

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_32W_3500K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 15180278.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 2025-03-20

[TEST DATE] 2/23/2024

[MANUFAC] WILLIAMS INDOOR, H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMCAT] FS-4-LS-8CS-DIM-UNV_32W_3500K_

[LUMINAIRE] 45 INCH, 224 LEDS, LUMEN/WATTAGE/CCT SELECTABLE, LED STRIP

[MORE] WITH FROSTED ACRYLIC LENS

[SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Utility, Warehouse, Linear

[SEARCH_MOUNTING] Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4324
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	32.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.71 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.04 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18636	17634	18279
55	16962	16325	17392
65	14943	14892	16451
75	12305	13351	15294
85	8509	12291	14557

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	1360.596	1360.596	1360.596	1360.596	1360.596	1360.596	1360.596	1360.596	1360.596
0.5	1342.694	1365.862	1362.702	1362.702	1356.384	1363.755	1362.702	1367.968	1343.747
1.0	1341.640	1364.808	1360.596	1363.755	1355.331	1363.755	1360.596	1366.915	1343.747
1.5	1343.747	1364.808	1358.490	1362.702	1356.384	1363.755	1360.596	1365.862	1343.747
2.0	1343.747	1363.755	1360.596	1363.755	1355.331	1365.862	1360.596	1366.915	1342.694
2.5	1342.694	1362.702	1358.490	1362.702	1355.331	1361.649	1360.596	1364.808	1340.587
3.0	1339.534	1362.702	1357.437	1362.702	1355.331	1362.702	1359.543	1365.862	1340.587
3.5	1340.587	1360.596	1356.384	1359.543	1353.224	1360.596	1358.490	1362.702	1341.640
4.0	1337.428	1358.490	1354.278	1360.596	1354.278	1359.543	1357.437	1363.755	1338.481
4.5	1338.481	1355.331	1354.278	1358.490	1352.171	1359.543	1355.331	1361.649	1336.375
5.0	1333.216	1354.278	1351.118	1357.437	1352.171	1358.490	1354.278	1359.543	1336.375
5.5	1332.163	1354.278	1350.065	1356.384	1352.171	1357.437	1354.278	1357.437	1333.216
6.0	1330.056	1351.118	1347.959	1355.331	1349.012	1355.331	1351.118	1357.437	1332.163
6.5	1327.950	1349.012	1346.906	1352.171	1346.906	1354.278	1350.065	1355.331	1330.056
7.0	1324.791	1345.853	1344.800	1349.012	1344.800	1352.171	1349.012	1354.278	1331.109
7.5	1323.738	1344.800	1341.640	1349.012	1342.694	1350.065	1345.853	1352.171	1326.897
8.0	1321.632	1341.640	1339.534	1345.853	1342.694	1349.012	1344.800	1350.065	1324.791
8.5	1318.472	1338.481	1336.375	1342.694	1338.481	1345.853	1342.694	1346.906	1320.579
9.0	1316.366	1335.322	1332.163	1341.640	1336.375	1342.694	1339.534	1345.853	1318.472
9.5	1310.048	1332.163	1332.163	1339.534	1334.269	1341.640	1337.428	1341.640	1315.313
10.0	1308.995	1331.109	1326.897	1333.216	1333.216	1338.481	1335.322	1339.534	1314.260
10.5	1301.623	1324.791	1324.791	1333.216	1327.950	1336.375	1332.163	1335.322	1308.995
11.0	1300.570	1323.738	1321.632	1329.003	1325.844	1333.216	1326.897	1330.056	1308.995
11.5	1296.357	1318.472	1317.419	1325.844	1323.738	1329.003	1324.791	1329.003	1303.729
12.0	1292.145	1314.260	1315.313	1322.685	1319.525	1326.897	1320.579	1324.791	1298.464
12.5	1286.880	1310.048	1311.101	1320.579	1319.525	1321.632	1317.419	1319.525	1296.357
13.0	1284.773	1307.941	1305.835	1316.366	1315.313	1319.525	1314.260	1317.419	1290.039
13.5	1281.614	1302.676	1303.729	1311.101	1311.101	1315.313	1311.101	1314.260	1285.826
14.0	1275.296	1297.411	1298.464	1307.941	1306.888	1312.154	1305.835	1310.048	1281.614
14.5	1267.924	1292.145	1293.198	1303.729	1302.676	1306.888	1302.676	1305.835	1278.455
15.0	1264.765	1288.986	1291.092	1301.623	1298.464	1303.729	1297.411	1300.570	1273.189
15.5	1260.552	1285.826	1284.773	1296.357	1294.251	1298.464	1294.251	1295.304	1268.977
16.0	1257.393	1278.455	1280.561	1293.198	1288.986	1294.251	1287.933	1291.092	1261.605
16.5	1247.915	1274.242	1274.242	1288.986	1284.773	1290.039	1282.667	1285.826	1260.552
17.0	1242.650	1268.977	1271.083	1283.720	1280.561	1283.720	1278.455	1281.614	1253.181
17.5	1237.384	1262.658	1264.765	1277.402	1275.296	1278.455	1272.136	1277.402	1250.021
18.0	1234.225	1255.287	1258.446	1271.083	1271.083	1272.136	1267.924	1268.977	1243.703
18.5	1227.906	1251.074	1253.181	1267.924	1265.818	1267.924	1261.605	1264.765	1238.437
19.0	1219.482	1244.756	1246.862	1261.605	1259.499	1262.658	1257.393	1258.446	1232.119
19.5	1215.269	1239.490	1241.597	1256.340	1253.181	1256.340	1252.128	1253.181	1224.747
20.0	1208.951	1232.119	1235.278	1250.021	1247.915	1252.128	1245.809	1246.862	1219.482
20.5	1201.579	1225.800	1230.013	1244.756	1242.650	1244.756	1240.544	1240.544	1214.216
21.0	1196.314	1219.482	1222.641	1237.384	1236.331	1240.544	1232.119	1236.331	1205.791
21.5	1187.889	1213.163	1216.322	1231.066	1232.119	1235.278	1227.906	1228.959	1200.526
22.0	1182.623	1207.898	1211.057	1224.747	1225.800	1227.906	1221.588	1222.641	1194.207
22.5	1173.146	1198.420	1203.685	1219.482	1221.588	1224.747	1215.269	1215.269	1185.783
23.0	1166.827	1192.101	1197.367	1212.110	1215.269	1217.375	1210.004	1208.951	1181.570
23.5	1161.562	1184.730	1192.101	1206.845	1211.057	1214.216	1203.685	1202.632	1174.199
24.0	1151.031	1178.411	1184.730	1200.526	1204.738	1207.898	1197.367	1193.154	1163.668
24.5	1146.818	1172.092	1177.358	1195.261	1199.473	1202.632	1189.995	1186.836	1157.349
25.0	1138.393	1161.562	1171.039	1189.995	1196.314	1197.367	1183.676	1180.517	1151.031
25.5	1128.916	1155.243	1161.562	1184.730	1191.048	1191.048	1178.411	1174.199	1144.712
26.0	1120.491	1148.924	1155.243	1176.305	1184.730	1184.730	1171.039	1166.827	1135.234
26.5	1113.119	1139.447	1148.924	1172.092	1179.464	1178.411	1163.668	1158.402	1128.916

