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IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSN WEVE 3 LIGHT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 18097-B

[TESTLAB] LightLab International (www.LightLabInternational.com)

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

[LUMCAT] Artisan Glass (FSN) - Weave Glass (WEVE) 3-Light Bath Bar

[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: FSN WEVE 3-Light

[MORE] Steel formed housing and three frosted clear glass lenses with white interior.

[MORE] 30 LEDs mounted in three circular arrays with white plastic dome lenses.

[MORE] No driver.

[MORE] Operating at 120 VAC and 60 Hz.

[MORE] Simulated data from test of one and six lamp fixtures.

[ISSUE DATE] April 20, 2018

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1712
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	22.49
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.56
Spacing Criterion (90-270)	1.74
Spacing Criterion (Diagonal)	1.54
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 m
Luminous Width (90-270)	0.50 m
Luminous Height	0.14 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3054	3404	7245
55	2575	2685	5143
65	2303	2326	4280
75	2138	2105	4308
85	2058	1994	4821

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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	268.262	268.262	268.262	268.262	268.262	268.262	268.262	268.262	268.262
0.5	265.665	266.438	267.458	267.582	268.447	269.530	270.364	270.426	270.457
1.0	266.345	267.242	267.674	267.860	268.788	270.519	271.849	272.374	272.776
1.5	268.478	269.004	269.004	268.540	269.684	271.941	273.889	275.126	275.621
2.0	270.859	271.076	270.921	269.591	270.736	273.487	276.270	278.187	278.806
2.5	273.766	273.951	273.147	271.168	272.065	275.343	278.960	281.558	282.269
3.0	277.229	276.641	275.621	273.024	273.426	277.260	281.990	284.897	285.855
3.5	280.723	279.888	278.373	274.910	275.002	279.239	284.804	288.391	289.906
4.0	284.340	283.475	280.939	277.012	276.579	281.558	287.927	291.947	293.431
4.5	287.989	286.721	283.907	278.991	278.280	283.877	290.957	295.657	297.389
5.0	291.421	290.432	286.783	281.125	279.888	286.165	293.802	299.058	301.130
5.5	294.884	293.678	289.659	283.505	281.650	288.453	296.925	302.830	304.840
6.0	298.873	297.265	292.596	285.794	283.413	290.926	300.202	306.572	309.169
6.5	302.459	300.728	295.750	288.020	285.051	293.276	303.263	310.189	312.601
7.0	306.046	304.067	298.718	290.401	286.938	295.657	306.541	313.962	316.559
7.5	309.602	307.809	301.748	292.751	288.793	298.131	309.818	317.641	320.393
8.0	312.972	311.241	304.871	295.008	290.648	300.573	312.910	321.228	324.073
8.5	316.435	314.797	307.870	297.389	292.349	303.047	316.157	324.815	327.752
9.0	320.331	318.105	310.932	299.769	294.327	305.490	319.496	328.278	331.431
9.5	323.980	321.537	314.054	302.088	296.337	307.994	322.372	331.648	335.111
10.0	327.474	325.124	317.023	304.500	298.069	310.313	325.464	335.389	338.729
10.5	330.937	328.896	320.146	307.005	299.924	312.818	328.680	338.821	342.377
11.0	334.895	332.143	323.145	309.386	301.779	315.291	331.648	342.253	345.995
11.5	338.605	335.606	326.082	311.983	303.665	317.765	334.771	345.562	349.365
12.0	342.037	339.161	329.205	314.364	305.551	320.238	337.801	349.118	352.859
12.5	344.851	342.346	332.452	316.683	307.376	322.805	340.769	352.210	356.291
13.0	346.830	345.469	335.327	319.094	309.138	325.186	343.769	355.611	359.352
13.5	348.066	347.943	338.512	321.444	311.055	327.690	346.675	358.734	361.919
14.0	348.468	349.520	341.357	323.609	312.910	330.009	349.520	361.578	363.619
14.5	349.427	350.818	344.356	326.051	314.549	332.390	352.333	363.897	364.547
15.0	350.138	351.653	347.170	328.401	316.590	334.740	355.302	365.567	364.949
15.5	350.849	352.302	349.860	330.782	318.445	336.966	357.992	366.216	364.825
16.0	351.097	353.137	352.148	333.132	320.022	339.347	360.682	366.618	364.640
16.5	351.406	353.230	354.220	335.327	321.723	341.635	363.434	366.557	364.207
17.0	351.437	353.447	356.013	337.554	323.732	343.769	365.876	366.247	363.557
17.5	351.839	353.910	357.435	339.873	325.340	345.902	367.979	365.907	363.310
18.0	351.622	353.848	358.332	342.006	327.041	348.190	369.865	365.320	362.475
18.5	351.839	353.818	359.105	344.171	328.834	350.262	371.040	364.763	361.640
19.0	351.777	353.972	359.445	346.335	330.566	352.457	371.689	364.145	360.836
19.5	351.313	353.508	359.692	348.530	332.297	354.467	371.937	363.465	359.909
20.0	350.726	353.385	359.785	350.478	333.936	356.662	371.813	362.537	359.167
20.5	350.231	353.106	359.754	352.643	335.760	358.641	371.473	361.733	358.085
21.0	349.087	352.333	359.631	354.591	337.430	360.713	370.978	360.805	357.064
21.5	348.468	351.560	359.383	356.631	339.161	362.753	370.329	359.661	356.044
22.0	347.850	350.973	358.981	358.486	340.893	364.609	369.649	358.610	354.714
22.5	346.830	349.953	358.579	360.249	342.655	366.588	368.968	357.312	353.137
23.0	345.840	348.747	358.146	361.795	344.294	368.319	368.010	355.951	351.839
23.5	344.418	347.324	357.281	362.877	345.747	370.143	366.928	354.652	350.076
24.0	343.057	345.840	356.508	363.805	347.479	371.844	365.876	352.890	348.283
24.5	341.882	344.634	355.611	364.609	348.994	373.514	364.701	350.942	346.675
25.0	340.460	342.996	354.374	365.258	350.540	374.967	363.372	349.303	344.851
25.5	338.883	341.450	353.199	365.753	352.086	376.080	362.104	347.324	342.779
26.0	337.152	339.687	351.746	365.876	353.416	377.069	360.434	345.191	340.800
26.5	335.513	337.863	350.231	366.247	354.838	377.688	358.919	343.150	338.450

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CANDELA TABULATION - (Cont.)

