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IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSN-7545W-WEVE.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLI-17288-1

[TESTLAB] LightLab international (www.LightLabInt.com)

[MANUFAC] Justice Design Group, Los Angeles, CA 90071

[LUMCAT] FSN-7545W-OPAL

[LUMINAIRE] Justice Design Group - Wall mount outdoor decorative luminaire. Product ID: FSN-7545W-WEVE

[MORE] Steel formed housing with square glass tube lens.

[MORE] 24 LES mounted in circular array with white plastic dome lens.

[MORE] No driver.

[MORE] Operating at 120 VAC and 60 Hz.

[OTHER] Absolute test - lamp lumens value set to -1

[MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.

[MORE] The sample was tested at a distance of 8m.

[MORE] This IES file created by LightLab/LSA Report program version 3.808a.

[DATE] This file created: Tuesday, October 17, 2017 2:57:58 PM

[ISSUEDATE] Tuesday, October 17, 2017 2:57:58 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	401
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	34
Total Luminaire Watts	11.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.18
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.10 m
Luminous Width (90-270)	0.10 m
Luminous Height	0.45 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3688	2507	3342
55	2301	1644	1963
65	1165	808	873
75	467	286	342
85	174	119	113

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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	204.356	204.356	204.356	204.356	204.356	204.356	204.356	204.356	204.356
0.5	205.270	205.080	205.070	204.766	204.461	204.061	203.880	203.757	203.871
1.0	206.898	206.651	206.298	205.594	204.994	204.337	203.909	203.728	203.852
1.5	208.755	208.669	208.117	206.812	205.737	204.870	204.547	203.899	203.576
2.0	209.916	210.402	210.421	208.202	206.527	205.480	205.261	203.300	202.214
2.5	208.498	210.516	213.067	208.431	205.299	205.061	205.756	201.653	198.711
3.0	204.233	208.345	214.552	207.441	201.757	203.128	205.556	197.569	191.847
3.5	198.340	203.690	213.505	204.452	195.884	199.139	203.880	191.009	182.908
4.0	191.314	197.673	209.307	199.406	189.458	193.827	199.358	182.270	173.121
4.5	184.717	190.866	202.310	194.113	183.412	188.534	192.361	173.464	166.524
5.0	178.462	183.936	193.123	189.096	177.948	183.346	182.146	167.266	163.068
5.5	173.045	176.986	184.107	183.831	172.645	177.919	170.836	163.468	161.155
6.0	167.914	170.646	175.977	178.119	167.086	172.283	160.174	160.640	159.041
6.5	162.630	164.886	168.057	171.474	160.736	166.419	152.263	157.185	154.786
7.0	156.223	159.327	160.117	163.611	153.148	159.555	146.275	152.044	149.093
7.5	147.493	153.405	152.472	154.928	144.818	152.063	141.401	145.942	141.105
8.0	136.022	145.685	144.790	146.046	136.250	143.866	137.383	138.811	131.785
8.5	126.959	135.527	137.440	136.850	128.587	134.537	133.175	131.186	122.227
9.0	123.322	125.959	130.605	128.044	124.655	125.026	128.396	123.141	115.059
9.5	123.532	120.466	123.731	120.637	124.598	116.734	122.599	114.706	113.402
10.0	125.626	118.638	117.001	116.582	126.359	111.803	115.716	108.328	116.211
10.5	126.940	119.010	110.242	115.297	128.425	109.813	107.586	105.910	120.656
11.0	128.330	120.133	104.063	116.239	129.986	110.194	99.227	106.158	124.131
11.5	129.958	121.123	98.922	117.686	131.852	111.108	91.554	108.014	126.730
12.0	131.386	122.284	95.733	119.190	134.365	111.879	85.842	109.566	128.577
12.5	132.680	123.598	94.705	120.457	136.983	113.031	82.224	110.680	130.967
13.0	134.061	124.512	95.238	121.856	139.278	114.583	80.377	112.012	133.727
13.5	134.718	125.226	97.104	123.132	141.191	116.011	80.025	113.735	136.241
14.0	134.879	126.273	99.627	124.188	142.400	117.010	81.025	115.649	139.335
14.5	134.346	127.244	102.197	125.302	142.610	117.905	82.938	117.363	142.134
15.0	134.460	127.901	104.568	126.330	141.848	118.543	84.909	119.000	143.067
15.5	135.679	127.977	106.862	126.873	141.134	118.572	86.727	120.466	142.733
16.0	137.050	127.882	109.014	127.311	140.353	117.981	88.431	121.104	141.829
16.5	138.687	128.415	111.136	127.701	139.820	117.382	89.983	121.037	141.258
17.0	140.163	129.196	113.060	128.025	139.516	117.039	91.687	120.580	140.963
17.5	141.324	129.929	114.859	128.130	139.525	117.144	93.306	119.895	140.848
18.0	142.476	130.500	116.534	128.368	139.506	117.629	94.781	119.324	140.639
18.5	143.571	130.957	118.077	128.758	139.906	118.267	96.200	118.838	140.106
19.0	144.923	131.481	119.514	129.310	140.563	118.781	97.428	118.543	139.163
19.5	146.751	132.176	120.742	130.053	141.362	119.295	98.522	118.495	138.116
20.0	148.579	133.204	121.856	130.967	142.610	119.809	99.389	118.619	136.745
20.5	150.759	134.594	122.998	132.128	144.495	120.295	100.055	119.019	135.879
21.0	152.901	136.384	124.188	133.470	146.732	120.914	100.569	119.619	136.574
21.5	154.805	138.364	125.369	135.032	148.998	121.961	100.988	120.104	138.478
22.0	156.633	140.315	126.568	136.679	151.168	123.236	101.378	120.723	140.858
22.5	158.118	142.134	127.777	138.259	152.986	124.674	101.816	121.589	142.819
23.0	159.470	143.876	128.901	139.915	154.586	126.054	102.216	122.618	144.656
23.5	160.517	145.532	129.996	141.458	155.890	127.473	102.597	124.027	146.275
24.0	161.421	147.065	131.043	142.790	156.823	128.644	102.959	125.274	147.712
24.5	162.316	148.464	132.042	144.085	157.604	129.691	103.368	126.407	148.779
25.0	163.049	149.778	133.090	145.209	158.194	130.643	103.730	127.482	149.474
25.5	163.754	150.978	134.099	146.218	158.679	131.300	104.054	128.234	149.550
26.0	164.468	152.177	135.003	147.094	159.041	131.881	104.349	128.825	149.302
26.5	165.105	153.348	135.908	147.855	159.393	132.328	104.663	129.234	148.683