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CANDELA TABULATION - (Cont.)

27.0	1106.801	1132.075	1142.606	1164.721	1171.039	1172.092	1156.296	1151.031	1120.491
27.5	1097.323	1125.756	1135.234	1159.455	1165.774	1164.721	1149.978	1143.659	1112.066
28.0	1089.951	1115.225	1125.756	1153.137	1160.508	1158.402	1141.553	1135.234	1104.695
28.5	1082.580	1107.854	1119.438	1145.765	1154.190	1152.084	1135.234	1127.863	1097.323
29.0	1074.155	1099.429	1112.066	1139.447	1147.871	1144.712	1127.863	1120.491	1087.845
29.5	1065.730	1092.057	1104.695	1132.075	1140.500	1138.393	1121.544	1111.013	1079.420
30.0	1055.199	1083.633	1097.323	1124.703	1134.181	1132.075	1113.119	1103.641	1069.942
30.5	1046.880	1075.208	1088.898	1118.385	1127.863	1124.703	1105.748	1095.217	1061.518
31.0	1038.034	1065.730	1081.526	1111.013	1121.544	1118.385	1097.323	1086.792	1055.199
31.5	1031.399	1056.252	1074.155	1103.641	1114.172	1112.066	1091.004	1078.367	1043.826
32.0	1020.342	1049.723	1065.730	1097.323	1107.854	1105.748	1083.633	1069.942	1036.033
32.5	1013.181	1040.245	1057.305	1089.951	1101.535	1098.376	1074.155	1060.465	1028.767
33.0	1002.860	1031.820	1048.038	1083.633	1096.270	1092.057	1065.730	1051.197	1016.972
33.5	993.593	1022.869	1040.140	1077.314	1088.898	1083.633	1058.358	1043.089	1009.495
34.0	985.168	1014.023	1034.032	1068.889	1082.580	1077.314	1051.619	1035.190	1001.807
34.5	975.375	1004.124	1025.081	1061.518	1076.261	1069.942	1043.299	1024.554	991.066
35.0	967.687	995.594	1017.604	1055.199	1068.889	1062.571	1035.401	1016.340	984.010
35.5	958.104	985.800	1010.127	1048.354	1063.624	1055.199	1026.450	1006.441	972.637
36.0	946.836	975.691	1001.070	1040.877	1056.252	1049.512	1018.025	997.700	965.054
36.5	937.042	966.950	994.120	1033.084	1050.039	1041.825	1010.232	988.538	956.314
37.0	929.460	956.946	984.642	1027.187	1043.615	1034.874	1001.491	979.376	949.047
37.5	919.350	948.731	976.954	1019.499	1036.770	1026.555	994.436	970.952	939.885
38.0	908.503	939.148	968.214	1012.654	1030.030	1019.183	986.011	962.316	929.039
38.5	899.763	929.565	961.158	1004.967	1022.448	1011.917	976.744	953.786	918.718
39.0	889.232	919.350	952.312	997.490	1015.287	1004.335	969.372	945.572	908.714
39.5	879.227	909.030	944.308	989.697	1008.758	996.963	960.421	936.305	897.025
40.0	868.486	900.710	935.989	982.536	1002.650	990.329	952.101	927.775	886.072
40.5	859.429	891.233	927.775	974.953	994.541	982.746	943.887	916.928	875.752
41.0	847.950	880.596	919.034	968.003	986.432	975.375	935.462	907.345	865.432
41.5	838.473	870.171	911.873	960.842	980.956	967.055	926.406	895.866	855.006
42.0	827.520	860.903	902.711	952.944	973.690	961.158	918.086	885.019	845.634
42.5	817.727	851.004	893.971	945.993	966.739	952.733	908.714	875.331	835.313
43.0	807.196	842.264	885.546	938.095	959.578	944.624	900.816	863.747	824.993
43.5	798.034	833.207	876.700	930.197	953.154	936.831	893.023	853.532	815.936
44.0	789.083	822.466	868.486	923.247	945.888	930.092	883.440	842.580	805.090
44.5	776.551	812.356	858.376	915.138	938.622	922.931	876.279	832.891	795.506
45.0	767.389	802.352	851.426	907.766	931.461	913.874	867.959	821.939	785.607
45.5	757.911	792.558	841.632	899.973	922.825	907.134	859.219	813.093	775.708
46.0	747.485	784.238	833.523	891.443	915.664	899.868	851.004	802.667	764.545
46.5	738.323	774.339	824.466	882.703	908.819	891.022	842.580	793.295	755.384
47.0	727.582	763.703	815.936	876.489	901.237	884.914	834.787	783.606	745.906
47.5	717.051	754.225	807.196	867.749	894.497	877.437	826.257	773.602	733.795
48.0	708.837	744.431	799.192	861.535	885.862	867.854	817.937	763.492	725.581
48.5	697.358	734.638	790.557	851.952	879.017	860.798	809.302	753.804	713.470
49.0	690.618	726.424	782.553	844.686	871.434	853.111	800.351	744.431	703.993
49.5	681.562	715.471	774.023	836.998	863.220	845.739	789.398	734.006	694.620
50.0	670.926	707.047	765.493	829.100	856.481	837.841	781.500	724.001	686.511
50.5	660.395	699.570	755.068	821.097	848.898	829.627	772.444	714.629	677.560
51.0	650.496	690.408	747.907	812.988	841.843	821.728	762.439	704.309	665.976
51.5	640.702	681.246	738.534	806.037	835.313	813.936	753.699	698.306	655.972
52.0	630.381	671.031	730.741	798.350	827.099	806.248	744.221	688.723	645.335
52.5	620.904	661.764	722.001	790.241	819.412	798.139	735.901	680.193	635.647
53.0	610.267	651.549	712.839	782.553	811.513	791.294	727.371	669.872	626.169
53.5	600.684	642.071	704.309	774.339	803.615	782.869	717.893	659.973	615.112
54.0	590.259	633.225	696.621	766.336	795.190	774.971	710.206	650.285	604.370
54.5	580.149	622.904	690.408	757.490	788.661	767.494	700.939	640.175	594.787