27.0	333.256	335.853	348.530	366.124	356.137	377.966	357.219	340.769	336.224
27.5	331.710	334.152	346.768	365.876	357.404	378.028	355.209	338.574	333.936
28.0	329.422	332.081	344.696	365.289	358.579	377.781	353.199	336.131	331.462
28.5	327.226	329.669	342.594	364.640	359.909	377.038	351.004	333.627	328.803
29.0	325.124	327.381	340.522	363.465	361.207	376.080	348.623	330.937	326.144
29.5	322.805	325.217	338.172	362.259	362.382	374.781	346.211	328.247	323.423
30.0	320.486	322.836	335.668	360.775	363.341	373.143	343.614	325.495	320.424
30.5	317.579	320.362	333.101	358.950	364.578	371.380	340.707	322.527	317.301
31.0	315.291	318.074	330.411	357.342	365.536	369.401	337.894	319.496	314.364
31.5	312.818	315.446	327.814	355.425	366.618	367.237	334.925	316.528	311.055
32.0	309.880	312.694	325.217	353.199	367.670	364.732	331.895	313.405	307.963
32.5	307.221	310.097	322.155	351.035	368.288	361.980	328.711	310.066	304.315
33.0	304.346	307.190	319.311	348.468	369.061	358.981	325.619	306.665	300.944
33.5	301.037	304.531	316.435	345.747	369.649	356.044	322.403	303.171	296.925
34.0	298.347	301.470	313.251	343.181	369.463	352.519	318.940	299.800	293.524
34.5	295.472	298.502	310.282	339.996	368.999	349.149	315.570	296.214	289.782
35.0	292.070	295.379	307.067	336.812	367.453	345.624	311.890	292.565	285.794
35.5	289.040	292.503	303.975	333.534	365.351	341.975	308.427	288.886	281.867
36.0	285.824	289.133	300.635	330.102	362.630	338.110	304.809	284.897	278.125
36.5	282.423	285.979	297.512	326.392	359.414	334.431	301.130	281.248	274.013
37.0	279.424	282.825	294.173	322.588	355.364	330.287	297.358	277.414	270.086
37.5	276.208	279.517	290.648	318.723	350.293	326.237	293.524	273.333	265.912
38.0	272.807	276.116	287.432	314.858	344.696	322.155	289.751	269.313	261.800
38.5	269.530	272.745	283.907	310.715	338.883	317.858	285.639	265.077	257.811
39.0	266.221	269.530	280.537	306.603	332.885	313.745	281.743	261.058	253.760
39.5	263.067	266.067	277.043	302.336	326.886	309.416	277.693	256.822	249.493
40.0	260.346	262.758	273.456	298.100	320.857	305.149	273.704	252.678	245.505
40.5	257.193	259.388	269.870	293.926	315.137	300.759	269.468	248.504	241.362
41.0	254.008	256.141	266.376	289.535	309.416	296.461	265.355	244.330	237.373
41.5	251.627	252.957	262.634	285.453	303.882	292.070	261.088	240.094	233.539
42.0	249.030	249.772	258.986	281.156	298.749	287.680	256.883	235.951	229.674
42.5	246.865	246.618	255.245	276.827	293.462	283.196	252.493	231.869	225.963
43.0	245.010	243.681	251.596	272.560	288.484	278.806	248.102	227.880	222.098
43.5	243.402	241.145	247.824	268.076	283.815	274.199	243.804	224.046	218.883
44.0	242.073	238.579	244.175	263.686	279.146	269.561	239.228	219.996	215.760
44.5	240.094	236.600	240.496	259.542	274.631	265.015	234.806	216.440	212.822
45.0	238.455	234.683	236.724	254.874	270.117	260.192	230.323	213.008	210.442
45.5	236.909	232.859	233.260	250.576	265.912	255.616	226.087	209.885	208.092
46.0	235.208	231.343	229.643	246.185	261.460	250.730	221.696	206.978	205.865
46.5	233.415	229.612	226.118	241.794	257.285	245.845	217.337	204.443	203.515
47.0	231.591	227.788	222.840	237.156	252.802	240.990	212.822	202.093	201.135
47.5	229.983	226.180	219.439	232.704	248.257	235.981	208.710	199.743	198.754
48.0	228.344	224.541	216.533	228.251	243.711	231.003	204.598	197.517	196.280
48.5	226.551	222.655	213.688	223.552	239.012	225.871	200.485	195.167	194.209
49.0	225.098	220.985	211.245	219.161	234.219	220.985	196.713	192.910	191.982
49.5	223.428	219.254	208.741	214.523	229.303	215.883	193.064	190.591	189.663
50.0	221.789	217.615	206.546	210.040	224.294	211.029	189.849	188.457	187.592
50.5	220.150	215.853	204.288	205.742	219.037	205.989	186.819	186.138	185.427
51.0	218.666	214.276	202.371	201.537	213.781	200.918	184.067	184.036	183.139
51.5	217.306	212.482	200.640	196.837	208.494	196.002	181.624	181.779	181.191
52.0	215.512	211.029	199.094	192.724	202.897	191.117	179.305	179.831	179.181
52.5	214.276	209.421	197.362	188.581	197.177	186.293	177.326	177.697	177.141
53.0	212.730	207.751	195.724	184.314	191.766	181.531	175.100	175.502	175.131
53.5	211.431	206.236	194.023	180.635	186.169	177.017	173.028	173.894	173.090
54.0	210.101	204.876	192.446	176.831	180.696	172.534	171.049	171.668	171.266
54.5	208.339	203.268	190.776	173.368	175.502	168.421	169.040	169.782	169.596

