0	616.422	653.694	702.116	652.420	602.469
26.5	584.438	625.214	677.268	624.386	572.396

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 2DS-L12-930-DIM-UNV-LW-OF-XX_.IES

CANDELA TABULATION - (Cont.)

27.0	552.390	596.098	652.420	596.161	542.579
27.5	520.725	566.790	626.935	567.490	514.418
28.0	490.589	537.609	601.003	538.947	484.727
28.5	459.625	508.683	574.626	511.487	455.738
29.0	430.699	480.459	548.313	484.154	428.533
29.5	401.136	452.552	521.872	457.012	400.881
30.0	372.720	425.347	495.877	430.572	374.313
30.5	345.642	398.397	470.774	404.832	348.700
31.0	320.093	372.274	444.907	379.474	324.235
31.5	295.755	347.235	419.804	355.072	301.362
32.0	273.392	323.534	395.211	331.880	279.636
32.5	252.813	301.171	371.382	309.899	259.566
33.0	233.380	280.018	348.509	289.129	241.026
33.5	215.604	260.203	326.337	269.505	223.568
34.0	199.740	241.727	305.439	251.284	207.768
34.5	184.895	224.524	285.561	234.145	193.050
35.0	171.579	208.787	266.957	218.280	179.861
35.5	159.728	194.324	249.500	203.626	167.820
36.0	148.961	181.072	232.998	190.183	156.925
36.5	139.340	169.094	217.707	177.695	147.049
37.0	130.802	158.072	203.499	166.227	138.129
37.5	123.093	148.069	190.247	155.714	130.038
38.0	116.276	139.021	177.950	146.285	122.775
38.5	110.160	130.930	166.737	137.620	116.212
39.0	104.808	123.539	156.415	129.847	110.351
39.5	99.902	116.977	147.049	122.775	105.063
40.0	95.633	110.988	138.448	116.403	100.284
40.5	91.810	105.572	130.548	110.669	95.952
41.0	88.242	100.794	123.476	105.508	91.938
41.5	85.120	96.461	117.041	100.921	88.370
42.0	82.253	92.638	111.179	96.716	85.120
42.5	79.705	89.134	105.763	92.830	82.190
43.0	77.284	85.949	100.985	89.389	79.450
43.5	75.117	83.145	96.525	86.140	76.965
44.0	73.142	80.533	92.511	83.209	74.608
44.5	71.295	78.176	88.879	80.533	72.633
45.0	69.511	75.946	85.566	78.048	70.721
45.5	67.854	73.971	82.508	75.755	68.810
46.0	66.261	71.996	79.705	73.588	67.090
46.5	64.732	70.148	77.029	71.550	65.433
47.0	63.267	68.364	74.608	69.702	63.904
47.5	61.801	66.707	72.314	67.854	62.439
48.0	60.464	65.115	70.275	66.134	61.101
48.5	59.189	63.649	68.236	64.541	59.699
49.0	57.915	62.184	66.389	62.948	58.425
49.5	56.641	60.782	64.541	61.483	57.150
50.0	55.494	59.444	62.885	60.081	56.067
50.5	54.347	58.170	61.228	58.807	54.984
51.0	53.264	56.896	59.699	57.533	53.965
51.5	52.245	55.685	58.234	56.322	52.945
52.0	51.161	54.538	56.768	55.175	51.862
52.5	50.142	53.391	55.430	54.092	50.907
53.0	49.186	52.372	54.156	53.009	49.951
53.5	48.231	51.225	52.882	51.926	49.059
54.0	47.339	50.269	51.671	50.907	48.167
54.5	46.447	49.186	50.461	49.951	47.211

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 2DS-L12-930-DIM-UNV-LW-OF-XX_.IES

CANDELA TABULATION - (Cont.)

