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**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAB 2 LIGHT.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 18097-A  
[TESTLAB] LightLab International ([www.LightLabInternational.com](http://www.LightLabInternational.com))  
[MANUFAC] Justice Design Group, Los Angeles, CA 90071  
[LUMCAT] Textile Woven Fabric (FAB) 2-Light Bath Bar  
[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: FAB 2-Light  
[MORE] Steel formed housing and two woven fabric lenses.  
[MORE] 20 LEDs mounted in two 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	706
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	47
Total Luminaire Watts	14.98
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)	0.33 m
Luminous Height	0.14 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1889	2021	4036
55	1593	1585	2781
65	1425	1365	2227
75	1322	1228	2120
85	1273	1155	2158

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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>
<b>0.0</b>	110.619	110.619	110.619	110.619	110.619	110.619	110.619	110.619	110.619
<b>0.5</b>	109.548	109.867	110.287	110.338	110.695	111.142	111.486	111.511	111.524
<b>1.0</b>	109.828	110.198	110.377	110.453	110.836	111.550	112.098	112.315	112.480
<b>1.5</b>	110.708	110.925	110.925	110.734	111.205	112.136	112.939	113.449	113.653
<b>2.0</b>	111.690	111.779	111.715	111.167	111.639	112.774	113.921	114.712	114.967
<b>2.5</b>	112.888	112.965	112.633	111.817	112.187	113.539	115.030	116.101	116.395
<b>3.0</b>	114.316	114.074	113.653	112.582	112.748	114.329	116.280	117.478	117.874
<b>3.5</b>	115.757	115.413	114.788	113.360	113.398	115.145	117.440	118.919	119.544
<b>4.0</b>	117.249	116.892	115.846	114.227	114.049	116.101	118.728	120.385	120.997
<b>4.5</b>	118.753	118.231	117.070	115.043	114.750	117.058	119.977	121.915	122.629
<b>5.0</b>	120.169	119.761	118.256	115.923	115.413	118.001	121.150	123.318	124.172
<b>5.5</b>	121.597	121.099	119.442	116.905	116.140	118.945	122.438	124.873	125.702
<b>6.0</b>	123.241	122.578	120.653	117.848	116.866	119.965	123.790	126.416	127.487
<b>6.5</b>	124.720	124.006	121.954	118.766	117.542	120.934	125.052	127.908	128.902
<b>7.0</b>	126.199	125.383	123.178	119.748	118.320	121.915	126.403	129.463	130.534
<b>7.5</b>	127.666	126.926	124.427	120.717	119.085	122.935	127.755	130.981	132.115
<b>8.0</b>	129.055	128.341	125.715	121.648	119.850	123.943	129.030	132.460	133.633
<b>8.5</b>	130.483	129.808	126.952	122.629	120.551	124.963	130.369	133.939	135.150
<b>9.0</b>	132.090	131.172	128.214	123.611	121.367	125.970	131.746	135.367	136.667
<b>9.5</b>	133.594	132.587	129.502	124.567	122.196	127.003	132.931	136.756	138.184
<b>10.0</b>	135.035	134.066	130.726	125.562	122.910	127.959	134.206	138.299	139.676
<b>10.5</b>	136.463	135.622	132.013	126.595	123.675	128.992	135.532	139.714	141.181
<b>11.0</b>	138.095	136.960	133.250	127.576	124.440	130.012	136.756	141.130	142.672
<b>11.5</b>	139.625	138.388	134.461	128.647	125.218	131.032	138.044	142.494	144.062
<b>12.0</b>	141.040	139.855	135.749	129.629	125.995	132.052	139.294	143.960	145.503
<b>12.5</b>	142.201	141.168	137.088	130.585	126.748	133.110	140.518	145.235	146.918
<b>13.0</b>	143.017	142.456	138.274	131.580	127.474	134.092	141.754	146.638	148.180
<b>13.5</b>	143.527	143.476	139.587	132.549	128.265	135.124	142.953	147.925	149.239
<b>14.0</b>	143.692	144.126	140.760	133.441	129.030	136.081	144.126	149.098	149.940
<b>14.5</b>	144.088	144.661	141.997	134.449	129.706	137.062	145.286	150.055	150.322
<b>15.0</b>	144.381	145.006	143.157	135.418	130.547	138.031	146.510	150.743	150.488
<b>15.5</b>	144.674	145.273	144.266	136.399	131.312	138.949	147.619	151.011	150.437
<b>16.0</b>	144.776	145.618	145.210	137.368	131.962	139.931	148.729	151.177	150.361
<b>16.5</b>	144.904	145.656	146.064	138.274	132.664	140.875	149.863	151.151	150.182
<b>17.0</b>	144.916	145.745	146.803	139.192	133.492	141.754	150.871	151.024	149.914
<b>17.5</b>	145.082	145.936	147.390	140.148	134.155	142.634	151.738	150.883	149.812
<b>18.0</b>	144.993	145.911	147.760	141.028	134.857	143.578	152.515	150.641	149.468
<b>18.5</b>	145.082	145.898	148.078	141.920	135.596	144.432	153.000	150.412	149.124
<b>19.0</b>	145.057	145.962	148.219	142.813	136.310	145.337	153.268	150.157	148.792
<b>19.5</b>	144.865	145.771	148.321	143.718	137.024	146.166	153.370	149.876	148.410
<b>20.0</b>	144.623	145.720	148.359	144.521	137.700	147.071	153.319	149.494	148.104
<b>20.5</b>	144.419	145.605	148.346	145.414	138.452	147.887	153.178	149.162	147.658
<b>21.0</b>	143.947	145.286	148.295	146.217	139.141	148.741	152.974	148.780	147.237
<b>21.5</b>	143.692	144.967	148.193	147.058	139.855	149.583	152.707	148.308	146.816
<b>22.0</b>	143.437	144.725	148.027	147.823	140.569	150.348	152.426	147.874	146.268
<b>22.5</b>	143.017	144.304	147.862	148.550	141.295	151.164	152.146	147.339	145.618
<b>23.0</b>	142.609	143.807	147.683	149.188	141.971	151.878	151.750	146.778	145.082
<b>23.5</b>	142.022	143.221	147.326	149.634	142.570	152.630	151.304	146.242	144.355
<b>24.0</b>	141.461	142.609	147.007	150.016	143.284	153.331	150.871	145.516	143.616
<b>24.5</b>	140.977	142.111	146.638	150.348	143.909	154.020	150.386	144.712	142.953
<b>25.0</b>	140.390	141.436	146.128	150.616	144.547	154.619	149.838	144.037	142.201
<b>25.5</b>	139.740	140.798	145.643	150.820	145.184	155.078	149.315	143.221	141.346
<b>26.0</b>	139.026	140.071	145.044	150.871	145.732	155.486	148.627	142.341	140.530
<b>26.5</b>	138.350	139.319	144.419	151.024	146.319	155.741	148.002	141.499	139.561