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55.0	206.948	202.031	189.169	170.246	170.215	164.247	167.061	167.803	167.617
55.5	206.020	200.640	187.530	167.648	165.236	160.351	165.082	166.009	165.979
56.0	204.752	199.218	186.015	164.989	160.227	157.074	163.103	164.185	164.123
56.5	203.485	197.795	184.314	162.856	155.559	153.951	161.186	162.423	162.330
57.0	202.402	196.651	182.799	160.568	151.199	151.570	159.393	160.598	160.660
57.5	201.104	195.105	181.284	158.403	146.870	149.684	157.537	158.836	158.991
58.0	200.083	193.868	179.676	156.826	142.850	148.138	155.559	157.166	157.290
58.5	198.661	192.724	178.316	155.620	139.326	146.499	153.796	155.435	155.497
59.0	197.702	191.426	176.893	154.167	136.326	144.984	152.065	153.672	153.920
59.5	196.497	190.189	175.409	152.899	133.853	143.500	150.209	152.157	152.497
60.0	195.198	189.045	174.049	151.570	131.997	141.954	148.602	150.488	150.704
60.5	194.054	187.870	172.719	150.209	130.451	140.315	146.870	148.756	149.313
61.0	193.034	186.664	171.328	148.787	129.184	138.707	145.108	147.241	147.519
61.5	192.199	185.613	169.751	147.519	128.040	137.192	143.562	145.633	146.190
62.0	190.962	184.376	168.576	145.942	126.958	135.708	141.861	144.087	144.489
62.5	189.818	183.201	167.246	144.675	125.690	134.100	140.346	142.572	142.881
63.0	188.828	182.057	165.855	143.283	124.484	132.554	138.800	140.841	141.552
63.5	187.530	180.913	164.618	141.923	123.247	131.008	137.223	139.511	139.913
64.0	186.509	179.923	163.474	140.624	121.979	129.617	135.584	138.027	138.522
64.5	185.767	178.810	162.114	139.171	120.681	128.040	134.162	136.605	137.007
65.0	184.716	177.697	161.093	137.872	119.444	126.617	132.647	135.059	135.584
65.5	183.541	176.615	159.702	136.635	118.145	124.979	130.977	133.791	134.131
66.0	182.521	175.657	158.589	135.275	116.878	123.587	129.586	132.307	132.740
66.5	181.624	174.482	157.352	133.853	115.641	122.165	128.040	130.853	131.441
67.0	180.666	173.585	156.146	132.801	114.157	120.619	126.463	129.400	129.988
67.5	179.522	172.503	154.909	131.503	113.013	119.104	125.195	128.040	128.565
68.0	178.532	171.390	153.827	130.019	111.807	117.898	123.804	126.617	127.298
68.5	177.666	170.369	152.714	128.875	110.446	116.290	122.350	125.381	126.092
69.0	176.770	169.473	151.508	127.607	109.117	115.053	121.083	123.989	124.484
69.5	175.780	168.421	150.426	126.246	107.880	113.724	119.660	122.660	123.247
70.0	174.914	167.525	149.220	125.133	106.550	112.209	118.393	121.361	122.072
70.5	173.770	166.473	148.014	123.927	105.252	110.879	117.032	120.124	120.464
71.0	172.781	165.484	147.148	122.536	103.984	109.550	115.672	118.702	119.382
71.5	172.008	164.711	146.066	121.454	102.747	108.220	114.342	117.496	118.114
72.0	171.111	163.690	144.922	120.186	101.541	106.798	113.105	116.166	116.878
72.5	170.276	162.732	143.964	118.887	100.274	105.561	111.807	114.991	115.579
73.0	169.256	161.804	142.912	117.867	99.037	104.231	110.601	113.662	114.373
73.5	168.298	160.939	141.830	116.599	97.800	102.902	109.271	112.518	113.105
74.0	167.648	159.918	140.841	115.363	96.625	101.634	108.096	111.281	111.961
74.5	166.937	158.960	139.727	114.342	95.295	100.335	106.860	110.075	110.694
75.0	165.917	158.187	138.769	113.260	94.213	99.191	105.715	108.962	109.426
75.5	164.896	157.228	137.903	112.023	93.038	98.016	104.479	107.633	108.282
76.0	164.062	156.362	136.945	110.972	91.771	96.687	103.242	106.488	107.045
76.5	163.072	155.497	135.862	109.921	90.565	95.605	102.067	105.314	105.963
77.0	162.083	154.569	135.089	108.807	89.513	94.430	100.830	104.231	104.850
77.5	161.588	153.827	134.069	107.663	88.277	93.131	99.717	102.995	103.829
78.0	160.660	152.899	132.987	106.674	87.256	92.080	98.604	101.850	102.593
78.5	159.609	151.972	132.214	105.437	86.050	90.936	97.491	100.737	101.510
79.0	159.052	151.106	131.286	104.541	84.937	89.699	96.316	99.655	100.181
79.5	157.970	150.271	130.235	103.613	83.824	88.555	95.203	98.480	99.160
80.0	157.476	149.405	129.462	102.407	82.773	87.442	94.090	97.398	98.078
80.5	156.579	148.663	128.473	101.479	81.783	86.360	92.915	96.409	97.120
81.0	155.682	147.859	127.576	100.490	80.701	85.246	91.987	95.265	95.852
81.5	155.095	146.901	126.772	99.501	79.805	84.319	90.936	94.244	94.832
82.0	154.074	146.097	125.813	98.635	78.784	83.206	89.761	93.317	93.873
82.5	153.394	145.448	124.855	97.738	77.733	82.062	88.771	92.265	92.853

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CANDELA TABULATION - (Cont.)