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CANDELA TABULATION - (Cont.)

55.0	569.302	613.216	682.299	749.907	780.763	758.964	695.673	631.013	584.151
55.5	559.403	604.581	673.348	741.272	772.233	750.855	687.459	621.325	573.620
56.0	549.504	594.050	664.502	732.847	765.072	743.273	678.402	611.320	564.247
56.5	540.026	584.256	655.656	725.265	756.226	733.585	668.925	600.579	553.506
57.0	529.706	574.357	647.126	716.630	748.644	725.581	660.079	591.206	542.238
57.5	520.017	565.406	639.122	708.626	739.587	716.840	651.022	580.675	532.338
58.0	510.539	555.507	629.539	700.412	730.952	708.416	641.755	571.303	522.334
58.5	500.324	545.713	620.693	694.725	722.948	701.465	633.014	561.509	511.698
59.0	490.952	536.235	612.795	688.617	715.155	694.725	623.431	551.084	502.325
59.5	480.842	526.968	603.528	678.718	706.309	686.827	614.901	541.922	491.584
60.0	471.154	517.595	593.944	670.504	701.149	678.087	605.739	532.338	482.527
60.5	461.360	508.012	584.993	663.027	693.567	669.662	597.630	522.018	471.364
61.0	450.724	498.534	576.674	653.549	685.774	660.605	588.258	513.172	461.465
61.5	441.141	488.951	568.249	644.809	677.560	651.970	579.728	502.641	451.461
62.0	431.347	479.579	559.614	636.595	668.398	644.177	569.934	493.374	441.246
62.5	421.658	470.417	550.978	628.065	659.447	634.699	561.720	483.475	431.347
63.0	412.286	460.833	542.238	619.535	651.022	626.380	552.663	474.208	421.658
63.5	402.387	451.882	533.392	610.373	642.703	617.639	543.396	464.519	411.970
64.0	392.172	442.510	524.967	601.843	634.067	609.214	534.866	454.936	401.439
64.5	381.641	433.137	515.594	592.891	624.800	601.105	525.599	445.669	391.645
65.0	372.479	424.502	506.854	584.361	616.270	591.838	517.174	436.191	381.746
65.5	363.317	415.129	498.218	576.463	608.372	583.308	508.749	426.713	372.163
66.0	353.313	405.862	490.004	566.564	599.526	574.252	499.271	417.130	362.264
66.5	344.572	396.911	480.948	558.455	590.259	565.406	490.952	407.758	352.576
67.0	334.989	388.170	472.207	549.609	581.729	556.033	481.474	398.701	343.414
67.5	325.932	379.113	463.887	540.342	572.461	547.714	473.471	389.750	334.041
68.0	316.560	370.373	454.515	532.654	564.037	539.078	464.309	380.482	324.984
68.5	307.398	361.737	446.511	523.071	555.296	529.706	455.357	371.426	314.875
69.0	298.236	352.365	437.876	515.278	546.450	521.492	446.722	362.896	305.924
69.5	288.547	343.624	429.346	506.011	537.499	512.856	438.403	353.734	295.919
70.0	279.807	334.989	420.395	497.481	528.547	503.484	429.346	344.361	286.968
70.5	271.066	325.722	412.075	488.425	519.912	495.270	420.711	335.305	277.911
71.0	261.483	317.508	403.651	480.421	511.171	486.424	412.286	326.354	268.539
71.5	252.848	308.662	395.752	471.786	502.431	478.315	403.335	317.508	259.271
72.0	243.896	300.658	386.696	462.624	493.585	469.258	395.331	309.083	249.583
72.5	235.050	292.023	378.587	454.304	485.371	461.044	386.590	300.026	240.526
73.0	226.099	283.914	369.952	445.248	476.314	451.777	378.271	291.286	232.312
73.5	217.674	275.700	361.843	436.296	467.257	443.247	369.952	282.755	223.150
74.0	209.039	267.170	353.734	428.714	458.938	434.611	361.316	274.225	214.515
74.5	199.877	258.534	344.888	419.763	449.881	426.292	353.523	265.379	205.353
75.0	191.136	250.636	336.990	411.759	441.878	417.446	345.414	257.271	197.034
75.5	183.238	242.633	329.302	402.913	433.137	409.021	336.884	248.635	188.398
76.0	174.498	234.629	321.193	395.015	424.607	400.912	329.197	240.737	179.868
76.5	166.599	226.836	313.295	386.590	415.972	392.172	320.877	232.207	172.075
77.0	158.806	219.043	305.397	378.060	407.336	384.063	312.558	224.309	163.756
77.5	150.803	211.356	297.709	370.162	399.438	375.533	304.660	215.989	155.752
78.0	142.589	203.668	290.127	361.948	390.592	367.529	297.078	208.512	147.749
78.5	134.796	196.402	282.334	353.945	382.589	359.526	289.390	200.825	139.851
79.0	127.108	188.925	275.068	345.836	374.164	351.312	281.492	193.453	132.374
79.5	120.053	181.553	267.907	338.148	366.476	344.151	274.225	185.871	124.370
80.0	112.892	174.182	260.535	330.039	358.789	335.831	266.643	178.499	117.209
80.5	105.520	167.126	253.269	322.668	350.364	328.354	259.587	171.865	109.838
81.0	98.359	160.386	246.213	314.875	342.782	320.351	252.426	164.598	102.992
81.5	91.514	153.541	239.052	307.503	334.989	312.874	245.371	157.964	96.042
82.0	84.774	147.012	232.207	300.131	326.669	305.502	238.315	151.435	89.302
82.5	78.561	140.272	225.362	293.392	319.087	297.709	231.154	145.011	82.878

