



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDI5-4-L16-835-DMA-90U-10D-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM 12731921.02  
[TESTLAB] UL Verification Services Inc.  
[ISSUEDATE] 04-21-2023  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836  
[LUMINAIRE] 4' SUSPENDED LED LUMINAIRE  
[MORE] WITH FROSTED ACRYLIC LENS  
[LUMCAT] SDI5-4-L16-835-DMA-90U-10D-DIM-UNV  
[LAMPCAT] HLM 80 CRI, 3500K CCT  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor, Architectural, Classroom, Direct-Indirect  
[SEARCH\_MOUNTING] Suspended

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6824
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	46
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.77 ft
Luminous Width (90-270)	0.40 ft
Luminous Height	0.15 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2070	1654	1549
55	1964	1462	1341
65	1819	1202	1078
75	1477	816	702
85	773	297	246

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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	312.013	312.013	312.013	312.013	312.013
0.5	315.654	312.076	310.883	312.202	310.130
1.0	315.591	312.076	310.946	312.202	310.193
1.5	315.465	312.013	310.883	312.264	310.193
2.0	315.340	311.888	310.821	312.264	310.319
2.5	315.277	311.762	310.821	312.390	310.507
3.0	315.089	311.637	310.758	312.453	310.695
3.5	314.901	311.448	310.695	312.515	310.946
4.0	314.712	311.323	310.570	312.578	311.260
4.5	314.398	311.072	310.444	312.641	311.574
5.0	314.147	310.821	310.319	312.704	311.825
5.5	313.834	310.570	310.193	312.704	312.139
6.0	313.520	310.319	310.005	312.766	312.390
6.5	313.143	310.068	309.754	312.704	312.641
7.0	312.766	309.754	309.503	312.641	312.829
7.5	312.453	309.377	309.252	312.515	312.892
8.0	312.013	309.000	309.000	312.327	312.892
8.5	311.574	308.624	308.687	312.076	312.766
9.0	311.135	308.247	308.373	311.762	312.515
9.5	310.695	307.745	307.933	311.386	312.139
10.0	310.130	307.243	307.494	310.946	311.699
10.5	309.628	306.804	306.992	310.444	311.197
11.0	309.126	306.302	306.490	309.942	310.570
11.5	308.498	305.737	305.988	309.440	309.879
12.0	307.933	305.172	305.423	308.812	309.189
12.5	307.369	304.544	304.795	308.247	308.436
13.0	306.741	303.916	304.230	307.557	307.682
13.5	306.113	303.289	303.603	306.804	306.866
14.0	305.360	302.598	302.912	305.988	306.050
14.5	304.607	301.845	302.159	305.172	305.172
15.0	303.791	301.092	301.468	304.356	304.230
15.5	303.038	300.339	300.778	303.540	303.289
16.0	302.222	299.585	300.025	302.661	302.347
16.5	301.343	298.769	299.334	301.845	301.468
17.0	300.464	297.954	298.518	301.029	300.464
17.5	299.585	297.075	297.765	300.150	299.397
18.0	298.644	296.196	296.949	299.272	298.330
18.5	297.702	295.317	296.133	298.393	297.263
19.0	296.698	294.439	295.255	297.451	296.196
19.5	295.694	293.434	294.313	296.510	295.066
20.0	294.627	292.493	293.372	295.443	293.874
20.5	293.497	291.426	292.305	294.376	292.744
21.0	292.430	290.422	291.300	293.183	291.551
21.5	291.300	289.354	290.170	291.928	290.422
22.0	290.170	288.287	289.041	290.735	289.229
22.5	288.978	287.220	287.911	289.417	288.099
23.0	287.785	286.091	286.718	288.162	286.844
23.5	286.530	284.961	285.463	286.907	285.463
24.0	285.275	283.768	284.208	285.588	284.082
24.5	283.957	282.513	282.952	284.270	282.638
25.0	282.701	281.320	281.634	282.952	281.258
25.5	281.383	280.065	280.316	281.571	279.814
26.0	280.065	278.810	278.935	280.128	278.370
26.5	278.684	277.429	277.492	278.684	276.864

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SDI5-4-L16-835-DMA-90U-10D-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