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**CANDELA TABULATION - (Cont.)**

27.0	137.419	138.490	143.718	150.973	146.854	155.856	147.301	140.518	138.643
27.5	136.782	137.789	142.991	150.871	147.377	155.881	146.472	139.612	137.700
28.0	135.838	136.935	142.137	150.628	147.862	155.779	145.643	138.605	136.680
28.5	134.933	135.940	141.270	150.361	148.410	155.473	144.738	137.572	135.583
29.0	134.066	134.997	140.416	149.876	148.945	155.078	143.756	136.463	134.487
29.5	133.110	134.104	139.447	149.379	149.430	154.543	142.762	135.354	133.365
30.0	132.154	133.123	138.414	148.767	149.825	153.867	141.691	134.219	132.128
30.5	130.955	132.103	137.356	148.015	150.335	153.140	140.492	132.995	130.840
31.0	130.012	131.159	136.246	147.352	150.730	152.324	139.332	131.746	129.629
31.5	128.992	130.075	135.175	146.561	151.177	151.432	138.108	130.522	128.265
32.0	127.780	128.941	134.104	145.643	151.610	150.399	136.858	129.234	126.990
32.5	126.684	127.870	132.842	144.751	151.865	149.264	135.545	127.857	125.485
33.0	125.498	126.671	131.669	143.692	152.184	148.027	134.270	126.454	124.096
33.5	124.134	125.575	130.483	142.570	152.426	146.816	132.944	125.014	122.438
34.0	123.025	124.312	129.170	141.512	152.350	145.363	131.516	123.624	121.036
34.5	121.839	123.088	127.946	140.199	152.158	143.973	130.126	122.145	119.493
35.0	120.436	121.801	126.620	138.886	151.521	142.519	128.609	120.640	117.848
35.5	119.187	120.615	125.345	137.534	150.654	141.015	127.181	119.123	116.229
36.0	117.861	119.225	123.968	136.119	149.532	139.421	125.689	117.478	114.686
36.5	116.458	117.925	122.680	134.589	148.206	137.904	124.172	115.974	112.990
37.0	115.222	116.624	121.303	133.021	146.536	136.195	122.617	114.393	111.371
37.5	113.896	115.260	119.850	131.427	144.445	134.525	121.036	112.710	109.650
38.0	112.493	113.857	118.524	129.833	142.137	132.842	119.480	111.052	107.954
38.5	111.142	112.468	117.070	128.125	139.740	131.070	117.784	109.306	106.309
39.0	109.777	111.142	115.681	126.429	137.266	129.374	116.178	107.648	104.639
39.5	108.477	109.714	114.240	124.669	134.793	127.589	114.508	105.901	102.880
40.0	107.355	108.349	112.761	122.923	132.307	125.830	112.863	104.193	101.235
40.5	106.054	106.960	111.282	121.201	129.948	124.019	111.116	102.472	99.526
41.0	104.741	105.621	109.841	119.391	127.589	122.247	109.420	100.750	97.882
41.5	103.759	104.308	108.298	117.708	125.307	120.436	107.661	99.004	96.301
42.0	102.688	102.994	106.794	115.936	123.190	118.626	105.927	97.295	94.707
42.5	101.796	101.694	105.251	114.151	121.010	116.777	104.116	95.612	93.177
43.0	101.031	100.483	103.747	112.391	118.957	114.967	102.306	93.967	91.583
43.5	100.368	99.437	102.191	110.542	117.032	113.067	100.534	92.386	90.257
44.0	99.820	98.379	100.687	108.732	115.107	111.154	98.647	90.716	88.969
44.5	99.004	97.563	99.169	107.023	113.245	109.280	96.823	89.250	87.758
45.0	98.328	96.772	97.614	105.098	111.384	107.291	94.975	87.835	86.776
45.5	97.690	96.020	96.186	103.326	109.650	105.404	93.228	86.547	85.807
46.0	96.989	95.395	94.694	101.515	107.814	103.390	91.417	85.348	84.889
46.5	96.250	94.681	93.241	99.705	106.093	101.375	89.620	84.303	83.920
47.0	95.497	93.929	91.889	97.792	104.244	99.373	87.758	83.334	82.939
47.5	94.834	93.266	90.487	95.956	102.370	97.308	86.062	82.365	81.957
48.0	94.159	92.590	89.288	94.120	100.495	95.255	84.367	81.447	80.937
48.5	93.419	91.813	88.115	92.182	98.557	93.139	82.671	80.478	80.083
49.0	92.820	91.124	87.108	90.372	96.581	91.124	81.115	79.547	79.165
49.5	92.131	90.410	86.075	88.459	94.554	89.020	79.611	78.591	78.208
50.0	91.456	89.734	85.170	86.611	92.488	87.019	78.285	77.711	77.354
50.5	90.780	89.008	84.239	84.838	90.321	84.940	77.035	76.755	76.462
51.0	90.168	88.357	83.449	83.104	88.153	82.849	75.901	75.888	75.518
51.5	89.607	87.618	82.735	81.166	85.973	80.822	74.893	74.957	74.715
52.0	88.867	87.019	82.097	79.471	83.665	78.808	73.937	74.154	73.886
52.5	88.357	86.356	81.383	77.762	81.307	76.819	73.121	73.274	73.045
53.0	87.720	85.667	80.707	76.003	79.075	74.855	72.203	72.369	72.216
53.5	87.184	85.042	80.006	74.485	76.768	72.994	71.349	71.706	71.374
54.0	86.636	84.481	79.356	72.917	74.511	71.145	70.533	70.788	70.622
54.5	85.909	83.818	78.667	71.489	72.369	69.449	69.704	70.010	69.934