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CANDELA TABULATION - (Cont.)

27.0	165.572	154.548	136.774	148.569	159.717	132.728	104.939	129.320	147.941
27.5	166.038	155.633	137.554	149.159	159.955	133.023	105.177	129.139	146.998
28.0	166.267	156.680	138.335	149.626	160.117	133.223	105.320	128.729	145.646
28.5	166.448	157.594	139.040	150.083	160.174	133.432	105.434	128.082	144.009
29.0	166.552	158.365	139.658	150.502	160.260	133.623	105.558	127.054	141.953
29.5	166.705	158.955	140.201	150.863	160.222	133.785	105.567	125.826	139.554
30.0	167.009	159.412	140.763	151.282	160.231	133.975	105.567	124.303	136.917
30.5	167.352	159.774	141.210	151.539	160.231	134.089	105.434	122.399	134.061
31.0	167.676	159.993	141.581	151.834	160.203	134.184	105.186	120.323	131.052
31.5	168.047	160.003	141.877	152.025	160.203	134.203	104.815	118.058	127.806
32.0	168.361	160.041	142.048	152.101	160.126	134.175	104.301	115.620	124.493
32.5	168.590	159.965	142.181	152.139	160.060	134.089	103.692	113.050	121.104
33.0	168.694	159.860	142.229	152.082	159.898	133.870	102.978	110.394	117.791
33.5	168.561	159.631	142.229	151.882	159.717	133.651	102.054	107.633	114.545
34.0	168.418	159.422	142.153	151.606	159.498	133.270	100.960	104.853	111.289
34.5	167.942	159.089	142.029	151.292	159.146	132.814	99.798	102.026	108.252
35.0	167.295	158.756	141.858	150.835	158.679	132.309	98.542	99.217	105.244
35.5	166.372	158.299	141.696	150.311	158.099	131.709	97.066	96.352	102.254
36.0	165.420	157.918	141.439	149.702	157.366	131.138	95.590	93.639	99.398
36.5	164.315	157.432	141.210	148.959	156.537	130.500	93.962	90.992	96.523
37.0	163.087	156.861	140.972	148.217	155.604	129.824	92.201	88.507	93.601
37.5	161.916	156.261	140.734	147.370	154.586	129.158	90.402	86.051	90.649
38.0	160.679	155.690	140.410	146.437	153.481	128.453	88.526	83.700	87.774
38.5	159.498	155.014	140.144	145.399	152.349	127.701	86.651	81.377	84.766
39.0	158.384	154.376	139.744	144.323	151.025	126.959	84.776	79.073	81.710
39.5	157.328	153.662	139.373	143.095	149.712	126.130	82.900	76.712	78.692
40.0	156.318	152.901	138.944	141.877	148.255	125.321	80.977	74.304	75.579
40.5	155.262	152.149	138.430	140.601	146.703	124.417	79.111	71.857	72.476
41.0	154.243	151.368	137.802	139.192	145.075	123.408	77.245	69.296	69.410
41.5	153.101	150.473	137.117	137.783	143.286	122.332	75.427	66.611	66.288
42.0	151.996	149.540	136.364	136.364	141.448	121.180	73.561	63.936	63.108
42.5	150.768	148.502	135.517	134.898	139.516	119.962	71.828	61.156	59.738
43.0	149.321	147.417	134.518	133.442	137.507	118.676	70.020	58.215	56.339
43.5	147.855	146.322	133.470	131.947	135.441	117.324	68.335	55.454	52.769
44.0	146.237	145.094	132.357	130.519	133.404	115.830	66.659	52.617	49.295
44.5	144.466	143.752	131.100	128.977	131.300	114.316	64.984	49.685	45.686
45.0	142.591	142.334	129.853	127.501	129.215	112.669	63.375	46.819	42.335
45.5	140.658	140.763	128.520	125.988	127.140	110.975	61.785	43.982	38.984
46.0	138.487	139.097	127.102	124.398	124.940	109.185	60.290	41.098	35.976
46.5	136.326	137.402	125.721	122.779	122.798	107.376	58.710	38.394	33.149
47.0	134.080	135.517	124.226	121.104	120.656	105.548	57.187	35.671	30.759
47.5	131.652	133.556	122.665	119.324	118.410	103.692	55.644	32.958	28.741
48.0	129.329	131.538	121.132	117.582	116.144	101.788	54.159	30.512	26.913
48.5	126.940	129.453	119.524	115.668	113.897	99.970	52.569	28.246	25.466
49.0	124.484	127.292	117.953	113.783	111.603	98.085	51.008	26.180	24.324
49.5	122.189	125.112	116.249	111.803	109.271	96.181	49.466	24.419	23.419
50.0	119.895	122.932	114.535	109.804	106.995	94.200	47.933	22.924	22.629
50.5	117.620	120.695	112.822	107.662	104.606	92.182	46.324	21.648	22.001
51.0	115.430	118.429	111.032	105.615	102.245	90.145	44.820	20.658	21.420
51.5	113.383	116.192	109.204	103.482	99.865	88.089	43.287	19.840	21.030
52.0	111.165	113.888	107.281	101.312	97.409	85.928	41.869	19.183	20.544
52.5	109.033	111.574	105.377	99.103	94.981	83.909	40.527	18.602	20.135
53.0	106.881	109.252	103.359	96.961	92.592	81.834	39.260	18.145	19.764
53.5	104.453	106.976	101.245	94.667	90.212	79.730	38.004	17.698	19.373
54.0	102.245	104.701	99.113	92.458	87.860	77.598	36.861	17.279	18.964
54.5	99.893	102.407	96.952	90.231	85.509	75.522	35.757	16.860	18.640