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83.0	71.926	133.953	218.622	286.020	311.926	290.338	224.730	138.587	76.455
83.5	65.713	127.845	211.988	278.859	304.344	283.493	217.780	132.374	70.241
84.0	59.605	121.843	205.564	271.803	297.183	276.542	211.566	126.266	64.133
84.5	53.708	115.946	199.140	265.169	290.022	269.486	205.037	120.369	58.447
85.0	48.232	110.469	192.716	258.218	283.071	262.431	198.613	114.682	52.549
85.5	42.756	104.677	186.819	251.373	276.016	255.902	192.505	108.574	47.073
86.0	37.279	99.307	180.921	245.160	269.171	249.372	186.187	103.098	41.492
86.5	32.119	94.041	175.235	238.736	262.641	242.633	180.395	97.516	36.121
87.0	26.959	88.881	169.337	232.523	256.007	236.525	174.708	92.251	30.750
87.5	22.220	84.037	163.861	226.836	249.688	230.522	168.811	87.091	25.590
88.0	17.587	78.771	158.701	221.044	243.896	224.625	163.440	81.825	20.430
88.5	12.953	74.243	153.962	215.779	237.999	219.254	158.385	76.665	15.165
89.0	8.319	69.925	149.539	210.619	232.839	213.778	153.436	72.137	10.215
89.5	4.107	66.345	145.327	205.880	227.679	209.039	149.223	68.135	5.371
90.0	1.474	63.080	141.641	201.246	222.729	204.195	145.327	64.660	1.685
90.5	0.948	60.342	138.060	196.823	217.780	199.456	141.430	61.711	0.948
91.0	0.948	58.025	134.480	192.505	213.146	195.243	137.429	59.394	0.842
91.5	0.948	56.340	131.426	188.293	208.723	191.136	134.375	57.604	0.842
92.0	0.948	54.866	128.267	184.607	204.721	187.451	131.426	56.130	0.842
92.5	0.948	53.497	126.055	181.237	200.825	183.870	128.899	54.761	0.842
93.0	0.948	52.233	123.738	177.973	197.139	180.605	126.582	53.392	0.842
93.5	0.948	50.970	121.632	175.129	193.980	177.551	124.370	52.128	0.842
94.0	0.948	49.811	119.631	172.181	190.820	174.708	122.475	50.864	0.842
94.5	0.948	48.653	117.841	169.653	187.977	172.075	120.474	49.601	0.842
95.0	0.948	47.494	116.051	167.126	185.239	169.232	118.473	48.442	0.842
95.5	0.948	46.441	114.050	164.598	182.185	166.810	116.577	47.389	0.842
96.0	0.948	45.388	112.365	162.071	179.552	164.177	114.682	46.336	0.842
96.5	0.948	44.335	110.469	159.754	176.920	161.860	112.681	45.178	0.842
97.0	0.948	43.282	108.785	157.121	174.182	159.122	110.996	44.125	0.842
97.5	0.948	42.229	106.889	155.015	171.549	156.911	109.206	43.177	0.842
98.0	0.948	41.281	105.204	152.488	169.127	154.489	107.310	42.124	0.842
98.5	0.948	40.439	103.624	150.276	166.705	152.067	105.625	41.071	0.842
99.0	0.948	39.386	101.729	148.170	164.283	149.750	103.835	40.123	0.842
99.5	0.948	38.438	100.149	145.959	161.755	147.538	102.150	39.175	0.842
100.0	0.948	37.595	98.359	143.747	159.333	145.327	100.360	38.227	0.842
100.5	0.948	36.648	96.779	141.536	156.806	143.221	98.780	37.385	0.948
101.0	0.948	35.910	95.200	139.324	154.594	141.114	97.200	36.437	0.948
101.5	0.948	34.963	93.515	137.218	152.383	138.798	95.410	35.595	0.948
102.0	1.053	34.226	92.040	135.112	149.855	136.902	93.936	34.752	0.948
102.5	1.053	33.383	90.461	133.111	147.433	134.901	92.251	33.910	0.948
103.0	1.053	32.646	88.881	131.005	145.222	132.795	90.671	33.067	0.948
103.5	1.053	31.803	87.301	129.215	143.115	130.689	89.197	32.225	0.948
104.0	1.053	31.066	85.932	127.319	141.009	128.688	87.512	31.382	0.948
104.5	1.053	30.329	84.353	125.107	139.008	126.687	86.038	30.645	1.053
105.0	1.053	29.592	82.984	123.317	136.691	124.792	84.563	29.908	1.053
105.5	1.053	28.855	81.615	121.422	134.691	122.685	83.089	29.171	1.053
106.0	1.053	28.118	80.140	119.421	132.690	120.790	81.509	28.434	1.053
106.5	1.053	27.486	78.771	117.736	130.373	118.894	80.140	27.802	1.053
107.0	1.158	26.749	77.402	115.840	128.583	116.893	78.666	27.064	1.053
107.5	1.158	26.117	75.928	113.839	126.687	115.103	77.402	26.433	1.053
108.0	1.158	25.485	74.559	112.260	124.686	113.313	76.033	25.801	1.053
108.5	1.158	24.748	73.401	110.364	122.791	111.628	74.559	25.064	1.158
109.0	1.158	24.116	72.032	108.574	120.895	109.838	73.190	24.432	1.158
109.5	1.158	23.484	70.663	106.784	119.105	108.047	71.926	23.800	1.158
110.0	1.158	22.957	69.504	105.099	117.209	106.257	70.663	23.168	1.158
110.5	1.158	22.326	68.240	103.519	115.314	104.467	69.294	22.536	1.158

