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IES INDOOR REPORT PHOTOMETRIC FILENAME : FAB 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] Textile Woven Fabric (FAB) 3-Light Bath Bar
[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: FAB 3-Light
[MORE] Steel formed housing and three woven fabric lenses.
[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	1057
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	47
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	1886	2103	4475
55	1591	1658	3177
65	1423	1437	2644
75	1321	1300	2661
85	1271	1232	2978

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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	165.712	165.712	165.712	165.712	165.712	165.712	165.712	165.712	165.712
0.5	164.107	164.585	165.215	165.291	165.826	166.495	167.010	167.049	167.068
1.0	164.527	165.081	165.349	165.463	166.036	167.106	167.927	168.252	168.500
1.5	165.845	166.170	166.170	165.883	166.590	167.984	169.188	169.952	170.257
2.0	167.316	167.450	167.354	166.533	167.240	168.939	170.658	171.843	172.225
2.5	169.111	169.226	168.729	167.507	168.061	170.085	172.320	173.925	174.364
3.0	171.251	170.888	170.257	168.653	168.901	171.270	174.192	175.987	176.579
3.5	173.409	172.893	171.957	169.818	169.875	172.492	175.930	178.146	179.082
4.0	175.644	175.109	173.543	171.117	170.849	173.925	177.859	180.342	181.259
4.5	177.897	177.114	175.376	172.339	171.900	175.357	179.731	182.634	183.704
5.0	180.017	179.406	177.152	173.657	172.893	176.770	181.488	184.735	186.015
5.5	182.157	181.412	178.929	175.128	173.982	178.184	183.417	187.065	188.307
6.0	184.621	183.627	180.743	176.541	175.071	179.712	185.442	189.376	190.981
6.5	186.836	185.767	182.691	177.916	176.083	181.163	187.333	191.611	193.101
7.0	189.052	187.829	184.525	179.387	177.248	182.634	189.357	193.941	195.546
7.5	191.248	190.140	186.397	180.839	178.394	184.162	191.382	196.214	197.914
8.0	193.330	192.261	188.326	182.233	179.540	185.671	193.292	198.430	200.187
8.5	195.469	194.457	190.179	183.704	180.590	187.199	195.297	200.645	202.460
9.0	197.876	196.501	192.070	185.174	181.813	188.708	197.360	202.785	204.733
9.5	200.130	198.621	193.999	186.607	183.054	190.255	199.137	204.867	207.006
10.0	202.288	200.836	195.832	188.097	184.124	191.688	201.047	207.178	209.240
10.5	204.427	203.167	197.761	189.644	185.270	193.235	203.033	209.298	211.494
11.0	206.872	205.172	199.614	191.115	186.416	194.763	204.867	211.418	213.729
11.5	209.164	207.311	201.429	192.719	187.581	196.291	206.796	213.462	215.811
12.0	211.284	209.508	203.358	194.190	188.746	197.819	208.667	215.658	217.969
12.5	213.022	211.475	205.363	195.622	189.873	199.404	210.501	217.568	220.089
13.0	214.245	213.404	207.139	197.112	190.962	200.875	212.354	219.669	221.980
13.5	215.009	214.932	209.107	198.564	192.146	202.422	214.149	221.598	223.565
14.0	215.257	215.906	210.864	199.901	193.292	203.854	215.906	223.355	224.616
14.5	215.849	216.709	212.717	201.409	194.304	205.325	217.644	224.788	225.189
15.0	216.288	217.224	214.455	202.861	195.565	206.777	219.478	225.819	225.437
15.5	216.728	217.625	216.116	204.332	196.711	208.152	221.140	226.220	225.361
16.0	216.880	218.141	217.530	205.783	197.685	209.622	222.801	226.469	225.246
16.5	217.071	218.198	218.810	207.139	198.735	211.036	224.501	226.430	224.979
17.0	217.091	218.332	219.917	208.515	199.977	212.354	226.010	226.239	224.578
17.5	217.339	218.619	220.796	209.947	200.970	213.672	227.309	226.029	224.425
18.0	217.205	218.580	221.350	211.265	202.021	215.085	228.474	225.666	223.909
18.5	217.339	218.561	221.827	212.602	203.128	216.365	229.200	225.323	223.394
19.0	217.301	218.657	222.037	213.939	204.198	217.721	229.601	224.941	222.897
19.5	217.014	218.370	222.190	215.295	205.268	218.962	229.754	224.520	222.324
20.0	216.651	218.294	222.248	216.498	206.280	220.318	229.677	223.947	221.866
20.5	216.346	218.122	222.228	217.835	207.407	221.541	229.467	223.451	221.197
21.0	215.639	217.644	222.152	219.039	208.438	222.821	229.162	222.878	220.567
21.5	215.257	217.167	221.999	220.299	209.508	224.081	228.761	222.171	219.936
22.0	214.875	216.804	221.751	221.445	210.577	225.227	228.340	221.522	219.115
22.5	214.245	216.174	221.503	222.534	211.666	226.450	227.920	220.720	218.141
23.0	213.633	215.429	221.235	223.489	212.678	227.519	227.328	219.879	217.339
23.5	212.755	214.550	220.700	224.158	213.576	228.646	226.660	219.077	216.250
24.0	211.914	213.633	220.223	224.731	214.646	229.697	226.010	217.988	215.142
24.5	211.189	212.889	219.669	225.227	215.582	230.728	225.284	216.785	214.149
25.0	210.310	211.876	218.905	225.628	216.537	231.626	224.463	215.773	213.022
25.5	209.336	210.921	218.179	225.934	217.492	232.313	223.680	214.550	211.743
26.0	208.266	209.833	217.282	226.010	218.313	232.924	222.649	213.232	210.520
26.5	207.254	208.706	216.346	226.239	219.192	233.306	221.713	211.972	209.069

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CANDELA TABULATION - (Cont.)

