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IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAB 1 LIGHT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LLI-18097-3
[TESTLAB] LightLab International (www.LightLabInternational.com)
[MANUFAC] Justice Design Group, Los Angeles, CA 90071
[LUMCAT] Textile Woven Fabric (FAB) 1-Light Wall Sconce
[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: FAB 1-Light
[MORE] Steel formed housing and woven fabric lens.
[MORE] 10 LEDs mounted in circular array with white plastic dome lens.
[MORE] No driver.
[MORE] Operating at 120 VAC and 60 Hz.
[OTHER] Absolute test - lamp lumens value set to -1
[MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.
[MORE] The sample was tested at a distance of 8m.
[MORE] This IES file created by LightLab/LSA Report program version 3.820a.
[DATE] This file created: Wednesday, April 18, 2018 12:43:45 PM
[ISSUEDATE] Wednesday, April 18, 2018 12:43:45 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	354
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	47
Total Luminaire Watts	7.48
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)	0.17 m
Luminous Height	0.14 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1896	1811	3122
55	1599	1400	2027
65	1430	1189	1514
75	1328	1053	1320
85	1278	975	1184

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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	55.526	55.526	55.526	55.526	55.526	55.526	55.526	55.526	55.526
0.5	54.989	55.149	55.360	55.386	55.565	55.789	55.962	55.974	55.981
1.0	55.130	55.315	55.405	55.443	55.635	55.994	56.269	56.378	56.461
1.5	55.571	55.680	55.680	55.584	55.821	56.288	56.691	56.947	57.050
2.0	56.064	56.109	56.077	55.802	56.038	56.608	57.184	57.581	57.709
2.5	56.666	56.704	56.538	56.128	56.314	56.992	57.741	58.278	58.426
3.0	57.382	57.261	57.050	56.512	56.595	57.389	58.368	58.970	59.168
3.5	58.106	57.933	57.619	56.902	56.922	57.798	58.950	59.693	60.006
4.0	58.854	58.675	58.150	57.338	57.248	58.278	59.597	60.429	60.736
4.5	59.610	59.347	58.765	57.747	57.600	58.758	60.224	61.197	61.555
5.0	60.320	60.115	59.360	58.189	57.933	59.232	60.813	61.901	62.330
5.5	61.037	60.787	59.955	58.682	58.298	59.706	61.459	62.682	63.098
6.0	61.862	61.530	60.563	59.155	58.662	60.218	62.138	63.456	63.994
6.5	62.605	62.246	61.216	59.616	59.002	60.704	62.771	64.205	64.704
7.0	63.347	62.938	61.830	60.109	59.392	61.197	63.450	64.986	65.523
7.5	64.083	63.712	62.458	60.595	59.776	61.709	64.128	65.747	66.317
8.0	64.781	64.422	63.104	61.062	60.160	62.214	64.768	66.490	67.078
8.5	65.498	65.158	63.725	61.555	60.512	62.726	65.440	67.232	67.840
9.0	66.304	65.843	64.358	62.048	60.922	63.232	66.131	67.949	68.602
9.5	67.059	66.554	65.005	62.528	61.338	63.750	66.726	68.646	69.363
10.0	67.782	67.296	65.619	63.027	61.696	64.230	67.366	69.421	70.112
10.5	68.499	68.077	66.266	63.546	62.080	64.749	68.032	70.131	70.867
11.0	69.318	68.749	66.886	64.038	62.464	65.261	68.646	70.842	71.616
11.5	70.086	69.466	67.494	64.576	62.854	65.773	69.293	71.526	72.314
12.0	70.797	70.202	68.141	65.069	63.245	66.285	69.920	72.262	73.037
12.5	71.379	70.861	68.813	65.549	63.622	66.816	70.534	72.902	73.747
13.0	71.789	71.507	69.408	66.048	63.987	67.309	71.155	73.606	74.381
13.5	72.045	72.019	70.067	66.534	64.384	67.827	71.757	74.253	74.912
14.0	72.128	72.346	70.656	66.982	64.768	68.307	72.346	74.842	75.264
14.5	72.326	72.614	71.277	67.488	65.107	68.800	72.928	75.322	75.456
15.0	72.474	72.787	71.859	67.974	65.530	69.286	73.542	75.667	75.539
15.5	72.621	72.922	72.416	68.467	65.914	69.747	74.099	75.802	75.514
16.0	72.672	73.094	72.890	68.954	66.240	70.240	74.656	75.885	75.475
16.5	72.736	73.114	73.318	69.408	66.592	70.714	75.226	75.872	75.386
17.0	72.742	73.158	73.690	69.869	67.008	71.155	75.731	75.808	75.251
17.5	72.826	73.254	73.984	70.349	67.341	71.597	76.166	75.738	75.200
18.0	72.781	73.242	74.170	70.790	67.693	72.070	76.557	75.616	75.027
18.5	72.826	73.235	74.330	71.238	68.064	72.499	76.800	75.501	74.854
19.0	72.813	73.267	74.400	71.686	68.422	72.954	76.934	75.373	74.688
19.5	72.717	73.171	74.451	72.141	68.781	73.370	76.986	75.232	74.496
20.0	72.595	73.146	74.470	72.544	69.120	73.824	76.960	75.040	74.342
20.5	72.493	73.088	74.464	72.992	69.498	74.234	76.890	74.874	74.118
21.0	72.256	72.928	74.438	73.395	69.843	74.662	76.787	74.682	73.907
21.5	72.128	72.768	74.387	73.818	70.202	75.085	76.653	74.445	73.696
22.0	72.000	72.646	74.304	74.202	70.560	75.469	76.512	74.227	73.421
22.5	71.789	72.435	74.221	74.566	70.925	75.878	76.371	73.958	73.094
23.0	71.584	72.186	74.131	74.886	71.264	76.237	76.173	73.677	72.826
23.5	71.290	71.891	73.952	75.110	71.565	76.614	75.949	73.408	72.461
24.0	71.008	71.584	73.792	75.302	71.923	76.966	75.731	73.043	72.090
24.5	70.765	71.334	73.606	75.469	72.237	77.312	75.488	72.640	71.757
25.0	70.470	70.995	73.350	75.603	72.557	77.613	75.213	72.301	71.379
25.5	70.144	70.675	73.107	75.706	72.877	77.843	74.950	71.891	70.950
26.0	69.786	70.310	72.806	75.731	73.152	78.048	74.605	71.450	70.541
26.5	69.446	69.933	72.493	75.808	73.446	78.176	74.291	71.027	70.054