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**CANDELA TABULATION - (Cont.)**

55.0	85.336	83.308	78.004	70.201	70.189	67.728	68.888	69.194	69.118
55.5	84.953	82.735	77.329	69.130	68.136	66.121	68.072	68.455	68.442
56.0	84.430	82.148	76.704	68.034	66.070	64.770	67.256	67.702	67.677
56.5	83.908	81.562	76.003	67.154	64.145	63.482	66.466	66.976	66.937
57.0	83.461	81.090	75.378	66.211	62.347	62.500	65.726	66.223	66.249
57.5	82.926	80.452	74.753	65.318	60.562	61.723	64.961	65.497	65.560
58.0	82.505	79.942	74.090	64.668	58.905	61.085	64.145	64.808	64.859
58.5	81.919	79.471	73.529	64.171	57.451	60.409	63.418	64.094	64.120
59.0	81.523	78.935	72.943	63.571	56.215	59.785	62.704	63.367	63.469
59.5	81.026	78.425	72.331	63.049	55.195	59.173	61.939	62.743	62.883
60.0	80.491	77.953	71.770	62.500	54.430	58.535	61.276	62.054	62.143
60.5	80.019	77.469	71.221	61.939	53.792	57.859	60.562	61.340	61.570
61.0	79.598	76.972	70.648	61.353	53.269	57.196	59.836	60.715	60.830
61.5	79.254	76.538	69.997	60.830	52.798	56.572	59.198	60.052	60.282
62.0	78.744	76.028	69.513	60.180	52.351	55.960	58.497	59.415	59.581
62.5	78.272	75.544	68.965	59.657	51.829	55.297	57.872	58.790	58.918
63.0	77.864	75.072	68.391	59.083	51.331	54.659	57.235	58.076	58.369
63.5	77.329	74.600	67.881	58.522	50.821	54.022	56.584	57.528	57.694
64.0	76.908	74.192	67.409	57.987	50.299	53.448	55.909	56.916	57.120
64.5	76.602	73.733	66.848	57.388	49.763	52.798	55.322	56.329	56.495
65.0	76.168	73.274	66.427	56.852	49.253	52.211	54.697	55.692	55.909
65.5	75.684	72.828	65.854	56.342	48.718	51.535	54.009	55.169	55.309
66.0	75.263	72.433	65.395	55.781	48.195	50.962	53.435	54.557	54.736
66.5	74.893	71.948	64.885	55.195	47.685	50.375	52.798	53.958	54.200
67.0	74.498	71.578	64.387	54.761	47.073	49.738	52.147	53.359	53.601
67.5	74.026	71.132	63.877	54.226	46.601	49.113	51.625	52.798	53.014
68.0	73.618	70.673	63.431	53.614	46.104	48.616	51.051	52.211	52.492
68.5	73.261	70.252	62.972	53.142	45.543	47.953	50.452	51.701	51.994
69.0	72.892	69.883	62.475	52.619	44.995	47.443	49.929	51.127	51.331
69.5	72.484	69.449	62.029	52.058	44.485	46.894	49.342	50.579	50.821
70.0	72.127	69.079	61.531	51.599	43.936	46.270	48.820	50.044	50.337
70.5	71.655	68.646	61.034	51.102	43.401	45.721	48.259	49.534	49.674
71.0	71.247	68.238	60.677	50.528	42.878	45.173	47.698	48.947	49.228
71.5	70.928	67.919	60.231	50.082	42.368	44.625	47.149	48.450	48.705
72.0	70.558	67.498	59.759	49.559	41.871	44.038	46.639	47.902	48.195
72.5	70.214	67.103	59.364	49.024	41.348	43.528	46.104	47.417	47.659
73.0	69.793	66.721	58.930	48.603	40.838	42.980	45.607	46.869	47.162
73.5	69.398	66.364	58.484	48.080	40.328	42.432	45.058	46.397	46.639
74.0	69.130	65.943	58.076	47.570	39.844	41.909	44.574	45.887	46.168
74.5	68.837	65.548	57.617	47.149	39.295	41.374	44.064	45.390	45.645
75.0	68.416	65.229	57.222	46.703	38.849	40.902	43.592	44.931	45.122
75.5	67.996	64.834	56.865	46.193	38.365	40.417	43.082	44.383	44.650
76.0	67.651	64.477	56.470	45.760	37.842	39.869	42.572	43.911	44.140
76.5	67.243	64.120	56.023	45.326	37.345	39.423	42.088	43.426	43.694
77.0	66.835	63.737	55.705	44.867	36.911	38.938	41.578	42.980	43.235
77.5	66.631	63.431	55.284	44.395	36.401	38.403	41.119	42.470	42.814
78.0	66.249	63.049	54.838	43.987	35.980	37.969	40.660	41.998	42.304
78.5	65.815	62.666	54.519	43.477	35.483	37.498	40.201	41.539	41.858
79.0	65.586	62.309	54.136	43.108	35.024	36.988	39.716	41.093	41.310
79.5	65.140	61.965	53.703	42.725	34.565	36.516	39.257	40.609	40.889
80.0	64.936	61.608	53.384	42.228	34.132	36.057	38.798	40.162	40.443
80.5	64.566	61.302	52.976	41.845	33.724	35.611	38.314	39.754	40.048
81.0	64.196	60.970	52.606	41.437	33.277	35.152	37.931	39.283	39.525
81.5	63.954	60.575	52.275	41.029	32.908	34.769	37.498	38.862	39.104
82.0	63.533	60.244	51.880	40.672	32.487	34.310	37.013	38.479	38.709
82.5	63.253	59.976	51.484	40.303	32.053	33.838	36.605	38.046	38.288