27.0	205.860	207.464	215.295	226.163	219.994	233.478	220.662	210.501	207.693
27.5	204.905	206.414	214.206	226.010	220.777	233.517	219.421	209.145	206.280
28.0	203.491	205.134	212.927	225.647	221.503	233.364	218.179	207.636	204.752
28.5	202.135	203.644	211.628	225.246	222.324	232.905	216.823	206.089	203.109
29.0	200.836	202.231	210.348	224.520	223.126	232.313	215.352	204.427	201.467
29.5	199.404	200.894	208.897	223.776	223.852	231.511	213.863	202.766	199.786
30.0	197.971	199.423	207.350	222.859	224.444	230.499	212.258	201.066	197.933
30.5	196.176	197.895	205.764	221.732	225.208	229.410	210.463	199.232	196.004
31.0	194.763	196.482	204.103	220.739	225.800	228.188	208.725	197.360	194.190
31.5	193.235	194.858	202.498	219.554	226.469	226.851	206.891	195.527	192.146
32.0	191.420	193.158	200.894	218.179	227.118	225.304	205.019	193.598	190.236
32.5	189.778	191.554	199.003	216.842	227.500	223.604	203.052	191.535	187.982
33.0	188.001	189.758	197.246	215.257	227.978	221.751	201.142	189.434	185.900
33.5	185.958	188.116	195.469	213.576	228.340	219.936	199.156	187.275	183.417
34.0	184.296	186.225	193.502	211.991	228.226	217.759	197.016	185.194	181.316
34.5	182.520	184.391	191.668	210.024	227.939	215.677	194.935	182.978	179.005
35.0	180.419	182.462	189.682	208.056	226.984	213.500	192.662	180.724	176.541
35.5	178.547	180.686	187.772	206.032	225.686	211.246	190.522	178.451	174.116
36.0	176.560	178.604	185.709	203.912	224.005	208.858	188.288	175.987	171.804
36.5	174.459	176.656	183.780	201.620	222.018	206.586	186.015	173.734	169.264
37.0	172.607	174.708	181.717	199.270	219.516	204.026	183.685	171.365	166.838
37.5	170.620	172.664	179.540	196.883	216.384	201.524	181.316	168.844	164.260
38.0	168.519	170.563	177.554	194.495	212.927	199.003	178.986	166.361	161.720
38.5	166.495	168.481	175.376	191.936	209.336	196.348	176.446	163.744	159.256
39.0	164.451	166.495	173.294	189.396	205.631	193.808	174.039	161.261	156.754
39.5	162.503	164.355	171.136	186.760	201.925	191.134	171.537	158.645	154.118
40.0	160.822	162.312	168.920	184.143	198.201	188.498	169.073	156.085	151.654
40.5	158.874	160.230	166.705	181.565	194.667	185.786	166.456	153.507	149.095
41.0	156.906	158.224	164.546	178.852	191.134	183.131	163.916	150.928	146.631
41.5	155.436	156.257	162.235	176.331	187.715	180.419	161.280	148.311	144.262
42.0	153.831	154.290	159.982	173.676	184.544	177.706	158.683	145.752	141.875
42.5	152.494	152.342	157.670	171.002	181.278	174.937	155.971	143.231	139.583
43.0	151.348	150.527	155.417	168.366	178.203	172.225	153.258	140.767	137.195
43.5	150.355	148.961	153.086	165.597	175.319	169.379	150.603	138.399	135.209
44.0	149.534	147.376	150.833	162.885	172.435	166.514	147.777	135.896	133.280
44.5	148.311	146.153	148.560	160.325	169.646	163.706	145.045	133.700	131.465
45.0	147.299	144.969	146.230	157.441	166.858	160.726	142.276	131.580	129.995
45.5	146.344	143.842	144.090	154.786	164.260	157.900	139.659	129.651	128.543
46.0	145.294	142.906	141.856	152.074	161.510	154.882	136.947	127.855	127.168
46.5	144.186	141.837	139.678	149.362	158.931	151.864	134.254	126.289	125.716
47.0	143.059	140.710	137.654	146.497	156.162	148.865	131.465	124.838	124.245
47.5	142.066	139.716	135.553	143.747	153.354	145.771	128.925	123.386	122.775
48.0	141.053	138.704	133.757	140.996	150.546	142.696	126.385	122.011	121.247
48.5	139.946	137.539	132.000	138.093	147.643	139.525	123.844	120.559	119.967
49.0	139.048	136.508	130.491	135.381	144.682	136.508	121.514	119.165	118.592
49.5	138.017	135.438	128.944	132.516	141.646	133.356	119.260	117.732	117.159
50.0	137.004	134.426	127.588	129.746	138.551	130.357	117.274	116.414	115.880
50.5	135.992	133.337	126.194	127.091	135.304	127.244	115.402	114.982	114.543
51.0	135.075	132.363	125.009	124.494	132.057	124.112	113.702	113.683	113.129
51.5	134.235	131.255	123.940	121.591	128.791	121.075	112.193	112.289	111.926
52.0	133.127	130.357	122.985	119.050	125.334	118.057	110.761	111.086	110.684
52.5	132.363	129.364	121.915	116.491	121.801	115.077	109.538	109.768	109.424
53.0	131.408	128.333	120.903	113.855	118.458	112.136	108.163	108.412	108.182
53.5	130.606	127.397	119.852	111.582	115.001	109.347	106.884	107.418	106.922
54.0	129.784	126.557	118.878	109.233	111.620	106.578	105.661	106.043	105.795
54.5	128.696	125.563	117.847	107.094	108.412	104.038	104.420	104.878	104.763

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CANDELA TABULATION - (Cont.)