27.0	277.241	276.048	276.048	277.178	275.358
27.5	275.797	274.667	274.604	275.671	273.788
28.0	274.353	273.286	273.035	274.102	272.282
28.5	272.910	271.843	271.529	272.533	270.713
29.0	271.403	270.336	269.960	271.027	269.144
29.5	269.834	268.830	268.390	269.457	267.512
30.0	268.265	267.323	266.758	267.888	265.880
30.5	266.633	265.691	265.127	266.382	264.248
31.0	265.064	264.122	263.557	264.750	262.553
31.5	263.432	262.490	261.925	263.118	260.921
32.0	261.737	260.858	260.294	261.486	259.164
32.5	260.105	259.164	258.536	259.729	257.469
33.0	258.348	257.469	256.841	258.034	255.712
33.5	256.590	255.712	255.084	256.276	253.891
34.0	254.770	253.954	253.326	254.519	252.134
34.5	253.013	252.197	251.569	252.636	250.251
35.0	251.192	250.376	249.749	250.690	248.368
35.5	249.372	248.619	247.866	248.744	246.422
36.0	247.489	246.736	245.983	246.673	244.539
36.5	245.543	244.853	244.037	244.665	242.656
37.0	243.598	242.907	242.154	242.593	240.710
37.5	241.652	240.961	240.208	240.522	238.765
38.0	239.769	239.016	238.262	238.513	236.819
38.5	237.823	237.070	236.317	236.505	234.810
39.0	235.877	235.061	234.434	234.559	232.864
39.5	233.931	233.053	232.425	232.551	230.856
40.0	231.923	231.044	230.354	230.542	228.847
40.5	229.852	228.973	228.282	228.534	226.776
41.0	227.843	226.964	226.211	226.525	224.768
41.5	225.835	224.893	224.077	224.454	222.822
42.0	223.826	222.822	222.006	222.382	220.750
42.5	221.755	220.688	219.872	220.374	218.742
43.0	219.683	218.616	217.675	218.303	216.671
43.5	217.549	216.482	215.604	216.169	214.537
44.0	215.415	214.411	213.470	214.097	212.403
44.5	213.281	212.277	211.335	211.963	210.331
45.0	211.084	210.206	209.201	209.766	208.197
45.5	208.950	208.009	207.067	207.569	206.000
46.0	206.754	205.812	204.996	205.373	203.866
46.5	204.557	203.552	202.925	203.176	201.669
47.0	202.360	201.230	200.791	200.979	199.535
47.5	200.226	199.033	198.657	198.782	197.339
48.0	198.029	196.774	196.523	196.585	195.079
48.5	195.769	194.451	194.326	194.326	192.819
49.0	193.510	192.192	192.129	192.129	190.560
49.5	191.187	189.869	189.932	189.869	188.363
50.0	188.865	187.610	187.735	187.547	186.103
50.5	186.543	185.287	185.476	185.225	183.844
51.0	184.283	182.965	183.216	182.839	181.584
51.5	181.898	180.643	180.894	180.517	179.324
52.0	179.576	178.320	178.571	178.195	177.002
52.5	177.190	175.998	176.249	175.872	174.742
53.0	174.742	173.613	173.864	173.487	172.420
53.5	172.357	171.290	171.479	171.102	170.098
54.0	169.972	168.968	169.093	168.717	167.775
54.5	167.587	166.583	166.708	166.332	165.390

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SDI5-4-L16-835-DMA-90U-10D-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