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CANDELA TABULATION - (Cont.)

27.0	68.979	69.517	72.141	75.782	73.715	78.234	73.939	70.534	69.594
27.5	68.659	69.165	71.776	75.731	73.978	78.246	73.523	70.080	69.120
28.0	68.186	68.736	71.347	75.610	74.221	78.195	73.107	69.574	68.608
28.5	67.731	68.237	70.912	75.475	74.496	78.042	72.653	69.056	68.058
29.0	67.296	67.763	70.483	75.232	74.765	77.843	72.160	68.499	67.507
29.5	66.816	67.315	69.997	74.982	75.008	77.574	71.661	67.942	66.944
30.0	66.336	66.822	69.478	74.675	75.206	77.235	71.123	67.373	66.323
30.5	65.734	66.310	68.947	74.298	75.462	76.870	70.522	66.758	65.677
31.0	65.261	65.837	68.390	73.965	75.661	76.461	69.939	66.131	65.069
31.5	64.749	65.293	67.853	73.568	75.885	76.013	69.325	65.517	64.384
32.0	64.141	64.723	67.315	73.107	76.102	75.494	68.698	64.870	63.744
32.5	63.590	64.186	66.682	72.659	76.230	74.925	68.038	64.179	62.989
33.0	62.995	63.584	66.093	72.128	76.390	74.304	67.398	63.475	62.291
33.5	62.310	63.034	65.498	71.565	76.512	73.696	66.733	62.752	61.459
34.0	61.754	62.400	64.838	71.034	76.474	72.966	66.016	62.054	60.755
34.5	61.158	61.786	64.224	70.374	76.378	72.269	65.318	61.312	59.981
35.0	60.454	61.139	63.558	69.715	76.058	71.539	64.557	60.557	59.155
35.5	59.827	60.544	62.918	69.037	75.622	70.784	63.840	59.795	58.342
36.0	59.162	59.846	62.227	68.326	75.059	69.984	63.091	58.970	57.568
36.5	58.458	59.194	61.581	67.558	74.394	69.222	62.330	58.214	56.717
37.0	57.837	58.541	60.890	66.771	73.555	68.365	61.549	57.421	55.904
37.5	57.171	57.856	60.160	65.971	72.506	67.526	60.755	56.576	55.040
38.0	56.467	57.152	59.494	65.171	71.347	66.682	59.974	55.744	54.189
38.5	55.789	56.454	58.765	64.314	70.144	65.792	59.123	54.867	53.363
39.0	55.104	55.789	58.067	63.462	68.902	64.941	58.317	54.035	52.525
39.5	54.451	55.072	57.344	62.579	67.661	64.045	57.478	53.158	51.642
40.0	53.888	54.387	56.602	61.702	66.413	63.162	56.653	52.301	50.816
40.5	53.235	53.690	55.859	60.838	65.229	62.253	55.776	51.437	49.958
41.0	52.576	53.018	55.136	59.930	64.045	61.363	54.925	50.573	49.133
41.5	52.083	52.358	54.362	59.085	62.899	60.454	54.042	49.696	48.339
42.0	51.546	51.699	53.606	58.195	61.837	59.546	53.171	48.838	47.539
42.5	51.098	51.046	52.832	57.299	60.742	58.618	52.262	47.994	46.771
43.0	50.714	50.438	52.077	56.416	59.712	57.709	51.354	47.168	45.971
43.5	50.381	49.914	51.296	55.488	58.746	56.755	50.464	46.374	45.306
44.0	50.106	49.382	50.541	54.579	57.779	55.795	49.517	45.536	44.659
44.5	49.696	48.973	49.779	53.722	56.845	54.854	48.602	44.800	44.051
45.0	49.357	48.576	48.998	52.755	55.910	53.856	47.674	44.090	43.558
45.5	49.037	48.198	48.282	51.866	55.040	52.909	46.797	43.443	43.072
46.0	48.685	47.885	47.533	50.957	54.118	51.898	45.888	42.842	42.611
46.5	48.314	47.526	46.803	50.048	53.254	50.886	44.986	42.317	42.125
47.0	47.936	47.149	46.125	49.088	52.326	49.882	44.051	41.830	41.632
47.5	47.603	46.816	45.421	48.166	51.386	48.845	43.200	41.344	41.139
48.0	47.264	46.477	44.819	47.245	50.445	47.814	42.349	40.883	40.627
48.5	46.893	46.086	44.230	46.272	49.472	46.752	41.498	40.397	40.198
49.0	46.592	45.741	43.725	45.363	48.480	45.741	40.717	39.930	39.738
49.5	46.246	45.382	43.206	44.403	47.462	44.685	39.962	39.450	39.258
50.0	45.907	45.043	42.752	43.475	46.426	43.680	39.296	39.008	38.829
50.5	45.568	44.678	42.285	42.586	45.338	42.637	38.669	38.528	38.381
51.0	45.261	44.352	41.888	41.715	44.250	41.587	38.099	38.093	37.907
51.5	44.979	43.981	41.530	40.742	43.155	40.570	37.594	37.626	37.504
52.0	44.608	43.680	41.210	39.891	41.997	39.558	37.114	37.222	37.088
52.5	44.352	43.347	40.851	39.034	40.813	38.560	36.704	36.781	36.666
53.0	44.032	43.002	40.512	38.150	39.693	37.574	36.243	36.326	36.250
53.5	43.763	42.688	40.160	37.389	38.534	36.640	35.814	35.994	35.827
54.0	43.488	42.406	39.834	36.602	37.402	35.712	35.405	35.533	35.450
54.5	43.123	42.074	39.488	35.885	36.326	34.861	34.989	35.142	35.104