55.0	127.836	124.799	116.854	105.165	105.145	101.459	103.197	103.656	103.541
55.5	127.263	123.940	115.841	103.560	102.070	99.053	101.975	102.548	102.529
56.0	126.480	123.061	114.906	101.918	98.976	97.028	100.752	101.421	101.383
56.5	125.697	122.183	113.855	100.600	96.092	95.099	99.568	100.332	100.275
57.0	125.029	121.476	112.919	99.186	93.399	93.628	98.460	99.205	99.244
57.5	124.226	120.521	111.983	97.849	90.725	92.463	97.314	98.117	98.212
58.0	123.596	119.757	110.990	96.875	88.242	91.508	96.092	97.085	97.162
58.5	122.717	119.050	110.150	96.130	86.065	90.496	95.003	96.016	96.054
59.0	122.125	118.248	109.271	95.233	84.212	89.560	93.934	94.927	95.080
59.5	121.380	117.484	108.354	94.449	82.684	88.643	92.788	93.991	94.201
60.0	120.578	116.777	107.514	93.628	81.538	87.688	91.795	92.960	93.093
60.5	119.872	116.052	106.693	92.788	80.583	86.676	90.725	91.890	92.234
61.0	119.241	115.307	105.833	91.909	79.800	85.683	89.636	90.954	91.126
61.5	118.726	114.657	104.859	91.126	79.093	84.747	88.681	89.961	90.305
62.0	117.962	113.893	104.133	90.152	78.425	83.830	87.631	89.006	89.254
62.5	117.255	113.167	103.312	89.369	77.641	82.837	86.695	88.070	88.261
63.0	116.644	112.461	102.452	88.509	76.897	81.882	85.740	87.000	87.440
63.5	115.841	111.754	101.688	87.669	76.133	80.927	84.766	86.179	86.427
64.0	115.211	111.143	100.982	86.867	75.349	80.067	83.753	85.262	85.568
64.5	114.753	110.455	100.141	85.969	74.547	79.093	82.875	84.384	84.632
65.0	114.103	109.768	99.511	85.167	73.783	78.214	81.939	83.429	83.753
65.5	113.378	109.099	98.651	84.403	72.981	77.202	80.908	82.646	82.856
66.0	112.747	108.507	97.964	83.562	72.198	76.343	80.048	81.729	81.996
66.5	112.193	107.781	97.200	82.684	71.434	75.464	79.093	80.831	81.194
67.0	111.601	107.227	96.455	82.034	70.517	74.509	78.119	79.933	80.296
67.5	110.895	106.559	95.691	81.232	69.810	73.573	77.336	79.093	79.418
68.0	110.283	105.871	95.022	80.315	69.066	72.828	76.476	78.214	78.635
68.5	109.749	105.241	94.335	79.609	68.225	71.835	75.579	77.450	77.890
69.0	109.195	104.687	93.590	78.826	67.404	71.071	74.796	76.591	76.897
69.5	108.583	104.038	92.921	77.985	66.640	70.250	73.917	75.770	76.133
70.0	108.049	103.484	92.177	77.298	65.819	69.314	73.134	74.967	75.407
70.5	107.342	102.834	91.432	76.553	65.016	68.493	72.293	74.203	74.414
71.0	106.731	102.223	90.897	75.693	64.233	67.671	71.453	73.325	73.745
71.5	106.253	101.746	90.228	75.025	63.469	66.850	70.632	72.580	72.962
72.0	105.699	101.115	89.522	74.242	62.724	65.971	69.868	71.759	72.198
72.5	105.184	100.523	88.930	73.439	61.941	65.207	69.066	71.033	71.396
73.0	104.553	99.950	88.280	72.809	61.177	64.386	68.321	70.212	70.651
73.5	103.961	99.415	87.612	72.026	60.413	63.565	67.499	69.505	69.868
74.0	103.560	98.785	87.000	71.262	59.687	62.782	66.774	68.741	69.161
74.5	103.121	98.193	86.313	70.632	58.866	61.979	66.010	67.996	68.378
75.0	102.491	97.716	85.721	69.963	58.198	61.273	65.303	67.308	67.595
75.5	101.860	97.123	85.186	69.199	57.472	60.547	64.539	66.487	66.888
76.0	101.345	96.589	84.594	68.550	56.689	59.726	63.775	65.780	66.124
76.5	100.733	96.054	83.925	67.900	55.944	59.057	63.049	65.055	65.456
77.0	100.122	95.481	83.448	67.213	55.294	58.331	62.285	64.386	64.768
77.5	99.817	95.022	82.818	66.506	54.530	57.529	61.597	63.622	64.138
78.0	99.244	94.449	82.149	65.895	53.900	56.880	60.910	62.915	63.374
78.5	98.594	93.876	81.672	65.131	53.155	56.173	60.222	62.228	62.705
79.0	98.250	93.342	81.099	64.577	52.468	55.409	59.496	61.559	61.884
79.5	97.582	92.826	80.449	64.004	51.780	54.702	58.809	60.833	61.254
80.0	97.276	92.291	79.972	63.259	51.131	54.015	58.121	60.165	60.585
80.5	96.722	91.833	79.360	62.686	50.519	53.346	57.395	59.554	59.993
81.0	96.168	91.336	78.807	62.075	49.851	52.659	56.822	58.847	59.210
81.5	95.806	90.744	78.310	61.464	49.297	52.086	56.173	58.217	58.580
82.0	95.175	90.247	77.718	60.929	48.667	51.398	55.447	57.644	57.988
82.5	94.755	89.846	77.126	60.375	48.017	50.691	54.836	56.994	57.357

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CANDELA TABULATION - (Cont.)