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CANDELA TABULATION - (Cont.)

55.0	97.494	100.074	94.705	87.898	83.176	73.323	34.662	16.441	18.278
55.5	95.029	97.770	92.506	85.718	80.872	71.238	33.596	16.032	17.821
56.0	92.544	95.400	90.240	83.462	78.683	69.068	32.511	15.622	17.355
56.5	90.040	93.096	87.936	81.215	76.493	66.945	31.483	15.251	16.869
57.0	87.555	90.735	85.690	79.045	74.304	64.869	30.454	14.880	16.279
57.5	85.099	88.412	83.386	76.884	72.114	62.746	29.407	14.528	15.689
58.0	82.767	86.051	81.063	74.713	69.915	60.661	28.455	14.032	14.975
58.5	80.320	83.633	78.740	72.600	67.706	58.653	27.475	13.642	14.290
59.0	77.893	81.291	76.398	70.448	65.479	56.663	26.551	13.166	13.699
59.5	75.541	78.807	74.066	68.268	63.156	54.645	25.609	12.795	13.147
60.0	73.152	76.398	71.762	66.088	60.928	52.769	24.685	12.300	12.557
60.5	70.886	73.970	69.534	63.927	58.653	50.846	23.829	11.852	11.833
61.0	68.611	71.571	67.259	61.690	56.387	48.876	22.943	11.395	11.119
61.5	66.507	69.106	64.955	59.567	54.083	46.896	22.077	10.938	10.377
62.0	64.317	66.688	62.765	57.425	51.798	45.049	21.239	10.453	9.577
62.5	62.261	64.384	60.538	55.235	49.514	43.097	20.420	10.006	8.758
63.0	60.166	62.070	58.377	53.179	47.333	41.250	19.621	9.549	7.997
63.5	58.215	59.871	56.235	51.037	45.249	39.394	18.792	9.034	7.188
64.0	56.273	57.663	54.045	48.914	43.135	37.537	18.031	8.568	6.388
64.5	54.302	55.578	51.932	46.848	41.060	35.805	17.231	8.035	5.817
65.0	52.208	53.502	49.828	44.773	39.099	34.044	16.498	7.578	5.303
65.5	49.961	51.437	47.695	42.697	37.185	32.282	15.794	7.083	4.865
66.0	47.857	49.428	45.706	40.641	35.262	30.588	15.061	6.759	4.560
66.5	45.658	47.533	43.725	38.623	33.434	28.950	14.413	6.388	4.236
67.0	43.459	45.506	41.821	36.652	31.578	27.275	13.785	6.150	3.998
67.5	41.307	43.535	39.870	34.767	29.845	25.733	13.119	5.845	3.808
68.0	39.156	41.564	38.032	32.834	28.179	24.200	12.519	5.636	3.580
68.5	36.909	39.527	36.233	31.016	26.551	22.686	11.929	5.388	3.446
69.0	34.815	37.452	34.443	29.255	25.114	21.306	11.367	5.217	3.294
69.5	32.834	35.367	32.730	27.503	23.781	20.011	10.862	5.074	3.142
70.0	30.854	33.234	30.988	25.913	22.591	18.678	10.282	4.836	2.942
70.5	29.255	31.188	29.388	24.447	21.534	17.507	9.787	4.693	2.837
71.0	27.798	29.293	27.817	23.096	20.592	16.365	9.272	4.560	2.799
71.5	26.675	27.465	26.285	21.915	19.764	15.346	8.835	4.370	2.608
72.0	25.809	25.856	24.895	20.925	19.050	14.442	8.473	4.246	2.494
72.5	25.085	24.504	23.524	20.011	18.374	13.661	8.111	4.094	2.428
73.0	24.276	23.410	22.258	19.088	17.774	12.928	7.825	3.998	2.285
73.5	23.619	22.477	21.125	18.316	17.374	12.328	7.492	3.808	2.199
74.0	22.924	21.696	20.097	17.593	16.793	11.881	7.226	3.675	2.075
74.5	22.134	20.944	19.126	16.917	16.251	11.443	6.959	3.551	1.942
75.0	21.439	20.278	18.259	16.260	15.679	11.091	6.683	3.408	1.933
75.5	20.658	19.487	17.507	15.622	15.165	10.691	6.445	3.294	1.818
76.0	19.811	18.792	16.765	15.032	14.585	10.301	6.188	3.161	1.752
76.5	18.973	18.050	16.070	14.432	13.985	9.958	5.931	3.075	1.723
77.0	18.155	17.374	15.460	13.871	13.404	9.663	5.722	2.932	1.628
77.5	17.403	16.698	14.899	13.280	12.766	9.263	5.503	2.846	1.571
78.0	16.650	16.060	14.299	12.757	12.157	8.930	5.284	2.780	1.514
78.5	15.908	15.413	13.785	12.262	11.567	8.568	5.074	2.694	1.476
79.0	15.137	14.756	13.214	11.729	10.881	8.235	4.865	2.580	1.447
79.5	14.366	14.156	12.662	11.224	10.263	7.902	4.693	2.513	1.333
80.0	13.623	13.528	12.157	10.767	9.710	7.540	4.474	2.428	1.323
80.5	12.833	12.947	11.652	10.272	9.149	7.216	4.274	2.342	1.247
81.0	12.119	12.347	11.167	9.825	8.558	6.940	4.094	2.256	1.238
81.5	11.414	11.786	10.662	9.434	8.006	6.616	3.903	2.161	1.190
82.0	10.748	11.196	10.215	8.977	7.464	6.283	3.732	2.094	1.152
82.5	10.158	10.681	9.768	8.549	6.988	5.940	3.608	2.047	1.047