55.0	45.618	48.231	49.377	48.931	46.383
55.5	44.726	47.211	48.231	47.976	45.555
56.0	43.898	46.256	47.148	47.020	44.726
56.5	43.134	45.364	46.064	46.001	43.962
57.0	42.369	44.472	44.981	45.109	43.070
57.5	41.604	43.580	43.962	44.153	42.305
58.0	40.840	42.688	43.006	43.261	41.541
58.5	40.075	41.732	41.987	42.369	40.713
59.0	39.375	40.840	40.967	41.477	39.948
59.5	38.674	40.012	40.012	40.521	39.056
60.0	37.845	39.120	39.056	39.629	38.228
60.5	37.081	38.291	38.164	38.737	37.399
61.0	36.316	37.463	37.208	37.845	36.507
61.5	35.488	36.571	36.253	36.890	35.615
62.0	34.660	35.743	35.361	35.998	34.787
62.5	33.768	34.915	34.405	35.042	33.895
63.0	32.876	34.023	33.513	34.150	33.067
63.5	31.984	33.131	32.621	33.194	32.175
64.0	31.092	32.239	31.665	32.302	31.347
64.5	30.200	31.410	30.773	31.410	30.518
65.0	29.372	30.455	29.818	30.518	29.690
65.5	28.480	29.563	28.926	29.690	28.926
66.0	27.715	28.734	28.034	28.798	28.161
66.5	26.887	27.843	27.142	27.970	27.333
67.0	26.122	26.951	26.313	27.142	26.568
67.5	25.358	26.059	25.421	26.250	25.740
68.0	24.529	25.230	24.593	25.421	24.975
68.5	23.765	24.402	23.765	24.657	24.211
69.0	23.000	23.574	22.937	23.829	23.446
69.5	22.236	22.745	22.172	23.000	22.682
70.0	21.471	21.917	21.344	22.172	21.917
70.5	20.707	21.089	20.579	21.344	21.153
71.0	19.942	20.324	19.751	20.579	20.388
71.5	19.178	19.496	18.986	19.751	19.687
72.0	18.413	18.732	18.286	18.986	18.923
72.5	17.712	17.967	17.521	18.222	18.222
73.0	16.948	17.266	16.756	17.457	17.457
73.5	16.247	16.502	16.056	16.693	16.756
74.0	15.546	15.737	15.291	15.928	16.056
74.5	14.845	15.036	14.590	15.227	15.355
75.0	14.144	14.335	13.889	14.527	14.654
75.5	13.443	13.635	13.189	13.826	14.017
76.0	12.806	12.934	12.551	13.125	13.316
76.5	12.169	12.297	11.914	12.424	12.679
77.0	11.532	11.596	11.213	11.787	12.042
77.5	10.895	10.959	10.576	11.086	11.341
78.0	10.258	10.321	9.939	10.449	10.704
78.5	9.684	9.684	9.366	9.812	10.130
79.0	9.047	9.047	8.729	9.175	9.493
79.5	8.474	8.474	8.155	8.601	8.920
80.0	7.900	7.900	7.582	7.964	8.283
80.5	7.327	7.263	7.008	7.391	7.709
81.0	6.817	6.754	6.435	6.817	7.136
81.5	6.244	6.180	5.862	6.244	6.626
82.0	5.734	5.607	5.352	5.734	6.053
82.5	5.224	5.097	4.842	5.161	5.543

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PHOTOMETRIC FILENAME : 2DS-L12-930-DIM-UNV-LW-OF-XX_.IES

CANDELA TABULATION - (Cont.)

83.0	4.715	4.587	4.332	4.651	5.033
83.5	4.205	4.078	3.823	4.141	4.524
84.0	3.759	3.632	3.377	3.695	4.014
84.5	3.313	3.186	2.931	3.186	3.568
85.0	2.867	2.676	2.485	2.740	3.058
85.5	2.421	2.230	2.039	2.230	2.612
86.0	1.975	1.848	1.657	1.784	2.103
86.5	1.465	1.402	1.211	1.338	1.529
87.0	0.765	0.892	0.828	0.828	0.828
87.5	0.446	0.573	0.573	0.446	0.446
88.0	0.319	0.382	0.382	0.319	0.319
88.5	0.255	0.255	0.255	0.255	0.255
89.0	0.191	0.191	0.191	0.191	0.191
89.5	0.064	0.127	0.127	0.127	0.127
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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 PHOTOMETRIC FILENAME : 2DS-L12-930-DIM-UNV-LW-OF-XX_.IES