83.0	152.374	144.489	124.113	96.718	76.713	81.134	87.782	91.214	91.771
83.5	151.632	143.809	123.278	95.790	75.785	80.176	86.731	90.132	90.688
84.0	150.982	143.067	122.350	95.017	74.826	79.124	85.803	89.235	89.668
84.5	150.178	142.170	121.670	94.028	73.930	78.135	84.752	88.122	88.617
85.0	149.529	141.366	120.866	93.224	73.095	77.145	83.855	87.225	87.875
85.5	148.818	140.624	119.970	92.389	72.105	76.094	82.989	86.236	86.792
86.0	148.076	139.851	119.197	91.492	71.302	75.259	81.876	85.061	86.019
86.5	147.303	139.233	118.578	90.719	70.405	74.301	80.949	84.195	84.752
87.0	146.468	138.460	117.682	90.132	69.601	73.404	80.114	83.391	83.886
87.5	145.788	137.656	117.032	89.204	68.983	72.569	79.186	82.371	83.082
88.0	145.138	137.192	116.383	88.617	68.055	71.734	78.382	81.536	82.062
88.5	144.427	136.481	115.672	87.967	67.498	70.900	77.516	80.701	81.165
89.0	144.304	136.079	115.146	87.256	66.849	70.312	76.682	79.743	80.145
89.5	144.365	136.048	115.146	87.194	66.385	69.694	75.909	78.970	79.372
90.0	144.087	136.234	115.363	87.318	66.633	69.539	75.599	78.506	78.846
90.5	144.551	136.419	115.393	87.411	66.633	69.601	75.414	78.259	78.691
91.0	144.953	136.543	115.579	87.596	66.571	69.601	75.259	78.135	78.537
91.5	145.077	136.914	115.734	87.782	66.787	69.632	75.228	78.073	78.259
92.0	145.324	136.883	116.043	87.720	66.818	69.632	75.074	77.826	78.166
92.5	145.510	137.130	116.166	87.967	67.004	69.539	74.950	77.578	77.949
93.0	145.757	137.347	116.166	88.184	66.942	69.354	74.950	77.486	77.826
93.5	146.128	137.501	116.599	88.277	67.251	69.384	74.950	77.362	77.609
94.0	146.283	137.810	116.723	88.524	67.189	69.323	74.672	77.238	77.362
94.5	146.499	137.903	116.909	88.586	67.344	69.168	74.765	77.022	76.991
95.0	146.963	138.120	117.032	88.740	67.344	69.168	74.548	76.589	76.774
95.5	146.901	138.460	117.187	88.926	67.437	69.137	74.394	76.465	76.682
96.0	147.272	138.614	117.403	89.050	67.498	69.075	74.239	76.311	76.280
96.5	147.457	138.769	117.774	89.142	67.684	68.983	74.053	75.970	76.094
97.0	147.674	138.985	117.712	89.359	67.653	68.921	73.961	75.754	75.692
97.5	147.829	139.171	117.898	89.606	67.684	68.766	73.868	75.692	75.538
98.0	148.169	139.202	118.114	89.575	67.931	68.828	73.590	75.383	75.290
98.5	148.200	139.480	118.269	89.854	67.962	68.642	73.497	75.167	74.981
99.0	148.385	139.666	118.269	90.101	68.055	68.457	73.435	74.919	74.734
99.5	148.602	139.727	118.485	90.008	68.117	68.457	73.095	74.672	74.301
100.0	148.663	139.882	118.578	90.194	68.271	68.333	73.033	74.455	74.115
100.5	148.911	139.913	118.609	90.348	68.302	68.240	72.940	74.146	73.806
101.0	148.880	140.006	118.733	90.534	68.457	68.117	72.755	73.806	73.497
101.5	149.220	140.068	118.856	90.596	68.519	67.900	72.538	73.621	73.064
102.0	149.096	140.160	118.826	90.750	68.766	67.838	72.322	73.280	72.940
102.5	149.189	140.160	118.856	90.781	68.766	67.746	72.044	72.971	72.631
103.0	149.220	140.253	118.918	90.905	68.952	67.498	71.796	72.724	72.353
103.5	149.220	140.284	118.856	91.090	68.890	67.406	71.611	72.538	71.796
104.0	149.467	140.315	118.733	90.905	68.952	67.251	71.332	72.229	71.673
104.5	149.529	140.439	118.764	91.090	69.013	67.065	70.961	71.858	71.178
105.0	149.251	140.470	118.702	91.183	69.199	66.880	70.621	71.642	70.838
105.5	149.405	140.284	118.671	90.998	69.261	66.725	70.281	71.240	70.436
106.0	149.529	140.315	118.764	91.059	69.168	66.602	69.941	70.807	70.188
106.5	149.467	140.377	118.702	91.059	69.261	66.447	69.632	70.498	69.786
107.0	149.560	140.377	118.609	91.028	69.168	66.323	69.261	70.034	69.477
107.5	149.467	140.284	118.578	90.998	69.168	66.138	68.952	69.663	68.952
108.0	149.467	140.253	118.516	91.152	69.261	65.767	68.611	69.044	68.426
108.5	149.529	140.222	118.578	90.998	69.137	65.705	68.302	68.673	67.869
109.0	149.251	140.191	118.424	90.998	69.199	65.365	67.962	68.148	67.529
109.5	149.344	139.975	118.269	90.874	69.044	65.272	67.622	67.746	66.756
110.0	149.189	140.006	118.176	90.874	69.137	65.118	67.282	67.127	66.509
110.5	149.220	139.758	118.176	90.843	69.013	64.932	66.849	66.818	65.736

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CANDELA TABULATION - (Cont.)