55.0	165.076	164.260	164.323	163.947	163.005
55.5	162.566	161.875	161.938	161.561	160.620
56.0	159.992	159.427	159.490	159.114	158.235
56.5	157.482	156.980	157.042	156.728	155.787
57.0	154.971	154.532	154.594	154.281	153.339
57.5	152.523	152.084	152.084	151.833	150.891
58.0	150.138	149.573	149.636	149.385	148.443
58.5	147.816	147.000	147.125	147.000	145.995
59.0	145.430	144.426	144.677	144.489	143.485
59.5	143.045	141.790	142.167	141.978	140.974
60.0	140.660	139.217	139.656	139.468	138.463
60.5	138.212	136.706	137.082	136.894	135.953
61.0	135.953	134.195	134.572	134.321	133.442
61.5	133.568	131.747	132.061	131.747	130.994
62.0	131.120	129.237	129.550	129.174	128.483
62.5	128.672	126.852	126.977	126.538	125.973
63.0	126.161	124.404	124.404	123.964	123.399
63.5	123.525	121.893	121.767	121.391	120.826
64.0	120.951	119.382	119.257	118.817	118.252
64.5	118.252	116.872	116.683	116.307	115.742
65.0	115.616	114.298	114.110	113.733	113.231
65.5	112.917	111.725	111.474	111.160	110.658
66.0	110.218	109.089	108.900	108.586	108.147
66.5	107.519	106.515	106.327	106.013	105.574
67.0	104.883	103.879	103.691	103.440	102.937
67.5	102.184	101.243	101.117	100.866	100.301
68.0	99.422	98.606	98.544	98.293	97.665
68.5	96.723	95.970	95.908	95.594	94.966
69.0	93.962	93.209	93.209	92.957	92.204
69.5	91.200	90.510	90.510	90.196	89.505
70.0	88.438	87.748	87.873	87.497	86.744
70.5	85.677	84.986	85.174	84.735	84.045
71.0	82.915	82.287	82.475	82.036	81.346
71.5	80.153	79.525	79.776	79.274	78.647
72.0	77.391	76.764	77.015	76.513	75.948
72.5	74.567	74.065	74.253	73.814	73.249
73.0	71.805	71.366	71.491	71.115	70.550
73.5	68.981	68.667	68.792	68.416	67.851
74.0	66.219	66.031	66.093	65.780	65.215
74.5	63.520	63.394	63.457	63.143	62.578
75.0	60.758	60.695	60.821	60.507	59.942
75.5	58.059	58.122	58.122	57.808	57.306
76.0	55.360	55.486	55.423	55.235	54.670
76.5	52.661	52.975	52.787	52.724	52.159
77.0	50.025	50.464	50.276	50.151	49.648
77.5	47.452	48.017	47.703	47.703	47.201
78.0	44.815	45.506	45.129	45.192	44.753
78.5	42.305	42.932	42.681	42.807	42.305
79.0	39.731	40.422	40.171	40.359	39.857
79.5	37.221	37.974	37.848	38.037	37.472
80.0	34.836	35.526	35.463	35.714	35.212
80.5	32.450	33.141	33.141	33.517	33.015
81.0	30.128	30.818	30.944	31.321	30.881
81.5	27.743	28.496	28.747	29.124	28.684
82.0	25.483	26.236	26.550	26.927	26.550
82.5	23.286	24.040	24.542	24.918	24.479

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SDI5-4-L16-835-DMA-90U-10D-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