83.0	94.125	89.254	76.667	59.745	47.387	50.118	54.225	56.345	56.689
83.5	93.666	88.834	76.152	59.172	46.814	49.526	53.575	55.676	56.020
84.0	93.265	88.376	75.579	58.694	46.222	48.877	53.002	55.123	55.390
84.5	92.769	87.822	75.158	58.083	45.668	48.266	52.353	54.435	54.741
85.0	92.368	87.325	74.662	57.586	45.152	47.654	51.799	53.881	54.282
85.5	91.928	86.867	74.108	57.071	44.541	47.005	51.264	53.270	53.614
86.0	91.470	86.389	73.630	56.517	44.045	46.489	50.577	52.544	53.136
86.5	90.992	86.007	73.248	56.039	43.491	45.897	50.004	52.009	52.353
87.0	90.477	85.530	72.695	55.676	42.994	45.343	49.488	51.513	51.818
87.5	90.056	85.033	72.293	55.103	42.612	44.828	48.915	50.882	51.322
88.0	89.655	84.747	71.892	54.741	42.039	44.312	48.418	50.367	50.691
88.5	89.216	84.307	71.453	54.339	41.695	43.796	47.884	49.851	50.137
89.0	89.140	84.059	71.128	53.900	41.294	43.433	47.368	49.259	49.507
89.5	89.178	84.040	71.128	53.862	41.008	43.051	46.890	48.781	49.030
90.0	89.006	84.155	71.262	53.938	41.160	42.956	46.699	48.495	48.705
90.5	89.292	84.269	71.281	53.996	41.160	42.994	46.585	48.342	48.609
91.0	89.541	84.346	71.396	54.110	41.122	42.994	46.489	48.266	48.514
91.5	89.617	84.575	71.491	54.225	41.256	43.013	46.470	48.227	48.342
92.0	89.770	84.556	71.682	54.187	41.275	43.013	46.375	48.075	48.285
92.5	89.885	84.708	71.759	54.339	41.390	42.956	46.298	47.922	48.151
93.0	90.037	84.842	71.759	54.473	41.351	42.841	46.298	47.865	48.075
93.5	90.267	84.938	72.026	54.530	41.542	42.860	46.298	47.788	47.941
94.0	90.362	85.129	72.102	54.683	41.504	42.822	46.126	47.712	47.788
94.5	90.496	85.186	72.217	54.721	41.600	42.727	46.184	47.578	47.559
95.0	90.782	85.320	72.293	54.817	41.600	42.727	46.050	47.311	47.425
95.5	90.744	85.530	72.389	54.932	41.657	42.708	45.955	47.234	47.368
96.0	90.973	85.625	72.523	55.008	41.695	42.669	45.859	47.139	47.120
96.5	91.088	85.721	72.752	55.065	41.810	42.612	45.744	46.929	47.005
97.0	91.222	85.854	72.714	55.199	41.791	42.574	45.687	46.795	46.757
97.5	91.317	85.969	72.828	55.352	41.810	42.478	45.630	46.757	46.661
98.0	91.527	85.988	72.962	55.333	41.963	42.517	45.458	46.566	46.508
98.5	91.546	86.160	73.057	55.505	41.982	42.402	45.401	46.432	46.317
99.0	91.661	86.275	73.057	55.657	42.039	42.287	45.362	46.279	46.165
99.5	91.795	86.313	73.191	55.600	42.077	42.287	45.152	46.126	45.897
100.0	91.833	86.408	73.248	55.715	42.173	42.211	45.114	45.993	45.783
100.5	91.986	86.427	73.268	55.810	42.192	42.154	45.057	45.802	45.592
101.0	91.966	86.485	73.344	55.925	42.287	42.077	44.942	45.592	45.401
101.5	92.177	86.523	73.420	55.963	42.326	41.944	44.809	45.477	45.133
102.0	92.100	86.580	73.401	56.058	42.478	41.905	44.675	45.267	45.057
102.5	92.157	86.580	73.420	56.078	42.478	41.848	44.503	45.076	44.866
103.0	92.177	86.638	73.459	56.154	42.593	41.695	44.350	44.923	44.694
103.5	92.177	86.657	73.420	56.269	42.555	41.638	44.236	44.809	44.350
104.0	92.329	86.676	73.344	56.154	42.593	41.542	44.064	44.618	44.274
104.5	92.368	86.752	73.363	56.269	42.631	41.428	43.834	44.388	43.968
105.0	92.196	86.771	73.325	56.326	42.746	41.313	43.624	44.255	43.758
105.5	92.291	86.657	73.306	56.211	42.784	41.218	43.414	44.006	43.510
106.0	92.368	86.676	73.363	56.249	42.727	41.141	43.204	43.739	43.357
106.5	92.329	86.714	73.325	56.249	42.784	41.046	43.013	43.548	43.109
107.0	92.387	86.714	73.268	56.230	42.727	40.969	42.784	43.261	42.918
107.5	92.329	86.657	73.248	56.211	42.727	40.855	42.593	43.032	42.593
108.0	92.329	86.638	73.210	56.307	42.784	40.626	42.383	42.650	42.268
108.5	92.368	86.618	73.248	56.211	42.708	40.587	42.192	42.421	41.924
109.0	92.196	86.599	73.153	56.211	42.746	40.377	41.982	42.096	41.714
109.5	92.253	86.466	73.057	56.135	42.650	40.320	41.772	41.848	41.237
110.0	92.157	86.485	73.000	56.135	42.708	40.225	41.562	41.466	41.084
110.5	92.177	86.332	73.000	56.116	42.631	40.110	41.294	41.275	40.607

