



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75S-4-L50-940-DIM-UNV\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]GEN FROM 12099782.02  
[TESTLAB] UL Verification Services Inc.  
[ISSUE DATE] 15 JUL, 2024  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] 75S-4-L50-940-DIM-UNV  
[LUMINAIRE] White formed steel housing, frosted plastic lens enclosure  
[LAMP] 112 white LEDs  
[OTHER] 25.2 C, 119.951 V, 0.361682 A, 43.2111 W, 0.996014 PF, 59.9979  
[MORE] Hz  
[OTHER] This test was performed using the calibrated photodetector met  
[MORE] hod of absolute photometry.

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4186
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	33
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.71 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.08 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15201	12255	11631
55	12974	10320	10303
65	10649	8711	9440
75	8301	7403	8434
85	5619	6342	7204

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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	1385.294	1385.294	1385.294	1385.294	1385.294
0.5	1397.409	1388.145	1379.594	1386.007	1378.168
1.0	1398.121	1388.145	1378.881	1384.582	1378.881
1.5	1397.409	1387.432	1378.881	1385.294	1378.168
2.0	1398.121	1387.432	1378.881	1384.582	1377.456
2.5	1395.983	1386.720	1377.456	1384.582	1377.456
3.0	1395.271	1386.007	1377.456	1383.157	1377.456
3.5	1395.983	1384.582	1376.031	1383.869	1377.456
4.0	1393.846	1383.869	1375.318	1382.444	1376.031
4.5	1393.133	1382.444	1374.605	1381.731	1376.031
5.0	1390.995	1381.019	1373.893	1380.306	1373.180
5.5	1390.283	1379.594	1371.755	1379.594	1373.893
6.0	1386.720	1377.456	1370.330	1377.456	1371.755
6.5	1386.007	1376.031	1368.905	1376.031	1371.755
7.0	1384.582	1373.893	1366.767	1374.605	1368.192
7.5	1381.019	1372.468	1365.342	1373.180	1366.767
8.0	1379.594	1370.330	1362.491	1370.330	1364.629
8.5	1376.743	1367.479	1361.066	1368.905	1363.204
9.0	1374.605	1365.342	1357.503	1366.054	1359.641
9.5	1371.042	1362.491	1356.078	1363.916	1357.503
10.0	1368.905	1359.641	1353.227	1361.066	1356.078
10.5	1365.342	1356.790	1351.090	1358.216	1351.802
11.0	1362.491	1353.227	1346.814	1355.365	1349.664
11.5	1358.928	1350.377	1343.964	1351.802	1346.101
12.0	1355.365	1346.814	1340.401	1348.239	1342.538
12.5	1352.515	1343.251	1338.263	1345.389	1339.688
13.0	1347.527	1340.401	1333.275	1341.113	1335.412
13.5	1343.964	1335.412	1329.712	1336.838	1331.849
14.0	1340.401	1331.849	1325.436	1333.275	1327.574
14.5	1334.700	1326.861	1321.160	1328.286	1322.586
15.0	1331.137	1323.298	1316.885	1324.011	1319.023
15.5	1325.436	1318.310	1312.609	1319.735	1314.034
16.0	1321.160	1314.034	1307.621	1315.460	1309.759
16.5	1316.885	1308.334	1303.345	1309.759	1304.771
17.0	1311.184	1303.345	1297.645	1304.771	1300.495
17.5	1305.483	1298.357	1292.656	1299.782	1294.794
18.0	1300.495	1291.944	1287.668	1294.082	1289.093
18.5	1294.082	1286.956	1281.967	1289.093	1282.680
19.0	1287.668	1281.255	1276.267	1283.393	1277.692
19.5	1282.680	1275.554	1270.566	1276.979	1271.278
20.0	1276.267	1269.141	1264.865	1270.566	1266.290
20.5	1270.566	1262.727	1257.739	1264.152	1259.164
21.0	1263.440	1256.314	1252.038	1257.739	1252.751
21.5	1257.026	1249.900	1244.912	1251.326	1244.912
22.0	1249.900	1242.774	1238.499	1243.487	1239.211
22.5	1243.487	1235.648	1232.085	1237.074	1231.373
23.0	1235.648	1228.522	1224.959	1229.235	1224.247
23.5	1228.522	1221.396	1217.833	1222.109	1217.833
24.0	1220.684	1213.558	1209.995	1214.983	1209.282
24.5	1212.845	1206.432	1202.869	1207.857	1201.444
25.0	1205.719	1199.306	1195.030	1199.306	1192.180
25.5	1197.881	1191.467	1187.192	1191.467	1186.479
26.0	1189.329	1182.203	1178.640	1182.916	1176.503
26.5	1180.778	1175.077	1170.802	1175.077	1169.377