83.0	21.152	21.968	22.533	22.910	22.533
83.5	19.081	20.023	20.650	21.027	20.587
84.0	17.135	18.077	18.830	19.207	18.830
84.5	15.315	16.257	17.073	17.449	17.135
85.0	13.495	14.499	15.441	15.817	15.503
85.5	11.800	12.930	13.871	14.311	13.934
86.0	10.168	11.424	12.428	12.867	12.491
86.5	8.725	10.105	11.110	11.612	11.110
87.0	7.469	8.850	9.980	10.482	9.854
87.5	6.339	7.783	8.913	9.415	8.725
88.0	5.398	6.842	7.909	8.536	7.783
88.5	4.770	6.088	7.155	7.783	6.904
89.0	4.205	5.461	6.465	6.842	5.775
89.5	3.892	5.147	5.775	5.963	4.645
90.0	4.017	5.461	5.963	6.151	4.708
90.5	2.825	6.277	5.900	5.021	4.456
91.0	3.892	9.792	11.486	10.482	10.043
91.5	5.523	12.491	16.947	17.010	16.508
92.0	7.532	14.938	20.085	22.533	22.659
92.5	9.980	19.207	22.659	25.421	26.111
93.0	12.804	29.249	25.483	28.182	28.873
93.5	16.068	46.134	28.684	31.446	32.137
94.0	19.646	66.909	32.450	34.961	35.777
94.5	23.663	87.120	37.723	38.664	39.417
95.0	28.119	107.080	48.519	42.870	43.560
95.5	33.141	126.161	71.177	47.703	48.142
96.0	38.539	142.355	113.608	54.105	53.163
96.5	44.502	159.490	167.022	67.035	59.691
97.0	50.904	177.630	228.471	96.661	72.872
97.5	57.620	193.698	289.982	143.296	102.247
98.0	64.838	211.963	346.409	201.544	147.753
98.5	72.496	229.789	376.789	276.362	203.992
99.0	80.592	247.175	396.434	362.540	277.617
99.5	89.191	265.754	423.487	450.414	367.625
100.0	98.042	286.342	455.812	537.408	465.227
100.5	107.394	305.486	484.182	602.623	559.377
101.0	116.872	322.244	509.854	633.316	649.635
101.5	126.789	341.827	534.145	657.795	709.264
102.0	136.894	362.352	559.377	686.040	737.509
102.5	147.502	382.500	585.174	717.423	762.615
103.0	158.423	401.456	611.913	749.434	793.371
103.5	169.533	420.600	637.710	780.190	824.754
104.0	180.894	439.555	661.561	809.063	854.255
104.5	192.443	459.703	684.785	834.797	884.383
105.0	204.117	480.479	706.125	860.531	913.255
105.5	216.106	498.933	726.838	885.638	940.245
106.0	228.282	519.771	747.551	912.000	965.352
106.5	240.899	540.798	768.264	938.362	989.831
107.0	253.640	558.435	788.977	964.097	1014.938
107.5	266.696	575.445	809.690	989.203	1040.672
108.0	279.688	590.697	831.031	1011.172	1065.151
108.5	292.932	604.506	851.744	1031.257	1089.630
109.0	306.302	620.512	873.085	1051.970	1112.226
109.5	319.734	637.082	893.170	1072.683	1132.311
110.0	333.354	653.401	912.628	1092.768	1151.141
110.5	347.225	667.838	931.458	1112.226	1169.971

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111.0	361.222	681.019	949.660	1130.428	1188.174
111.5	375.157	696.083	967.235	1148.003	1206.376
112.0	389.279	709.264	984.810	1166.833	1223.951
112.5	403.339	723.072	1001.129	1185.035	1240.898
113.0	417.273	737.509	1017.448	1203.238	1257.845
113.5	431.019	753.828	1034.395	1221.440	1274.792
114.0	444.702	767.637	1050.715	1238.387	1292.366
114.5	458.699	780.190	1067.034	1254.706	1308.686
115.0	472.822	790.860	1083.981	1270.398	1325.633
115.5	486.756	800.275	1099.673	1285.462	1341.324
116.0	501.004	810.946	1114.109	1300.526	1356.388
116.5	515.503	820.988	1129.173	1314.335	1370.825
117.0	529.876	828.520	1144.237	1328.143	1384.633
117.5	544.250	835.425	1159.929	1341.324	1397.814
118.0	558.435	841.701	1174.993	1353.878	1410.368
118.5	572.621	849.861	1188.174	1366.431	1422.921
119.0	586.555	859.276	1198.216	1377.729	1434.219
119.5	600.677	867.436	1208.887	1389.655	1445.517
120.0	614.360	874.968	1220.812	1400.953	1456.187
120.5	627.667	883.127	1232.110	1410.995	1466.858
121.0	641.476	891.915	1240.270	1421.038	1476.900
121.5	654.657	900.702	1248.430	1431.081	1486.315
122.0	667.838	910.117	1257.217	1439.868	1495.730
122.5	681.019	918.277	1266.632	1448.655	1504.518
123.0	694.200	926.437	1274.792	1456.815	1513.305
123.5	706.753	934.596	1281.696	1466.230	1520.837
124.0	719.934	941.501	1289.228	1477.528	1528.369
124.5	733.115	948.405	1296.760	1488.198	1535.274
125.0	745.668	955.309	1304.292	1496.358	1541.550
125.5	758.222	961.586	1311.196	1501.379	1549.082
126.0	770.775	968.490	1318.728	1505.145	1557.870
126.5	782.701	974.139	1324.377	1509.539	1567.912
127.0	795.254	980.416	1329.399	1516.443	1575.444
127.5	807.180	986.065	1333.165	1523.348	1579.838
128.0	818.478	991.714	1338.186	1527.742	1582.976
128.5	830.403	997.363	1342.580	1532.135	1585.487
129.0	841.701	1003.640	1346.973	1535.901	1590.508
129.5	852.999	1008.661	1351.995	1539.667	1596.157
130.0	864.297	1014.938	1357.644	1542.806	1600.551
130.5	875.595	1020.587	1362.037	1544.689	1603.062
131.0	886.893	1025.608	1365.176	1546.572	1606.200
131.5	898.191	1031.257	1366.431	1549.082	1609.338
132.0	908.862	1036.906	1366.431	1552.221	1611.221
132.5	920.160	1041.927	1366.431	1555.359	1613.104
133.0	930.830	1047.576	1366.431	1557.870	1614.987
133.5	942.128	1052.598	1365.803	1561.008	1616.870
134.0	952.799	1057.619	1363.920	1562.891	1618.753
134.5	963.469	1062.640	1362.665	1564.146	1620.636
135.0	974.139	1067.034	1362.665	1565.402	1621.264
135.5	984.810	1072.055	1362.665	1565.402	1621.892
136.0	995.480	1076.449	1362.665	1564.146	1622.519
136.5	1006.150	1080.843	1363.293	1563.519	1622.519
137.0	1016.821	1085.236	1363.920	1564.146	1623.147
137.5	1026.863	1089.630	1364.548	1566.029	1621.264
138.0	1037.534	1094.651	1365.803	1568.540	1620.009
138.5	1047.576	1099.045	1365.803	1568.540	1618.126