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CANDELA TABULATION - (Cont.)

55.0	42.835	41.818	39.155	35.238	35.232	33.997	34.579	34.733	34.694
55.5	42.643	41.530	38.816	34.701	34.202	33.190	34.170	34.362	34.355
56.0	42.381	41.235	38.502	34.150	33.165	32.512	33.760	33.984	33.971
56.5	42.118	40.941	38.150	33.709	32.198	31.866	33.363	33.619	33.600
57.0	41.894	40.704	37.837	33.235	31.296	31.373	32.992	33.242	33.254
57.5	41.626	40.384	37.523	32.787	30.400	30.982	32.608	32.877	32.909
58.0	41.414	40.128	37.190	32.461	29.568	30.662	32.198	32.531	32.557
58.5	41.120	39.891	36.909	32.211	28.838	30.323	31.834	32.173	32.186
59.0	40.922	39.622	36.614	31.910	28.218	30.010	31.475	31.808	31.859
59.5	40.672	39.366	36.307	31.648	27.706	29.702	31.091	31.494	31.565
60.0	40.403	39.130	36.026	31.373	27.322	29.382	30.758	31.149	31.194
60.5	40.166	38.886	35.750	31.091	27.002	29.043	30.400	30.790	30.906
61.0	39.955	38.637	35.462	30.797	26.739	28.710	30.035	30.477	30.534
61.5	39.782	38.419	35.136	30.534	26.502	28.397	29.715	30.144	30.259
62.0	39.526	38.163	34.893	30.208	26.278	28.090	29.363	29.824	29.907
62.5	39.290	37.920	34.618	29.946	26.016	27.757	29.050	29.510	29.574
63.0	39.085	37.683	34.330	29.658	25.766	27.437	28.730	29.152	29.299
63.5	38.816	37.446	34.074	29.376	25.510	27.117	28.403	28.877	28.960
64.0	38.605	37.242	33.837	29.107	25.248	26.829	28.064	28.570	28.672
64.5	38.451	37.011	33.555	28.806	24.979	26.502	27.770	28.275	28.358
65.0	38.234	36.781	33.344	28.538	24.723	26.208	27.456	27.955	28.064
65.5	37.990	36.557	33.056	28.282	24.454	25.869	27.110	27.693	27.763
66.0	37.779	36.358	32.826	28.000	24.192	25.581	26.822	27.386	27.475
66.5	37.594	36.115	32.570	27.706	23.936	25.286	26.502	27.085	27.206
67.0	37.395	35.930	32.320	27.488	23.629	24.966	26.176	26.784	26.906
67.5	37.158	35.706	32.064	27.219	23.392	24.653	25.914	26.502	26.611
68.0	36.954	35.475	31.840	26.912	23.142	24.403	25.626	26.208	26.349
68.5	36.774	35.264	31.610	26.675	22.861	24.070	25.325	25.952	26.099
69.0	36.589	35.078	31.360	26.413	22.586	23.814	25.062	25.664	25.766
69.5	36.384	34.861	31.136	26.131	22.330	23.539	24.768	25.389	25.510
70.0	36.205	34.675	30.886	25.901	22.054	23.226	24.506	25.120	25.267
70.5	35.968	34.458	30.637	25.651	21.786	22.950	24.224	24.864	24.934
71.0	35.763	34.253	30.458	25.363	21.523	22.675	23.942	24.570	24.710
71.5	35.603	34.093	30.234	25.139	21.267	22.400	23.667	24.320	24.448
72.0	35.418	33.882	29.997	24.877	21.018	22.106	23.411	24.045	24.192
72.5	35.245	33.683	29.798	24.608	20.755	21.850	23.142	23.802	23.923
73.0	35.034	33.491	29.581	24.397	20.499	21.574	22.893	23.526	23.674
73.5	34.835	33.312	29.357	24.134	20.243	21.299	22.618	23.290	23.411
74.0	34.701	33.101	29.152	23.878	20.000	21.037	22.374	23.034	23.174
74.5	34.554	32.902	28.922	23.667	19.725	20.768	22.118	22.784	22.912
75.0	34.342	32.742	28.723	23.443	19.501	20.531	21.882	22.554	22.650
75.5	34.131	32.544	28.544	23.187	19.258	20.288	21.626	22.278	22.413
76.0	33.958	32.365	28.346	22.970	18.995	20.013	21.370	22.042	22.157
76.5	33.754	32.186	28.122	22.752	18.746	19.789	21.126	21.798	21.933
77.0	33.549	31.994	27.962	22.522	18.528	19.546	20.870	21.574	21.702
77.5	33.446	31.840	27.750	22.285	18.272	19.277	20.640	21.318	21.491
78.0	33.254	31.648	27.526	22.080	18.061	19.059	20.410	21.082	21.235
78.5	33.037	31.456	27.366	21.824	17.811	18.822	20.179	20.851	21.011
79.0	32.922	31.277	27.174	21.638	17.581	18.566	19.936	20.627	20.736
79.5	32.698	31.104	26.957	21.446	17.350	18.330	19.706	20.384	20.525
80.0	32.595	30.925	26.797	21.197	17.133	18.099	19.475	20.160	20.301
80.5	32.410	30.771	26.592	21.005	16.928	17.875	19.232	19.955	20.102
81.0	32.224	30.605	26.406	20.800	16.704	17.645	19.040	19.718	19.840
81.5	32.102	30.406	26.240	20.595	16.518	17.453	18.822	19.507	19.629
82.0	31.891	30.240	26.042	20.416	16.307	17.222	18.579	19.315	19.430
82.5	31.750	30.106	25.843	20.230	16.090	16.986	18.374	19.098	19.219