111.0	149.034	139.789	118.053	90.936	69.044	64.746	66.571	66.292	65.179
111.5	148.942	139.697	118.053	90.812	68.890	64.592	66.076	65.860	64.901
112.0	148.571	139.635	117.929	90.781	68.859	64.283	65.767	65.303	64.221
112.5	148.663	139.511	117.682	90.688	68.921	64.190	65.489	64.870	63.602
113.0	148.602	139.326	117.682	90.596	68.890	63.912	65.148	64.406	63.046
113.5	148.416	139.171	117.527	90.472	68.797	63.788	64.654	63.757	62.613
114.0	148.169	139.078	117.310	90.472	68.766	63.633	64.345	63.417	62.118
114.5	148.230	138.893	117.218	90.317	68.735	63.324	64.035	62.706	61.500
115.0	147.859	138.676	116.939	90.194	68.581	63.139	63.386	62.026	60.789
115.5	147.736	138.707	116.816	90.101	68.611	62.891	63.231	61.407	60.232
116.0	147.427	138.274	116.568	89.884	68.364	62.860	62.706	60.572	59.583
116.5	147.457	138.151	116.414	89.854	68.457	62.489	62.180	59.923	58.934
117.0	147.056	137.934	116.166	89.699	68.302	62.366	61.964	59.335	57.820
117.5	146.715	137.625	116.074	89.544	68.148	62.149	61.624	58.501	57.233
118.0	146.530	137.408	115.703	89.297	68.024	61.871	61.129	57.882	56.243
118.5	146.252	137.285	115.517	89.173	67.838	61.654	60.696	57.202	55.532
119.0	145.881	136.883	115.301	89.111	67.746	61.469	60.449	56.491	54.667
119.5	145.571	136.697	115.084	88.957	67.746	61.283	59.892	55.687	53.739
120.0	145.293	136.512	114.899	88.709	67.529	61.067	59.645	54.852	52.904
120.5	145.077	136.017	114.651	88.400	67.375	60.758	59.181	54.110	52.100
121.0	144.767	135.801	114.280	88.400	67.127	60.541	58.686	53.430	51.265
121.5	144.211	135.584	113.971	88.246	67.127	60.232	58.470	52.750	50.400
122.0	143.964	135.120	113.755	87.875	67.035	59.985	58.037	51.977	49.503
122.5	143.531	134.811	113.538	87.658	66.787	59.892	57.635	51.327	48.761
123.0	143.191	134.533	113.136	87.565	66.633	59.521	57.295	50.616	47.926
123.5	142.727	133.945	112.796	87.163	66.509	59.335	56.955	49.998	46.906
124.0	142.665	133.513	112.580	87.040	66.447	59.150	56.398	49.256	46.225
124.5	141.892	133.203	112.240	86.823	66.200	58.841	56.120	48.637	45.483
125.0	141.366	132.709	111.930	86.576	65.983	58.779	55.842	47.957	44.710
125.5	140.841	132.307	111.467	86.236	65.829	58.501	55.501	47.369	44.123
126.0	140.222	131.750	111.126	86.050	65.767	58.377	55.285	46.844	43.474
126.5	139.975	131.224	110.725	85.741	65.612	58.222	54.883	46.225	42.824
127.0	139.047	130.823	110.384	85.587	65.519	58.068	54.419	45.731	42.175
127.5	138.429	130.204	109.921	85.308	65.396	57.820	54.172	45.298	41.680
128.0	137.996	129.648	109.519	84.968	65.179	57.759	53.894	44.618	41.124
128.5	137.316	129.029	109.086	84.783	65.179	57.697	53.492	44.061	40.598
129.0	136.635	128.689	108.715	84.443	64.901	57.418	53.182	43.443	40.072
129.5	136.172	128.009	108.189	84.226	64.777	57.233	52.966	42.917	39.732
130.0	135.275	127.576	107.756	83.793	64.654	56.893	52.409	42.422	39.237
130.5	134.749	126.958	107.261	83.577	64.654	56.800	52.193	41.958	38.588
131.0	134.131	126.339	106.798	83.391	64.345	56.615	51.884	41.526	38.310
131.5	133.605	125.813	106.396	82.989	64.221	56.491	51.513	40.938	38.032
132.0	132.709	125.195	105.808	82.897	64.128	56.367	51.204	40.505	37.506
132.5	131.905	124.391	105.375	82.433	63.943	56.182	50.987	40.041	37.042
133.0	131.348	123.804	104.881	82.062	63.664	55.996	50.616	39.639	36.949
133.5	130.513	123.185	104.355	81.814	63.633	55.842	50.338	39.330	36.486
134.0	129.833	122.443	103.860	81.443	63.355	55.780	49.998	38.897	36.331
134.5	129.184	121.763	103.335	81.041	63.324	55.594	49.781	38.434	35.929
135.0	128.411	121.114	102.685	80.670	63.077	55.347	49.472	38.155	35.620
135.5	127.669	120.279	102.283	80.361	62.891	55.378	49.163	37.815	35.311
136.0	126.834	119.846	101.665	79.990	62.675	55.038	48.792	37.259	34.909
136.5	126.061	119.135	101.139	79.743	62.520	54.883	48.452	37.011	34.507
137.0	125.195	118.300	100.583	79.279	62.366	54.697	48.328	36.640	34.074
137.5	124.329	117.589	100.026	78.939	62.056	54.543	47.864	36.207	33.919
138.0	123.402	116.847	99.439	78.630	61.995	54.265	47.710	36.022	33.826
138.5	122.691	116.043	98.944	78.228	61.809	54.265	47.586	35.713	33.425

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CANDELA TABULATION - (Cont.)