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**CANDELA TABULATION - (Cont.)**

27.0	1172.940	1166.526	1162.251	1165.814	1160.825
27.5	1163.676	1157.975	1154.412	1158.688	1152.274
28.0	1155.125	1149.424	1145.861	1148.711	1143.010
28.5	1145.861	1140.873	1136.597	1140.873	1135.172
29.0	1136.597	1130.896	1128.046	1130.896	1125.908
29.5	1127.333	1122.345	1118.782	1122.345	1117.357
30.0	1118.069	1113.081	1110.231	1113.081	1108.093
30.5	1109.518	1103.817	1100.254	1103.817	1099.542
31.0	1098.829	1093.841	1091.703	1094.554	1089.565
31.5	1089.565	1085.290	1081.727	1085.290	1081.014
32.0	1080.302	1074.601	1072.463	1076.026	1071.750
32.5	1069.613	1065.337	1063.199	1066.762	1061.774
33.0	1059.636	1055.361	1053.935	1056.786	1052.510
33.5	1048.947	1046.097	1043.959	1047.522	1042.534
34.0	1038.971	1035.408	1035.408	1037.546	1033.983
34.5	1028.282	1025.431	1024.719	1028.282	1024.006
35.0	1017.593	1014.030	1014.742	1018.305	1016.168
35.5	1006.904	1004.053	1005.479	1009.042	1004.053
36.0	996.927	994.077	994.790	999.065	995.502
36.5	986.238	982.675	984.813	989.089	985.526
37.0	974.124	971.986	974.124	979.112	976.262
37.5	964.148	961.297	963.435	969.136	966.286
38.0	952.034	949.896	953.459	959.872	957.022
38.5	941.345	939.207	942.770	949.896	947.045
39.0	929.943	928.518	932.793	939.919	937.782
39.5	917.829	917.829	922.104	929.943	928.518
40.0	906.427	906.427	911.415	919.967	918.541
40.5	894.313	895.026	900.726	910.703	909.278
41.0	882.911	884.337	890.750	900.014	899.301
41.5	871.510	872.935	880.061	890.037	890.750
42.0	859.396	861.533	870.085	880.774	880.774
42.5	847.281	850.844	858.683	870.085	871.510
43.0	835.167	838.730	848.707	860.821	861.533
43.5	823.766	827.329	838.018	850.844	852.982
44.0	811.651	815.927	828.041	840.868	843.718
44.5	800.250	805.238	816.640	831.604	834.455
45.0	788.136	793.124	806.663	821.628	825.191
45.5	776.734	781.722	795.974	812.364	816.640
46.0	764.620	769.608	785.998	803.100	807.376
46.5	752.506	758.919	774.596	793.836	798.825
47.0	740.391	746.805	764.620	783.860	790.986
47.5	728.277	735.403	754.643	775.309	781.722
48.0	716.876	723.289	743.954	766.045	773.884
48.5	704.334	712.030	733.265	757.494	764.620
49.0	692.576	700.486	723.289	748.230	758.206
49.5	680.034	689.155	713.313	739.679	748.943
50.0	667.635	677.896	703.194	731.128	741.104
50.5	655.663	666.281	692.718	721.864	733.265
51.0	644.404	654.808	682.671	714.025	725.427
51.5	632.005	643.905	672.908	705.403	718.301
52.0	620.105	632.718	662.647	696.923	709.892
52.5	608.347	621.815	653.169	688.087	702.552
53.0	596.446	610.912	643.407	680.604	694.999
53.5	585.116	599.938	634.000	672.409	687.231
54.0	573.643	589.035	623.881	664.286	680.034
54.5	561.956	578.275	614.546	656.233	672.837