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**PHOTOMETRIC FILENAME : FAB 2 LIGHT.IES**

**CANDELA TABULATION - (Cont.)**

83.0	62.832	59.581	51.178	39.882	31.633	33.456	36.197	37.612	37.842
83.5	62.526	59.300	50.834	39.499	31.250	33.061	35.764	37.166	37.396
84.0	62.258	58.994	50.452	39.181	30.855	32.627	35.381	36.796	36.975
84.5	61.927	58.624	50.171	38.773	30.485	32.219	34.948	36.337	36.541
85.0	61.659	58.293	49.840	38.441	30.141	31.811	34.578	35.968	36.235
85.5	61.366	57.987	49.470	38.097	29.733	31.378	34.221	35.560	35.789
86.0	61.060	57.668	49.151	37.727	29.401	31.033	33.762	35.075	35.470
86.5	60.741	57.413	48.896	37.408	29.032	30.638	33.379	34.718	34.948
87.0	60.397	57.094	48.526	37.166	28.700	30.268	33.035	34.387	34.591
87.5	60.116	56.763	48.259	36.784	28.445	29.924	32.653	33.966	34.259
88.0	59.848	56.572	47.991	36.541	28.063	29.580	32.321	33.622	33.838
88.5	59.555	56.278	47.698	36.274	27.833	29.236	31.964	33.277	33.469
89.0	59.504	56.113	47.481	35.980	27.565	28.993	31.620	32.882	33.048
89.5	59.530	56.100	47.481	35.955	27.374	28.738	31.301	32.563	32.729
90.0	59.415	56.176	47.570	36.006	27.476	28.675	31.174	32.372	32.512
90.5	59.606	56.253	47.583	36.044	27.476	28.700	31.097	32.270	32.449
91.0	59.772	56.304	47.659	36.121	27.451	28.700	31.033	32.219	32.385
91.5	59.823	56.457	47.723	36.197	27.540	28.713	31.021	32.194	32.270
92.0	59.925	56.444	47.851	36.172	27.553	28.713	30.957	32.092	32.232
92.5	60.001	56.546	47.902	36.274	27.629	28.675	30.906	31.990	32.143
93.0	60.103	56.635	47.902	36.363	27.604	28.598	30.906	31.951	32.092
93.5	60.256	56.699	48.080	36.401	27.731	28.611	30.906	31.900	32.002
94.0	60.320	56.827	48.131	36.503	27.706	28.585	30.791	31.849	31.900
94.5	60.409	56.865	48.208	36.529	27.769	28.522	30.829	31.760	31.747
95.0	60.601	56.954	48.259	36.592	27.769	28.522	30.740	31.582	31.658
95.5	60.575	57.094	48.322	36.669	27.808	28.509	30.676	31.531	31.620
96.0	60.728	57.158	48.412	36.720	27.833	28.483	30.613	31.467	31.454
96.5	60.805	57.222	48.565	36.758	27.910	28.445	30.536	31.327	31.378
97.0	60.894	57.311	48.539	36.847	27.897	28.420	30.498	31.237	31.212
97.5	60.958	57.388	48.616	36.949	27.910	28.356	30.460	31.212	31.148
98.0	61.098	57.400	48.705	36.937	28.012	28.381	30.345	31.084	31.046
98.5	61.111	57.515	48.769	37.051	28.024	28.305	30.307	30.995	30.919
99.0	61.187	57.592	48.769	37.153	28.063	28.228	30.281	30.893	30.817
99.5	61.276	57.617	48.858	37.115	28.088	28.228	30.141	30.791	30.638
100.0	61.302	57.681	48.896	37.192	28.152	28.177	30.115	30.702	30.562
100.5	61.404	57.694	48.909	37.255	28.165	28.139	30.077	30.574	30.434
101.0	61.391	57.732	48.960	37.332	28.228	28.088	30.001	30.434	30.307
101.5	61.531	57.757	49.011	37.357	28.254	27.999	29.911	30.358	30.128
102.0	61.480	57.796	48.998	37.421	28.356	27.973	29.822	30.217	30.077
102.5	61.519	57.796	49.011	37.434	28.356	27.935	29.707	30.090	29.950
103.0	61.531	57.834	49.036	37.485	28.432	27.833	29.605	29.988	29.835
103.5	61.531	57.847	49.011	37.561	28.407	27.795	29.529	29.911	29.605
104.0	61.633	57.859	48.960	37.485	28.432	27.731	29.414	29.784	29.554
104.5	61.659	57.910	48.973	37.561	28.458	27.655	29.261	29.631	29.350
105.0	61.544	57.923	48.947	37.600	28.534	27.578	29.121	29.542	29.210
105.5	61.608	57.847	48.934	37.523	28.560	27.514	28.981	29.376	29.044
106.0	61.659	57.859	48.973	37.549	28.522	27.463	28.840	29.197	28.942
106.5	61.633	57.885	48.947	37.549	28.560	27.400	28.713	29.070	28.777
107.0	61.672	57.885	48.909	37.536	28.522	27.349	28.560	28.879	28.649
107.5	61.633	57.847	48.896	37.523	28.522	27.272	28.432	28.726	28.432
108.0	61.633	57.834	48.871	37.587	28.560	27.119	28.292	28.471	28.216
108.5	61.659	57.821	48.896	37.523	28.509	27.094	28.165	28.318	27.986
109.0	61.544	57.808	48.832	37.523	28.534	26.953	28.024	28.101	27.846
109.5	61.582	57.719	48.769	37.472	28.471	26.915	27.884	27.935	27.527
110.0	61.519	57.732	48.730	37.472	28.509	26.851	27.744	27.680	27.425
110.5	61.531	57.630	48.730	37.459	28.458	26.775	27.565	27.553	27.106

