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IES INDOOR REPORT PHOTOMETRIC FILENAME : FAB 4 LIGHT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 18097-C
[TESTLAB] LightLab International (www.LightLabInternational.com)
[MANUFAC] Justice Design Group, Los Angeles, CA 90071
[LUMCAT] Textile Woven Fabric (FAB) 4-Light Bath Bar
[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: FAB 4-Light
[MORE] Steel formed housing and four woven fabric lenses.
[MORE] 40 LEDs mounted in four 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 18, 2018

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1409
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	47
Total Luminaire Watts	29.99
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)	0.66 m
Luminous Height	0.14 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1885	2146	4733
55	1590	1698	3421
65	1422	1476	2918
75	1320	1340	3051
85	1271	1274	3678

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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	220.804	220.804	220.804	220.804	220.804	220.804	220.804	220.804	220.804
0.5	218.666	219.303	220.143	220.244	220.957	221.848	222.535	222.586	222.611
1.0	219.226	219.964	220.321	220.473	221.237	222.662	223.756	224.189	224.520
1.5	220.982	221.415	221.415	221.033	221.975	223.833	225.436	226.454	226.861
2.0	222.942	223.120	222.993	221.899	222.840	225.105	227.396	228.974	229.483
2.5	225.334	225.487	224.825	223.197	223.935	226.632	229.610	231.748	232.333
3.0	228.185	227.701	226.861	224.724	225.054	228.210	232.104	234.496	235.285
3.5	231.061	230.373	229.126	226.276	226.352	229.839	234.420	237.372	238.619
4.0	234.038	233.326	231.239	228.007	227.650	231.748	236.990	240.299	241.521
4.5	237.041	235.998	233.682	229.635	229.050	233.656	239.485	243.353	244.778
5.0	239.866	239.052	236.049	231.391	230.373	235.540	241.826	246.152	247.858
5.5	242.717	241.724	238.416	233.351	231.824	237.423	244.396	249.257	250.912
6.0	246.000	244.676	240.833	235.234	233.275	239.459	247.094	252.337	254.475
6.5	248.952	247.527	243.429	237.067	234.624	241.393	249.614	255.314	257.300
7.0	251.904	250.275	245.872	239.026	236.176	243.353	252.311	258.419	260.557
7.5	254.831	253.355	248.367	240.961	237.703	245.389	255.009	261.448	263.713
8.0	257.605	256.180	250.937	242.818	239.230	247.399	257.554	264.400	266.741
8.5	260.455	259.106	253.406	244.778	240.630	249.435	260.226	267.352	269.770
9.0	263.662	261.830	255.925	246.738	242.259	251.446	262.975	270.203	272.799
9.5	266.665	264.655	258.496	248.647	243.913	253.507	265.342	272.977	275.827
10.0	269.541	267.607	260.939	250.632	245.338	255.416	267.887	276.056	278.805
10.5	272.391	270.712	263.509	252.693	248.865	257.478	270.534	278.881	281.808
11.0	275.649	273.384	265.978	254.653	248.392	259.514	272.977	281.706	284.786
11.5	278.703	276.234	268.396	256.791	249.944	261.550	275.547	284.429	287.560
12.0	281.528	279.161	270.966	258.750	251.497	263.586	278.041	287.356	290.435
12.5	283.844	281.782	273.638	260.659	252.998	265.698	280.484	289.901	293.260
13.0	285.473	284.353	276.005	262.644	254.449	267.658	282.953	292.700	295.780
13.5	286.491	286.389	278.627	264.578	256.027	269.719	285.345	295.271	297.892
14.0	286.822	287.687	280.968	266.360	257.554	271.628	287.687	297.612	299.292
14.5	287.610	288.756	283.437	268.370	258.903	273.588	290.003	299.521	300.056
15.0	288.196	289.443	285.753	270.304	260.583	275.522	292.446	300.895	300.386
15.5	288.781	289.977	287.967	272.264	262.110	277.354	294.660	301.430	300.285
16.0	288.985	290.664	289.850	274.198	263.408	279.314	296.874	301.761	300.132
16.5	289.239	290.741	291.555	276.005	264.807	281.197	299.139	301.710	299.776
17.0	289.265	290.919	293.031	277.838	266.462	282.953	301.150	301.455	299.241
17.5	289.596	291.301	294.202	279.746	267.785	284.709	302.880	301.175	299.038
18.0	289.417	291.250	294.940	281.502	269.185	286.592	304.433	300.692	298.350
18.5	289.596	291.224	295.576	283.284	270.661	288.298	305.400	300.234	297.663
19.0	289.545	291.352	295.856	285.065	272.086	290.105	305.934	299.725	297.002
19.5	289.163	290.970	296.060	286.872	273.511	291.759	306.138	299.165	296.238
20.0	288.679	290.868	296.136	288.476	274.860	293.566	306.036	298.401	295.627
20.5	288.272	290.639	296.111	290.257	276.362	295.195	305.756	297.740	294.736
21.0	287.331	290.003	296.009	291.861	277.736	296.900	305.349	296.976	293.897
21.5	286.822	289.367	295.805	293.540	279.161	298.579	304.815	296.034	293.057
22.0	286.313	288.883	295.475	295.067	280.586	300.106	304.255	295.169	291.962
22.5	285.473	288.043	295.144	296.518	282.037	301.735	303.695	294.100	290.664
23.0	284.658	287.051	294.787	297.790	283.386	303.160	302.906	292.980	289.596
23.5	283.488	285.880	294.075	298.681	284.582	304.662	302.015	291.912	288.145
24.0	282.368	284.658	293.439	299.445	286.007	306.062	301.150	290.461	286.669
24.5	281.401	283.666	292.700	300.106	287.254	307.436	300.183	288.858	285.345
25.0	280.230	282.317	291.682	300.641	288.527	308.632	299.088	287.509	283.844
25.5	278.932	281.044	290.715	301.048	289.799	309.548	298.045	285.880	282.139
26.0	277.507	279.594	289.519	301.150	290.894	310.363	296.671	284.124	280.510
26.5	276.158	278.092	288.272	301.455	292.064	310.872	295.424	282.444	278.576

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CANDELA TABULATION - (Cont.)