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**CANDELA TABULATION - (Cont.)**

55.0	550.769	567.301	605.211	648.466	665.355
55.5	539.153	556.826	595.734	640.627	658.371
56.0	528.322	546.350	586.256	632.504	651.245
56.5	517.134	535.590	577.135	624.950	644.475
57.0	505.946	525.329	567.657	617.610	637.349
57.5	494.901	515.139	559.177	610.057	630.223
58.0	484.354	504.521	550.056	602.218	623.881
58.5	473.523	494.259	540.935	595.235	616.827
59.0	462.335	484.140	532.383	587.824	610.128
59.5	451.788	474.235	523.547	580.769	603.358
60.0	440.814	463.974	515.139	573.358	597.159
60.5	430.197	454.069	506.374	566.660	590.460
61.0	419.508	444.520	497.894	559.177	584.261
61.5	408.890	434.472	489.271	552.336	576.992
62.0	398.415	424.852	481.219	545.210	571.006
62.5	388.438	415.660	472.881	538.298	564.023
63.0	377.749	406.111	464.686	531.101	557.396
63.5	367.773	396.562	456.634	524.402	550.982
64.0	357.868	387.441	448.867	517.276	544.498
64.5	347.963	378.533	440.601	510.079	537.443
65.0	338.271	369.554	432.762	503.523	530.958
65.5	328.651	360.647	424.781	496.468	524.331
66.0	319.031	351.811	417.227	489.556	517.633
66.5	309.553	343.046	409.602	482.501	510.649
67.0	300.361	334.708	401.906	475.660	503.666
67.5	291.168	326.086	394.424	468.321	497.110
68.0	282.047	317.748	386.942	461.694	490.340
68.5	273.068	309.340	379.531	454.568	483.072
69.0	264.161	301.145	372.191	447.727	476.159
69.5	255.610	293.164	364.994	440.672	469.105
70.0	246.916	284.969	357.725	433.902	461.765
70.5	238.436	277.201	350.670	426.634	454.995
71.0	230.170	269.220	343.687	420.078	448.012
71.5	221.761	261.738	336.775	413.023	440.743
72.0	213.637	254.042	329.934	406.396	433.190
72.5	205.443	246.631	323.022	399.127	426.135
73.0	197.604	239.220	316.608	392.643	418.938
73.5	189.623	232.094	309.696	385.517	411.455
74.0	181.927	225.110	303.140	378.604	404.472
74.5	174.444	218.056	296.513	371.763	397.203
75.0	166.962	211.143	290.242	364.780	389.721
75.5	159.551	204.516	283.686	358.010	382.595
76.0	152.354	197.818	277.344	351.098	375.326
76.5	145.299	191.476	271.144	344.186	368.129
77.0	138.458	184.920	264.945	337.487	361.003
77.5	131.617	178.720	258.816	330.718	354.020
78.0	124.919	172.520	252.759	324.019	346.537
78.5	118.363	166.463	246.702	317.392	339.554
79.0	111.949	160.478	240.645	310.694	332.285
79.5	105.607	154.420	234.873	304.280	325.444
80.0	99.479	148.720	229.030	297.653	317.962
80.5	93.493	143.019	223.186	291.097	311.264
81.0	87.507	137.389	217.486	284.612	304.280
81.5	81.735	131.831	211.998	278.057	297.510
82.0	75.963	126.486	206.298	271.857	290.598
82.5	70.405	121.142	200.953	265.515	283.615

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**CANDELA TABULATION - (Cont.)**

