



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 2DS-L15-9TW-DIM-UNV-LW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13257153.14
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 06 JUNE 2020
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS INC. - CARTHAGE, MO.
[LUMCAT] 2DS-L15-9TW-DIM-UNV-LW-OF-WH
[LUMINAIRE] Aluminum housing, optics, and trim enclosure
[LAMP] One white LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1570
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	55
Total Luminaire Watts	28.4
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	37585	46266	38240
55	30409	32914	30918
65	26572	26976	26860
75	20895	20518	21648
85	12577	10900	13416

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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	1815.006	1815.006	1815.006	1815.006	1815.006
0.5	1852.247	1823.826	1808.146	1802.266	1801.286
1.0	1851.267	1823.826	1808.146	1802.266	1801.286
1.5	1850.287	1822.846	1808.146	1802.266	1800.306
2.0	1849.307	1821.866	1807.166	1801.286	1800.306
2.5	1847.347	1820.886	1805.206	1800.306	1798.346
3.0	1846.367	1817.946	1803.246	1798.346	1797.366
3.5	1843.427	1815.986	1800.306	1795.406	1794.426
4.0	1839.507	1813.046	1798.346	1793.446	1791.485
4.5	1835.587	1810.106	1794.426	1789.525	1788.545
5.0	1831.666	1805.206	1790.505	1785.605	1783.645
5.5	1826.766	1801.286	1786.585	1780.705	1780.705
6.0	1821.866	1796.386	1781.685	1775.805	1776.785
6.5	1815.986	1790.505	1775.805	1771.885	1772.865
7.0	1811.086	1784.625	1770.905	1766.985	1767.965
7.5	1805.206	1778.745	1766.005	1762.085	1764.045
8.0	1799.326	1772.865	1761.105	1757.185	1758.165
8.5	1793.446	1766.985	1755.225	1751.304	1752.284
9.0	1785.605	1760.125	1749.344	1745.424	1746.404
9.5	1779.725	1753.264	1742.484	1739.544	1739.544
10.0	1770.905	1745.424	1735.624	1732.684	1731.704
10.5	1763.065	1737.584	1727.784	1724.844	1723.864
11.0	1754.245	1728.764	1719.944	1717.004	1715.044
11.5	1743.464	1719.944	1711.123	1709.163	1707.203
12.0	1733.664	1710.143	1702.303	1699.363	1697.403
12.5	1722.884	1700.343	1692.503	1690.543	1687.603
13.0	1711.123	1689.563	1682.703	1680.743	1675.843
13.5	1699.363	1677.803	1671.922	1668.982	1665.062
14.0	1685.643	1664.082	1660.162	1657.222	1652.322
14.5	1671.922	1651.342	1647.422	1643.502	1637.622
15.0	1656.242	1636.642	1633.701	1629.781	1623.901
15.5	1640.562	1621.941	1619.001	1615.081	1608.221
16.0	1623.901	1605.281	1602.341	1598.421	1591.560
16.5	1605.281	1588.620	1585.680	1581.760	1572.940
17.0	1586.660	1570.000	1569.020	1564.120	1554.319
17.5	1567.060	1551.379	1550.399	1544.519	1533.739
18.0	1545.499	1530.799	1531.779	1524.919	1511.198
18.5	1521.979	1509.238	1511.198	1503.358	1487.678
19.0	1497.478	1486.698	1490.618	1480.818	1462.197
19.5	1470.037	1463.177	1469.057	1456.317	1434.756
20.0	1441.617	1437.696	1445.537	1431.816	1405.356
20.5	1411.236	1411.236	1421.036	1404.376	1373.995
21.0	1376.935	1382.815	1395.555	1374.975	1340.674
21.5	1341.654	1351.454	1369.095	1344.594	1305.393
22.0	1304.413	1319.113	1341.654	1312.253	1268.152
22.5	1264.232	1285.793	1312.253	1278.932	1229.931
23.0	1223.071	1249.532	1282.853	1243.652	1189.750
23.5	1179.950	1212.291	1251.492	1207.391	1147.609
24.0	1134.869	1173.090	1220.131	1169.170	1105.468
24.5	1089.788	1133.889	1186.810	1129.969	1061.367
25.0	1043.726	1091.748	1152.509	1088.808	1017.266
25.5	996.685	1049.607	1116.248	1046.667	972.087
26.0	948.174	1005.506	1079.987	1003.545	926.712
26.5	898.977	961.698	1041.766	960.424	880.454

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CANDELA TABULATION - (Cont.)