27.0	274.300	276.438	286.872	301.353	293.133	311.101	294.024	280.484	276.743
27.5	273.028	275.038	285.422	301.150	294.177	311.152	292.370	278.678	274.860
28.0	271.144	273.333	283.717	300.666	295.144	310.948	290.715	276.667	272.824
28.5	269.337	271.348	281.986	300.132	296.238	310.337	288.908	274.606	270.635
29.0	267.607	269.465	280.281	299.165	297.307	309.548	286.949	272.391	268.447
29.5	265.698	267.683	278.347	298.172	298.274	308.479	284.964	270.177	266.207
30.0	263.789	265.723	276.285	296.951	299.063	307.131	282.826	267.912	263.738
30.5	261.397	263.687	274.173	295.449	300.081	305.680	280.434	265.469	261.168
31.0	259.514	261.804	271.959	294.126	300.870	304.051	278.118	262.975	258.750
31.5	257.478	259.641	269.821	292.548	301.761	302.270	275.674	260.532	256.027
32.0	255.060	257.376	267.683	290.715	302.626	300.208	273.180	257.961	253.482
32.5	252.871	255.238	265.164	288.934	303.135	297.943	270.559	255.213	250.479
33.0	250.504	252.846	262.822	286.822	303.771	295.475	268.014	252.413	247.705
33.5	247.781	250.657	260.455	284.582	304.255	293.057	265.367	249.537	244.396
34.0	245.567	248.138	257.834	282.470	304.102	290.155	262.517	246.763	241.597
34.5	243.200	245.694	255.391	279.848	303.720	287.381	259.743	243.811	238.517
35.0	240.401	243.124	252.744	277.227	302.448	284.480	256.714	240.808	235.234
35.5	237.907	240.757	250.199	274.529	300.717	281.477	253.864	237.779	232.002
36.0	235.260	237.983	247.450	271.704	298.478	278.296	250.886	234.496	228.923
36.5	232.460	235.387	244.880	268.650	295.831	275.267	247.858	231.493	225.538
37.0	229.992	232.791	242.131	265.520	292.497	271.857	244.753	228.337	222.306
37.5	227.345	230.068	239.230	262.339	288.323	268.523	241.597	224.978	218.870
38.0	224.545	227.269	236.583	259.157	283.717	265.164	238.492	221.670	215.485
38.5	221.848	224.494	233.682	255.747	278.932	261.626	235.107	218.183	212.202
39.0	219.125	221.848	230.908	252.362	273.995	258.241	231.900	214.874	208.868
39.5	216.529	218.997	228.032	248.850	269.057	254.678	228.566	211.388	205.356
40.0	214.289	216.274	225.080	245.363	264.095	251.166	225.283	207.977	202.073
40.5	211.693	213.500	222.128	241.928	259.386	247.552	221.797	204.542	198.663
41.0	209.072	210.828	219.252	238.314	254.678	244.015	218.412	201.106	195.380
41.5	207.112	208.206	216.172	234.954	250.123	240.401	214.900	197.619	192.224
42.0	204.974	205.585	213.169	231.417	245.898	236.787	211.439	194.209	189.043
42.5	203.193	202.989	210.090	227.854	241.546	233.097	207.825	190.850	185.989
43.0	201.666	200.571	207.087	224.342	237.449	229.483	204.211	187.567	182.807
43.5	200.342	198.485	203.982	220.652	233.606	225.691	200.673	184.411	180.161
44.0	199.248	196.372	200.979	217.038	229.763	221.873	196.907	181.077	177.590
44.5	197.619	194.743	197.950	213.627	226.047	218.132	193.267	178.150	175.172
45.0	196.270	193.166	194.845	209.784	222.331	214.162	189.577	175.325	173.213
45.5	194.998	191.664	191.995	206.247	218.870	210.395	186.090	172.755	171.279
46.0	193.598	190.417	189.017	202.633	215.205	206.374	182.477	170.362	169.446
46.5	192.122	188.992	186.116	199.019	211.769	202.353	178.888	168.275	167.512
47.0	190.621	187.490	183.418	195.202	208.079	198.357	175.172	166.341	165.552
47.5	189.297	186.167	180.619	191.537	204.338	194.234	171.788	164.407	163.593
48.0	187.948	184.818	178.226	187.872	200.597	190.137	168.403	162.575	161.557
48.5	186.472	183.265	175.885	184.004	196.729	185.912	165.018	160.640	159.851
49.0	185.276	181.891	173.874	180.390	192.784	181.891	161.913	158.783	158.019
49.5	183.902	180.466	171.813	176.572	188.737	177.692	158.910	156.874	156.110
50.0	182.553	179.117	170.006	172.882	184.614	173.696	156.263	155.118	154.405
50.5	181.204	177.666	168.148	169.344	180.288	169.548	153.769	153.209	152.624
51.0	179.982	176.369	166.570	165.883	175.961	165.374	151.504	151.478	150.740
51.5	178.863	174.892	165.145	162.015	171.609	161.328	149.493	149.621	149.137
52.0	177.387	173.696	163.873	158.630	167.003	157.306	147.585	148.017	147.483
52.5	176.369	172.373	162.447	155.220	162.295	153.336	145.956	146.261	145.803
53.0	175.096	170.999	161.099	151.707	157.841	149.417	144.123	144.454	144.149
53.5	174.027	169.752	159.699	148.679	153.234	145.701	142.418	143.131	142.469
54.0	172.933	168.632	158.401	145.549	148.730	142.011	140.789	141.298	140.968
54.5	171.482	167.308	157.027	142.698	144.454	138.626	139.135	139.746	139.593

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CANDELA TABULATION - (Cont.)