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CANDELA TABULATION - (Cont.)

83.0	9.663	10.120	9.301	8.130	6.578	5.722	3.418	1.971	0.981
83.5	9.177	9.634	8.920	7.740	6.226	5.436	3.237	1.904	1.028
84.0	8.711	9.225	8.463	7.407	5.931	5.179	3.104	1.847	0.942
84.5	8.368	8.844	8.054	7.054	5.522	4.960	2.961	1.828	0.952
85.0	7.911	8.425	7.635	6.712	5.150	4.712	2.808	1.714	0.876
85.5	7.435	8.035	7.226	6.359	4.827	4.484	2.694	1.714	0.876
86.0	6.997	7.654	6.873	6.017	4.484	4.236	2.561	1.656	0.876
86.5	6.493	7.178	6.512	5.693	4.113	3.989	2.418	1.637	0.847
87.0	6.093	6.826	6.150	5.350	3.751	3.779	2.285	1.580	0.781
87.5	5.645	6.455	5.807	5.017	3.408	3.541	2.190	1.514	0.781
88.0	5.226	6.074	5.493	4.731	3.132	3.294	2.094	1.485	0.762
88.5	4.874	5.741	5.188	4.474	2.827	3.123	1.990	1.428	0.733
89.0	4.551	5.379	4.979	4.217	2.599	2.942	1.894	1.409	0.762
89.5	4.170	5.131	4.703	3.998	2.370	2.732	1.828	1.380	0.743
90.0	3.894	4.865	4.512	3.798	2.161	2.589	1.733	1.361	0.733
90.5	3.732	4.665	4.322	3.637	2.037	2.485	1.704	1.285	0.704
91.0	3.551	4.522	4.141	3.484	1.875	2.390	1.666	1.276	0.704
91.5	3.408	4.341	4.036	3.408	1.799	2.294	1.628	1.266	0.714
92.0	3.284	4.170	3.865	3.294	1.733	2.180	1.523	1.190	0.676
92.5	3.161	4.046	3.789	3.189	1.656	2.171	1.523	1.228	0.666
93.0	3.018	3.913	3.684	3.113	1.580	2.104	1.447	1.200	0.666
93.5	2.904	3.846	3.570	3.027	1.552	2.037	1.418	1.190	0.676
94.0	2.818	3.694	3.551	2.932	1.533	1.980	1.390	1.161	0.647
94.5	2.742	3.589	3.380	2.894	1.476	1.904	1.390	1.114	0.666
95.0	2.656	3.484	3.313	2.808	1.438	1.866	1.333	1.104	0.657
95.5	2.532	3.427	3.256	2.742	1.428	1.847	1.314	1.104	0.638
96.0	2.494	3.313	3.132	2.685	1.409	1.790	1.333	1.076	0.628
96.5	2.428	3.246	3.075	2.647	1.409	1.771	1.276	1.095	0.647
97.0	2.332	3.151	3.027	2.628	1.352	1.771	1.285	1.047	0.638
97.5	2.275	3.075	2.970	2.542	1.342	1.723	1.238	1.066	0.676
98.0	2.209	3.046	2.885	2.504	1.333	1.676	1.219	1.028	0.638
98.5	2.142	2.932	2.789	2.447	1.323	1.656	1.180	1.019	0.676
99.0	2.085	2.846	2.761	2.466	1.323	1.647	1.200	1.028	0.638
99.5	2.037	2.808	2.723	2.390	1.276	1.599	1.152	1.000	0.581
100.0	1.961	2.723	2.647	2.370	1.285	1.590	1.133	0.971	0.609
100.5	1.914	2.675	2.570	2.275	1.257	1.561	1.142	0.962	0.609
101.0	1.847	2.589	2.561	2.247	1.257	1.533	1.076	0.942	0.600
101.5	1.809	2.532	2.513	2.218	1.190	1.485	1.104	0.971	0.571
102.0	1.780	2.475	2.437	2.161	1.200	1.476	1.066	0.952	0.600
102.5	1.761	2.418	2.418	2.142	1.171	1.438	1.076	0.942	0.628
103.0	1.666	2.390	2.332	2.104	1.133	1.409	1.038	0.923	0.609
103.5	1.637	2.332	2.304	2.066	1.161	1.371	1.066	0.942	0.647
104.0	1.571	2.294	2.294	2.018	1.142	1.418	1.028	0.914	0.628
104.5	1.571	2.237	2.228	2.009	1.114	1.342	1.047	0.933	0.619
105.0	1.523	2.237	2.199	1.942	1.057	1.314	0.990	0.895	0.619
105.5	1.438	2.132	2.171	1.914	1.085	1.333	1.000	0.885	0.628
106.0	1.457	2.104	2.113	1.904	1.076	1.304	1.000	0.876	0.666
106.5	1.409	2.085	2.094	1.885	1.066	1.304	0.990	0.895	0.590
107.0	1.361	2.018	2.066	1.875	1.047	1.247	1.009	0.866	0.609
107.5	1.361	2.018	2.018	1.847	1.028	1.266	0.981	0.838	0.600
108.0	1.304	1.961	1.961	1.780	1.009	1.219	0.962	0.857	0.619
108.5	1.304	1.914	1.961	1.790	1.047	1.209	0.942	0.876	0.590
109.0	1.238	1.894	1.894	1.742	1.028	1.219	0.923	0.819	0.628
109.5	1.247	1.847	1.914	1.723	0.981	1.190	0.942	0.828	0.609
110.0	1.247	1.828	1.875	1.704	1.028	1.180	0.923	0.828	0.581
110.5	1.257	1.818	1.809	1.714	1.019	1.161	0.952	0.838	0.628