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CANDELA TABULATION - (Cont.)

111.0	92.062	86.351	72.924	56.173	42.650	39.995	41.122	40.950	40.263
111.5	92.005	86.294	72.924	56.097	42.555	39.900	40.817	40.683	40.091
112.0	91.775	86.256	72.847	56.078	42.536	39.709	40.626	40.339	39.671
112.5	91.833	86.179	72.695	56.020	42.574	39.652	40.454	40.072	39.289
113.0	91.795	86.065	72.695	55.963	42.555	39.480	40.244	39.785	38.945
113.5	91.680	85.969	72.599	55.887	42.497	39.403	39.938	39.384	38.677
114.0	91.527	85.912	72.465	55.887	42.478	39.308	39.747	39.174	38.372
114.5	91.565	85.797	72.408	55.791	42.459	39.117	39.556	38.735	37.990
115.0	91.336	85.663	72.236	55.715	42.364	39.002	39.155	38.315	37.551
115.5	91.260	85.683	72.160	55.657	42.383	38.849	39.059	37.933	37.207
116.0	91.069	85.415	72.007	55.524	42.230	38.830	38.735	37.417	36.806
116.5	91.088	85.339	71.911	55.505	42.287	38.601	38.410	37.016	36.405
117.0	90.840	85.205	71.759	55.409	42.192	38.525	38.276	36.653	35.717
117.5	90.629	85.014	71.701	55.314	42.096	38.391	38.066	36.137	35.354
118.0	90.515	84.880	71.472	55.161	42.020	38.219	37.761	35.755	34.743
118.5	90.343	84.804	71.358	55.084	41.905	38.085	37.493	35.335	34.304
119.0	90.114	84.556	71.224	55.046	41.848	37.971	37.340	34.896	33.769
119.5	89.923	84.441	71.090	54.951	41.848	37.856	36.997	34.399	33.196
120.0	89.751	84.326	70.976	54.798	41.714	37.722	36.844	33.883	32.680
120.5	89.617	84.021	70.823	54.607	41.619	37.531	36.557	33.425	32.183
121.0	89.426	83.887	70.594	54.607	41.466	37.398	36.252	33.005	31.668
121.5	89.082	83.753	70.403	54.511	41.466	37.207	36.118	32.585	31.133
122.0	88.930	83.467	70.269	54.282	41.409	37.054	35.851	32.107	30.579
122.5	88.662	83.276	70.135	54.148	41.256	36.997	35.602	31.706	30.121
123.0	88.452	83.104	69.887	54.091	41.160	36.767	35.392	31.267	29.605
123.5	88.166	82.741	69.677	53.843	41.084	36.653	35.182	30.885	28.975
124.0	88.127	82.474	69.543	53.766	41.046	36.538	34.838	30.426	28.554
124.5	87.650	82.283	69.333	53.633	40.893	36.347	34.666	30.044	28.096
125.0	87.325	81.977	69.142	53.480	40.759	36.309	34.495	29.624	27.619
125.5	87.000	81.729	68.855	53.270	40.664	36.137	34.284	29.261	27.256
126.0	86.618	81.385	68.645	53.155	40.626	36.061	34.151	28.936	26.855
126.5	86.466	81.060	68.397	52.964	40.530	35.965	33.902	28.554	26.453
127.0	85.893	80.812	68.187	52.869	40.473	35.870	33.616	28.249	26.052
127.5	85.511	80.430	67.900	52.697	40.396	35.717	33.463	27.981	25.747
128.0	85.243	80.086	67.652	52.487	40.263	35.679	33.291	27.561	25.403
128.5	84.823	79.704	67.385	52.372	40.263	35.641	33.043	27.217	25.078
129.0	84.403	79.494	67.156	52.162	40.091	35.469	32.852	26.835	24.754
129.5	84.116	79.074	66.831	52.028	40.014	35.354	32.718	26.511	24.543
130.0	83.562	78.807	66.563	51.761	39.938	35.144	32.374	26.205	24.238
130.5	83.238	78.425	66.258	51.627	39.938	35.087	32.241	25.919	23.837
131.0	82.856	78.043	65.971	51.513	39.747	34.972	32.050	25.651	23.665
131.5	82.531	77.718	65.723	51.264	39.671	34.896	31.821	25.288	23.493
132.0	81.977	77.336	65.360	51.207	39.613	34.819	31.630	25.021	23.168
132.5	81.481	76.839	65.093	50.921	39.499	34.705	31.496	24.734	22.882
133.0	81.137	76.476	64.787	50.691	39.327	34.590	31.267	24.486	22.824
133.5	80.621	76.094	64.462	50.539	39.308	34.495	31.095	24.295	22.538
134.0	80.201	75.636	64.157	50.309	39.136	34.456	30.885	24.028	22.442
134.5	79.800	75.216	63.832	50.061	39.117	34.342	30.751	23.741	22.194
135.0	79.322	74.815	63.431	49.832	38.964	34.189	30.560	23.569	22.003
135.5	78.864	74.299	63.183	49.641	38.849	34.208	30.369	23.359	21.812
136.0	78.348	74.032	62.801	49.412	38.716	33.998	30.140	23.015	21.564
136.5	77.871	73.592	62.476	49.259	38.620	33.902	29.930	22.863	21.316
137.0	77.336	73.077	62.132	48.972	38.525	33.788	29.853	22.633	21.048
137.5	76.801	72.637	61.788	48.762	38.334	33.692	29.567	22.366	20.953
138.0	76.228	72.179	61.426	48.571	38.295	33.520	29.471	22.251	20.895
138.5	75.789	71.682	61.120	48.323	38.181	33.520	29.395	22.060	20.647