83.0	64.918	115.869	195.609	259.173	277.059
83.5	59.502	110.809	190.193	252.902	270.218
84.0	54.300	105.750	184.920	246.773	263.662
84.5	49.169	100.762	179.789	240.574	256.892
85.0	44.110	96.058	174.658	234.445	250.408
85.5	39.122	91.284	169.528	228.460	244.065
86.0	34.276	86.581	164.539	222.545	237.723
86.5	29.573	82.020	159.480	216.630	231.595
87.0	24.870	77.460	154.563	210.787	225.609
87.5	20.309	73.041	149.789	205.300	219.481
88.0	15.820	68.552	144.943	199.671	213.780
88.5	11.330	64.277	140.667	194.611	208.150
89.0	6.841	60.571	136.748	189.908	203.376
89.5	2.423	57.721	133.612	185.846	198.958
90.0	0.143	55.369	130.620	181.856	194.540
90.5	0.000	53.374	127.840	178.221	190.549
91.0	0.000	52.091	125.489	174.730	186.630
91.5	0.000	51.378	123.921	171.808	183.281
92.0	0.000	51.236	122.567	169.456	180.288
92.5	0.000	51.093	121.570	167.318	177.936
93.0	0.000	50.951	120.714	165.466	175.371
93.5	0.000	50.808	120.073	163.613	173.233
94.0	0.000	50.595	119.289	161.974	171.309
94.5	0.000	50.381	118.434	160.549	169.385
95.0	0.000	50.167	117.722	158.981	167.675
95.5	0.000	50.025	117.009	157.413	165.822
96.0	0.000	49.811	116.225	155.988	164.041
96.5	0.000	49.597	115.512	154.634	162.402
97.0	0.000	49.312	114.800	153.280	160.976
97.5	0.000	49.169	114.016	152.069	159.409
98.0	0.000	48.956	113.232	150.715	157.912
98.5	0.000	48.742	112.520	149.503	156.629
99.0	0.000	48.528	111.807	148.221	155.276
99.5	0.000	48.314	111.094	147.009	153.922
100.0	0.000	48.100	110.310	145.940	152.568
100.5	0.000	47.815	109.527	144.872	151.427
101.0	0.000	47.673	108.885	143.660	150.359
101.5	0.000	47.459	108.173	142.663	149.076
102.0	0.000	47.174	107.389	141.451	147.936
102.5	0.000	46.960	106.747	140.525	146.938
103.0	0.000	46.675	106.035	139.456	145.869
103.5	0.000	46.462	105.322	138.672	144.800
104.0	0.000	46.248	104.610	137.603	143.874
104.5	0.000	45.963	103.897	136.748	142.876
105.0	0.000	45.678	103.184	135.750	142.021
105.5	0.000	45.464	102.614	134.966	141.095
106.0	0.000	45.250	101.902	134.111	140.311
106.5	0.000	44.965	101.260	133.327	139.385
107.0	0.000	44.680	100.619	132.472	138.672
107.5	0.000	44.395	99.978	131.688	137.888
108.0	0.000	44.110	99.336	130.905	137.033
108.5	0.000	43.896	98.695	129.978	136.320
109.0	0.000	43.611	97.982	129.266	135.537
109.5	0.000	43.326	97.412	128.553	134.753
110.0	0.000	43.041	96.700	127.698	134.040
110.5	0.000	42.756	96.058	126.914	133.327

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**CANDELA TABULATION - (Cont.)**