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CANDELA TABULATION - (Cont.)

83.0	31.539	29.907	25.690	20.019	15.878	16.794	18.170	18.880	18.995
83.5	31.386	29.766	25.517	19.827	15.686	16.595	17.952	18.656	18.771
84.0	31.251	29.613	25.325	19.667	15.488	16.378	17.760	18.470	18.560
84.5	31.085	29.427	25.184	19.462	15.302	16.173	17.542	18.240	18.342
85.0	30.950	29.261	25.018	19.296	15.130	15.968	17.357	18.054	18.189
85.5	30.803	29.107	24.832	19.123	14.925	15.750	17.178	17.850	17.965
86.0	30.650	28.947	24.672	18.938	14.758	15.578	16.947	17.606	17.805
86.5	30.490	28.819	24.544	18.778	14.573	15.379	16.755	17.427	17.542
87.0	30.317	28.659	24.358	18.656	14.406	15.194	16.582	17.261	17.363
87.5	30.176	28.493	24.224	18.464	14.278	15.021	16.390	17.050	17.197
88.0	30.042	28.397	24.090	18.342	14.086	14.848	16.224	16.877	16.986
88.5	29.894	28.250	23.942	18.208	13.971	14.675	16.045	16.704	16.800
89.0	29.869	28.166	23.834	18.061	13.837	14.554	15.872	16.506	16.589
89.5	29.882	28.160	23.834	18.048	13.741	14.426	15.712	16.346	16.429
90.0	29.824	28.198	23.878	18.074	13.792	14.394	15.648	16.250	16.320
90.5	29.920	28.237	23.885	18.093	13.792	14.406	15.610	16.198	16.288
91.0	30.003	28.262	23.923	18.131	13.779	14.406	15.578	16.173	16.256
91.5	30.029	28.339	23.955	18.170	13.824	14.413	15.571	16.160	16.198
92.0	30.080	28.333	24.019	18.157	13.830	14.413	15.539	16.109	16.179
92.5	30.118	28.384	24.045	18.208	13.869	14.394	15.514	16.058	16.134
93.0	30.170	28.429	24.045	18.253	13.856	14.355	15.514	16.038	16.109
93.5	30.246	28.461	24.134	18.272	13.920	14.362	15.514	16.013	16.064
94.0	30.278	28.525	24.160	18.323	13.907	14.349	15.456	15.987	16.013
94.5	30.323	28.544	24.198	18.336	13.939	14.317	15.475	15.942	15.936
95.0	30.419	28.589	24.224	18.368	13.939	14.317	15.430	15.853	15.891
95.5	30.406	28.659	24.256	18.406	13.958	14.310	15.398	15.827	15.872
96.0	30.483	28.691	24.301	18.432	13.971	14.298	15.366	15.795	15.789
96.5	30.522	28.723	24.378	18.451	14.010	14.278	15.328	15.725	15.750
97.0	30.566	28.768	24.365	18.496	14.003	14.266	15.309	15.680	15.667
97.5	30.598	28.806	24.403	18.547	14.010	14.234	15.290	15.667	15.635
98.0	30.669	28.813	24.448	18.541	14.061	14.246	15.232	15.603	15.584
98.5	30.675	28.870	24.480	18.598	14.067	14.208	15.213	15.558	15.520
99.0	30.714	28.909	24.480	18.650	14.086	14.170	15.200	15.507	15.469
99.5	30.758	28.922	24.525	18.630	14.099	14.170	15.130	15.456	15.379
100.0	30.771	28.954	24.544	18.669	14.131	14.144	15.117	15.411	15.341
100.5	30.822	28.960	24.550	18.701	14.138	14.125	15.098	15.347	15.277
101.0	30.816	28.979	24.576	18.739	14.170	14.099	15.059	15.277	15.213
101.5	30.886	28.992	24.602	18.752	14.182	14.054	15.014	15.238	15.123
102.0	30.861	29.011	24.595	18.784	14.234	14.042	14.970	15.168	15.098
102.5	30.880	29.011	24.602	18.790	14.234	14.022	14.912	15.104	15.034
103.0	30.886	29.030	24.614	18.816	14.272	13.971	14.861	15.053	14.976
103.5	30.886	29.037	24.602	18.854	14.259	13.952	14.822	15.014	14.861
104.0	30.938	29.043	24.576	18.816	14.272	13.920	14.765	14.950	14.835
104.5	30.950	29.069	24.582	18.854	14.285	13.882	14.688	14.874	14.733
105.0	30.893	29.075	24.570	18.874	14.323	13.843	14.618	14.829	14.662
105.5	30.925	29.037	24.563	18.835	14.336	13.811	14.547	14.746	14.579
106.0	30.950	29.043	24.582	18.848	14.317	13.786	14.477	14.656	14.528
106.5	30.938	29.056	24.570	18.848	14.336	13.754	14.413	14.592	14.445
107.0	30.957	29.056	24.550	18.842	14.317	13.728	14.336	14.496	14.381
107.5	30.938	29.037	24.544	18.835	14.317	13.690	14.272	14.419	14.272
108.0	30.938	29.030	24.531	18.867	14.336	13.613	14.202	14.291	14.163
108.5	30.950	29.024	24.544	18.835	14.310	13.600	14.138	14.214	14.048
109.0	30.893	29.018	24.512	18.835	14.323	13.530	14.067	14.106	13.978
109.5	30.912	28.973	24.480	18.810	14.291	13.510	13.997	14.022	13.818
110.0	30.880	28.979	24.461	18.810	14.310	13.478	13.926	13.894	13.766
110.5	30.886	28.928	24.461	18.803	14.285	13.440	13.837	13.830	13.606