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111.0	1.158	21.694	66.977	101.834	113.629	102.992	68.030	22.010	1.158
111.5	1.264	21.167	65.818	100.254	111.838	101.202	66.661	21.378	1.158
112.0	1.264	20.535	64.555	98.464	110.154	99.517	65.502	20.746	1.158
112.5	1.264	20.009	63.291	97.095	108.363	97.938	64.239	20.219	1.264
113.0	1.264	19.482	62.238	95.305	106.573	96.358	62.975	19.588	1.264
113.5	1.264	18.956	60.869	93.725	104.783	94.568	61.817	19.061	1.264
114.0	1.264	18.324	59.816	92.251	103.308	92.988	60.658	18.534	1.264
114.5	1.264	17.797	58.657	90.671	101.518	91.514	59.394	17.903	1.264
115.0	1.264	17.376	57.499	89.197	99.939	89.934	58.131	17.376	1.264
115.5	1.264	16.744	56.340	87.723	98.254	88.354	56.972	16.849	1.264
116.0	1.264	16.323	55.287	86.038	96.674	86.880	55.814	16.323	1.369
116.5	1.264	15.796	54.129	84.669	95.094	85.406	54.761	15.902	1.369
117.0	1.264	15.270	52.971	83.089	93.409	83.826	53.602	15.375	1.369
117.5	1.264	14.743	51.917	81.720	91.935	82.352	52.444	14.849	1.369
118.0	1.264	14.322	50.970	80.140	90.355	80.878	51.391	14.322	1.369
118.5	1.264	13.796	49.917	78.771	88.881	79.403	50.338	13.901	1.369
119.0	1.264	13.374	48.864	77.402	87.301	78.034	49.285	13.374	1.369
119.5	1.264	12.848	47.810	76.033	85.722	76.665	48.232	12.953	1.369
120.0	1.264	12.426	46.757	74.454	84.247	75.086	47.073	12.426	1.369
120.5	1.264	12.005	45.704	73.295	82.668	73.717	46.125	12.005	1.474
121.0	1.264	11.479	44.756	71.821	81.088	72.347	45.072	11.584	1.474
121.5	1.264	10.952	43.809	70.452	79.824	70.978	44.125	11.057	1.474
122.0	1.264	10.531	42.861	69.083	78.139	69.609	43.177	10.636	1.474
122.5	1.264	10.110	41.808	67.714	76.770	68.135	42.229	10.215	1.474
123.0	1.264	9.688	40.860	66.450	75.296	66.871	41.176	9.794	1.474
123.5	1.264	9.267	39.912	65.081	73.822	65.608	40.228	9.373	1.474
124.0	1.264	8.846	39.070	63.712	72.453	64.239	39.280	8.951	1.474
124.5	1.264	8.425	38.122	62.448	71.084	62.764	38.333	8.530	1.580
125.0	1.264	8.004	37.174	61.185	69.715	61.501	37.385	8.109	1.580
125.5	1.264	7.582	36.226	59.921	68.240	60.237	36.437	7.688	1.580
126.0	1.264	7.266	35.279	58.763	66.871	58.973	35.489	7.266	1.580
126.5	1.264	6.845	34.436	57.499	65.502	57.709	34.647	6.845	1.580
127.0	1.264	6.424	33.594	56.235	64.028	56.446	33.804	6.529	1.580
127.5	1.264	6.108	32.751	55.077	62.764	55.182	32.857	6.108	1.580
128.0	1.264	5.687	31.803	53.813	61.501	54.129	32.014	5.792	1.685
128.5	1.264	5.371	30.856	52.655	60.237	52.971	31.172	5.476	1.685
129.0	1.264	5.055	30.013	51.391	58.868	51.707	30.329	5.160	1.685
129.5	1.264	4.844	29.276	50.233	57.604	50.548	29.487	4.950	1.685
130.0	1.369	4.528	28.539	49.074	56.340	49.390	28.749	4.634	1.685
130.5	1.369	4.318	27.591	48.021	55.077	48.337	27.907	4.423	1.790
131.0	1.369	4.107	26.854	46.968	53.813	47.073	27.064	4.212	1.790
131.5	1.369	3.896	26.117	45.810	52.549	46.020	26.327	4.002	1.790
132.0	1.369	3.686	25.274	44.756	51.286	44.862	25.485	3.791	1.790
132.5	1.369	3.475	24.537	43.598	50.127	43.809	24.748	3.581	1.790
133.0	1.369	3.370	23.800	42.440	48.969	42.650	24.011	3.475	1.896
133.5	1.369	3.265	22.957	41.387	47.705	41.597	23.168	3.370	1.896
134.0	1.369	3.159	22.115	40.333	46.652	40.439	22.431	3.265	1.896
134.5	1.369	3.054	21.272	39.280	45.388	39.386	21.694	3.159	1.896
135.0	1.369	2.949	20.430	38.227	44.230	38.333	20.957	3.054	1.896
135.5	1.369	2.843	19.693	37.069	43.072	37.279	20.219	2.949	1.896
136.0	1.369	2.738	18.850	36.016	41.913	36.226	19.482	2.843	1.896
136.5	1.369	2.738	18.113	35.068	40.755	35.173	18.850	2.843	2.001
137.0	1.369	2.633	17.271	34.120	39.596	34.120	18.113	2.738	2.001
137.5	1.369	2.633	16.534	33.067	38.543	33.172	17.376	2.738	2.001
138.0	1.369	2.527	15.796	32.014	37.490	32.119	16.744	2.633	2.001
138.5	1.369	2.527	15.165	31.066	36.437	31.172	16.112	2.633	2.001