55.0	170.337	166.290	155.703	140.128	140.102	135.190	137.506	138.117	137.964
55.5	169.573	165.145	154.354	137.990	136.005	131.984	135.878	136.641	136.616
56.0	168.530	163.974	153.107	135.801	131.882	129.286	134.249	135.140	135.089
56.5	167.486	162.804	151.707	134.045	128.039	126.716	132.671	133.689	133.613
57.0	166.596	161.862	150.460	132.162	124.451	124.756	131.195	132.187	132.238
57.5	165.527	160.590	149.213	130.380	120.888	123.203	129.668	130.737	130.864
58.0	164.687	159.572	147.890	129.082	117.579	121.931	128.039	129.362	129.464
58.5	163.516	158.630	146.770	128.090	114.678	120.582	126.588	127.937	127.988
59.0	162.727	157.561	145.599	126.894	112.209	119.335	125.163	126.487	126.690
59.5	161.735	156.543	144.378	125.850	110.173	118.113	123.636	125.239	125.519
60.0	160.666	155.601	143.258	124.756	108.646	116.841	122.313	123.865	124.043
60.5	159.724	154.634	142.164	123.636	107.374	115.492	120.888	122.440	122.898
61.0	158.884	153.642	141.018	122.465	106.330	114.169	119.437	121.193	121.422
61.5	158.197	152.776	139.721	121.422	105.388	112.922	118.164	119.870	120.328
62.0	157.179	151.758	138.753	120.124	104.498	111.700	116.765	118.597	118.928
62.5	156.238	150.791	137.659	119.081	103.454	110.377	115.518	117.350	117.604
63.0	155.423	149.850	136.514	117.935	102.462	109.104	114.245	115.925	116.510
63.5	154.354	148.908	135.496	116.816	101.444	107.832	112.947	114.830	115.161
64.0	153.514	148.094	134.554	115.747	100.400	106.686	111.598	113.609	114.016
64.5	152.904	147.177	133.434	114.550	99.331	105.388	110.428	112.438	112.769
65.0	152.038	146.261	132.595	113.482	98.313	104.218	109.181	111.166	111.598
65.5	151.071	145.370	131.449	112.464	97.244	102.869	107.806	110.122	110.402
66.0	150.231	144.581	130.533	111.344	96.201	101.724	106.661	108.901	109.257
66.5	149.493	143.614	129.515	110.173	95.183	100.553	105.388	107.704	108.188
67.0	148.704	142.876	128.523	109.308	93.961	99.280	104.091	106.508	106.992
67.5	147.763	141.986	127.505	108.239	93.020	98.033	103.047	105.388	105.821
68.0	146.948	141.069	126.614	107.017	92.027	97.041	101.902	104.218	104.778
68.5	146.236	140.230	125.698	106.076	90.907	95.717	100.706	103.200	103.785
69.0	145.498	139.491	124.705	105.032	89.813	94.699	99.662	102.055	102.462
69.5	144.683	138.626	123.814	103.912	88.795	93.605	98.492	100.960	101.444
70.0	143.971	137.888	122.822	102.996	87.701	92.358	97.448	99.891	100.477
70.5	143.029	137.023	121.829	102.004	86.632	91.264	96.328	98.873	99.153
71.0	142.215	136.208	121.117	100.858	85.588	90.169	95.208	97.703	98.262
71.5	141.578	135.572	120.226	99.968	84.570	89.075	94.114	96.710	97.219
72.0	140.840	134.732	119.284	98.924	83.578	87.904	93.096	95.616	96.201
72.5	140.153	133.943	118.495	97.855	82.534	86.886	92.027	94.649	95.132
73.0	139.313	133.180	117.630	97.015	81.516	85.792	91.035	93.554	94.140
73.5	138.524	132.467	116.739	95.972	80.498	84.698	89.940	92.613	93.096
74.0	137.990	131.627	115.925	94.954	79.531	83.654	88.973	91.595	92.154
74.5	137.405	130.838	115.009	94.114	78.437	82.585	87.955	90.602	91.111
75.0	136.565	130.202	114.220	93.223	77.546	81.644	87.014	89.686	90.068
75.5	135.725	129.413	113.507	92.205	76.579	80.677	85.996	88.591	89.126
76.0	135.038	128.701	112.718	91.340	75.536	79.582	84.978	87.650	88.108
76.5	134.223	127.988	111.827	90.475	74.543	78.691	84.010	86.683	87.217
77.0	133.409	127.225	111.191	89.559	73.678	77.724	82.992	85.792	86.301
77.5	133.002	126.614	110.351	88.617	72.660	76.655	82.076	84.774	85.461
78.0	132.238	125.850	109.460	87.803	71.820	75.790	81.160	83.832	84.443
78.5	131.373	125.087	108.824	86.785	70.827	74.848	80.244	82.916	83.552
79.0	130.915	124.374	108.061	86.046	69.911	73.830	79.277	82.025	82.458
79.5	130.024	123.687	107.195	85.283	68.995	72.889	78.361	81.058	81.618
80.0	129.617	122.974	106.559	84.290	68.130	71.973	77.444	80.168	80.727
80.5	128.879	122.364	105.745	83.527	67.315	71.082	76.477	79.353	79.938
81.0	128.141	121.702	105.007	82.713	66.425	70.166	75.714	78.411	78.895
81.5	127.657	120.913	104.345	81.898	65.686	69.402	74.848	77.572	78.055
82.0	126.817	120.251	103.556	81.186	64.847	68.486	73.881	76.808	77.266
82.5	126.257	119.717	102.767	80.447	63.981	67.544	73.067	75.943	76.426

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CANDELA TABULATION - (Cont.)