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CANDELA TABULATION - (Cont.)

111.0	30.848	28.934	24.435	18.822	14.291	13.402	13.779	13.722	13.491
111.5	30.829	28.915	24.435	18.797	14.259	13.370	13.677	13.632	13.434
112.0	30.752	28.902	24.410	18.790	14.253	13.306	13.613	13.517	13.293
112.5	30.771	28.877	24.358	18.771	14.266	13.286	13.555	13.427	13.165
113.0	30.758	28.838	24.358	18.752	14.259	13.229	13.485	13.331	13.050
113.5	30.720	28.806	24.326	18.726	14.240	13.203	13.382	13.197	12.960
114.0	30.669	28.787	24.282	18.726	14.234	13.171	13.318	13.126	12.858
114.5	30.682	28.749	24.262	18.694	14.227	13.107	13.254	12.979	12.730
115.0	30.605	28.704	24.205	18.669	14.195	13.069	13.120	12.838	12.582
115.5	30.579	28.710	24.179	18.650	14.202	13.018	13.088	12.710	12.467
116.0	30.515	28.621	24.128	18.605	14.150	13.011	12.979	12.538	12.333
116.5	30.522	28.595	24.096	18.598	14.170	12.934	12.870	12.403	12.198
117.0	30.438	28.550	24.045	18.566	14.138	12.909	12.826	12.282	11.968
117.5	30.368	28.486	24.026	18.534	14.106	12.864	12.755	12.109	11.846
118.0	30.330	28.442	23.949	18.483	14.080	12.806	12.653	11.981	11.642
118.5	30.272	28.416	23.910	18.458	14.042	12.762	12.563	11.840	11.494
119.0	30.195	28.333	23.866	18.445	14.022	12.723	12.512	11.693	11.315
119.5	30.131	28.294	23.821	18.413	14.022	12.685	12.397	11.526	11.123
120.0	30.074	28.256	23.782	18.362	13.978	12.640	12.346	11.354	10.950
120.5	30.029	28.154	23.731	18.298	13.946	12.576	12.250	11.200	10.784
121.0	29.965	28.109	23.654	18.298	13.894	12.531	12.147	11.059	10.611
121.5	29.850	28.064	23.590	18.266	13.894	12.467	12.102	10.918	10.432
122.0	29.798	27.968	23.546	18.189	13.875	12.416	12.013	10.758	10.246
122.5	29.709	27.904	23.501	18.144	13.824	12.397	11.930	10.624	10.093
123.0	29.638	27.846	23.418	18.125	13.792	12.320	11.859	10.477	9.920
123.5	29.542	27.725	23.347	18.042	13.766	12.282	11.789	10.349	9.709
124.0	29.530	27.635	23.302	18.016	13.754	12.243	11.674	10.195	9.568
124.5	29.370	27.571	23.232	17.971	13.702	12.179	11.616	10.067	9.414
125.0	29.261	27.469	23.168	17.920	13.658	12.166	11.558	9.926	9.254
125.5	29.152	27.386	23.072	17.850	13.626	12.109	11.488	9.805	9.133
126.0	29.024	27.270	23.002	17.811	13.613	12.083	11.443	9.696	8.998
126.5	28.973	27.162	22.918	17.747	13.581	12.051	11.360	9.568	8.864
127.0	28.781	27.078	22.848	17.715	13.562	12.019	11.264	9.466	8.730
127.5	28.653	26.950	22.752	17.658	13.536	11.968	11.213	9.376	8.627
128.0	28.563	26.835	22.669	17.587	13.491	11.955	11.155	9.235	8.512
128.5	28.422	26.707	22.579	17.549	13.491	11.942	11.072	9.120	8.403
129.0	28.282	26.637	22.502	17.478	13.434	11.885	11.008	8.992	8.294
129.5	28.186	26.496	22.394	17.434	13.408	11.846	10.963	8.883	8.224
130.0	28.000	26.406	22.304	17.344	13.382	11.776	10.848	8.781	8.122
130.5	27.891	26.278	22.202	17.299	13.382	11.757	10.803	8.685	7.987
131.0	27.763	26.150	22.106	17.261	13.318	11.718	10.739	8.595	7.930
131.5	27.654	26.042	22.022	17.178	13.293	11.693	10.662	8.474	7.872
132.0	27.469	25.914	21.901	17.158	13.274	11.667	10.598	8.384	7.763
132.5	27.302	25.747	21.811	17.062	13.235	11.629	10.554	8.288	7.667
133.0	27.187	25.626	21.709	16.986	13.178	11.590	10.477	8.205	7.648
133.5	27.014	25.498	21.600	16.934	13.171	11.558	10.419	8.141	7.552
134.0	26.874	25.344	21.498	16.858	13.114	11.546	10.349	8.051	7.520
134.5	26.739	25.203	21.389	16.774	13.107	11.507	10.304	7.955	7.437
135.0	26.579	25.069	21.254	16.698	13.056	11.456	10.240	7.898	7.373
135.5	26.426	24.896	21.171	16.634	13.018	11.462	10.176	7.827	7.309
136.0	26.253	24.806	21.043	16.557	12.973	11.392	10.099	7.712	7.226
136.5	26.093	24.659	20.934	16.506	12.941	11.360	10.029	7.661	7.142
137.0	25.914	24.486	20.819	16.410	12.909	11.322	10.003	7.584	7.053
137.5	25.734	24.339	20.704	16.339	12.845	11.290	9.907	7.494	7.021
138.0	25.542	24.186	20.582	16.275	12.832	11.232	9.875	7.456	7.002
138.5	25.395	24.019	20.480	16.192	12.794	11.232	9.850	7.392	6.918