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SDI5-4-L16-835-DMA-90U-10D-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

139.0	1056.991	1104.066	1366.431	1565.402	1615.615
139.5	1067.034	1109.088	1367.059	1561.008	1614.360
140.0	1076.449	1114.109	1367.059	1556.614	1615.615
140.5	1085.236	1119.758	1367.059	1552.221	1616.243
141.0	1094.651	1126.035	1366.431	1547.827	1613.732
141.5	1103.439	1132.311	1366.431	1542.178	1608.083
142.0	1112.226	1139.216	1365.803	1536.529	1601.806
142.5	1121.013	1146.748	1365.176	1532.135	1596.157
143.0	1129.173	1154.280	1364.548	1528.997	1591.136
143.5	1137.960	1161.812	1363.293	1525.231	1584.859
144.0	1145.492	1169.344	1362.665	1522.092	1577.955
144.5	1154.280	1176.248	1360.782	1519.582	1571.678
145.0	1161.812	1183.780	1359.527	1516.443	1567.285
145.5	1169.971	1191.312	1358.271	1513.305	1562.891
146.0	1177.503	1198.844	1356.388	1509.539	1559.125
146.5	1185.035	1205.748	1354.505	1506.401	1555.359
147.0	1192.567	1212.653	1352.622	1503.262	1551.593
147.5	1199.472	1220.185	1350.739	1499.496	1547.827
148.0	1207.631	1227.089	1348.856	1495.730	1544.061
148.5	1214.536	1233.993	1346.973	1491.964	1539.040
149.0	1221.440	1240.270	1344.463	1488.198	1534.646
149.5	1228.344	1246.547	1341.952	1484.432	1530.252
150.0	1235.876	1252.196	1339.441	1480.039	1525.231
150.5	1242.153	1257.845	1336.931	1475.645	1520.837
151.0	1249.057	1263.494	1334.420	1471.879	1515.816
151.5	1255.962	1269.143	1331.909	1466.858	1510.167
152.0	1262.238	1274.792	1329.399	1462.464	1504.518
152.5	1268.515	1280.441	1326.888	1457.443	1498.869
153.0	1274.792	1286.090	1324.377	1452.421	1492.592
153.5	1281.068	1292.366	1321.867	1447.400	1486.315
154.0	1287.345	1297.388	1321.239	1442.379	1480.039
154.5	1292.994	1303.037	1319.984	1436.730	1473.762
155.0	1299.271	1308.686	1319.984	1430.453	1466.858
155.5	1304.920	1314.335	1321.239	1424.804	1460.581
156.0	1310.569	1319.356	1322.494	1418.527	1453.677
156.5	1315.590	1325.005	1324.377	1411.623	1446.145
157.0	1321.239	1330.026	1328.143	1405.346	1439.240
157.5	1326.260	1335.048	1333.165	1399.070	1431.708
158.0	1331.282	1340.069	1339.441	1392.793	1424.176
158.5	1336.303	1345.090	1345.090	1386.516	1416.644
159.0	1341.324	1349.484	1350.112	1380.867	1409.740
159.5	1345.718	1353.878	1355.133	1375.218	1402.208
160.0	1350.739	1358.271	1360.154	1372.080	1395.304
160.5	1355.133	1362.665	1364.548	1370.197	1388.399
161.0	1359.527	1367.059	1369.569	1368.942	1383.378
161.5	1363.920	1370.825	1373.963	1368.314	1379.612
162.0	1367.686	1374.591	1378.357	1370.825	1377.729
162.5	1372.080	1378.357	1382.123	1375.218	1375.846
163.0	1375.846	1382.123	1384.633	1381.495	1375.846
163.5	1379.612	1385.261	1387.144	1387.772	1378.984
164.0	1383.378	1388.399	1389.655	1392.165	1384.633
164.5	1386.516	1392.165	1392.165	1395.931	1391.538
165.0	1389.655	1395.304	1394.676	1399.697	1395.931
165.5	1392.793	1397.814	1397.187	1404.091	1399.070
166.0	1395.931	1400.953	1399.697	1408.485	1402.836
166.5	1398.442	1403.463	1402.208	1410.995	1406.602