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**CANDELA TABULATION - (Cont.)**

111.0	61.455	57.643	48.679	37.498	28.471	26.698	27.451	27.336	26.877
111.5	61.417	57.604	48.679	37.447	28.407	26.635	27.247	27.157	26.762
112.0	61.264	57.579	48.628	37.434	28.394	26.507	27.119	26.928	26.482
112.5	61.302	57.528	48.526	37.396	28.420	26.469	27.004	26.749	26.227
113.0	61.276	57.451	48.526	37.357	28.407	26.354	26.864	26.558	25.997
113.5	61.200	57.388	48.463	37.306	28.369	26.303	26.660	26.290	25.819
114.0	61.098	57.349	48.373	37.306	28.356	26.239	26.533	26.150	25.615
114.5	61.123	57.273	48.335	37.243	28.343	26.112	26.405	25.857	25.360
115.0	60.970	57.184	48.220	37.192	28.279	26.035	26.137	25.576	25.066
115.5	60.919	57.196	48.169	37.153	28.292	25.933	26.074	25.321	24.837
116.0	60.792	57.018	48.067	37.064	28.190	25.921	25.857	24.977	24.569
116.5	60.805	56.967	48.004	37.051	28.228	25.768	25.640	24.709	24.301
117.0	60.639	56.878	47.902	36.988	28.165	25.717	25.551	24.467	23.842
117.5	60.499	56.750	47.863	36.924	28.101	25.627	25.411	24.123	23.600
118.0	60.422	56.661	47.710	36.822	28.050	25.513	25.207	23.868	23.192
118.5	60.307	56.610	47.634	36.771	27.973	25.423	25.028	23.587	22.899
119.0	60.154	56.444	47.545	36.745	27.935	25.347	24.926	23.294	22.542
119.5	60.027	56.368	47.455	36.682	27.935	25.270	24.697	22.963	22.159
120.0	59.912	56.291	47.379	36.580	27.846	25.181	24.595	22.618	21.815
120.5	59.823	56.087	47.277	36.452	27.782	25.054	24.403	22.312	21.484
121.0	59.695	55.998	47.124	36.452	27.680	24.964	24.199	22.032	21.139
121.5	59.466	55.909	46.996	36.388	27.680	24.837	24.110	21.751	20.782
122.0	59.364	55.717	46.907	36.235	27.642	24.735	23.932	21.433	20.413
122.5	59.185	55.590	46.818	36.146	27.540	24.697	23.766	21.165	20.107
123.0	59.045	55.475	46.652	36.108	27.476	24.544	23.626	20.872	19.762
123.5	58.854	55.233	46.512	35.942	27.425	24.467	23.485	20.617	19.342
124.0	58.828	55.054	46.423	35.891	27.400	24.391	23.256	20.311	19.061
124.5	58.510	54.927	46.282	35.802	27.298	24.263	23.141	20.056	18.755
125.0	58.293	54.723	46.155	35.700	27.208	24.238	23.026	19.775	18.436
125.5	58.076	54.557	45.964	35.560	27.145	24.123	22.886	19.533	18.194
126.0	57.821	54.328	45.823	35.483	27.119	24.072	22.797	19.316	17.926
126.5	57.719	54.111	45.658	35.356	27.055	24.008	22.631	19.061	17.659
127.0	57.337	53.945	45.517	35.292	27.017	23.944	22.440	18.857	17.391
127.5	57.082	53.690	45.326	35.177	26.966	23.842	22.338	18.679	17.187
128.0	56.903	53.461	45.160	35.037	26.877	23.817	22.223	18.398	16.957
128.5	56.623	53.206	44.982	34.960	26.877	23.791	22.057	18.169	16.741
129.0	56.342	53.065	44.829	34.820	26.762	23.677	21.930	17.914	16.524
129.5	56.151	52.785	44.612	34.731	26.711	23.600	21.841	17.697	16.384
130.0	55.781	52.606	44.434	34.552	26.660	23.460	21.611	17.493	16.180
130.5	55.564	52.351	44.230	34.463	26.660	23.422	21.522	17.302	15.912
131.0	55.309	52.096	44.038	34.387	26.533	23.345	21.394	17.123	15.797
131.5	55.093	51.880	43.873	34.221	26.482	23.294	21.241	16.881	15.682
132.0	54.723	51.625	43.630	34.183	26.443	23.243	21.114	16.702	15.466
132.5	54.391	51.293	43.452	33.991	26.367	23.167	21.025	16.511	15.274
133.0	54.162	51.051	43.248	33.838	26.252	23.090	20.872	16.345	15.236
133.5	53.818	50.796	43.031	33.736	26.239	23.026	20.757	16.218	15.045
134.0	53.537	50.490	42.827	33.583	26.125	23.001	20.617	16.039	14.981
134.5	53.269	50.209	42.610	33.418	26.112	22.924	20.527	15.848	14.815
135.0	52.951	49.942	42.343	33.265	26.010	22.822	20.400	15.733	14.688
135.5	52.645	49.597	42.177	33.137	25.933	22.835	20.272	15.593	14.560
136.0	52.300	49.419	41.922	32.984	25.844	22.695	20.119	15.364	14.395
136.5	51.982	49.126	41.705	32.882	25.780	22.631	19.979	15.262	14.229
137.0	51.625	48.781	41.476	32.691	25.717	22.555	19.928	15.109	14.050
137.5	51.268	48.488	41.246	32.551	25.589	22.491	19.737	14.930	13.987
138.0	50.885	48.182	41.004	32.423	25.564	22.376	19.673	14.854	13.948
138.5	50.592	47.851	40.800	32.257	25.487	22.376	19.622	14.726	13.783