83.0	125.418	118.928	102.156	79.608	63.141	66.781	72.253	75.078	75.536
83.5	124.807	118.368	101.469	78.844	62.378	65.992	71.387	74.187	74.645
84.0	124.272	117.757	100.706	78.208	61.589	65.127	70.624	73.449	73.805
84.5	123.611	117.019	100.146	77.393	60.851	64.312	69.758	72.533	72.940
85.0	123.076	116.357	99.484	76.732	60.164	63.498	69.020	71.794	72.329
85.5	122.491	115.747	98.746	76.045	59.349	62.632	68.308	70.980	71.438
86.0	121.880	115.110	98.110	75.307	58.688	61.945	67.392	70.013	70.802
86.5	121.244	114.601	97.601	74.670	57.950	61.156	66.628	69.300	69.758
87.0	120.557	113.965	96.863	74.187	57.288	60.418	65.941	68.639	69.046
87.5	119.997	113.303	96.328	73.423	56.779	59.731	65.177	67.799	68.384
88.0	119.462	112.922	95.794	72.940	56.015	59.044	64.516	67.112	67.544
88.5	118.877	112.336	95.208	72.405	55.557	58.357	63.803	66.425	66.806
89.0	118.775	112.005	94.776	71.820	55.023	57.873	63.116	65.636	65.966
89.5	118.826	111.980	94.776	71.769	54.641	57.364	62.480	64.999	65.330
90.0	118.597	112.133	94.954	71.871	54.845	57.237	62.225	64.618	64.898
90.5	118.979	112.285	94.979	71.947	54.845	57.288	62.073	64.414	64.770
91.0	119.310	112.387	95.132	72.100	54.794	57.288	61.945	64.312	64.643
91.5	119.411	112.693	95.259	72.253	54.972	57.313	61.920	64.261	64.414
92.0	119.615	112.667	95.514	72.202	54.997	57.313	61.793	64.058	64.338
92.5	119.768	112.871	95.616	72.405	55.150	57.237	61.691	63.854	64.159
93.0	119.971	113.049	95.616	72.583	55.099	57.084	61.691	63.778	64.058
93.5	120.277	113.176	95.972	72.660	55.354	57.110	61.691	63.676	63.880
94.0	120.404	113.431	96.074	72.863	55.303	57.059	61.462	63.574	63.676
94.5	120.582	113.507	96.226	72.914	55.430	56.932	61.538	63.396	63.371
95.0	120.964	113.685	96.328	73.042	55.430	56.932	61.360	63.040	63.192
95.5	120.913	113.965	96.456	73.194	55.506	56.906	61.233	62.938	63.116
96.0	121.218	114.092	96.634	73.296	55.557	56.855	61.105	62.811	62.785
96.5	121.371	114.220	96.939	73.372	55.710	56.779	60.953	62.531	62.632
97.0	121.549	114.398	96.888	73.551	55.685	56.728	60.876	62.353	62.302
97.5	121.676	114.550	97.041	73.754	55.710	56.601	60.800	62.302	62.174
98.0	121.956	114.576	97.219	73.729	55.914	56.652	60.571	62.047	61.971
98.5	121.982	114.805	97.346	73.958	55.939	56.499	60.495	61.869	61.716
99.0	122.135	114.958	97.346	74.161	56.015	56.346	60.444	61.665	61.513
99.5	122.313	115.009	97.524	74.085	56.066	56.346	60.164	61.462	61.156
100.0	122.364	115.136	97.601	74.238	56.194	56.245	60.113	61.284	61.004
100.5	122.567	115.161	97.626	74.365	56.219	56.168	60.037	61.029	60.749
101.0	122.542	115.238	97.728	74.518	56.346	56.066	59.884	60.749	60.495
101.5	122.822	115.289	97.830	74.569	56.397	55.888	59.706	60.596	60.138
102.0	122.720	115.365	97.804	74.696	56.601	55.837	59.528	60.317	60.037
102.5	122.796	115.365	97.830	74.721	56.601	55.761	59.299	60.062	59.782
103.0	122.822	115.441	97.881	74.823	56.754	55.557	59.095	59.858	59.553
103.5	122.822	115.467	97.830	74.976	56.703	55.481	58.942	59.706	59.095
104.0	123.025	115.492	97.728	74.823	56.754	55.354	58.713	59.451	58.993
104.5	123.076	115.594	97.753	74.976	56.804	55.201	58.408	59.146	58.586
105.0	122.847	115.619	97.703	75.052	56.957	55.048	58.128	58.968	58.306
105.5	122.974	115.467	97.677	74.899	57.008	54.921	57.848	58.637	57.975
106.0	123.076	115.492	97.753	74.950	56.932	54.819	57.568	58.281	57.772
106.5	123.025	115.543	97.703	74.950	57.008	54.692	57.313	58.026	57.441
107.0	123.102	115.543	97.626	74.925	56.932	54.590	57.008	57.644	57.186
107.5	123.025	115.467	97.601	74.899	56.932	54.438	56.754	57.339	56.754
108.0	123.025	115.441	97.550	75.027	57.008	54.132	56.474	56.830	56.321
108.5	123.076	115.416	97.601	74.899	56.906	54.081	56.219	56.524	55.863
109.0	122.847	115.390	97.474	74.899	56.957	53.801	55.939	56.092	55.583
109.5	122.924	115.212	97.346	74.798	56.830	53.725	55.659	55.761	54.947
110.0	122.796	115.238	97.270	74.798	56.906	53.598	55.379	55.252	54.743
110.5	122.822	115.034	97.270	74.772	56.804	53.445	55.023	54.997	54.107

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CANDELA TABULATION - (Cont.)