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CANDELA TABULATION - (Cont.)

111.0	1.180	1.771	1.828	1.685	1.009	1.171	0.933	0.809	0.609
111.5	1.152	1.742	1.799	1.656	0.981	1.161	0.933	0.828	0.590
112.0	1.171	1.714	1.799	1.647	1.009	1.152	0.914	0.800	0.609
112.5	1.123	1.695	1.790	1.609	0.990	1.133	0.923	0.800	0.590
113.0	1.095	1.676	1.752	1.590	0.981	1.133	0.914	0.819	0.638
113.5	1.085	1.647	1.714	1.599	0.971	1.123	0.895	0.809	0.647
114.0	1.104	1.647	1.714	1.590	0.952	1.133	0.942	0.800	0.600
114.5	1.047	1.618	1.723	1.590	0.933	1.085	0.914	0.838	0.657
115.0	1.028	1.656	1.695	1.561	0.990	1.095	0.923	0.828	0.628
115.5	1.019	1.561	1.666	1.533	0.952	1.076	0.942	0.819	0.600
116.0	1.057	1.542	1.647	1.542	0.952	1.123	0.895	0.838	0.619
116.5	1.028	1.561	1.618	1.561	0.971	1.066	0.885	0.828	0.647
117.0	1.000	1.552	1.637	1.523	0.923	1.104	0.885	0.819	0.619
117.5	0.990	1.514	1.571	1.514	0.981	1.095	0.904	0.819	0.733
118.0	1.000	1.504	1.599	1.466	0.971	1.076	0.914	0.828	0.647
118.5	0.971	1.485	1.571	1.466	0.952	1.076	0.866	0.809	0.647
119.0	0.990	1.466	1.542	1.466	0.971	1.066	0.904	0.800	0.638
119.5	0.962	1.457	1.571	1.447	0.933	1.038	0.923	0.819	0.676
120.0	0.981	1.447	1.542	1.466	0.942	1.066	0.895	0.828	0.628
120.5	1.000	1.447	1.523	1.399	0.962	1.028	0.895	0.819	0.628
121.0	1.019	1.447	1.523	1.438	0.952	1.038	0.885	0.838	0.647
121.5	0.962	1.447	1.504	1.409	1.000	1.038	0.904	0.819	0.657
122.0	0.942	1.409	1.504	1.418	0.962	1.038	0.904	0.828	0.657
122.5	0.942	1.447	1.514	1.399	0.933	1.066	0.876	0.857	0.676
123.0	0.942	1.428	1.457	1.390	0.942	1.047	0.885	0.838	0.685
123.5	0.971	1.418	1.485	1.361	0.981	1.047	0.933	0.838	0.733
124.0	0.962	1.428	1.476	1.399	0.942	1.066	0.914	0.866	0.724
124.5	0.971	1.390	1.438	1.390	0.981	1.066	0.876	0.876	0.695
125.0	0.952	1.361	1.466	1.390	0.952	1.028	0.895	0.885	0.685
125.5	0.981	1.361	1.438	1.361	0.942	1.085	0.914	0.847	0.733
126.0	0.990	1.371	1.428	1.390	0.971	1.047	0.904	0.857	0.743
126.5	1.019	1.390	1.447	1.380	0.952	1.057	0.942	0.866	0.771
127.0	0.971	1.342	1.457	1.380	0.962	1.047	0.933	0.866	0.724
127.5	0.990	1.371	1.447	1.371	0.962	1.057	0.942	0.847	0.771
128.0	0.952	1.323	1.428	1.361	0.981	1.028	0.942	0.885	0.752
128.5	0.981	1.371	1.447	1.352	0.962	1.028	0.942	0.895	0.781
129.0	0.942	1.361	1.418	1.361	0.971	1.038	0.962	0.885	0.771
129.5	0.990	1.314	1.418	1.380	0.971	1.057	0.942	0.895	0.857
130.0	0.962	1.352	1.399	1.352	1.000	1.076	0.952	0.885	0.800
130.5	0.981	1.314	1.418	1.361	1.000	1.066	0.942	0.923	0.781
131.0	0.962	1.295	1.428	1.361	0.981	1.028	0.933	0.876	0.809
131.5	1.009	1.304	1.409	1.352	0.971	1.104	0.971	0.923	0.800
132.0	0.981	1.304	1.380	1.380	1.009	1.066	0.952	0.876	0.866
132.5	0.971	1.295	1.418	1.333	1.000	1.066	0.962	0.923	0.847
133.0	1.000	1.314	1.399	1.380	1.000	1.085	0.981	0.914	0.838
133.5	0.990	1.247	1.418	1.371	1.009	1.085	1.009	0.904	0.885
134.0	0.981	1.276	1.409	1.361	1.038	1.066	1.000	0.933	0.847
134.5	1.000	1.304	1.361	1.352	1.028	1.085	1.028	0.942	0.866
135.0	0.981	1.276	1.409	1.399	1.047	1.123	1.038	0.933	0.876
135.5	0.971	1.276	1.399	1.333	1.019	1.095	0.990	0.971	0.904
136.0	1.000	1.304	1.399	1.352	1.047	1.133	1.009	0.952	0.933
136.5	1.019	1.295	1.457	1.342	1.057	1.114	1.038	0.952	0.923
137.0	1.000	1.285	1.418	1.342	1.038	1.123	1.009	0.981	0.933
137.5	1.000	1.304	1.399	1.352	1.085	1.095	1.066	1.009	0.962
138.0	1.009	1.276	1.438	1.342	1.057	1.123	1.047	0.981	0.952
138.5	1.009	1.257	1.418	1.361	1.076	1.123	1.095	0.971	0.981