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

139.0	50.209	47.583	40.532	32.066	25.347	22.338	19.444	14.548	13.681
139.5	49.878	47.239	40.277	31.913	25.283	22.249	19.354	14.446	13.553
140.0	49.623	46.933	39.933	31.786	25.245	22.223	19.265	14.305	13.426
140.5	49.266	46.563	39.754	31.543	25.092	22.108	19.099	14.203	13.311
141.0	48.909	46.321	39.474	31.454	25.041	22.019	19.048	14.025	13.158
141.5	48.603	45.913	39.244	31.250	24.939	22.006	18.921	13.897	13.030
142.0	48.233	45.607	38.951	31.046	24.811	21.930	18.819	13.744	12.877
142.5	47.787	45.288	38.709	30.893	24.735	21.841	18.755	13.681	12.724
143.0	47.430	44.918	38.428	30.689	24.646	21.815	18.666	13.477	12.686
143.5	47.047	44.548	38.122	30.485	24.544	21.700	18.513	13.362	12.571
144.0	46.690	44.204	37.855	30.332	24.403	21.611	18.487	13.260	12.495
144.5	46.308	43.847	37.587	30.166	24.314	21.637	18.462	13.183	12.406
145.0	45.900	43.541	37.345	29.911	24.199	21.535	18.322	13.018	12.342
145.5	45.530	43.184	37.064	29.771	24.123	21.445	18.232	12.954	12.329
146.0	45.109	42.802	36.758	29.580	23.995	21.343	18.194	12.865	12.406
146.5	44.740	42.406	36.439	29.376	23.855	21.305	18.079	12.673	12.393
147.0	44.370	42.062	36.197	29.172	23.728	21.229	18.092	12.584	12.355
147.5	43.987	41.629	35.904	28.968	23.689	21.165	17.977	12.508	12.393
148.0	43.528	41.272	35.585	28.777	23.524	21.076	17.901	12.406	12.418
148.5	43.095	40.927	35.317	28.560	23.460	20.999	17.837	12.291	12.444
149.0	42.636	40.583	34.999	28.381	23.307	20.948	17.812	12.176	12.508
149.5	42.317	40.188	34.693	28.126	23.167	20.910	17.735	12.125	12.571
150.0	41.884	39.754	34.387	27.948	23.014	20.782	17.671	12.036	12.559
150.5	41.463	39.423	34.068	27.744	22.937	20.757	17.633	11.985	12.635
151.0	41.055	38.964	33.787	27.489	22.797	20.655	17.557	11.972	12.724
151.5	40.685	38.594	33.494	27.310	22.669	20.604	17.493	11.870	12.673
152.0	40.150	38.250	33.150	27.132	22.555	20.502	17.442	11.755	12.648
152.5	39.716	37.804	32.869	26.864	22.402	20.451	17.340	11.743	12.699
153.0	39.385	37.383	32.487	26.596	22.300	20.387	17.353	11.692	12.686
153.5	38.875	37.013	32.219	26.392	22.147	20.285	17.327	11.679	12.737
154.0	38.441	36.605	31.875	26.188	22.019	20.196	17.225	11.653	12.699
154.5	37.969	36.172	31.518	25.933	21.904	20.107	17.225	11.653	12.673
155.0	37.498	35.725	31.212	25.691	21.790	20.005	17.149	11.641	12.673
155.5	37.077	35.292	30.893	25.436	21.637	19.928	17.047	11.666	12.750
156.0	36.669	34.909	30.549	25.258	21.484	19.877	17.047	11.679	12.750
156.5	36.108	34.489	30.179	24.977	21.394	19.762	17.047	11.628	12.826
157.0	35.764	34.093	29.886	24.709	21.190	19.686	16.970	11.526	12.801
157.5	35.266	33.660	29.516	24.467	21.025	19.558	16.945	11.475	12.737
158.0	34.820	33.188	29.223	24.263	20.910	19.495	16.932	11.386	12.737
158.5	34.425	32.818	28.917	23.983	20.719	19.393	16.868	11.220	12.724
159.0	33.928	32.410	28.522	23.728	20.566	19.252	16.843	11.156	12.737
159.5	33.469	31.951	28.190	23.511	20.413	19.214	16.817	11.003	12.750
160.0	32.997	31.492	27.833	23.192	20.247	19.074	16.728	10.990	12.737
160.5	32.576	31.072	27.502	22.950	20.107	19.023	16.651	10.927	12.724
161.0	32.079	30.613	27.119	22.720	19.966	18.895	16.575	10.901	12.826
161.5	31.543	30.179	26.800	22.389	19.775	18.793	16.460	10.748	12.877
162.0	31.046	29.746	26.367	22.108	19.622	18.666	16.345	10.646	12.941
162.5	30.574	29.299	26.035	21.892	19.533	18.577	16.167	10.531	12.941
163.0	30.103	28.828	25.678	21.598	19.291	18.449	15.772	10.455	12.967
163.5	29.593	28.407	25.283	21.343	19.189	18.322	15.351	10.264	13.043
164.0	29.172	27.935	24.939	21.101	19.036	18.283	14.828	9.945	13.005
164.5	28.649	27.451	24.569	20.757	18.844	18.130	14.178	9.664	12.763
165.0	28.152	26.966	24.199	20.489	18.666	17.888	13.579	9.524	12.380
165.5	27.616	26.533	23.817	20.183	18.500	17.608	12.941	9.460	11.870
166.0	27.157	26.061	23.422	19.941	18.283	17.161	12.176	9.409	11.284
166.5	26.609	25.564	22.975	19.673	18.041	16.549	11.539	9.282	10.455