111.0	0.000	42.471	95.417	126.201	132.472
111.5	0.000	42.186	94.776	125.346	131.902
112.0	0.000	41.901	94.063	124.634	131.118
112.5	0.000	41.616	93.422	123.921	130.335
113.0	0.000	41.331	92.781	123.137	129.764
113.5	0.000	40.974	92.068	122.353	128.981
114.0	0.000	40.689	91.498	121.570	128.339
114.5	0.000	40.333	90.714	120.786	127.627
115.0	0.000	40.048	90.073	120.002	126.914
115.5	0.000	39.763	89.431	119.289	126.273
116.0	0.000	39.407	88.719	118.505	125.489
116.5	0.000	39.050	87.935	117.650	124.848
117.0	0.000	38.694	87.293	116.866	124.064
117.5	0.000	38.338	86.581	116.154	123.209
118.0	0.000	38.053	85.868	115.299	122.567
118.5	0.000	37.625	85.084	114.444	121.641
119.0	0.000	37.269	84.372	113.588	120.928
119.5	0.000	36.913	83.659	112.805	120.002
120.0	0.000	36.414	82.875	111.949	119.218
120.5	0.000	35.915	82.163	111.023	118.434
121.0	0.000	35.416	81.379	110.239	117.579
121.5	0.000	34.917	80.595	109.242	116.724
122.0	0.000	34.347	79.882	108.386	115.797
122.5	0.000	33.706	79.027	107.389	115.014
123.0	0.000	33.136	78.243	106.534	114.087
123.5	0.000	32.495	77.460	105.536	113.161
124.0	0.000	31.996	76.676	104.610	112.234
124.5	0.000	31.426	75.821	103.612	111.308
125.0	0.000	30.927	75.037	102.614	110.239
125.5	0.000	30.357	74.110	101.617	109.384
126.0	0.000	29.858	73.184	100.619	108.315
126.5	0.000	29.288	72.115	99.550	107.460
127.0	0.000	28.718	71.046	98.553	106.249
127.5	0.000	28.148	69.906	97.484	105.322
128.0	0.000	27.649	68.837	96.415	104.182
128.5	0.000	27.079	67.697	95.417	103.042
129.0	0.000	26.580	66.486	94.277	101.973
129.5	0.000	26.010	65.417	93.279	100.904
130.0	0.000	25.511	64.277	92.139	99.693
130.5	0.000	25.012	63.208	90.928	98.624
131.0	0.000	24.513	62.067	89.930	97.412
131.5	0.000	24.015	60.927	88.790	96.201
132.0	0.000	23.516	59.787	87.579	95.061
132.5	0.000	23.088	58.718	86.510	93.849
133.0	0.000	22.661	57.649	85.369	92.638
133.5	0.000	22.233	56.652	84.158	91.498
134.0	0.000	21.806	55.512	83.018	90.215
134.5	0.000	21.378	54.443	81.878	89.075
135.0	0.000	21.022	53.374	80.738	87.864
135.5	0.000	20.665	52.305	79.526	86.723
136.0	0.000	20.238	51.165	78.315	85.441
136.5	0.000	19.882	49.953	77.103	84.229
137.0	0.000	19.454	48.813	75.963	83.018
137.5	0.000	19.098	47.673	74.752	81.806
138.0	0.000	18.741	46.604	73.540	80.524
138.5	0.000	18.314	45.606	72.400	79.312