139.0	121.763	115.393	98.295	77.764	61.469	54.172	47.153	35.280	33.177
139.5	120.959	114.559	97.676	77.393	61.314	53.955	46.937	35.032	32.868
140.0	120.341	113.817	96.841	77.084	61.222	53.894	46.720	34.692	32.559
140.5	119.475	112.920	96.409	76.496	60.851	53.615	46.318	34.445	32.280
141.0	118.609	112.332	95.728	76.280	60.727	53.399	46.194	34.012	31.909
141.5	117.867	111.343	95.172	75.785	60.480	53.368	45.885	33.703	31.600
142.0	116.970	110.601	94.461	75.290	60.170	53.182	45.638	33.332	31.229
142.5	115.888	109.828	93.873	74.919	59.985	52.966	45.483	33.177	30.858
143.0	115.022	108.931	93.193	74.424	59.768	52.904	45.267	32.682	30.765
143.5	114.095	108.034	92.451	73.930	59.521	52.626	44.896	32.404	30.487
144.0	113.229	107.200	91.801	73.559	59.181	52.409	44.834	32.157	30.302
144.5	112.301	106.334	91.152	73.157	58.964	52.471	44.772	31.971	30.085
145.0	111.312	105.592	90.565	72.538	58.686	52.224	44.432	31.569	29.931
145.5	110.415	104.726	89.884	72.198	58.501	52.007	44.216	31.415	29.900
146.0	109.395	103.798	89.142	71.734	58.191	51.760	44.123	31.198	30.085
146.5	108.498	102.840	88.369	71.240	57.851	51.667	43.845	30.734	30.054
147.0	107.602	102.005	87.782	70.745	57.542	51.482	43.875	30.518	29.961
147.5	106.674	100.954	87.071	70.250	57.449	51.327	43.597	30.333	30.054
148.0	105.561	100.088	86.298	69.786	57.047	51.111	43.412	30.085	30.116
148.5	104.510	99.253	85.648	69.261	56.893	50.925	43.257	29.807	30.178
149.0	103.396	98.418	84.875	68.828	56.522	50.802	43.195	29.529	30.333
149.5	102.623	97.460	84.133	68.210	56.182	50.709	43.010	29.405	30.487
150.0	101.572	96.409	83.391	67.777	55.811	50.400	42.855	29.188	30.456
150.5	100.552	95.605	82.618	67.282	55.625	50.338	42.762	29.065	30.642
151.0	99.562	94.492	81.938	66.664	55.285	50.090	42.577	29.034	30.858
151.5	98.666	93.595	81.227	66.231	54.976	49.967	42.422	28.787	30.734
152.0	97.367	92.760	80.392	65.798	54.697	49.719	42.299	28.508	30.673
152.5	96.316	91.678	79.712	65.148	54.326	49.596	42.051	28.477	30.796
153.0	95.512	90.657	78.784	64.499	54.079	49.441	42.082	28.354	30.765
153.5	94.275	89.761	78.135	64.004	53.708	49.194	42.020	28.323	30.889
154.0	93.224	88.771	77.300	63.510	53.399	48.977	41.773	28.261	30.796
154.5	92.080	87.720	76.434	62.891	53.121	48.761	41.773	28.261	30.734
155.0	90.936	86.638	75.692	62.304	52.842	48.513	41.587	28.230	30.734
155.5	89.915	85.587	74.919	61.685	52.471	48.328	41.340	28.292	30.920
156.0	88.926	84.659	74.084	61.253	52.100	48.204	41.340	28.323	30.920
156.5	87.565	83.639	73.188	60.572	51.884	47.926	41.340	28.199	31.106
157.0	86.731	82.680	72.476	59.923	51.389	47.740	41.155	27.952	31.044
157.5	85.525	81.629	71.580	59.335	50.987	47.431	41.093	27.828	30.889
158.0	84.443	80.485	70.869	58.841	50.709	47.277	41.062	27.612	30.889
158.5	83.484	79.588	70.127	58.161	50.245	47.029	40.907	27.210	30.858
159.0	82.278	78.599	69.168	57.542	49.874	46.689	40.845	27.055	30.889
159.5	81.165	77.486	68.364	57.016	49.503	46.596	40.783	26.684	30.920
160.0	80.021	76.372	67.498	56.243	49.101	46.256	40.567	26.653	30.889
160.5	79.001	75.352	66.694	55.656	48.761	46.133	40.382	26.498	30.858
161.0	77.795	74.239	65.767	55.099	48.421	45.823	40.196	26.437	31.106
161.5	76.496	73.188	64.994	54.296	47.957	45.576	39.918	26.066	31.229
162.0	75.290	72.136	63.943	53.615	47.586	45.267	39.639	25.818	31.384
162.5	74.146	71.054	63.139	53.090	47.369	45.050	39.207	25.540	31.384
163.0	73.002	69.910	62.273	52.378	46.782	44.741	38.248	25.354	31.446
163.5	71.765	68.890	61.314	51.760	46.535	44.432	37.228	24.891	31.631
164.0	70.745	67.746	60.480	51.173	46.164	44.339	35.960	24.118	31.538
164.5	69.477	66.571	59.583	50.338	45.700	43.968	34.383	23.437	30.951
165.0	68.271	65.396	58.686	49.688	45.267	43.381	32.930	23.097	30.023
165.5	66.973	64.345	57.759	48.946	44.865	42.701	31.384	22.943	28.787
166.0	65.860	63.200	56.800	48.359	44.339	41.618	29.529	22.819	27.364
166.5	64.530	61.995	55.718	47.710	43.752	40.134	27.983	22.510	25.354

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CANDELA TABULATION - (Cont.)