111.0	122.669	115.059	97.168	74.848	56.830	53.292	54.794	54.565	53.649
111.5	122.593	114.983	97.168	74.747	56.703	53.165	54.387	54.209	53.420
112.0	122.287	114.932	97.066	74.721	56.677	52.911	54.132	53.750	52.860
112.5	122.364	114.830	96.863	74.645	56.728	52.834	53.903	53.394	52.351
113.0	122.313	114.678	96.863	74.569	56.703	52.605	53.623	53.012	51.893
113.5	122.160	114.550	96.735	74.467	56.626	52.503	53.216	52.478	51.536
114.0	121.956	114.474	96.557	74.467	56.601	52.376	52.961	52.198	51.129
114.5	122.007	114.321	96.481	74.339	56.575	52.122	52.707	51.613	50.620
115.0	121.702	114.143	96.252	74.238	56.448	51.969	52.173	51.053	50.035
115.5	121.600	114.169	96.150	74.161	56.474	51.765	52.045	50.544	49.577
116.0	121.346	113.812	95.947	73.983	56.270	51.740	51.613	49.857	49.042
116.5	121.371	113.711	95.819	73.958	56.346	51.434	51.180	49.322	48.508
117.0	121.040	113.532	95.616	73.830	56.219	51.333	51.002	48.839	47.592
117.5	120.760	113.278	95.539	73.703	56.092	51.155	50.722	48.151	47.108
118.0	120.608	113.100	95.234	73.500	55.990	50.925	50.315	47.642	46.294
118.5	120.379	112.998	95.081	73.398	55.837	50.747	49.958	47.083	45.708
119.0	120.073	112.667	94.903	73.347	55.761	50.595	49.755	46.497	44.996
119.5	119.819	112.514	94.725	73.220	55.761	50.442	49.297	45.835	44.232
120.0	119.590	112.362	94.572	73.016	55.583	50.264	49.093	45.148	43.545
120.5	119.411	111.955	94.369	72.762	55.456	50.009	48.711	44.538	42.883
121.0	119.157	111.776	94.063	72.762	55.252	49.831	48.304	43.978	42.196
121.5	118.699	111.598	93.809	72.634	55.252	49.577	48.126	43.418	41.484
122.0	118.495	111.217	93.631	72.329	55.176	49.373	47.770	42.781	40.745
122.5	118.139	110.962	93.452	72.151	54.972	49.297	47.439	42.247	40.135
123.0	117.859	110.733	93.122	72.074	54.845	48.991	47.159	41.662	39.448
123.5	117.477	110.249	92.842	71.744	54.743	48.839	46.879	41.153	38.608
124.0	117.426	109.893	92.663	71.642	54.692	48.686	46.421	40.542	38.048
124.5	116.790	109.639	92.384	71.464	54.488	48.431	46.192	40.033	37.437
125.0	116.357	109.231	92.129	71.260	54.310	48.380	45.963	39.473	36.801
125.5	115.925	108.901	91.747	70.980	54.183	48.151	45.683	38.989	36.317
126.0	115.416	108.442	91.467	70.827	54.132	48.050	45.505	38.557	35.783
126.5	115.212	108.010	91.136	70.573	54.005	47.922	45.174	38.048	35.248
127.0	114.449	107.679	90.857	70.446	53.929	47.795	44.792	37.641	34.714
127.5	113.940	107.170	90.475	70.217	53.827	47.592	44.588	37.284	34.307
128.0	113.583	106.712	90.144	69.937	53.649	47.541	44.359	36.724	33.849
128.5	113.023	106.203	89.788	69.784	53.649	47.490	44.029	36.266	33.416
129.0	112.464	105.923	89.482	69.504	53.420	47.261	43.774	35.757	32.983
129.5	112.082	105.363	89.050	69.326	53.318	47.108	43.596	35.325	32.703
130.0	111.344	105.007	88.693	68.970	53.216	46.828	43.138	34.917	32.296
130.5	110.911	104.498	88.286	68.791	53.216	46.752	42.960	34.536	31.762
131.0	110.402	103.989	87.904	68.639	52.961	46.599	42.705	34.179	31.533
131.5	109.969	103.556	87.573	68.308	52.860	46.497	42.400	33.696	31.304
132.0	109.231	103.047	87.090	68.231	52.783	46.395	42.145	33.340	30.871
132.5	108.570	102.385	86.734	67.850	52.631	46.243	41.967	32.958	30.489
133.0	108.112	101.902	86.326	67.544	52.402	46.090	41.662	32.627	30.413
133.5	107.424	101.393	85.894	67.341	52.376	45.963	41.433	32.372	30.031
134.0	106.865	100.782	85.487	67.035	52.147	45.912	41.153	32.016	29.904
134.5	106.330	100.222	85.054	66.704	52.122	45.759	40.975	31.634	29.573
135.0	105.694	99.688	84.519	66.399	51.918	45.556	40.720	31.405	29.318
135.5	105.083	99.001	84.189	66.145	51.765	45.581	40.466	31.125	29.064
136.0	104.396	98.644	83.680	65.839	51.587	45.301	40.160	30.667	28.733
136.5	103.760	98.059	83.247	65.636	51.460	45.174	39.880	30.464	28.402
137.0	103.047	97.372	82.789	65.254	51.333	45.021	39.778	30.158	28.046
137.5	102.334	96.786	82.331	64.974	51.078	44.894	39.397	29.802	27.919
138.0	101.571	96.176	81.847	64.719	51.027	44.665	39.269	29.649	27.842
138.5	100.986	95.514	81.440	64.389	50.875	44.665	39.168	29.395	27.511

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CANDELA TABULATION - (Cont.)