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139.0	1.474	2.527	14.427	30.118	35.384	30.118	15.480	2.527	2.106
139.5	1.474	2.422	13.690	29.171	34.331	29.276	14.849	2.527	2.106
140.0	1.474	2.422	13.058	28.223	33.278	28.223	14.111	2.527	2.106
140.5	1.474	2.422	12.426	27.170	32.225	27.275	13.480	2.422	2.106
141.0	1.474	2.317	11.900	26.327	31.172	26.327	12.848	2.422	2.106
141.5	1.474	2.317	11.268	25.380	30.118	25.485	12.216	2.422	2.211
142.0	1.474	2.317	10.742	24.537	29.171	24.537	11.584	2.422	2.211
142.5	1.474	2.211	10.215	23.589	28.118	23.589	10.952	2.317	2.211
143.0	1.474	2.211	9.688	22.747	27.170	22.641	10.426	2.317	2.211
143.5	1.580	2.211	9.162	21.799	26.222	21.799	9.794	2.317	2.211
144.0	1.580	2.211	8.635	20.957	25.169	20.957	9.267	2.211	2.211
144.5	1.580	2.211	8.109	20.114	24.221	20.009	8.635	2.211	2.317
145.0	1.580	2.106	7.688	19.166	23.273	19.166	8.109	2.211	2.317
145.5	1.580	2.106	7.161	18.324	22.326	18.324	7.582	2.211	2.317
146.0	1.580	2.106	6.740	17.587	21.378	17.481	7.056	2.211	2.317
146.5	1.580	2.106	6.319	16.744	20.430	16.639	6.634	2.211	2.317
147.0	1.580	2.106	5.897	15.902	19.588	15.796	6.213	2.106	2.317
147.5	1.580	2.106	5.476	15.059	18.640	15.059	5.792	2.106	2.422
148.0	1.685	2.106	5.160	14.217	17.797	14.217	5.476	2.106	2.422
148.5	1.685	2.106	4.844	13.374	16.849	13.480	5.160	2.106	2.422
149.0	1.685	2.106	4.634	12.426	16.007	12.637	4.844	2.106	2.422
149.5	1.685	2.106	4.318	11.689	15.165	11.900	4.634	2.106	2.422
150.0	1.685	2.106	4.107	10.847	14.322	11.163	4.423	2.211	2.422
150.5	1.685	2.106	4.002	10.110	13.480	10.426	4.212	2.106	2.527
151.0	1.685	2.106	3.791	9.373	12.637	9.688	4.002	2.106	2.527
151.5	1.790	2.106	3.686	8.741	11.900	9.057	3.896	2.211	2.527
152.0	1.790	2.211	3.581	8.004	11.057	8.319	3.686	2.211	2.527
152.5	1.790	2.211	3.475	7.477	10.320	7.688	3.581	2.211	2.527
153.0	1.790	2.211	3.370	6.950	9.478	7.056	3.475	2.211	2.527
153.5	1.790	2.211	3.265	6.424	8.741	6.529	3.370	2.211	2.527
154.0	1.790	2.211	3.159	5.897	8.004	6.108	3.265	2.211	2.633
154.5	1.896	2.211	3.054	5.476	7.372	5.581	3.159	2.211	2.633
155.0	1.896	2.211	2.949	5.055	6.740	5.160	3.054	2.211	2.633
155.5	1.896	2.317	2.949	4.739	6.213	4.844	3.054	2.211	2.633
156.0	1.896	2.317	2.843	4.423	5.687	4.528	2.949	2.317	2.633
156.5	2.001	2.317	2.843	4.107	5.265	4.212	2.843	2.317	2.633
157.0	2.001	2.317	2.738	3.896	4.844	4.002	2.843	2.317	2.633
157.5	2.001	2.317	2.738	3.791	4.423	3.791	2.738	2.317	2.633
158.0	2.001	2.317	2.633	3.581	4.212	3.581	2.738	2.317	2.738
158.5	2.001	2.422	2.633	3.475	3.896	3.475	2.633	2.317	2.738
159.0	2.106	2.422	2.527	3.265	3.686	3.265	2.633	2.422	2.738
159.5	2.106	2.422	2.527	3.159	3.475	3.159	2.527	2.422	2.738
160.0	2.106	2.422	2.527	3.054	3.370	3.054	2.527	2.422	2.738
160.5	2.106	2.422	2.422	2.949	3.159	2.949	2.527	2.422	2.738
161.0	2.106	2.422	2.422	2.843	3.054	2.843	2.422	2.422	2.738
161.5	2.211	2.422	2.422	2.843	2.949	2.843	2.422	2.422	2.738
162.0	2.211	2.527	2.422	2.738	2.843	2.738	2.422	2.422	2.738
162.5	2.211	2.527	2.422	2.633	2.738	2.633	2.422	2.527	2.738
163.0	2.211	2.527	2.422	2.527	2.633	2.633	2.422	2.527	2.843
163.5	2.211	2.527	2.422	2.527	2.527	2.527	2.422	2.527	2.843
164.0	2.317	2.527	2.422	2.422	2.527	2.422	2.422	2.527	2.843
164.5	2.317	2.527	2.422	2.422	2.422	2.422	2.422	2.527	2.843
165.0	2.317	2.633	2.422	2.422	2.422	2.422	2.422	2.527	2.843
165.5	2.317	2.633	2.422	2.422	2.317	2.422	2.422	2.633	2.843
166.0	2.422	2.633	2.527	2.422	2.317	2.317	2.527	2.633	2.843
166.5	2.422	2.633	2.527	2.422	2.317	2.317	2.527	2.633	2.843