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CANDELA TABULATION - (Cont.)

139.0	75.216	71.281	60.719	48.036	37.971	33.463	29.127	21.793	20.494
139.5	74.719	70.765	60.337	47.807	37.875	33.329	28.994	21.640	20.303
140.0	74.337	70.307	59.821	47.616	37.818	33.291	28.860	21.430	20.112
140.5	73.802	69.753	59.554	47.253	37.589	33.119	28.612	21.277	19.940
141.0	73.268	69.390	59.134	47.120	37.512	32.986	28.535	21.010	19.711
141.5	72.809	68.779	58.790	46.814	37.360	32.967	28.344	20.819	19.520
142.0	72.255	68.321	58.350	46.508	37.169	32.852	28.192	20.590	19.291
142.5	71.587	67.843	57.988	46.279	37.054	32.718	28.096	20.494	19.062
143.0	71.052	67.289	57.567	45.974	36.920	32.680	27.962	20.189	19.004
143.5	70.479	66.735	57.109	45.668	36.767	32.508	27.733	20.017	18.833
144.0	69.944	66.220	56.708	45.439	36.557	32.374	27.695	19.864	18.718
144.5	69.371	65.685	56.307	45.191	36.424	32.413	27.657	19.749	18.584
145.0	68.760	65.226	55.944	44.809	36.252	32.260	27.447	19.501	18.489
145.5	68.206	64.692	55.524	44.598	36.137	32.126	27.313	19.406	18.470
146.0	67.576	64.119	55.065	44.312	35.946	31.973	27.256	19.272	18.584
146.5	67.022	63.527	54.588	44.006	35.736	31.916	27.084	18.985	18.565
147.0	66.468	63.011	54.225	43.701	35.545	31.801	27.103	18.852	18.508
147.5	65.895	62.361	53.786	43.395	35.488	31.706	26.931	18.737	18.565
148.0	65.207	61.827	53.308	43.109	35.239	31.572	26.816	18.584	18.603
148.5	64.558	61.311	52.907	42.784	35.144	31.458	26.721	18.412	18.642
149.0	63.870	60.795	52.429	42.517	34.915	31.381	26.683	18.240	18.737
149.5	63.393	60.203	51.971	42.135	34.705	31.324	26.568	18.164	18.833
150.0	62.743	59.554	51.513	41.867	34.475	31.133	26.473	18.030	18.813
150.5	62.113	59.057	51.035	41.562	34.361	31.095	26.415	17.954	18.928
151.0	61.502	58.370	50.615	41.180	34.151	30.942	26.301	17.935	19.062
151.5	60.948	57.816	50.176	40.912	33.960	30.866	26.205	17.782	18.985
152.0	60.146	57.300	49.660	40.645	33.788	30.713	26.129	17.610	18.947
152.5	59.496	56.631	49.240	40.244	33.559	30.636	25.976	17.591	19.024
153.0	59.000	56.001	48.667	39.843	33.406	30.541	25.995	17.515	19.004
153.5	58.236	55.447	48.266	39.537	33.177	30.388	25.957	17.496	19.081
154.0	57.586	54.836	47.750	39.231	32.986	30.254	25.804	17.457	19.024
154.5	56.880	54.187	47.215	38.849	32.814	30.121	25.804	17.457	18.985
155.0	56.173	53.518	46.757	38.486	32.642	29.968	25.689	17.438	18.985
155.5	55.543	52.869	46.279	38.104	32.413	29.853	25.537	17.476	19.100
156.0	54.932	52.296	45.764	37.837	32.183	29.777	25.537	17.496	19.100
156.5	54.091	51.665	45.210	37.417	32.050	29.605	25.537	17.419	19.215
157.0	53.575	51.073	44.770	37.016	31.744	29.490	25.422	17.266	19.176
157.5	52.831	50.424	44.216	36.653	31.496	29.299	25.384	17.190	19.081
158.0	52.162	49.717	43.777	36.347	31.324	29.204	25.365	17.056	19.081
158.5	51.570	49.163	43.319	35.927	31.037	29.051	25.269	16.808	19.062
159.0	50.825	48.552	42.727	35.545	30.808	28.841	25.231	16.712	19.081
159.5	50.137	47.865	42.230	35.220	30.579	28.784	25.193	16.483	19.100
160.0	49.431	47.177	41.695	34.743	30.331	28.574	25.059	16.464	19.081
160.5	48.800	46.547	41.199	34.380	30.121	28.497	24.945	16.369	19.062
161.0	48.056	45.859	40.626	34.036	29.911	28.306	24.830	16.330	19.215
161.5	47.253	45.210	40.148	33.540	29.624	28.153	24.658	16.101	19.291
162.0	46.508	44.560	39.499	33.119	29.395	27.962	24.486	15.948	19.386
162.5	45.802	43.892	39.002	32.795	29.261	27.829	24.219	15.777	19.386
163.0	45.095	43.185	38.467	32.355	28.898	27.638	23.627	15.662	19.425
163.5	44.331	42.555	37.875	31.973	28.745	27.447	22.996	15.375	19.539
164.0	43.701	41.848	37.360	31.610	28.516	27.389	22.213	14.898	19.482
164.5	42.918	41.122	36.806	31.095	28.230	27.160	21.239	14.478	19.119
165.0	42.173	40.396	36.252	30.694	27.962	26.797	20.341	14.268	18.546
165.5	41.371	39.747	35.679	30.235	27.714	26.377	19.386	14.172	17.782
166.0	40.683	39.040	35.087	29.872	27.389	25.709	18.240	14.096	16.903
166.5	39.862	38.295	34.418	29.471	27.026	24.792	17.285	13.905	15.662