IES INDOOR REPORT  
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CANDELA TABULATION - (Cont.)

167.0	1400.953	1406.602	1404.091	1412.878	1410.368
167.5	1403.463	1409.112	1406.602	1414.761	1413.506
168.0	1406.602	1411.623	1408.485	1416.017	1415.389
168.5	1408.485	1413.506	1410.368	1417.272	1416.017
169.0	1410.995	1416.017	1412.251	1418.527	1417.272
169.5	1412.878	1417.900	1414.134	1420.410	1418.527
170.0	1414.761	1419.783	1415.389	1421.666	1419.783
170.5	1416.644	1421.666	1416.644	1422.921	1421.666
171.0	1417.900	1423.549	1418.527	1424.176	1422.921
171.5	1419.783	1424.804	1419.783	1425.432	1424.176
172.0	1421.666	1426.059	1421.038	1426.687	1425.432
172.5	1422.921	1427.315	1422.293	1427.942	1426.059
173.0	1424.176	1428.570	1423.549	1429.198	1427.315
173.5	1425.432	1429.825	1424.804	1430.453	1428.570
174.0	1426.687	1431.081	1425.432	1431.081	1429.825
174.5	1427.315	1431.708	1426.687	1432.336	1430.453
175.0	1428.570	1432.336	1427.315	1432.964	1431.081
175.5	1428.570	1432.964	1427.942	1433.591	1431.708
176.0	1429.198	1433.591	1428.570	1434.219	1432.336
176.5	1429.825	1434.219	1429.198	1434.847	1432.964
177.0	1430.453	1434.847	1429.825	1434.847	1432.964
177.5	1430.453	1435.474	1429.825	1435.474	1433.591
178.0	1431.081	1436.102	1430.453	1436.102	1433.591
178.5	1431.081	1436.102	1430.453	1436.102	1434.219
179.0	1431.708	1436.730	1431.081	1436.102	1434.847
179.5	1431.708	1436.730	1431.081	1436.730	1435.474
180.0	1434.219	1434.219	1434.219	1434.219	1434.219