27.0	849.682	916.911	1003.545	917.009	834.589
27.5	800.974	871.830	964.344	872.908	791.272
28.0	754.619	826.945	924.457	829.003	745.603
28.5	706.990	782.452	883.884	786.764	701.012
29.0	662.497	739.037	843.409	744.721	659.165
29.5	617.024	696.112	802.738	702.972	616.632
30.0	573.315	654.265	762.753	662.301	575.765
30.5	531.663	612.810	724.140	622.708	536.368
31.0	492.364	572.629	684.351	583.703	498.735
31.5	454.928	534.114	645.738	546.168	463.552
32.0	420.529	497.657	607.909	510.495	430.133
32.5	388.874	463.258	571.256	476.684	399.262
33.0	358.983	430.721	536.074	444.735	370.743
33.5	331.640	400.242	501.969	414.551	343.891
34.0	307.238	371.821	469.824	386.522	319.586
34.5	284.403	345.361	439.247	360.159	296.948
35.0	263.921	321.154	410.630	335.757	276.661
35.5	245.692	298.908	383.778	313.216	258.139
36.0	229.130	278.523	358.395	292.537	241.380
36.5	214.331	260.099	334.874	273.329	226.190
37.0	201.199	243.144	313.020	255.688	212.469
37.5	189.341	227.758	292.635	239.518	200.023
38.0	178.855	213.841	273.721	225.014	188.851
38.5	169.446	201.395	256.473	211.685	178.757
39.0	161.214	190.027	240.596	199.729	169.740
39.5	153.668	179.933	226.190	188.851	161.606
40.0	147.102	170.720	212.959	179.051	154.256
40.5	141.222	162.390	200.807	170.230	147.592
41.0	135.733	155.040	189.929	162.292	141.418
41.5	130.931	148.376	180.031	155.236	135.929
42.0	126.521	142.496	171.014	148.768	130.931
42.5	122.601	137.105	162.684	142.790	126.423
43.0	118.877	132.205	155.334	137.497	122.209
43.5	115.545	127.893	148.474	132.499	118.387
44.0	112.507	123.875	142.300	127.991	114.761
44.5	109.665	120.249	136.713	123.875	111.723
45.0	106.921	116.819	131.617	120.053	108.783
45.5	104.373	113.781	126.913	116.525	105.843
46.0	101.923	110.743	122.601	113.193	103.197
46.5	99.571	107.901	118.485	110.057	100.649
47.0	97.316	105.157	114.761	107.215	98.296
47.5	95.062	102.609	111.233	104.373	96.042
48.0	93.004	100.159	108.097	101.727	93.984
48.5	91.044	97.904	104.961	99.277	91.828
49.0	89.084	95.650	102.119	96.826	89.868
49.5	87.124	93.494	99.277	94.572	87.908
50.0	85.360	91.436	96.728	92.416	86.242
50.5	83.596	89.476	94.180	90.456	84.576
51.0	81.930	87.516	91.828	88.496	83.008
51.5	80.362	85.654	89.574	86.634	81.440
52.0	78.696	83.890	87.320	84.870	79.774
52.5	77.128	82.126	85.262	83.204	78.304
53.0	75.658	80.558	83.302	81.538	76.834
53.5	74.188	78.794	81.342	79.872	75.462
54.0	72.816	77.324	79.480	78.304	74.090
54.5	71.444	75.658	77.618	76.834	72.620