139.0	100.222	94.979	80.906	64.007	50.595	44.588	38.811	29.038	27.308
139.5	99.560	94.292	80.397	63.701	50.467	44.410	38.633	28.835	27.053
140.0	99.051	93.681	79.709	63.447	50.391	44.359	38.455	28.555	26.799
140.5	98.339	92.943	79.353	62.963	50.086	44.130	38.124	28.351	26.570
141.0	97.626	92.460	78.793	62.785	49.984	43.952	38.022	27.995	26.264
141.5	97.015	91.645	78.335	62.378	49.780	43.927	37.768	27.741	26.010
142.0	96.277	91.035	77.750	61.971	49.526	43.774	37.564	27.435	25.705
142.5	95.387	90.398	77.266	61.665	49.373	43.596	37.437	27.308	25.399
143.0	94.674	89.660	76.706	61.258	49.195	43.545	37.259	26.901	25.323
143.5	93.911	88.922	76.096	60.851	48.991	43.316	36.953	26.672	25.094
144.0	93.198	88.235	75.561	60.546	48.711	43.138	36.903	26.468	24.941
144.5	92.434	87.523	75.027	60.215	48.533	43.189	36.852	26.315	24.763
145.0	91.620	86.912	74.543	59.706	48.304	42.985	36.572	25.984	24.636
145.5	90.882	86.199	73.983	59.426	48.151	42.807	36.394	25.857	24.610
146.0	90.042	85.436	73.372	59.044	47.897	42.603	36.317	25.679	24.763
146.5	89.304	84.647	72.736	58.637	47.617	42.527	36.088	25.297	24.737
147.0	88.566	83.960	72.253	58.230	47.362	42.374	36.114	25.119	24.661
147.5	87.803	83.094	71.667	57.822	47.286	42.247	35.885	24.966	24.737
148.0	86.886	82.382	71.031	57.441	46.955	42.069	35.732	24.763	24.788
148.5	86.021	81.695	70.497	57.008	46.828	41.916	35.605	24.534	24.839
149.0	85.105	81.007	69.860	56.652	46.523	41.814	35.554	24.305	24.966
149.5	84.469	80.218	69.249	56.143	46.243	41.738	35.401	24.203	25.094
150.0	83.603	79.353	68.639	55.786	45.937	41.484	35.274	24.025	25.068
150.5	82.763	78.691	68.002	55.379	45.785	41.433	35.197	23.923	25.221
151.0	81.949	77.775	67.443	54.870	45.505	41.229	35.045	23.898	25.399
151.5	81.211	77.037	66.857	54.514	45.250	41.127	34.917	23.694	25.297
152.0	80.142	76.350	66.170	54.158	45.021	40.924	34.816	23.465	25.246
152.5	79.277	75.459	65.610	53.623	44.716	40.822	34.612	23.439	25.348
153.0	78.615	74.619	64.847	53.089	44.512	40.695	34.637	23.338	25.323
153.5	77.597	73.881	64.312	52.682	44.207	40.491	34.587	23.312	25.425
154.0	76.732	73.067	63.625	52.274	43.952	40.313	34.383	23.261	25.348
154.5	75.790	72.202	62.912	51.765	43.723	40.135	34.383	23.261	25.297
155.0	74.848	71.311	62.302	51.282	43.494	39.931	34.230	23.236	25.297
155.5	74.009	70.446	61.665	50.773	43.189	39.778	34.027	23.287	25.450
156.0	73.194	69.682	60.978	50.416	42.883	39.677	34.027	23.312	25.450
156.5	72.074	68.842	60.240	49.857	42.705	39.448	34.027	23.210	25.603
157.0	71.387	68.053	59.655	49.322	42.298	39.295	33.874	23.007	25.552
157.5	70.395	67.188	58.917	48.839	41.967	39.040	33.823	22.905	25.425
158.0	69.504	66.246	58.331	48.431	41.738	38.913	33.798	22.727	25.425
158.5	68.715	65.508	57.721	47.871	41.356	38.709	33.670	22.396	25.399
159.0	67.722	64.694	56.932	47.362	41.051	38.430	33.619	22.269	25.425
159.5	66.806	63.778	56.270	46.930	40.745	38.353	33.569	21.963	25.450
160.0	65.865	62.862	55.557	46.294	40.415	38.073	33.390	21.938	25.425
160.5	65.025	62.022	54.896	45.810	40.135	37.971	33.238	21.811	25.399
161.0	64.032	61.105	54.132	45.352	39.855	37.717	33.085	21.760	25.603
161.5	62.963	60.240	53.496	44.690	39.473	37.513	32.856	21.454	25.705
162.0	61.971	59.375	52.631	44.130	39.168	37.259	32.627	21.251	25.832
162.5	61.029	58.484	51.969	43.698	38.989	37.081	32.271	21.022	25.832
163.0	60.087	57.542	51.256	43.112	38.506	36.826	31.482	20.869	25.883
163.5	59.069	56.703	50.467	42.603	38.302	36.572	30.642	20.487	26.035
164.0	58.230	55.761	49.780	42.120	37.997	36.495	29.598	19.851	25.959
164.5	57.186	54.794	49.042	41.433	37.615	36.190	28.300	19.291	25.475
165.0	56.194	53.827	48.304	40.898	37.259	35.706	27.104	19.011	24.712
165.5	55.125	52.961	47.541	40.287	36.928	35.146	25.832	18.884	23.694
166.0	54.209	52.020	46.752	39.804	36.495	34.256	24.305	18.782	22.523
166.5	53.114	51.027	45.861	39.269	36.012	33.034	23.032	18.528	20.869

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CANDELA TABULATION - (Cont.)