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CANDELA TABULATION - (Cont.)

167.0	39.021	37.589	33.883	29.089	26.453	23.818	16.521	13.809	14.191
167.5	38.276	36.882	33.329	28.612	25.632	22.653	15.757	13.408	12.912
168.0	37.417	36.042	32.565	28.249	24.486	21.392	15.280	13.141	11.384
168.5	36.634	35.297	31.992	27.790	23.474	20.208	14.974	12.816	9.970
169.0	35.832	34.609	31.458	27.103	22.099	18.947	14.631	12.186	8.289
169.5	34.991	33.883	30.751	26.262	20.876	17.725	14.497	11.498	6.494
170.0	34.113	33.100	30.044	25.136	19.501	16.789	14.229	10.505	4.832
170.5	33.272	32.107	29.299	23.970	18.336	16.178	13.847	9.283	3.495
171.0	32.413	31.190	28.211	22.748	17.362	15.566	13.542	8.213	2.139
171.5	31.630	30.407	27.275	21.468	16.693	15.223	13.007	7.296	1.413
172.0	30.713	29.529	26.358	20.246	16.101	14.974	12.090	6.207	1.261
172.5	29.930	28.325	25.078	19.348	15.586	14.535	11.021	5.138	1.241
173.0	28.554	27.237	23.856	18.508	15.146	14.038	9.932	4.106	1.184
173.5	26.912	25.995	22.481	17.515	14.592	13.026	8.499	3.476	1.012
174.0	26.033	24.391	20.895	16.712	14.134	11.555	7.029	3.209	0.879
174.5	24.601	22.844	19.463	15.796	13.274	10.085	5.615	2.884	0.745
175.0	22.882	21.182	18.088	14.650	12.033	8.404	4.488	2.636	0.573
175.5	20.647	19.253	16.464	13.485	10.505	6.570	3.839	2.177	0.420
176.0	18.412	17.114	14.860	12.090	8.881	4.985	3.400	1.814	0.554
176.5	16.006	14.707	12.969	10.123	6.991	3.839	2.903	1.280	0.439
177.0	13.198	12.262	10.849	8.117	5.291	3.228	2.445	0.840	0.363
177.5	10.295	9.512	8.843	6.322	3.896	2.846	2.063	0.554	0.363
178.0	7.201	6.666	6.742	4.297	2.865	2.368	1.623	0.458	0.611
178.5	4.584	4.259	4.450	2.731	2.311	1.948	1.222	0.497	0.420
179.0	2.693	2.559	2.387	1.700	1.795	1.547	0.955	0.458	0.477
179.5	0.955	1.452	0.917	0.917	1.241	1.241	0.592	0.477	0.668
180.0	0.688	0.688	0.688	0.688	0.688	0.688	0.688	0.688	0.688

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	77.86	N.A.	7.40
0-30	178.79	N.A.	16.90
0-40	300.85	N.A.	28.50
0-60	514.79	N.A.	48.70
0-80	681.07	N.A.	64.40
0-90	748.26	N.A.	70.80
10-90	730.62	N.A.	69.10
20-40	222.99	N.A.	21.10
20-50	338.04	N.A.	32.00
40-70	302.10	N.A.	28.60
60-80	166.28	N.A.	15.70
70-80	78.12	N.A.	7.40
80-90	67.19	N.A.	6.40
90-110	122.84	N.A.	11.60
90-120	177.00	N.A.	16.70
90-130	222.26	N.A.	21.00
90-150	283.34	N.A.	26.80
90-180	309.18	N.A.	29.20
110-180	186.34	N.A.	17.60
0-180	1057.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	17.64
10-20	60.22
20-30	100.93
30-40	122.06
40-50	115.05
50-60	98.89
60-70	88.16
70-80	78.12
80-90	67.19
90-100	62.61
100-110	60.24
110-120	54.15
120-130	45.27
130-140	35.47
140-150	25.60
150-160	16.39
160-170	8.05
170-180	1.40

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAB 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	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	60	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	39	33	29	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	32	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