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55.0	70.170	74.188	75.952	75.266	71.346
55.5	68.798	72.620	74.188	73.796	70.072
56.0	67.524	71.150	72.522	72.326	68.798
56.5	66.348	69.778	70.856	70.758	67.622
57.0	65.172	68.406	69.190	69.386	66.250
57.5	63.996	67.034	67.622	67.916	65.074
58.0	62.820	65.662	66.152	66.544	63.898
58.5	61.644	64.192	64.584	65.172	62.624
59.0	60.566	62.820	63.016	63.800	61.448
59.5	59.488	61.546	61.546	62.330	60.076
60.0	58.213	60.174	60.076	60.958	58.801
60.5	57.037	58.899	58.703	59.586	57.527
61.0	55.861	57.625	57.233	58.213	56.155
61.5	54.587	56.253	55.763	56.743	54.783
62.0	53.313	54.979	54.391	55.371	53.509
62.5	51.941	53.705	52.921	53.901	52.137
63.0	50.569	52.333	51.549	52.529	50.863
63.5	49.197	50.961	50.177	51.059	49.491
64.0	47.825	49.589	48.707	49.687	48.217
64.5	46.453	48.315	47.335	48.315	46.943
65.0	45.179	46.845	45.865	46.943	45.669
65.5	43.807	45.473	44.493	45.669	44.493
66.0	42.631	44.199	43.121	44.297	43.317
66.5	41.357	42.827	41.749	43.023	42.043
67.0	40.181	41.455	40.475	41.749	40.867
67.5	39.005	40.083	39.103	40.377	39.593
68.0	37.731	38.809	37.829	39.103	38.417
68.5	36.555	37.535	36.555	37.927	37.241
69.0	35.379	36.261	35.281	36.653	36.065
69.5	34.203	34.987	34.105	35.379	34.889
70.0	33.027	33.713	32.831	34.105	33.713
70.5	31.851	32.439	31.655	32.831	32.537
71.0	30.675	31.263	30.381	31.655	31.361
71.5	29.499	29.989	29.205	30.381	30.283
72.0	28.323	28.813	28.127	29.205	29.107
72.5	27.245	27.637	26.951	28.029	28.029
73.0	26.069	26.559	25.775	26.853	26.853
73.5	24.991	25.383	24.697	25.677	25.775
74.0	23.913	24.207	23.521	24.501	24.697
74.5	22.835	23.129	22.443	23.423	23.619
75.0	21.757	22.051	21.365	22.345	22.541
75.5	20.679	20.973	20.287	21.267	21.561
76.0	19.698	19.895	19.306	20.189	20.483
76.5	18.718	18.914	18.326	19.110	19.502
77.0	17.738	17.836	17.248	18.130	18.522
77.5	16.758	16.856	16.268	17.052	17.444
78.0	15.778	15.876	15.288	16.072	16.464
78.5	14.896	14.896	14.406	15.092	15.582
79.0	13.916	13.916	13.426	14.112	14.602
79.5	13.034	13.034	12.544	13.230	13.720
80.0	12.152	12.152	11.662	12.250	12.740
80.5	11.270	11.172	10.780	11.368	11.858
81.0	10.486	10.388	9.898	10.486	10.976
81.5	9.604	9.506	9.016	9.604	10.192
82.0	8.820	8.624	8.232	8.820	9.310
82.5	8.036	7.840	7.448	7.938	8.526

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CANDELA TABULATION - (Cont.)