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CANDELA TABULATION - (Cont.)

139.0	25.203	23.885	20.346	16.096	12.723	11.213	9.760	7.302	6.867
139.5	25.037	23.712	20.218	16.019	12.691	11.168	9.715	7.251	6.803
140.0	24.909	23.558	20.045	15.955	12.672	11.155	9.670	7.181	6.739
140.5	24.730	23.373	19.955	15.834	12.595	11.098	9.587	7.130	6.682
141.0	24.550	23.251	19.814	15.789	12.570	11.053	9.562	7.040	6.605
141.5	24.397	23.046	19.699	15.686	12.518	11.046	9.498	6.976	6.541
142.0	24.211	22.893	19.552	15.584	12.454	11.008	9.446	6.899	6.464
142.5	23.987	22.733	19.430	15.507	12.416	10.963	9.414	6.867	6.387
143.0	23.808	22.547	19.290	15.405	12.371	10.950	9.370	6.765	6.368
143.5	23.616	22.362	19.136	15.302	12.320	10.893	9.293	6.707	6.310
144.0	23.437	22.189	19.002	15.226	12.250	10.848	9.280	6.656	6.272
144.5	23.245	22.010	18.867	15.142	12.205	10.861	9.267	6.618	6.227
145.0	23.040	21.856	18.746	15.014	12.147	10.810	9.197	6.534	6.195
145.5	22.854	21.677	18.605	14.944	12.109	10.765	9.152	6.502	6.189
146.0	22.643	21.485	18.451	14.848	12.045	10.714	9.133	6.458	6.227
146.5	22.458	21.286	18.291	14.746	11.974	10.694	9.075	6.362	6.221
147.0	22.272	21.114	18.170	14.643	11.910	10.656	9.082	6.317	6.202
147.5	22.080	20.896	18.022	14.541	11.891	10.624	9.024	6.278	6.221
148.0	21.850	20.717	17.862	14.445	11.808	10.579	8.986	6.227	6.234
148.5	21.632	20.544	17.728	14.336	11.776	10.541	8.954	6.170	6.246
149.0	21.402	20.371	17.568	14.246	11.699	10.515	8.941	6.112	6.278
149.5	21.242	20.173	17.414	14.118	11.629	10.496	8.902	6.086	6.310
150.0	21.024	19.955	17.261	14.029	11.552	10.432	8.870	6.042	6.304
150.5	20.813	19.789	17.101	13.926	11.514	10.419	8.851	6.016	6.342
151.0	20.608	19.558	16.960	13.798	11.443	10.368	8.813	6.010	6.387
151.5	20.422	19.373	16.813	13.709	11.379	10.342	8.781	5.958	6.362
152.0	20.154	19.200	16.640	13.619	11.322	10.291	8.755	5.901	6.349
152.5	19.936	18.976	16.499	13.485	11.245	10.266	8.704	5.894	6.374
153.0	19.770	18.765	16.307	13.350	11.194	10.234	8.710	5.869	6.368
153.5	19.514	18.579	16.173	13.248	11.117	10.182	8.698	5.862	6.394
154.0	19.296	18.374	16.000	13.146	11.053	10.138	8.646	5.850	6.374
154.5	19.059	18.157	15.821	13.018	10.995	10.093	8.646	5.850	6.362
155.0	18.822	17.933	15.667	12.896	10.938	10.042	8.608	5.843	6.362
155.5	18.611	17.715	15.507	12.768	10.861	10.003	8.557	5.856	6.400
156.0	18.406	17.523	15.334	12.678	10.784	9.978	8.557	5.862	6.400
156.5	18.125	17.312	15.149	12.538	10.739	9.920	8.557	5.837	6.438
157.0	17.952	17.114	15.002	12.403	10.637	9.882	8.518	5.786	6.426
157.5	17.702	16.896	14.816	12.282	10.554	9.818	8.506	5.760	6.394
158.0	17.478	16.659	14.669	12.179	10.496	9.786	8.499	5.715	6.394
158.5	17.280	16.474	14.515	12.038	10.400	9.734	8.467	5.632	6.387
159.0	17.030	16.269	14.317	11.910	10.323	9.664	8.454	5.600	6.394
159.5	16.800	16.038	14.150	11.802	10.246	9.645	8.442	5.523	6.400
160.0	16.563	15.808	13.971	11.642	10.163	9.574	8.397	5.517	6.394
160.5	16.352	15.597	13.805	11.520	10.093	9.549	8.358	5.485	6.387
161.0	16.102	15.366	13.613	11.405	10.022	9.485	8.320	5.472	6.438
161.5	15.834	15.149	13.453	11.238	9.926	9.434	8.262	5.395	6.464
162.0	15.584	14.931	13.235	11.098	9.850	9.370	8.205	5.344	6.496
162.5	15.347	14.707	13.069	10.989	9.805	9.325	8.115	5.286	6.496
163.0	15.110	14.470	12.890	10.842	9.683	9.261	7.917	5.248	6.509
163.5	14.854	14.259	12.691	10.714	9.632	9.197	7.706	5.152	6.547
164.0	14.643	14.022	12.518	10.592	9.555	9.178	7.443	4.992	6.528
164.5	14.381	13.779	12.333	10.419	9.459	9.101	7.117	4.851	6.406
165.0	14.131	13.536	12.147	10.285	9.370	8.979	6.816	4.781	6.214
165.5	13.862	13.318	11.955	10.131	9.286	8.838	6.496	4.749	5.958
166.0	13.632	13.082	11.757	10.010	9.178	8.614	6.112	4.723	5.664
166.5	13.357	12.832	11.533	9.875	9.056	8.307	5.792	4.659	5.248