167.0	51.994	50.086	45.148	38.760	35.248	31.736	22.014	18.400	18.909
167.5	51.002	49.144	44.410	38.124	34.154	30.184	20.996	17.866	17.204
168.0	49.857	48.024	43.392	37.641	32.627	28.504	20.360	17.510	15.168
168.5	48.813	47.032	42.629	37.030	31.278	26.926	19.953	17.077	13.285
169.0	47.744	46.115	41.916	36.114	29.446	25.246	19.495	16.237	11.045
169.5	46.624	45.148	40.975	34.994	27.817	23.618	19.317	15.321	8.653
170.0	45.454	44.105	40.033	33.492	25.984	22.371	18.960	13.998	6.439
170.5	44.334	42.781	39.040	31.940	24.432	21.556	18.451	12.369	4.657
171.0	43.189	41.560	37.590	30.311	23.134	20.742	18.044	10.944	2.850
171.5	42.145	40.516	36.343	28.606	22.243	20.284	17.331	9.722	1.883
172.0	40.924	39.346	35.121	26.977	21.454	19.953	16.110	8.271	1.680
172.5	39.880	37.742	33.416	25.781	20.767	19.367	14.685	6.846	1.654
173.0	38.048	36.292	31.787	24.661	20.182	18.706	13.234	5.472	1.578
173.5	35.859	34.637	29.955	23.338	19.444	17.357	11.325	4.632	1.349
174.0	34.688	32.500	27.842	22.269	18.833	15.397	9.366	4.276	1.171
174.5	32.780	30.438	25.934	21.047	17.688	13.438	7.482	3.843	0.993
175.0	30.489	28.224	24.101	19.520	16.034	11.198	5.981	3.512	0.764
175.5	27.511	25.654	21.938	17.968	13.998	8.755	5.115	2.901	0.560
176.0	24.534	22.803	19.800	16.110	11.834	6.642	4.530	2.418	0.738
176.5	21.327	19.597	17.281	13.489	9.315	5.115	3.868	1.705	0.585
177.0	17.586	16.339	14.456	10.816	7.050	4.301	3.258	1.120	0.484
177.5	13.718	12.674	11.783	8.424	5.192	3.792	2.749	0.738	0.484
178.0	9.595	8.882	8.984	5.726	3.818	3.156	2.163	0.611	0.814
178.5	6.108	5.675	5.930	3.639	3.079	2.596	1.629	0.662	0.560
179.0	3.588	3.410	3.181	2.265	2.392	2.061	1.273	0.611	0.636
179.5	1.273	1.934	1.222	1.222	1.654	1.654	0.789	0.636	0.891
180.0	0.916	0.916	0.916	0.916	0.916	0.916	0.916	0.916	0.916

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	103.74	N.A.	7.40
0-30	238.23	N.A.	16.90
0-40	400.87	N.A.	28.50
0-60	685.94	N.A.	48.70
0-80	907.50	N.A.	64.40
0-90	997.03	N.A.	70.80
10-90	973.53	N.A.	69.10
20-40	297.13	N.A.	21.10
20-50	450.42	N.A.	32.00
40-70	402.54	N.A.	28.60
60-80	221.57	N.A.	15.70
70-80	104.09	N.A.	7.40
80-90	89.53	N.A.	6.40
90-110	163.68	N.A.	11.60
90-120	235.84	N.A.	16.70
90-130	296.16	N.A.	21.00
90-150	377.54	N.A.	26.80
90-180	411.97	N.A.	29.20
110-180	248.29	N.A.	17.60
0-180	1409.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	23.51
10-20	80.23
20-30	134.49
30-40	162.64
40-50	153.30
50-60	131.77
60-70	117.47
70-80	104.09
80-90	89.53
90-100	83.42
100-110	80.26
110-120	72.16
120-130	60.32
130-140	47.27
140-150	34.11
150-160	21.84
160-170	10.73
170-180	1.87

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAB 4 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	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	100	94	89	85	85	94	89	85	81	80	76	73	71	68	66	63	61	59	54
2	90	81	74	68	68	85	77	70	65	69	64	59	61	57	53	54	51	48	44
3	82	71	63	56	56	77	67	60	54	60	54	49	54	49	44	47	44	40	37
4	75	63	54	47	47	70	59	51	45	53	47	41	48	42	38	42	38	34	31
5	69	56	47	40	40	65	53	45	39	48	41	36	43	37	33	38	33	30	27
6	63	50	41	35	35	60	48	40	34	43	36	31	38	33	28	34	30	26	23
7	59	45	37	31	31	55	43	35	29	39	32	27	35	29	25	31	27	23	21
8	54	41	33	27	27	51	39	31	26	36	29	24	32	26	22	29	24	21	18
9	51	38	30	24	24	48	36	28	23	33	26	22	29	24	20	27	22	19	16
10	47	35	27	22	22	45	33	26	21	30	24	20	27	22	18	25	20	17	15