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SDI5-4-L16-835-DMA-90U-10D-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	115.16	N.A.	1.70
0-30	245.07	N.A.	3.60
0-40	401.45	N.A.	5.90
0-60	709.84	N.A.	10.40
0-80	886.83	N.A.	13.00
0-90	905.14	N.A.	13.30
10-90	875.45	N.A.	12.80
20-40	286.29	N.A.	4.20
20-50	448.05	N.A.	6.60
40-70	421.15	N.A.	6.20
60-80	176.99	N.A.	2.60
70-80	64.22	N.A.	0.90
80-90	18.31	N.A.	0.30
90-110	797.06	N.A.	11.70
90-120	1791.57	N.A.	26.30
90-130	2883.93	N.A.	42.30
90-150	4757.99	N.A.	69.70
90-180	5918.79	N.A.	86.70
110-180	5121.73	N.A.	75.10
0-180	6823.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	29.68
10-20	85.48
20-30	129.91
30-40	156.38
40-50	161.76
50-60	146.63
60-70	112.77
70-80	64.22
80-90	18.31
90-100	118.00
100-110	679.06
110-120	994.51
120-130	1092.36
130-140	1022.59
140-150	851.47
150-160	630.46
160-170	394.17
170-180	136.17

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDI5-4-L16-835-DMA-90U-10D-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	98	98	98	98	86	86	86	86	63	63	63	42	42	42	22	22	22	13
1	90	85	82	78	78	75	72	69	55	53	51	37	35	34	20	19	19	11
2	81	74	69	64	71	65	61	56	48	45	42	32	30	29	17	16	16	9
3	74	65	58	53	64	57	52	47	42	38	35	28	26	24	15	14	13	8
4	68	58	50	44	59	51	44	40	37	33	30	25	22	20	13	12	11	7
5	62	51	43	38	54	45	38	34	33	29	26	22	20	18	12	11	10	6
6	57	45	38	32	49	40	34	29	30	25	22	20	17	15	11	10	9	5
7	52	41	33	28	46	36	30	25	27	22	19	18	15	13	10	9	7	4
8	48	37	30	25	42	32	26	22	24	20	17	16	14	12	9	8	7	4
9	45	33	26	22	39	29	23	19	22	18	15	15	12	10	8	7	6	4
10	42	30	24	19	36	27	21	17	20	16	13	14	11	9	8	6	5	3

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDI5-4-L16-835-DMA-90U-10D-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