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167.0	2.422	2.633	2.527	2.317	2.211	2.317	2.527	2.633	2.843
167.5	2.422	2.633	2.527	2.317	2.211	2.317	2.527	2.633	2.843
168.0	2.422	2.633	2.527	2.317	2.211	2.317	2.527	2.633	2.843
168.5	2.527	2.738	2.527	2.317	2.211	2.317	2.527	2.633	2.843
169.0	2.527	2.738	2.527	2.422	2.211	2.422	2.527	2.738	2.843
169.5	2.527	2.738	2.527	2.422	2.211	2.422	2.527	2.738	2.843
170.0	2.527	2.738	2.527	2.422	2.211	2.317	2.527	2.738	2.843
170.5	2.527	2.738	2.527	2.422	2.211	2.422	2.527	2.738	2.843
171.0	2.527	2.738	2.633	2.422	2.211	2.422	2.527	2.738	2.843
171.5	2.527	2.738	2.633	2.422	2.211	2.422	2.633	2.738	2.843
172.0	2.527	2.738	2.633	2.422	2.211	2.422	2.633	2.738	2.843
172.5	2.633	2.738	2.633	2.422	2.317	2.422	2.633	2.738	2.843
173.0	2.633	2.738	2.633	2.422	2.317	2.422	2.633	2.738	2.843
173.5	2.633	2.738	2.633	2.422	2.317	2.422	2.633	2.738	2.843
174.0	2.633	2.738	2.633	2.422	2.317	2.422	2.633	2.738	2.843
174.5	2.633	2.738	2.633	2.422	2.317	2.422	2.633	2.738	2.843
175.0	2.633	2.738	2.633	2.422	2.317	2.422	2.633	2.738	2.843
175.5	2.738	2.738	2.633	2.422	2.317	2.422	2.633	2.738	2.843
176.0	2.738	2.738	2.633	2.422	2.317	2.422	2.633	2.738	2.843
176.5	2.738	2.738	2.633	2.527	2.317	2.422	2.633	2.738	2.843
177.0	2.738	2.843	2.633	2.527	2.317	2.422	2.633	2.843	2.843
177.5	2.738	2.843	2.633	2.527	2.317	2.422	2.633	2.843	2.843
178.0	2.738	2.843	2.633	2.527	2.317	2.527	2.633	2.843	2.843
178.5	2.738	2.843	2.633	2.527	2.317	2.527	2.633	2.843	2.843
179.0	2.843	2.843	2.633	2.527	2.317	2.527	2.738	2.843	2.843
179.5	2.843	2.843	2.633	2.527	2.317	2.527	2.633	2.843	2.843
180.0	2.633	2.633	2.633	2.633	2.633	2.633	2.633	2.633	2.633

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_32W_3500K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	492.99	N.A.	11.40
0-30	1035.57	N.A.	24.00
0-40	1679.02	N.A.	38.80
0-60	2955.65	N.A.	68.40
0-80	3809.34	N.A.	88.10
0-90	4012.32	N.A.	92.80
10-90	3883.86	N.A.	89.80
20-40	1186.03	N.A.	27.40
20-50	1849.5	N.A.	42.80
40-70	1778.75	N.A.	41.10
60-80	853.70	N.A.	19.70
70-80	351.57	N.A.	8.10
80-90	202.97	N.A.	4.70
90-110	198.99	N.A.	4.60
90-120	252.75	N.A.	5.80
90-130	284.94	N.A.	6.60
90-150	308.42	N.A.	7.10
90-180	311.30	N.A.	7.20
110-180	112.30	N.A.	2.60
0-180	4323.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	128.46
10-20	364.53
20-30	542.58
30-40	643.45
40-50	663.46
50-60	613.16
60-70	502.12
70-80	351.57
80-90	202.97
90-100	117.53
100-110	81.46
110-120	53.76
120-130	32.19
130-140	16.69
140-150	6.79
150-160	1.92
160-170	0.72
170-180	0.25

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_32W_3500K_.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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	106	100	96	91	102	97	93	89	92	88	85	87	84	81	82	79	77	75
2	96	87	80	73	92	84	78	72	80	74	69	75	71	66	71	67	64	61
3	87	76	67	61	84	74	66	60	70	63	58	66	60	56	63	58	54	51
4	80	67	58	51	77	65	57	50	62	55	49	59	52	47	56	50	46	44
5	73	60	51	44	70	58	50	43	55	48	42	53	46	41	50	44	40	38
6	67	54	45	38	65	52	44	38	50	42	37	48	41	36	45	40	35	33
7	62	49	40	34	60	48	39	33	45	38	33	43	37	32	41	36	31	29
8	58	44	36	30	56	43	35	30	42	34	29	40	33	28	38	32	28	26
9	54	41	33	27	53	40	32	27	38	31	26	37	30	26	35	29	25	23
10	51	38	30	24	49	37	29	24	35	28	24	34	28	23	33	27	23	21