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CANDELA TABULATION - (Cont.)

139.0	1.019	1.247	1.409	1.333	1.104	1.133	1.066	1.000	0.923
139.5	1.047	1.285	1.447	1.342	1.085	1.142	1.057	1.009	1.009
140.0	1.047	1.266	1.457	1.361	1.095	1.152	1.123	1.028	0.981
140.5	1.085	1.285	1.409	1.380	1.076	1.161	1.085	1.019	1.038
141.0	1.019	1.285	1.438	1.371	1.104	1.171	1.142	1.028	1.019
141.5	1.047	1.304	1.438	1.361	1.123	1.171	1.133	1.057	1.047
142.0	1.047	1.285	1.438	1.361	1.180	1.161	1.133	1.076	1.038
142.5	1.038	1.285	1.447	1.399	1.123	1.200	1.104	1.066	1.038
143.0	1.076	1.276	1.466	1.371	1.142	1.219	1.152	1.066	1.028
143.5	1.066	1.304	1.428	1.371	1.133	1.209	1.190	1.114	1.009
144.0	1.123	1.276	1.428	1.447	1.152	1.228	1.190	1.133	0.933
144.5	1.076	1.314	1.457	1.428	1.161	1.228	1.152	1.171	0.981
145.0	1.095	1.295	1.438	1.418	1.180	1.238	1.171	1.152	0.981
145.5	1.133	1.333	1.428	1.418	1.190	1.219	1.190	1.152	1.000
146.0	1.085	1.295	1.476	1.418	1.152	1.209	1.209	1.161	1.019
146.5	1.133	1.295	1.409	1.399	1.180	1.247	1.190	1.152	1.076
147.0	1.133	1.333	1.466	1.418	1.190	1.257	1.257	1.228	1.085
147.5	1.152	1.304	1.447	1.466	1.200	1.257	1.219	1.200	1.066
148.0	1.161	1.314	1.476	1.418	1.190	1.314	1.276	1.190	1.104
148.5	1.152	1.323	1.476	1.457	1.238	1.304	1.266	1.209	1.104
149.0	1.142	1.323	1.447	1.457	1.247	1.295	1.257	1.266	1.133
149.5	1.190	1.342	1.457	1.438	1.228	1.342	1.285	1.238	1.152
150.0	1.161	1.342	1.447	1.476	1.238	1.304	1.323	1.238	1.190
150.5	1.161	1.333	1.457	1.495	1.257	1.323	1.304	1.247	1.161
151.0	1.180	1.352	1.418	1.466	1.238	1.333	1.352	1.285	1.190
151.5	1.200	1.323	1.438	1.485	1.266	1.342	1.314	1.295	1.133
152.0	1.190	1.323	1.447	1.476	1.266	1.333	1.304	1.323	1.200
152.5	1.266	1.342	1.457	1.457	1.276	1.314	1.352	1.314	1.228
153.0	1.228	1.361	1.428	1.476	1.247	1.333	1.361	1.361	1.228
153.5	1.209	1.352	1.457	1.476	1.247	1.314	1.333	1.314	1.209
154.0	1.228	1.380	1.428	1.504	1.266	1.371	1.342	1.361	1.161
154.5	1.247	1.352	1.428	1.495	1.266	1.342	1.361	1.361	1.133
155.0	1.219	1.352	1.466	1.476	1.276	1.342	1.399	1.361	1.009
155.5	1.266	1.371	1.428	1.447	1.257	1.399	1.390	1.371	0.962
156.0	1.257	1.333	1.428	1.466	1.276	1.380	1.418	1.333	1.000
156.5	1.295	1.342	1.447	1.466	1.266	1.371	1.399	1.342	0.990
157.0	1.266	1.361	1.428	1.495	1.257	1.380	1.399	1.314	0.990
157.5	1.266	1.314	1.438	1.485	1.276	1.371	1.428	1.314	1.038
158.0	1.304	1.333	1.428	1.485	1.266	1.361	1.495	1.342	1.047
158.5	1.295	1.342	1.409	1.428	1.247	1.352	1.504	1.323	1.047
159.0	1.276	1.295	1.390	1.476	1.247	1.361	1.504	1.342	1.085
159.5	1.219	1.304	1.380	1.466	1.257	1.380	1.504	1.323	1.038
160.0	1.276	1.323	1.399	1.438	1.276	1.361	1.523	1.323	1.104
160.5	1.228	1.276	1.361	1.485	1.285	1.399	1.542	1.314	1.066
161.0	1.247	1.266	1.352	1.457	1.266	1.390	1.542	1.342	1.000
161.5	1.171	1.266	1.323	1.438	1.304	1.342	1.542	1.304	1.047
162.0	1.209	1.257	1.333	1.447	1.200	1.380	1.495	1.323	1.028
162.5	1.180	1.247	1.304	1.428	1.219	1.333	1.590	1.380	1.028
163.0	1.161	1.209	1.266	1.447	1.228	1.323	1.533	1.371	1.038
163.5	1.161	1.152	1.285	1.418	1.200	1.333	1.542	1.352	1.038
164.0	1.161	1.133	1.228	1.371	1.190	1.304	1.552	1.361	1.028
164.5	1.104	1.133	1.209	1.333	1.171	1.304	1.523	1.399	1.009
165.0	1.047	1.123	1.219	1.352	1.133	1.228	1.533	1.390	0.981
165.5	1.085	1.066	1.161	1.323	1.123	1.257	1.514	1.409	0.904
166.0	1.038	1.104	1.142	1.295	1.066	1.219	1.428	1.399	0.895
166.5	1.019	0.990	1.095	1.257	1.057	1.171	1.418	1.333	0.885