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**CANDELA TABULATION - (Cont.)**

<b>167.0</b>	26.048	25.092	22.618	19.418	17.659	15.899	11.029	9.218	9.473
<b>167.5</b>	25.551	24.620	22.249	19.099	17.110	15.121	10.519	8.950	8.619
<b>168.0</b>	24.977	24.059	21.739	18.857	16.345	14.280	10.200	8.772	7.599
<b>168.5</b>	24.454	23.562	21.356	18.551	15.670	13.489	9.996	8.555	6.655
<b>169.0</b>	23.919	23.103	20.999	18.092	14.752	12.648	9.766	8.134	5.533
<b>169.5</b>	23.358	22.618	20.527	17.531	13.936	11.832	9.677	7.675	4.335
<b>170.0</b>	22.771	22.096	20.056	16.779	13.018	11.207	9.499	7.012	3.226
<b>170.5</b>	22.210	21.433	19.558	16.001	12.240	10.799	9.244	6.196	2.333
<b>171.0</b>	21.637	20.821	18.832	15.185	11.590	10.391	9.040	5.482	1.428
<b>171.5</b>	21.114	20.298	18.207	14.331	11.143	10.162	8.683	4.870	0.943
<b>172.0</b>	20.502	19.711	17.595	13.515	10.748	9.996	8.071	4.144	0.841
<b>172.5</b>	19.979	18.908	16.741	12.916	10.404	9.703	7.357	3.430	0.829
<b>173.0</b>	19.061	18.181	15.925	12.355	10.111	9.371	6.630	2.741	0.790
<b>173.5</b>	17.965	17.353	15.007	11.692	9.741	8.695	5.674	2.320	0.676
<b>174.0</b>	17.378	16.282	13.948	11.156	9.435	7.714	4.692	2.142	0.586
<b>174.5</b>	16.422	15.249	12.992	10.544	8.861	6.732	3.748	1.925	0.497
<b>175.0</b>	15.274	14.140	12.074	9.779	8.032	5.610	2.996	1.759	0.382
<b>175.5</b>	13.783	12.852	10.990	9.001	7.012	4.386	2.563	1.453	0.280
<b>176.0</b>	12.291	11.424	9.919	8.071	5.929	3.328	2.269	1.211	0.370
<b>176.5</b>	10.684	9.817	8.657	6.757	4.666	2.563	1.938	0.854	0.293
<b>177.0</b>	8.810	8.185	7.242	5.419	3.532	2.155	1.632	0.561	0.242
<b>177.5</b>	6.872	6.349	5.903	4.220	2.601	1.900	1.377	0.370	0.242
<b>178.0</b>	4.807	4.450	4.501	2.869	1.912	1.581	1.084	0.306	0.408
<b>178.5</b>	3.060	2.843	2.971	1.823	1.543	1.300	0.816	0.331	0.280
<b>179.0</b>	1.798	1.708	1.594	1.135	1.198	1.033	0.637	0.306	0.319
<b>179.5</b>	0.637	0.969	0.612	0.612	0.829	0.829	0.395	0.319	0.446
<b>180.0</b>	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAB 2 LIGHT.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	51.97	N.A.	7.40
0-30	119.35	N.A.	16.90
0-40	200.83	N.A.	28.50
0-60	343.64	N.A.	48.70
0-80	454.64	N.A.	64.40
0-90	499.49	N.A.	70.80
10-90	487.72	N.A.	69.10
20-40	148.85	N.A.	21.10
20-50	225.65	N.A.	32.00
40-70	201.67	N.A.	28.60
60-80	111.00	N.A.	15.70
70-80	52.15	N.A.	7.40
80-90	44.85	N.A.	6.40
90-110	82.00	N.A.	11.60
90-120	118.15	N.A.	16.70
90-130	148.37	N.A.	21.00
90-150	189.14	N.A.	26.80
90-180	206.39	N.A.	29.20
110-180	124.39	N.A.	17.60
0-180	705.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	11.78
10-20	40.20
20-30	67.38
30-40	81.48
40-50	76.80
50-60	66.02
60-70	58.85
70-80	52.15
80-90	44.85
90-100	41.79
100-110	40.21
110-120	36.15
120-130	30.22
130-140	23.68
140-150	17.09
150-160	10.94
160-170	5.38
170-180	0.93

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAB 2 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	60	59	54
2	90	81	74	68	68	85	77	70	65	69	63	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	43	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