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167.0	13.075	12.595	11.354	9.747	8.864	7.981	5.536	4.627	4.755
167.5	12.826	12.358	11.168	9.587	8.589	7.590	5.280	4.493	4.326
168.0	12.538	12.077	10.912	9.466	8.205	7.168	5.120	4.403	3.814
168.5	12.275	11.827	10.720	9.312	7.866	6.771	5.018	4.294	3.341
169.0	12.006	11.597	10.541	9.082	7.405	6.349	4.902	4.083	2.778
169.5	11.725	11.354	10.304	8.800	6.995	5.939	4.858	3.853	2.176
170.0	11.430	11.091	10.067	8.422	6.534	5.626	4.768	3.520	1.619
170.5	11.149	10.758	9.818	8.032	6.144	5.421	4.640	3.110	1.171
171.0	10.861	10.451	9.453	7.622	5.818	5.216	4.538	2.752	0.717
171.5	10.598	10.189	9.139	7.194	5.594	5.101	4.358	2.445	0.474
172.0	10.291	9.894	8.832	6.784	5.395	5.018	4.051	2.080	0.422
172.5	10.029	9.491	8.403	6.483	5.222	4.870	3.693	1.722	0.416
173.0	9.568	9.126	7.994	6.202	5.075	4.704	3.328	1.376	0.397
173.5	9.018	8.710	7.533	5.869	4.890	4.365	2.848	1.165	0.339
174.0	8.723	8.173	7.002	5.600	4.736	3.872	2.355	1.075	0.294
174.5	8.243	7.654	6.522	5.293	4.448	3.379	1.882	0.966	0.250
175.0	7.667	7.098	6.061	4.909	4.032	2.816	1.504	0.883	0.192
175.5	6.918	6.451	5.517	4.518	3.520	2.202	1.286	0.730	0.141
176.0	6.170	5.734	4.979	4.051	2.976	1.670	1.139	0.608	0.186
176.5	5.363	4.928	4.346	3.392	2.342	1.286	0.973	0.429	0.147
177.0	4.422	4.109	3.635	2.720	1.773	1.082	0.819	0.282	0.122
177.5	3.450	3.187	2.963	2.118	1.306	0.954	0.691	0.186	0.122
178.0	2.413	2.234	2.259	1.440	0.960	0.794	0.544	0.154	0.205
178.5	1.536	1.427	1.491	0.915	0.774	0.653	0.410	0.166	0.141
179.0	0.902	0.858	0.800	0.570	0.602	0.518	0.320	0.154	0.160
179.5	0.320	0.486	0.307	0.307	0.416	0.416	0.198	0.160	0.224
180.0	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAB 1 LIGHT.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	26.09	N.A.	7.40
0-30	59.91	N.A.	16.90
0-40	100.81	N.A.	28.50
0-60	172.49	N.A.	48.70
0-80	228.21	N.A.	64.40
0-90	250.73	N.A.	70.80
10-90	244.82	N.A.	69.10
20-40	74.72	N.A.	21.10
20-50	113.27	N.A.	32.00
40-70	101.23	N.A.	28.60
60-80	55.72	N.A.	15.70
70-80	26.18	N.A.	7.40
80-90	22.51	N.A.	6.40
90-110	41.16	N.A.	11.60
90-120	59.31	N.A.	16.70
90-130	74.48	N.A.	21.00
90-150	94.94	N.A.	26.80
90-180	103.60	N.A.	29.20
110-180	62.44	N.A.	17.60
0-180	354.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	5.91
10-20	20.18
20-30	33.82
30-40	40.90
40-50	38.55
50-60	33.14
60-70	29.54
70-80	26.18
80-90	22.51
90-100	20.98
100-110	20.18
110-120	18.15
120-130	15.17
130-140	11.89
140-150	8.58
150-160	5.49
160-170	2.70
170-180	0.47

IES INDOOR REPORT
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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	90	85	85	94	89	85	81	80	76	73	71	68	66	63	61	59	55
2	90	82	74	68	68	85	77	71	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	45	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	30	39	32	27	35	29	25	31	27	23	21
8	55	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	30	24	20	27	22	19	16
10	48	35	27	22	22	45	33	26	21	30	24	20	27	22	18	25	20	17	15