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CANDELA TABULATION - (Cont.)

167.0	1.000	1.028	1.095	1.209	1.047	1.142	1.399	1.342	0.819
167.5	0.933	0.962	1.085	1.209	1.009	1.057	1.371	1.361	0.828
168.0	0.914	0.923	1.019	1.200	1.000	0.990	1.342	1.266	0.781
168.5	0.866	0.942	1.028	1.161	0.971	0.962	1.314	1.247	0.762
169.0	0.838	0.876	0.962	1.114	0.981	0.923	1.209	1.209	0.743
169.5	0.790	0.847	0.962	1.038	0.904	0.895	1.123	1.104	0.714
170.0	0.838	0.781	0.971	0.981	0.904	0.857	1.076	1.028	0.695
170.5	0.752	0.762	0.933	0.885	0.904	0.828	1.057	0.962	0.666
171.0	0.724	0.724	0.904	0.895	0.885	0.752	0.962	0.904	0.600
171.5	0.704	0.714	0.857	0.828	0.847	0.743	0.904	0.819	0.600
172.0	0.704	0.685	0.857	0.819	0.857	0.752	0.885	0.743	0.609
172.5	0.676	0.657	0.800	0.752	0.828	0.714	0.762	0.724	0.562
173.0	0.676	0.657	0.790	0.695	0.781	0.657	0.619	0.704	0.495
173.5	0.657	0.600	0.743	0.676	0.762	0.666	0.486	0.638	0.552
174.0	0.647	0.628	0.628	0.638	0.790	0.609	0.428	0.619	0.524
174.5	0.619	0.600	0.438	0.590	0.752	0.609	0.390	0.486	0.505
175.0	0.600	0.581	0.352	0.543	0.724	0.609	0.371	0.400	0.428
175.5	0.571	0.505	0.343	0.466	0.685	0.543	0.409	0.371	0.352
176.0	0.457	0.352	0.314	0.400	0.486	0.438	0.390	0.371	0.438
176.5	0.295	0.314	0.295	0.362	0.400	0.409	0.381	0.400	0.409
177.0	0.333	0.333	0.314	0.333	0.362	0.343	0.362	0.343	0.371
177.5	0.324	0.314	0.286	0.314	0.352	0.352	0.276	0.333	0.324
178.0	0.314	0.305	0.295	0.305	0.352	0.324	0.295	0.324	0.400
178.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN-7545W-WEVE.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	49.10	N.A.	12.20
0-30	112.42	N.A.	28.00
0-40	196.07	N.A.	48.90
0-60	338.23	N.A.	84.30
0-80	386.60	N.A.	96.30
0-90	392.42	N.A.	97.80
10-90	377.39	N.A.	94.10
20-40	146.98	N.A.	36.60
20-50	227.96	N.A.	56.80
40-70	176.44	N.A.	44.00
60-80	48.37	N.A.	12.10
70-80	14.08	N.A.	3.50
80-90	5.82	N.A.	1.50
90-110	3.97	N.A.	1.00
90-120	5.16	N.A.	1.30
90-130	6.15	N.A.	1.50
90-150	7.81	N.A.	1.90
90-180	8.84	N.A.	2.20
110-180	4.87	N.A.	1.20
0-180	401.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	15.03
10-20	34.06
20-30	63.32
30-40	83.66
40-50	80.98
50-60	61.18
60-70	34.28
70-80	14.08
80-90	5.82
90-100	2.40
100-110	1.57
110-120	1.18
120-130	1.00
130-140	0.88
140-150	0.78
150-160	0.62
160-170	0.35
170-180	0.06

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN-7545W-WEVE.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	110	110	110	105	105	105	100	100	100	98
1	109	105	101	98	106	103	99	96	98	95	92	94	91	89	90	88	86	84
2	100	93	86	81	97	91	85	80	87	82	78	83	79	76	80	77	74	71
3	92	82	74	68	89	80	73	68	77	71	66	74	69	65	71	67	63	61
4	84	73	65	58	82	72	64	58	69	62	57	66	60	56	64	59	55	53
5	78	65	57	50	75	64	56	50	62	55	49	60	53	49	58	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	52	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	37	36
8	62	49	40	35	60	48	40	35	46	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	33	28	38	32	28	37	32	27	26

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN-7545W-WEVE.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	14.8	16.3	15.2	16.7	17.1	13.3	14.8	13.7	15.2	15.5
	3H	15.5	16.9	15.9	17.2	17.6	13.8	15.1	14.2	15.5	15.9
	4H	15.6	16.9	16.1	17.3	17.7	13.9	15.2	14.3	15.6	16.0
	6H	15.7	16.9	16.2	17.3	17.7	14.0	15.1	14.4	15.5	16.0
	8H	15.7	16.8	16.2	17.3	17.7	13.9	15.1	14.4	15.5	16.0
	12H	15.7	16.8	16.2	17.2	17.7	13.9	15.0	14.4	15.4	15.9