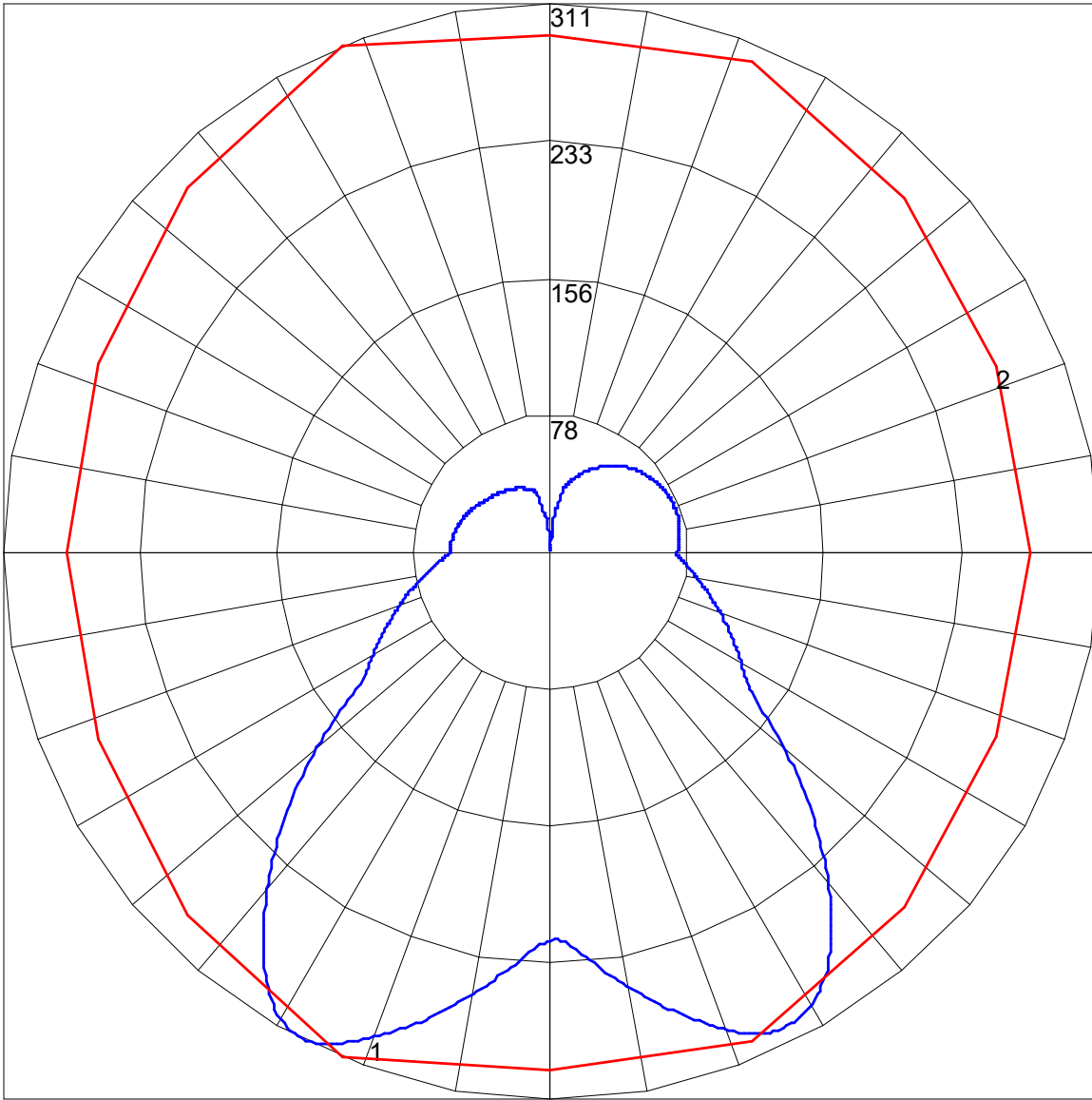
IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAB 4 LIGHT.IES

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	11.4	12.6	12.2	13.4	14.3	9.7	10.8	10.4	11.6	12.5
	3H	13.7	14.8	14.5	15.6	16.5	11.5	12.5	12.2	13.3	14.3
	4H	14.8	15.8	15.6	16.6	17.6	12.3	13.3	13.1	14.1	15.0
	6H	15.9	16.8	16.7	17.6	18.6	13.0	13.9	13.8	14.7	15.7
	8H	16.4	17.3	17.2	18.1	19.1	13.3	14.2	14.1	15.0	16.0
	12H	16.9	17.8	17.7	18.6	19.6	13.6	14.5	14.4	15.3	16.3
4H	2H	12.1	13.1	12.9	13.9	14.9	10.6	11.6	11.4	12.4	13.4
	3H	14.6	15.5	15.4	16.3	17.3	12.7	13.5	13.5	14.4	15.4
	4H	15.9	16.7	16.7	17.5	18.5	13.6	14.4	14.4	15.2	16.2
	6H	17.2	17.9	18.0	18.7	19.7	14.5	15.2	15.3	16.0	17.0
	8H	17.8	18.4	18.6	19.3	20.3	14.9	15.5	15.7	16.4	17.4
	12H	18.4	19.0	19.2	19.8	20.9	15.2	15.8	16.1	16.7	17.8
8H	4H	16.3	17.0	17.1	17.8	18.9	14.3	15.0	15.1	15.8	16.9
	6H	17.8	18.4	18.7	19.3	20.3	15.4	16.0	16.3	16.9	17.9
	8H	18.6	19.1	19.4	20.0	21.0	15.9	16.4	16.8	17.3	18.4
	12H	19.3	19.8	20.2	20.7	21.8	16.4	16.9	17.3	17.8	18.9
12H	4H	16.4	17.0	17.2	17.9	18.9	14.5	15.1	15.4	16.0	17.0
	6H	18.0	18.5	18.8	19.3	20.4	15.7	16.2	16.6	17.1	18.2
	8H	18.8	19.3	19.7	20.1	21.2	16.3	16.8	17.2	17.6	18.7

Maximum UGR = 21.8

POLAR GRAPH



Maximum Candela = 311.152 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.)