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAB 1 LIGHT.IES

UGR TABLE - CORRECTED

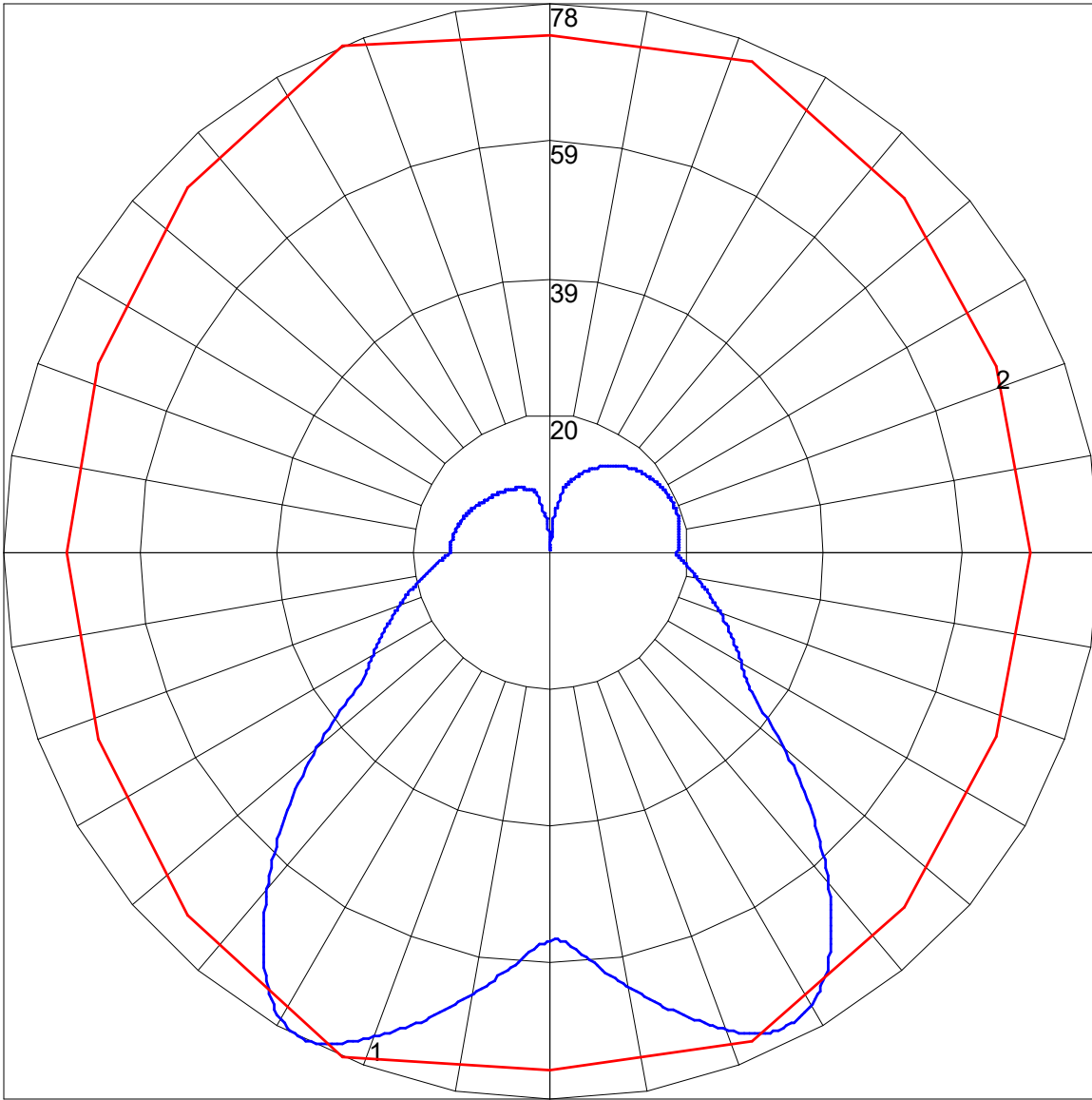
Reflectances

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	11.2	12.3	11.9	13.1	14.0	9.4	10.6	10.1	11.3	12.3
	3H	13.5	14.6	14.3	15.3	16.3	11.3	12.3	12.0	13.1	14.1
	4H	14.6	15.6	15.4	16.4	17.4	12.1	13.1	12.8	13.9	14.8
	6H	15.7	16.7	16.5	17.5	18.5	12.8	13.8	13.6	14.6	15.5
	8H	16.3	17.2	17.1	18.0	19.0	13.2	14.1	14.0	14.9	15.9
	12H	16.8	17.6	17.6	18.4	19.5	13.5	14.3	14.3	15.2	16.2
4H	2H	11.7	12.7	12.5	13.5	14.5	10.2	11.2	11.0	12.0	13.0
	3H	14.3	15.2	15.1	16.0	17.0	12.3	13.2	13.1	14.0	15.0
	4H	15.6	16.4	16.4	17.2	18.2	13.3	14.1	14.1	14.9	15.9
	6H	16.9	17.6	17.7	18.4	19.5	14.2	14.9	15.0	15.7	16.7
	8H	17.5	18.2	18.3	19.0	20.1	14.6	15.3	15.4	16.1	17.1
	12H	18.1	18.8	19.0	19.6	20.7	15.0	15.6	15.8	16.5	17.5
8H	4H	16.0	16.6	16.8	17.5	18.5	13.9	14.5	14.7	15.4	16.4
	6H	17.5	18.0	18.3	18.9	19.9	15.0	15.6	15.8	16.4	17.5
	8H	18.3	18.8	19.1	19.6	20.7	15.5	16.0	16.4	16.9	18.0
	12H	19.1	19.5	19.9	20.4	21.5	16.1	16.5	16.9	17.4	18.5
12H	4H	16.0	16.6	16.8	17.5	18.5	14.0	14.6	14.9	15.5	16.5
	6H	17.6	18.1	18.4	19.0	20.0	15.2	15.7	16.1	16.6	17.7
	8H	18.4	18.9	19.3	19.8	20.9	15.9	16.3	16.7	17.2	18.3

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 78.246 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.)