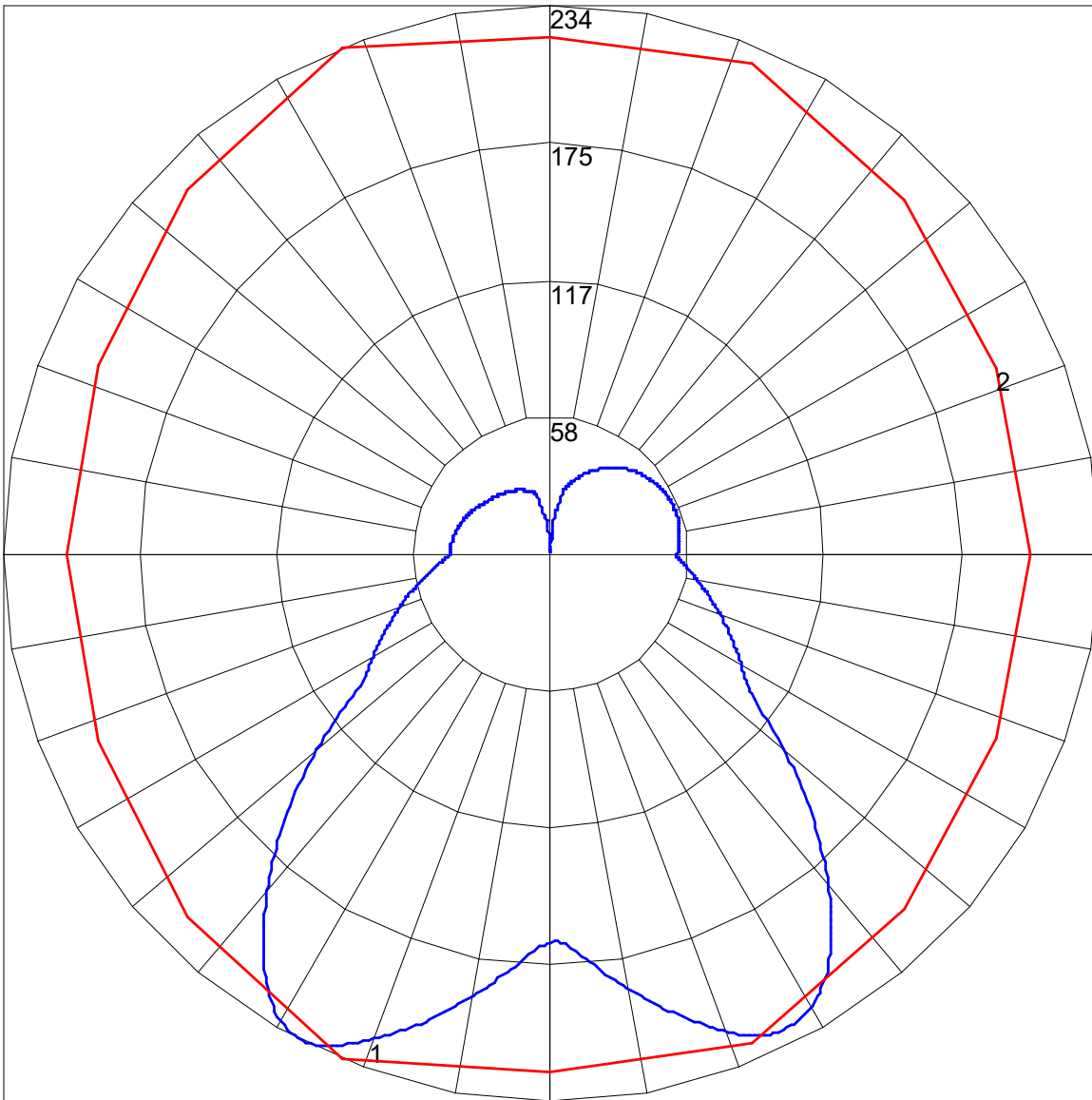
IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAB 3 LIGHT.IES

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	12.1	13.3	14.3	9.6	10.8	10.4	11.6	12.5
	3H	13.7	14.8	14.4	15.5	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	13.0	14.0	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	17.7	17.7	18.6	19.6	13.6	14.5	14.4	15.3	16.3
4H	2H	12.0	13.0	12.8	13.8	14.8	10.6	11.6	11.4	12.4	13.4
	3H	14.6	15.4	15.4	16.3	17.3	12.6	13.5	13.4	14.3	15.3
	4H	15.9	16.7	16.7	17.5	18.5	13.6	14.4	14.4	15.2	16.2
	6H	17.1	17.8	18.0	18.7	19.7	14.4	15.1	15.3	16.0	17.0
	8H	17.7	18.4	18.6	19.2	20.3	14.8	15.5	15.7	16.3	17.4
	12H	18.3	18.9	19.2	19.8	20.8	15.2	15.8	16.1	16.7	17.7
8H	4H	16.3	16.9	17.1	17.8	18.8	14.3	14.9	15.1	15.8	16.8
	6H	17.8	18.3	18.6	19.2	20.2	15.4	15.9	16.2	16.8	17.8
	8H	18.5	19.0	19.4	19.9	21.0	15.9	16.4	16.7	17.3	18.3
	12H	19.3	19.8	20.2	20.6	21.7	16.4	16.8	17.2	17.7	18.8
12H	4H	16.4	17.0	17.2	17.8	18.9	14.5	15.1	15.3	15.9	17.0
	6H	17.9	18.4	18.8	19.3	20.4	15.7	16.2	16.5	17.0	18.1
	8H	18.8	19.2	19.6	20.1	21.2	16.3	16.7	17.1	17.6	18.7

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 233.517 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.)