UGR Viewed Endwise

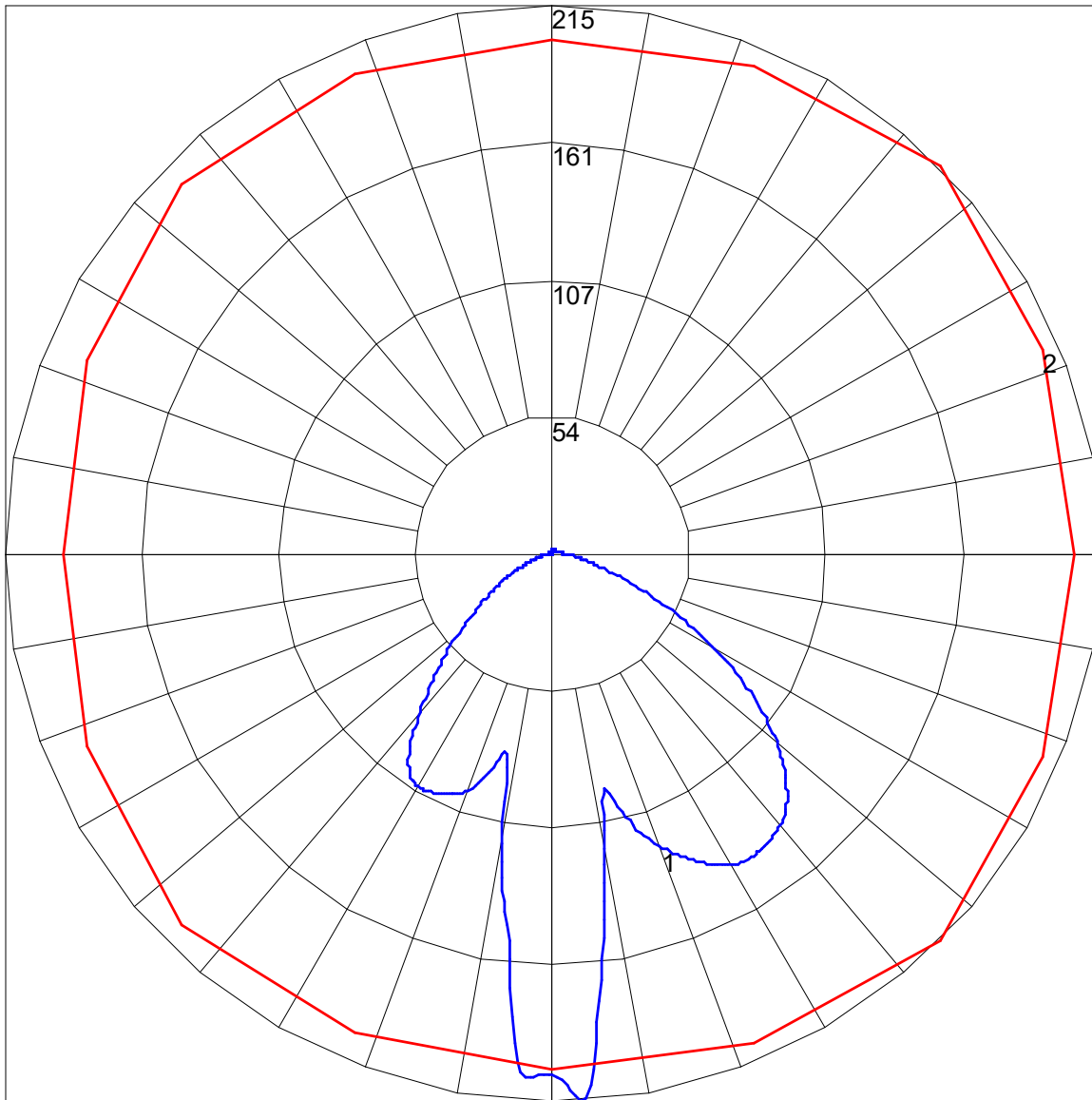
4H	2H	15.0	16.3	15.4	16.7	17.1	13.4	14.7	13.8	15.1	15.5
	3H	15.8	16.8	16.2	17.3	17.7	14.0	15.1	14.5	15.5	15.9
	4H	15.9	16.9	16.4	17.4	17.8	14.1	15.1	14.6	15.5	16.0
	6H	16.1	16.9	16.6	17.4	17.9	14.3	15.1	14.7	15.6	16.1
	8H	16.1	16.9	16.6	17.4	17.9	14.3	15.0	14.8	15.5	16.0
	12H	16.2	16.8	16.7	17.4	17.9	14.3	15.0	14.8	15.5	16.0

8H	4H	15.9	16.7	16.4	17.2	17.7	14.1	14.9	14.6	15.4	15.9
	6H	16.1	16.8	16.6	17.3	17.8	14.3	14.9	14.8	15.4	16.0
	8H	16.2	16.7	16.7	17.3	17.8	14.3	14.9	14.8	15.4	16.0
	12H	16.2	16.7	16.7	17.3	17.9	14.3	14.8	14.9	15.4	16.0

12H	4H	15.9	16.6	16.4	17.1	17.6	14.1	14.8	14.6	15.3	15.8
	6H	16.1	16.7	16.6	17.2	17.8	14.2	14.8	14.8	15.3	15.9
	8H	16.2	16.7	16.7	17.2	17.8	14.3	14.8	14.8	15.3	15.9

Maximum UGR = 17.9

POLAR GRAPH



Maximum Candela = 214.552 Located At Horizontal Angle = 45, Vertical Angle = 3
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)