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

139.0	0.000	17.886	44.680	71.117	78.101
139.5	0.000	17.530	43.754	69.906	76.747
140.0	0.000	17.102	42.899	68.695	75.536
140.5	0.000	16.746	42.043	67.341	74.253
141.0	0.000	16.390	41.117	65.915	72.899
141.5	0.000	16.105	40.262	64.562	71.688
142.0	0.000	15.748	39.407	63.136	70.405
142.5	0.000	15.463	38.480	61.640	69.122
143.0	0.000	15.107	37.554	60.143	67.911
143.5	0.000	14.751	36.628	58.718	66.557
144.0	0.000	14.466	35.701	57.293	65.345
144.5	0.000	14.038	34.775	55.797	64.063
145.0	0.000	13.753	33.848	54.371	62.851
145.5	0.000	13.326	32.922	52.946	61.569
146.0	0.000	12.969	32.067	51.592	60.286
146.5	0.000	12.542	31.212	50.167	59.003
147.0	0.000	12.185	30.285	48.813	57.792
147.5	0.000	11.687	29.430	47.459	56.509
148.0	0.000	11.330	28.575	46.105	55.298
148.5	0.000	10.903	27.791	44.680	54.015
149.0	0.000	10.475	27.008	43.112	52.804
149.5	0.000	10.119	26.366	41.616	51.521
150.0	0.000	9.763	25.654	40.191	50.238
150.5	0.000	9.335	25.012	38.979	48.956
151.0	0.000	9.050	24.442	37.839	47.744
151.5	0.000	8.694	23.801	36.628	46.533
152.0	0.000	8.337	23.231	35.345	45.250
152.5	0.000	8.052	22.589	34.276	44.039
153.0	0.000	7.696	22.019	33.065	42.827
153.5	0.000	7.411	21.378	31.924	41.616
154.0	0.000	7.126	20.808	30.856	40.333
154.5	0.000	6.841	20.238	29.787	39.193
155.0	0.000	6.556	19.596	28.718	37.982
155.5	0.000	6.200	19.026	27.791	36.628
156.0	0.000	5.986	18.385	26.794	35.416
156.5	0.000	5.701	17.815	25.796	34.276
157.0	0.000	5.416	17.174	24.870	32.993
157.5	0.000	5.131	16.604	23.943	31.711
158.0	0.000	4.846	15.962	23.088	30.499
158.5	0.000	4.561	15.392	22.233	29.359
159.0	0.000	4.276	14.751	21.307	28.219
159.5	0.000	3.991	14.181	20.523	27.079
160.0	0.000	3.777	13.539	19.739	25.867
160.5	0.000	3.492	12.827	18.884	24.727
161.0	0.071	3.278	12.185	18.100	23.801
161.5	0.000	2.993	11.544	17.316	23.017
162.0	0.071	2.779	10.903	16.532	22.019
162.5	0.071	2.565	10.261	15.748	20.950
163.0	0.000	2.352	9.620	14.965	20.095
163.5	0.071	2.138	9.050	14.181	19.240
164.0	0.071	1.924	8.409	13.397	18.314
164.5	0.071	1.710	7.839	12.613	17.459
165.0	0.000	1.496	7.340	11.900	16.604
165.5	0.071	1.354	6.770	11.117	15.677
166.0	0.000	1.211	6.271	10.333	14.822
166.5	0.071	0.998	5.772	9.620	13.896

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

167.0	0.000	0.855	5.344	8.907	13.041
167.5	0.000	0.713	4.846	8.124	12.185
168.0	0.000	0.570	4.347	7.411	11.330
168.5	0.071	0.428	3.919	6.698	10.475
169.0	0.000	0.356	3.492	5.986	9.620
169.5	0.071	0.285	3.064	5.344	8.337
170.0	0.000	0.214	2.708	4.703	6.485
170.5	0.071	0.214	2.423	4.062	5.843
171.0	0.071	0.143	2.067	3.492	4.632
171.5	0.000	0.071	1.710	2.922	2.565
172.0	0.000	0.071	1.425	2.423	2.067
172.5	0.000	0.000	1.140	1.995	1.781
173.0	0.000	0.000	0.855	1.639	1.425
173.5	0.000	0.000	0.570	1.283	1.140
174.0	0.000	0.000	0.428	0.998	0.784
174.5	0.000	0.000	0.285	0.784	0.428
175.0	0.000	0.000	0.143	0.570	0.356
175.5	0.000	0.000	0.071	0.356	0.214
176.0	0.000	0.000	0.000	0.143	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**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	503.67	N.A.	12.00
0-30	1054.81	N.A.	25.20
0-40	1689.71	N.A.	40.40
0-60	2856.96	N.A.	68.20
0-80	3591.96	N.A.	85.80
0-90	3771.43	N.A.	90.10
10-90	3640.4	N.A.	87.00
20-40	1186.04	N.A.	28.30
20-50	1809.07	N.A.	43.20
40-70	1598.93	N.A.	38.20
60-80	735.00	N.A.	17.60
70-80	303.32	N.A.	7.20
80-90	179.47	N.A.	4.30
90-110	207.11	N.A.	4.90
90-120	284.93	N.A.	6.80
90-130	344.01	N.A.	8.20
90-150	403.89	N.A.	9.60
90-180	415.01	N.A.	9.90
110-180	207.91	N.A.	5.00
0-180	4186.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	131.02
10-20	372.65
20-30	551.14
30-40	634.90
40-50	623.03
50-60	544.22
60-70	431.68
70-80	303.32
80-90	179.47
90-100	112.79
100-110	94.32
110-120	77.82
120-130	59.08
130-140	38.70
140-150	21.18
150-160	8.79
160-170	2.24
170-180	0.10