167.0	63.170	60.851	54.852	47.091	42.824	38.557	26.746	22.355	22.974
167.5	61.964	59.707	53.955	46.318	41.495	36.671	25.509	21.706	20.902
168.0	60.572	58.346	52.719	45.731	39.639	34.630	24.736	21.273	18.428
168.5	59.305	57.140	51.791	44.989	38.001	32.713	24.241	20.747	16.140
169.0	58.006	56.027	50.925	43.875	35.774	30.673	23.685	19.727	13.419
169.5	56.645	54.852	49.781	42.515	33.796	28.694	23.468	18.614	10.513
170.0	55.223	53.584	48.637	40.691	31.569	27.179	23.035	17.006	7.823
170.5	53.863	51.977	47.431	38.805	29.683	26.189	22.417	15.027	5.658
171.0	52.471	50.492	45.669	36.826	28.106	25.200	21.922	13.296	3.463
171.5	51.204	49.225	44.154	34.754	27.024	24.643	21.057	11.811	2.288
172.0	49.719	47.802	42.670	32.775	26.066	24.241	19.572	10.049	2.041
172.5	48.452	45.854	40.598	31.322	25.231	23.530	17.841	8.317	2.010
173.0	46.225	44.092	38.619	29.961	24.520	22.726	16.078	6.648	1.917
173.5	43.566	42.082	36.393	28.354	23.623	21.087	13.759	5.627	1.639
174.0	42.144	39.485	33.826	27.055	22.881	18.707	11.379	5.195	1.422
174.5	39.825	36.980	31.507	25.571	21.489	16.326	9.090	4.669	1.206
175.0	37.042	34.290	29.281	23.716	19.480	13.605	7.266	4.267	0.928
175.5	33.425	31.167	26.653	21.830	17.006	10.636	6.215	3.525	0.680
176.0	29.807	27.704	24.056	19.572	14.378	8.070	5.504	2.937	0.897
176.5	25.911	23.808	20.995	16.388	11.317	6.215	4.700	2.072	0.711
177.0	21.366	19.851	17.563	13.141	8.565	5.225	3.958	1.360	0.587
177.5	16.666	15.398	14.316	10.235	6.308	4.607	3.339	0.897	0.587
178.0	11.657	10.791	10.915	6.957	4.638	3.834	2.628	0.742	0.989
178.5	7.421	6.895	7.204	4.422	3.741	3.154	1.979	0.804	0.680
179.0	4.360	4.143	3.865	2.752	2.906	2.505	1.546	0.742	0.773
179.5	1.546	2.350	1.484	1.484	2.010	2.010	0.959	0.773	1.082
180.0	1.113	1.113	1.113	1.113	1.113	1.113	1.113	1.113	1.113

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	126.04	N.A.	7.40
0-30	289.43	N.A.	16.90
0-40	487.03	N.A.	28.50
0-60	833.37	N.A.	48.70
0-80	1102.55	N.A.	64.40
0-90	1211.33	N.A.	70.80
10-90	1182.77	N.A.	69.10
20-40	360.99	N.A.	21.10
20-50	547.23	N.A.	32.00
40-70	489.06	N.A.	28.60
60-80	269.19	N.A.	15.70
70-80	126.47	N.A.	7.40
80-90	108.77	N.A.	6.40
90-110	198.87	N.A.	11.60
90-120	286.53	N.A.	16.70
90-130	359.81	N.A.	21.00
90-150	458.68	N.A.	26.80
90-180	500.52	N.A.	29.20
110-180	301.65	N.A.	17.60
0-180	1711.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	28.56
10-20	97.48
20-30	163.40
30-40	197.59
40-50	186.24
50-60	160.10
60-70	142.72
70-80	126.47
80-90	108.77
90-100	101.35
100-110	97.51
110-120	87.67
120-130	73.28
130-140	57.43
140-150	41.44
150-160	26.53
160-170	13.04
170-180	2.27

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN WEVE 3 LIGHT.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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	100	94	89	85	94	89	85	81	80	76	73	71	68	66	63	61	59	54
2	90	81	74	68	85	77	70	65	69	63	59	61	57	53	54	51	48	44
3	82	71	63	56	77	67	60	54	60	54	49	54	49	44	47	43	40	37
4	75	63	54	47	70	59	51	45	53	47	41	48	42	38	42	38	34	31
5	69	56	47	40	65	53	45	39	48	41	36	43	37	33	38	33	30	27
6	63	50	41	35	60	48	40	34	43	36	31	38	33	28	34	30	26	23
7	59	45	37	31	55	43	35	29	39	32	27	35	29	25	31	27	23	21
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21	18
9	51	38	30	24	48	36	28	23	33	26	22	29	24	20	27	22	19	16
10	47	35	27	22	45	33	26	21	30	24	20	27	22	18	25	20	17	15

IES INDOOR REPORT
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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	13.1	14.3	13.8	15.0	16.0	11.3	12.5	12.1	13.3	14.2
	3H	15.4	16.5	16.1	17.2	18.2	13.2	14.2	13.9	15.0	16.0
	4H	16.5	17.5	17.3	18.3	19.3	14.0	15.0	14.7	15.7	16.7
	6H	17.6	18.5	18.4	19.3	20.3	14.7	15.6	15.5	16.4	17.4
	8H	18.1	19.0	18.9	19.8	20.8	15.0	15.9	15.8	16.7	17.7
	12H	18.6	19.4	19.4	20.3	21.3	15.3	16.2	16.1	17.0	18.0