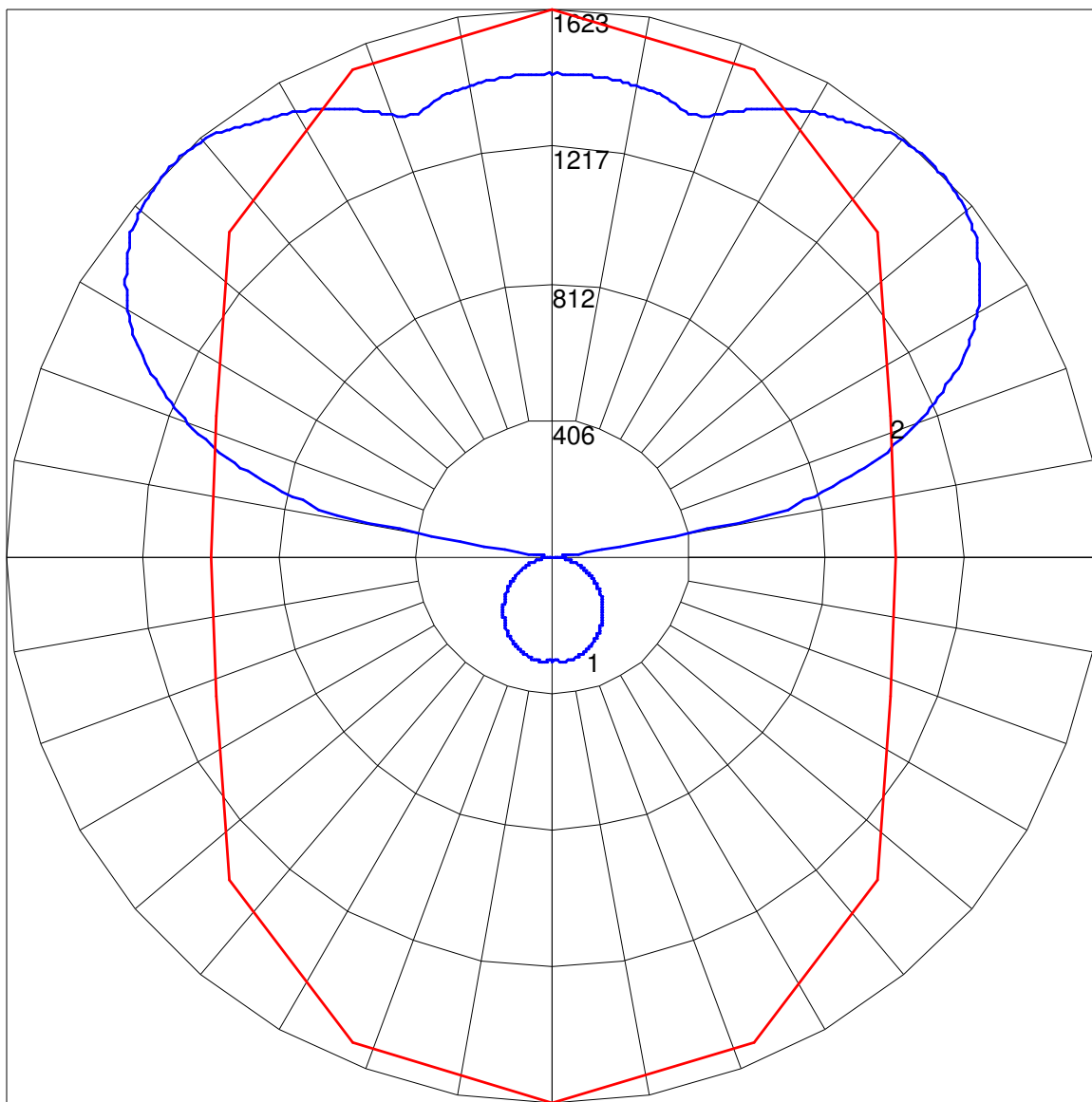
X=2H	Y=2H	6.7	6.7	6.7	6.7	7.5	6.7	6.7	6.7	6.7	8.3
	3H	6.7	6.7	6.7	7.2	9.0	6.7	7.1	7.7	8.3	10.0
	4H	6.7	6.7	7.2	7.7	9.4	7.1	7.6	8.3	8.8	10.6
	6H	6.7	6.7	7.4	7.9	9.6	7.5	8.0	8.7	9.2	10.9
	8H	6.7	6.7	7.4	7.9	9.6	7.6	8.0	8.8	9.3	11.0
	12H	6.7	6.7	7.4	7.8	9.6	7.6	8.1	8.9	9.3	11.0

### UGR Viewed Endwise

4H	2H	6.7	6.7	6.7	6.7	8.0	6.7	6.7	6.7	6.9	8.6
	3H	6.7	6.7	7.4	7.8	9.6	7.0	7.5	8.3	8.7	10.4
	4H	6.7	7.1	8.0	8.3	10.1	7.7	8.1	9.0	9.3	11.1
	6H	7.0	7.4	8.3	8.6	10.4	8.2	8.6	9.5	9.8	11.5
	8H	7.1	7.4	8.4	8.6	10.4	8.4	8.7	9.6	9.9	11.7
	12H	7.1	7.4	8.4	8.6	10.4	8.4	8.7	9.7	9.9	11.7
8H	4H	6.9	7.2	8.2	8.5	10.2	7.8	8.1	9.1	9.4	11.1
	6H	7.3	7.6	8.6	8.9	10.6	8.4	8.7	9.6	9.9	11.7
	8H	7.4	7.7	8.7	8.9	10.7	8.6	8.8	9.9	10.1	11.8
	12H	7.5	7.6	8.7	8.9	10.7	8.7	8.9	10.0	10.1	11.9
12H	4H	6.9	7.2	8.1	8.4	10.2	7.8	8.1	9.0	9.3	11.1
	6H	7.3	7.6	8.6	8.8	10.6	8.4	8.6	9.6	9.9	11.6
	8H	7.5	7.6	8.7	8.9	10.7	8.6	8.8	9.8	10.0	11.8

Maximum UGR = 11.9

POLAR GRAPH



Maximum Candela = 1623.147 Located At Horizontal Angle = 90, Vertical Angle = 137  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (137) (Through Max. Cd.)