**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	100	100	100	100	97	97	97	97	91	91	91	85	85	85	80	80	80	77
1	91	86	82	79	87	84	80	77	78	75	73	73	71	69	69	67	65	63
2	82	75	69	64	79	73	67	62	68	64	60	64	60	57	60	57	55	52
3	75	66	59	53	72	64	57	52	60	55	50	57	52	48	53	50	46	44
4	69	58	51	45	66	57	50	44	54	48	43	51	45	41	48	43	40	38
5	63	52	45	39	61	51	44	38	48	42	37	45	40	36	43	38	35	33
6	59	47	40	34	56	46	39	34	43	37	33	41	36	32	39	34	31	29
7	54	43	35	30	52	42	35	30	40	33	29	38	32	28	36	31	27	26
8	51	39	32	27	49	38	31	27	36	30	26	35	29	25	33	28	25	23
9	47	36	29	24	46	35	28	24	33	28	23	32	27	23	30	26	22	21
10	44	33	26	22	43	32	26	22	31	25	21	30	24	21	28	24	20	19

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75S-4-L50-940-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	18.6	20.0	19.1	20.6	21.1	20.8	22.3	21.3	22.8	23.3
	3H	19.9	21.2	20.4	21.7	22.3	23.3	24.6	23.8	25.1	25.7
	4H	20.3	21.5	20.9	22.1	22.7	24.4	25.7	25.0	26.2	26.8
	6H	20.5	21.7	21.1	22.2	22.8	25.6	26.7	26.1	27.3	27.9
	8H	20.6	21.7	21.2	22.3	22.9	26.2	27.2	26.7	27.8	28.4
	12H	20.6	21.7	21.2	22.2	22.9	26.8	27.8	27.3	28.4	29.0