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 : 2DS-L12-930-DIM-UNV-LW-OF-XX_.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 : 2DS-L12-930-DIM-UNV-LW-OF-XX_.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 : 2DS-L12-930-DIM-UNV-LW-OF-XX_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	405.76	N.A.	39.80
0-30	722.04	N.A.	70.80
0-40	866.80	N.A.	84.90
0-60	972.01	N.A.	95.30
0-80	1017.13	N.A.	99.70
0-90	1020.44	N.A.	100.00
10-90	910.08	N.A.	89.20
20-40	461.04	N.A.	45.20
20-50	522.93	N.A.	51.20
40-70	135.08	N.A.	13.20
60-80	45.12	N.A.	4.40
70-80	15.25	N.A.	1.50
80-90	3.31	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	1020.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.36
10-20	295.40
20-30	316.29
30-40	144.75
40-50	61.89
50-60	43.32
60-70	29.87
70-80	15.25
80-90	3.31
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67
6	86	77	70	66	85	76	70	66	74	69	65	73	68	65	72	68	64	63
7	82	72	66	62	80	72	66	61	70	65	61	69	64	61	68	64	60	59
8	78	68	62	58	77	68	62	58	66	61	57	65	61	57	64	60	57	55
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	49

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 2DS-L12-930-DIM-UNV-LW-OF-XX_.IES