83.0	7.252	7.056	6.664	7.154	7.742
83.5	6.468	6.272	5.880	6.370	6.958
84.0	5.782	5.586	5.194	5.684	6.174
84.5	5.096	4.900	4.508	4.900	5.488
85.0	4.410	4.116	3.822	4.214	4.704
85.5	3.724	3.430	3.136	3.430	4.018
86.0	3.038	2.842	2.548	2.744	3.234
86.5	2.254	2.156	1.862	2.058	2.352
87.0	1.176	1.372	1.274	1.274	1.274
87.5	0.686	0.882	0.882	0.686	0.686
88.0	0.490	0.588	0.588	0.490	0.490
88.5	0.392	0.392	0.392	0.392	0.392
89.0	0.294	0.294	0.294	0.294	0.294
89.5	0.098	0.196	0.196	0.196	0.196
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
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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-L15-9TW-DIM-UNV-LW-OF-WH_.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-L15-9TW-DIM-UNV-LW-OF-WH_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	624.13	N.A.	39.80
0-30	1110.64	N.A.	70.80
0-40	1333.3	N.A.	84.90
0-60	1495.13	N.A.	95.30
0-80	1564.54	N.A.	99.70
0-90	1569.63	N.A.	100.00
10-90	1399.87	N.A.	89.20
20-40	709.17	N.A.	45.20
20-50	804.36	N.A.	51.20
40-70	207.78	N.A.	13.20
60-80	69.41	N.A.	4.40
70-80	23.46	N.A.	1.50
80-90	5.09	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	1569.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	169.76
10-20	454.37
20-30	486.51
30-40	222.66
40-50	95.19
50-60	66.64
60-70	45.95
70-80	23.46
80-90	5.09
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 : 2DS-L15-9TW-DIM-UNV-LW-OF-WH_.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	113	110	107	105	110	108	105	103	103	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	87	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	69	76	72	69	67
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	72	68	64	63
7	82	72	66	62	80	71	66	61	70	65	61	69	64	61	68	64	60	59
8	78	68	62	58	77	67	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

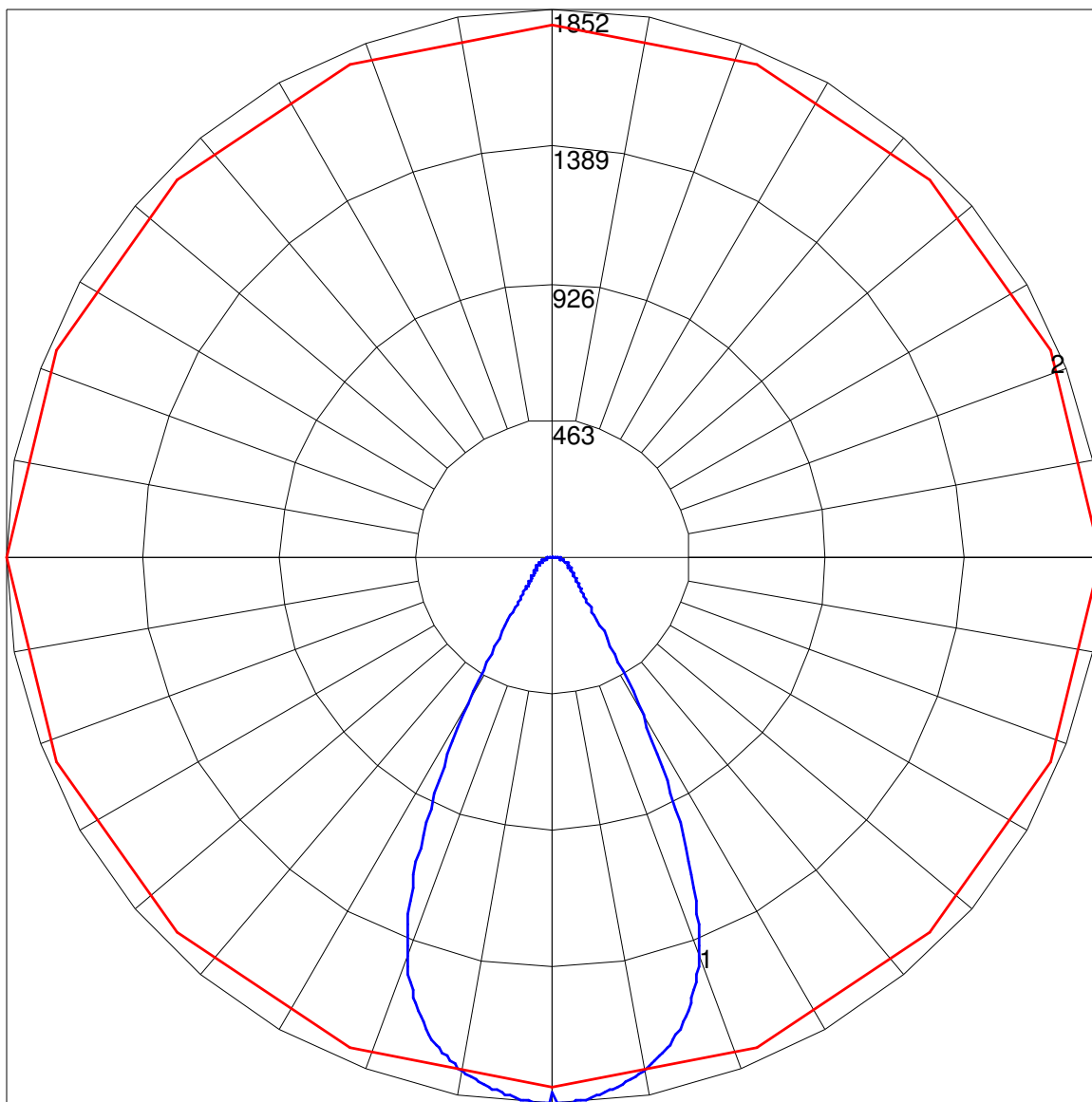
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 2DS-L15-9TW-DIM-UNV-LW-OF-WH_.IES