UGR Viewed Endwise

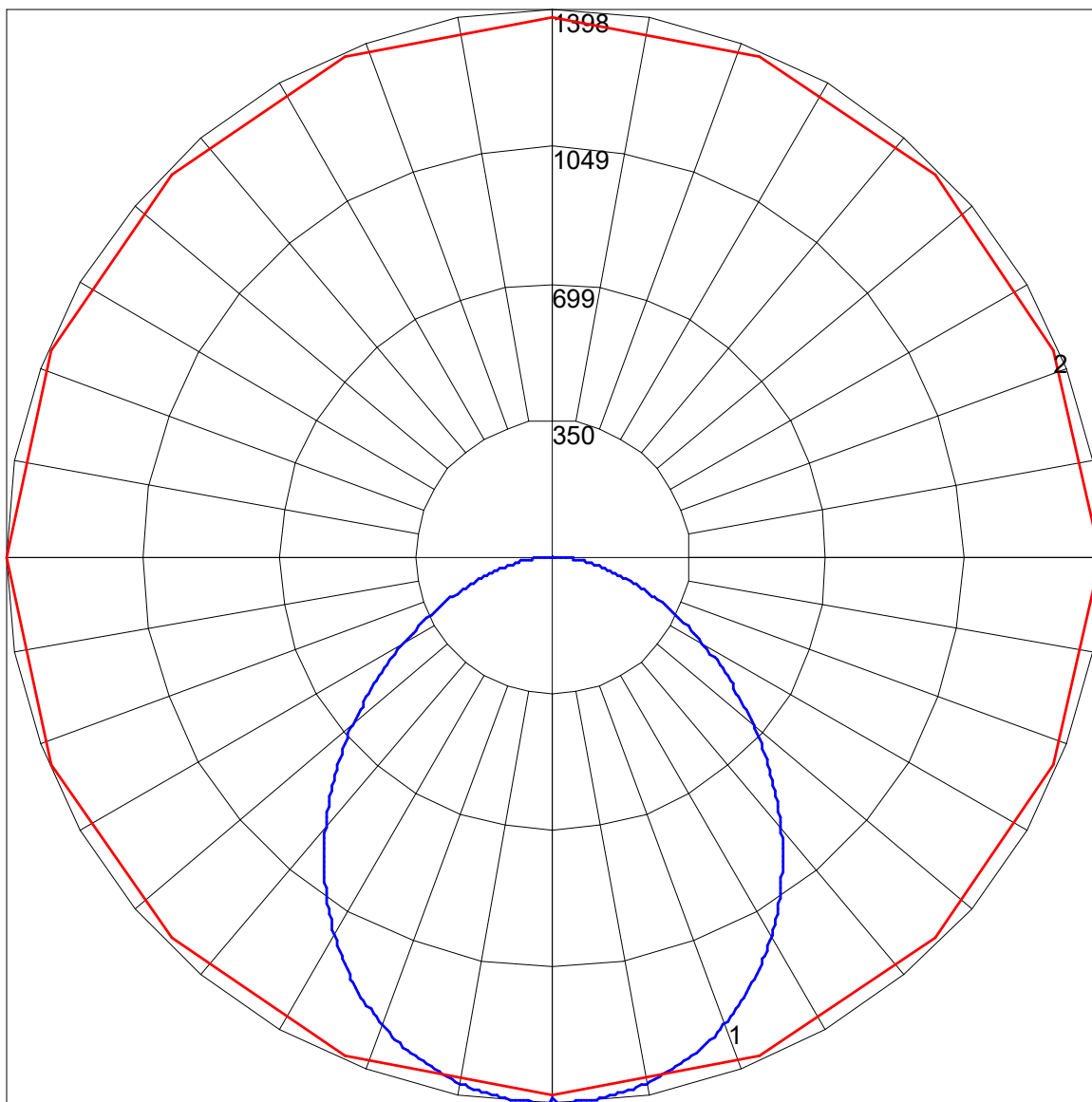
4H	2H	19.4	20.6	20.0	21.2	21.8	21.2	22.4	21.7	23.0	23.6
	3H	21.0	22.0	21.5	22.6	23.2	23.9	24.9	24.4	25.5	26.1
	4H	21.5	22.4	22.0	23.0	23.7	25.2	26.1	25.8	26.7	27.4
	6H	21.8	22.7	22.4	23.3	23.9	26.5	27.4	27.1	28.0	28.6
	8H	21.9	22.7	22.5	23.3	24.0	27.2	28.0	27.8	28.6	29.3
	12H	22.0	22.7	22.6	23.3	24.0	27.9	28.6	28.5	29.3	29.9

8H	4H	22.1	22.9	22.7	23.5	24.2	25.3	26.1	25.9	26.7	27.4
	6H	22.6	23.3	23.3	24.0	24.6	26.8	27.5	27.5	28.1	28.8
	8H	22.8	23.4	23.5	24.1	24.8	27.6	28.2	28.3	28.9	29.6
	12H	22.9	23.5	23.6	24.1	24.9	28.5	29.1	29.2	29.7	30.5

12H	4H	22.3	23.0	22.9	23.6	24.3	25.3	26.0	26.0	26.7	27.4
	6H	22.9	23.5	23.6	24.1	24.9	26.9	27.5	27.5	28.1	28.8
	8H	23.2	23.7	23.8	24.3	25.1	27.7	28.2	28.4	28.9	29.7

Maximum UGR = 30.5

POLAR GRAPH



Maximum Candela = 1398.121 Located At Horizontal Angle = 0, Vertical Angle = 1  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)