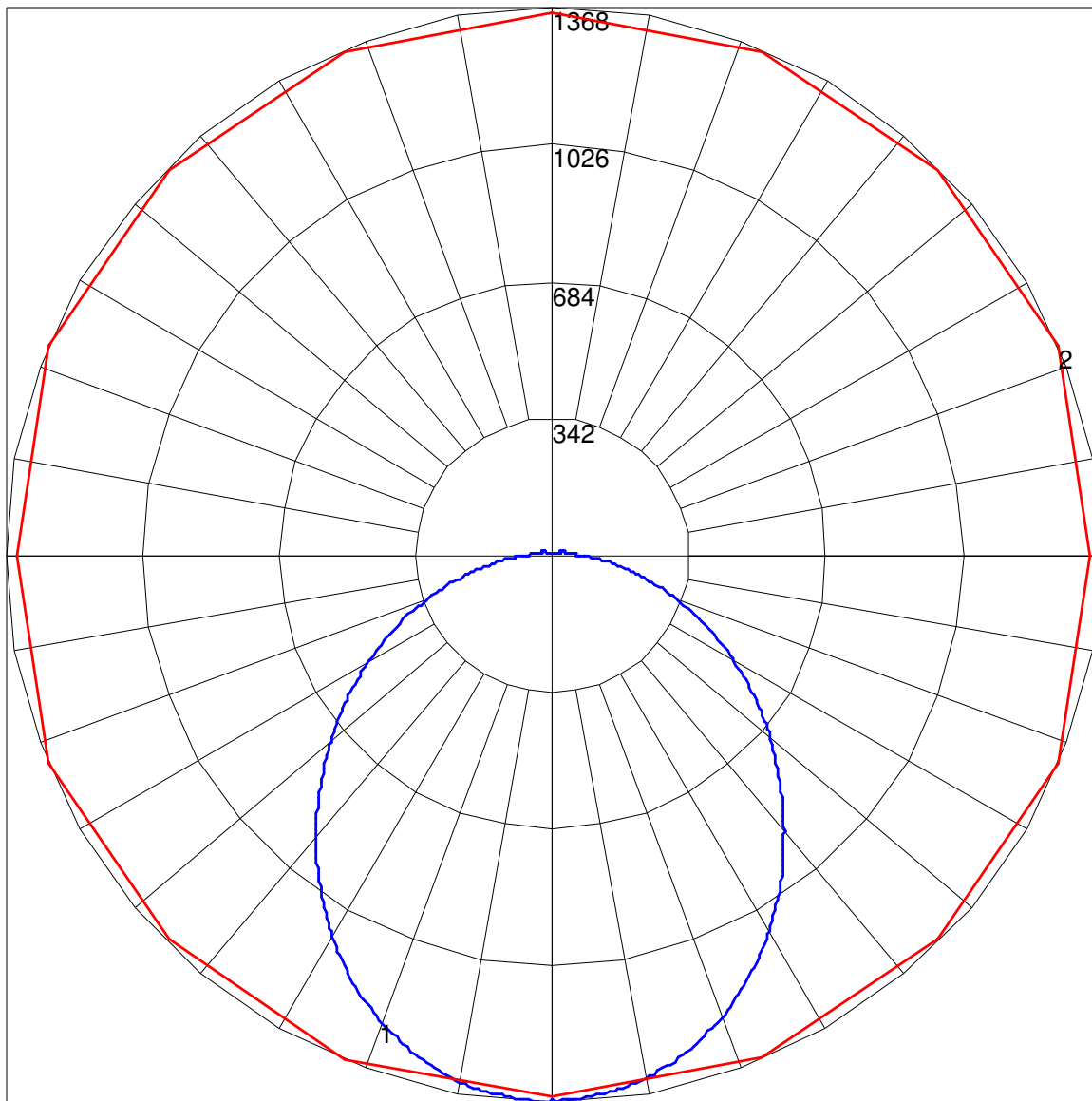
IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_32W_3500K_.IES

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	19.9	21.5	20.4	21.9	22.4	22.4	23.9	22.8	24.4	24.8
	3H	21.4	22.8	21.9	23.3	23.8	24.8	26.2	25.3	26.6	27.2
	4H	21.9	23.2	22.4	23.7	24.2	25.9	27.2	26.4	27.7	28.3
	6H	22.2	23.4	22.7	23.9	24.5	27.0	28.3	27.6	28.8	29.3
	8H	22.3	23.4	22.8	24.0	24.5	27.6	28.8	28.2	29.3	29.9
	12H	22.3	23.4	22.8	23.9	24.5	28.2	29.4	28.8	29.9	30.5
4H	2H	20.9	22.2	21.4	22.7	23.2	22.8	24.1	23.3	24.6	25.1
	3H	22.6	23.7	23.1	24.3	24.8	25.5	26.6	26.0	27.1	27.7
	4H	23.2	24.2	23.7	24.8	25.4	26.7	27.8	27.3	28.3	28.9
	6H	23.6	24.5	24.2	25.1	25.7	28.1	29.0	28.6	29.5	30.1
	8H	23.7	24.6	24.3	25.2	25.8	28.7	29.6	29.3	30.1	30.8
	12H	23.8	24.6	24.4	25.2	25.8	29.5	30.2	30.0	30.8	31.5
8H	4H	23.9	24.8	24.5	25.3	25.9	26.9	27.8	27.5	28.4	29.0
	6H	24.5	25.2	25.1	25.8	26.5	28.4	29.2	29.0	29.8	30.4
	8H	24.7	25.4	25.3	26.0	26.6	29.3	29.9	29.9	30.5	31.1
	12H	24.8	25.4	25.5	26.0	26.7	30.2	30.7	30.8	31.3	32.0
12H	4H	24.1	24.9	24.7	25.5	26.1	26.9	27.7	27.5	28.3	28.9
	6H	24.8	25.5	25.4	26.0	26.7	28.5	29.1	29.1	29.7	30.4
	8H	25.1	25.7	25.7	26.3	27.0	29.3	29.9	29.9	30.5	31.2

Maximum UGR = 32.0

POLAR GRAPH



Maximum Candela = 1367.968 Located At Horizontal Angle = 157.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (157.5 - 337.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)