UGR TABLE - CORRECTED

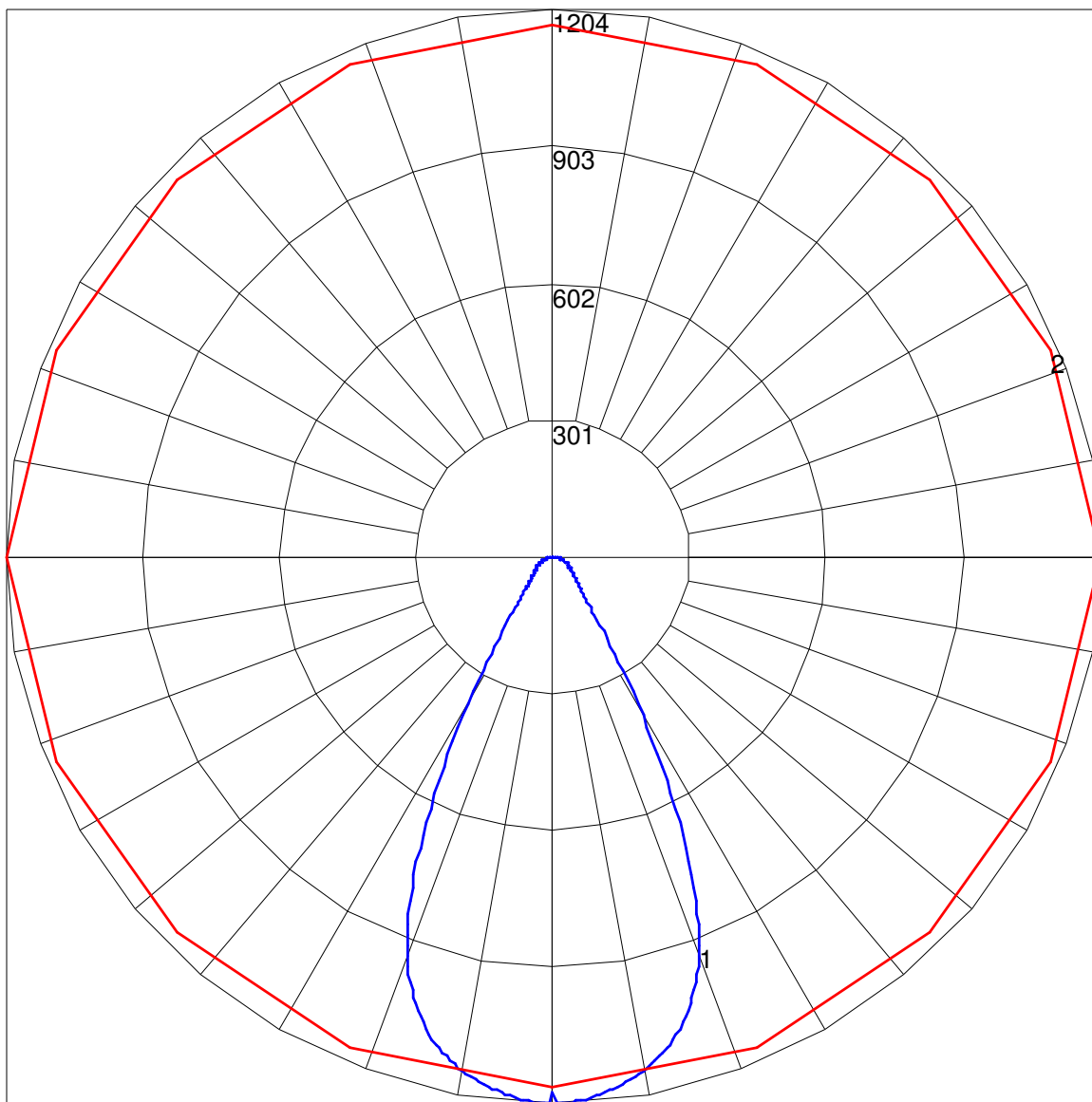
Reflectances

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	18.5	19.6	18.9	19.9	20.3	18.6	19.7	19.0	20.0	20.4
	3H	20.0	21.0	20.4	21.3	21.7	20.1	21.1	20.5	21.4	21.8
	4H	20.5	21.4	20.9	21.7	22.1	20.6	21.5	21.0	21.8	22.2
	6H	20.8	21.6	21.2	22.0	22.4	20.9	21.7	21.3	22.1	22.5
	8H	20.8	21.6	21.3	22.0	22.4	21.0	21.8	21.4	22.1	22.6
	12H	20.9	21.6	21.3	22.0	22.4	21.0	21.7	21.4	22.1	22.6
4H	2H	19.0	19.9	19.4	20.2	20.6	19.0	20.0	19.5	20.3	20.7
	3H	20.6	21.4	21.1	21.8	22.2	20.7	21.5	21.1	21.9	22.3
	4H	21.2	21.9	21.7	22.3	22.7	21.3	22.0	21.8	22.4	22.8
	6H	21.6	22.2	22.1	22.6	23.1	21.7	22.3	22.2	22.7	23.2
	8H	21.7	22.2	22.2	22.7	23.2	21.8	22.4	22.3	22.8	23.3
	12H	21.8	22.2	22.2	22.7	23.2	21.9	22.3	22.4	22.8	23.3
8H	4H	21.4	21.9	21.8	22.3	22.8	21.4	22.0	21.9	22.4	22.9
	6H	21.9	22.3	22.4	22.8	23.3	22.0	22.4	22.5	22.9	23.4
	8H	22.0	22.4	22.6	22.9	23.4	22.1	22.5	22.7	23.0	23.5
	12H	22.1	22.4	22.6	22.9	23.5	22.2	22.5	22.7	23.0	23.6
12H	4H	21.3	21.8	21.8	22.3	22.8	21.4	21.9	21.9	22.4	22.9
	6H	21.9	22.2	22.4	22.7	23.3	22.0	22.3	22.5	22.8	23.4
	8H	22.0	22.4	22.6	22.9	23.5	22.2	22.5	22.7	23.0	23.6

Maximum UGR = 23.6

POLAR GRAPH



Maximum Candela = 1204.173 Located At Horizontal Angle = 0, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)