UGR Viewed Endwise

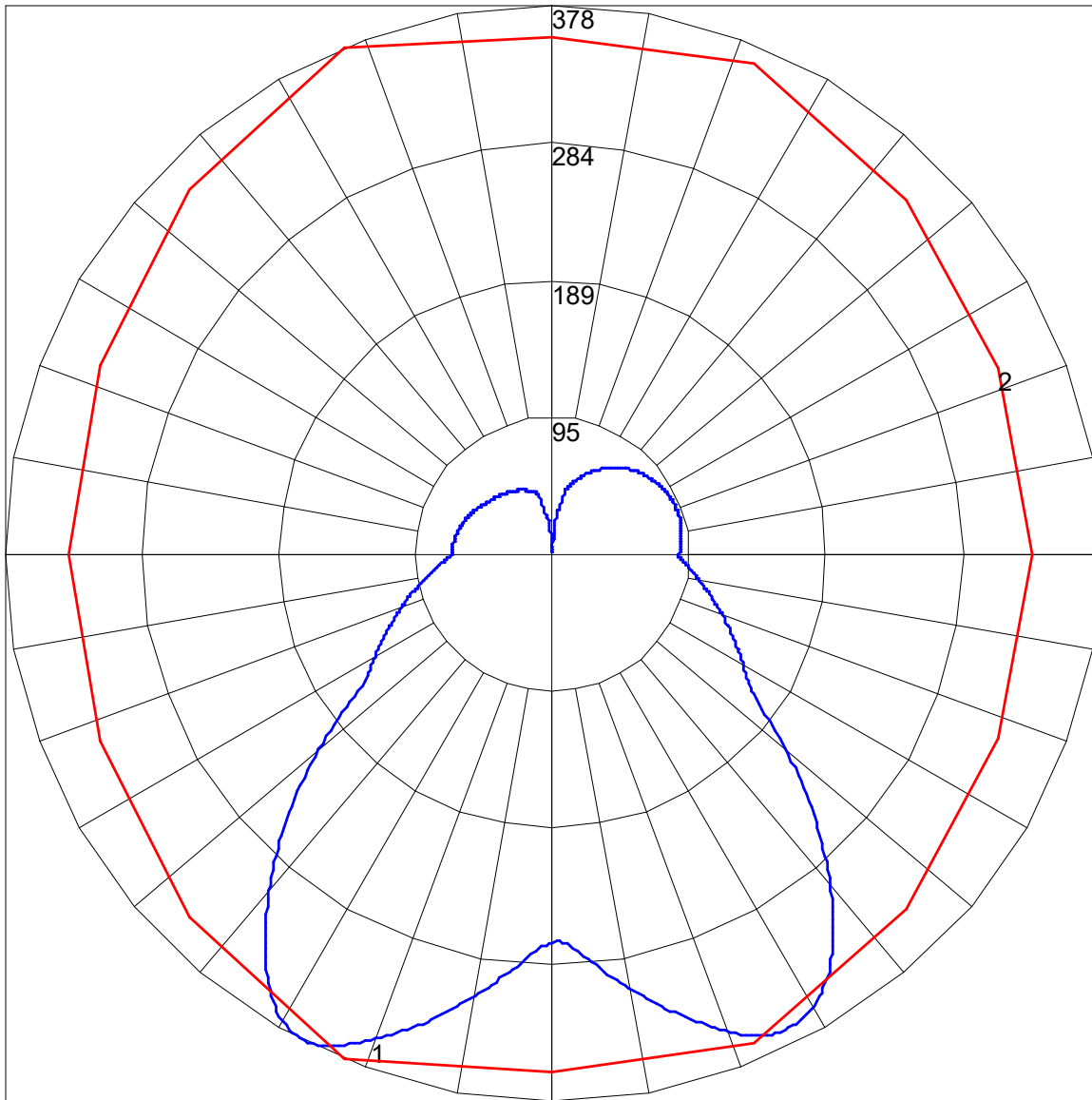
4H	2H	13.7	14.7	14.5	15.5	16.5	12.3	13.3	13.1	14.1	15.1
	3H	16.3	17.2	17.1	18.0	19.0	14.3	15.2	15.1	16.0	17.0
	4H	17.6	18.4	18.4	19.2	20.2	15.3	16.1	16.1	16.9	17.9
	6H	18.8	19.5	19.7	20.4	21.4	16.1	16.8	17.0	17.7	18.7
	8H	19.4	20.1	20.3	20.9	22.0	16.5	17.2	17.4	18.0	19.1
	12H	20.0	20.6	20.9	21.5	22.5	16.9	17.5	17.8	18.4	19.4

8H	4H	18.0	18.6	18.8	19.5	20.5	16.0	16.6	16.8	17.5	18.5
	6H	19.5	20.0	20.3	20.9	21.9	17.1	17.6	17.9	18.5	19.5
	8H	20.2	20.7	21.1	21.6	22.7	17.6	18.1	18.4	19.0	20.0
	12H	21.0	21.5	21.9	22.3	23.4	18.1	18.5	18.9	19.4	20.5

12H	4H	18.1	18.7	18.9	19.5	20.6	16.2	16.8	17.0	17.6	18.7
	6H	19.6	20.1	20.5	21.0	22.1	17.4	17.9	18.2	18.7	19.8
	8H	20.5	20.9	21.3	21.8	22.9	18.0	18.4	18.8	19.3	20.4

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 378.028 Located At Horizontal Angle = 112.5, Vertical Angle = 27.5
1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)