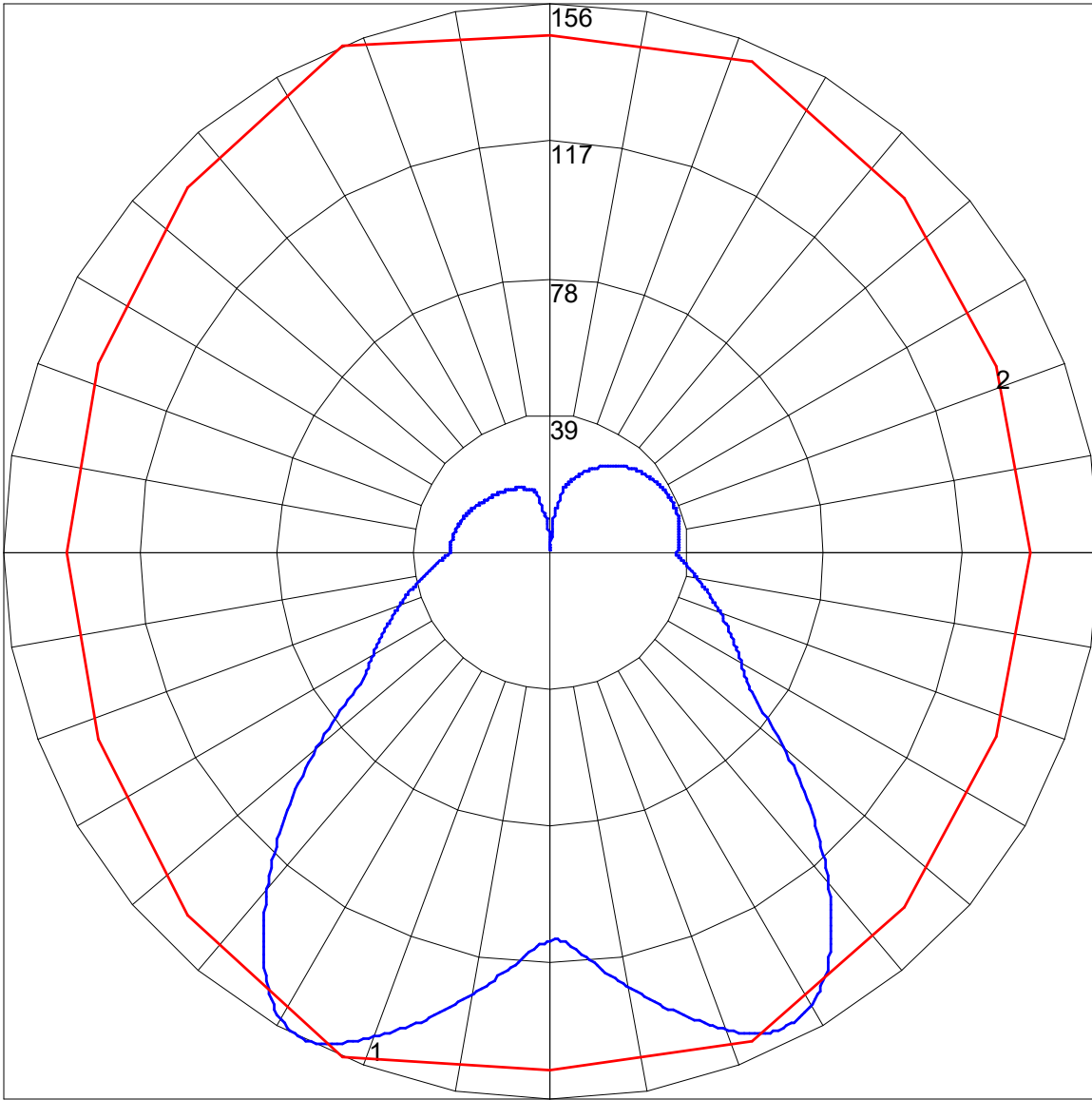
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAB 2 LIGHT.IES**

**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	11.3	12.5	12.1	13.3	14.2	9.6	10.7	10.3	11.5	12.4
	3H	13.6	14.7	14.4	15.5	16.4	11.4	12.5	12.2	13.2	14.2
	4H	14.8	15.8	15.5	16.5	17.5	12.2	13.2	13.0	14.0	15.0
	6H	15.8	16.8	16.6	17.6	18.6	12.9	13.9	13.7	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	17.7	17.7	18.5	19.5	13.6	14.4	14.4	15.3	16.3
4H	2H	12.0	13.0	12.7	13.7	14.7	10.5	11.5	11.3	12.3	13.3
	3H	14.5	15.4	15.3	16.2	17.2	12.6	13.4	13.3	14.2	15.2
	4H	15.8	16.6	16.6	17.4	18.4	13.5	14.3	14.3	15.1	16.1
	6H	17.1	17.8	17.9	18.6	19.6	14.4	15.1	15.2	15.9	16.9
	8H	17.7	18.3	18.5	19.2	20.2	14.8	15.4	15.6	16.3	17.3
	12H	18.3	18.9	19.1	19.8	20.8	15.2	15.8	16.0	16.6	17.7
8H	4H	16.2	16.9	17.0	17.7	18.7	14.2	14.8	15.0	15.7	16.7
	6H	17.7	18.3	18.5	19.1	20.2	15.3	15.8	16.1	16.7	17.7
	8H	18.5	19.0	19.3	19.8	20.9	15.8	16.3	16.6	17.2	18.2
	12H	19.2	19.7	20.1	20.6	21.7	16.3	16.8	17.2	17.6	18.7
12H	4H	16.3	16.9	17.1	17.7	18.8	14.3	14.9	15.2	15.8	16.9
	6H	17.8	18.3	18.7	19.2	20.3	15.5	16.0	16.4	16.9	18.0
	8H	18.7	19.1	19.5	20.0	21.1	16.1	16.6	17.0	17.5	18.6

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 155.881 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.)