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	20.0	21.1	20.4	21.4	21.8	20.1	21.2	20.5	21.5	21.9
	3H	21.5	22.5	21.9	22.8	23.2	21.6	22.6	22.0	22.9	23.3
	4H	22.0	22.9	22.4	23.2	23.6	22.1	23.0	22.5	23.3	23.7
	6H	22.3	23.1	22.7	23.5	23.9	22.4	23.2	22.8	23.6	24.0
	8H	22.3	23.1	22.8	23.5	23.9	22.5	23.3	22.9	23.6	24.1
	12H	22.4	23.1	22.8	23.5	23.9	22.5	23.2	22.9	23.6	24.1
4H	2H	20.5	21.4	20.9	21.7	22.1	20.5	21.5	21.0	21.8	22.2
	3H	22.1	22.9	22.5	23.3	23.7	22.2	23.0	22.6	23.4	23.8
	4H	22.7	23.4	23.2	23.8	24.2	22.8	23.5	23.2	23.9	24.3
	6H	23.1	23.7	23.6	24.1	24.6	23.2	23.8	23.7	24.2	24.7
	8H	23.2	23.7	23.7	24.2	24.7	23.3	23.9	23.8	24.3	24.8
	12H	23.3	23.7	23.7	24.2	24.7	23.4	23.8	23.9	24.3	24.8
8H	4H	22.9	23.4	23.3	23.8	24.3	22.9	23.5	23.4	23.9	24.4
	6H	23.4	23.8	23.9	24.3	24.8	23.4	23.9	24.0	24.4	24.9
	8H	23.5	23.9	24.1	24.4	24.9	23.6	24.0	24.2	24.5	25.0
	12H	23.6	23.9	24.1	24.4	25.0	23.7	24.0	24.2	24.5	25.1
12H	4H	22.8	23.3	23.3	23.8	24.3	22.9	23.4	23.4	23.9	24.4
	6H	23.4	23.7	23.9	24.2	24.8	23.5	23.8	24.0	24.3	24.9
	8H	23.5	23.9	24.1	24.4	25.0	23.7	24.0	24.2	24.5	25.1

Maximum UGR = 25.1

POLAR GRAPH



Maximum Candela = 1852.247 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.)