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IES INDOOR REPORT

PHOTOMETRIC FILENAME : FAB WHITE 4 LIGHT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 18097-C

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

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

[LUMCAT] Textile Woven Fabric (FAB) 4-Light Bath Bar

[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: FAB 4-Light

[MORE] Steel formed housing and four woven fabric lenses.

[MORE] 40 LEDs mounted in four circular arrays with white plastic dome lenses.

[MORE] No driver.

[MORE] Operating at 120 VAC and 60 Hz.

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

[ISSUE DATE] April 18, 2018

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1651
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	55
Total Luminaire Watts	29.99
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.56
Spacing Criterion (90-270)	1.74
Spacing Criterion (Diagonal)	1.54
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 m
Luminous Width (90-270)	0.66 m
Luminous Height	0.14 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2209	2515	5546
55	1863	1989	4008
65	1666	1729	3419
75	1546	1570	3575
85	1489	1493	4310

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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	258.718	258.718	258.718	258.718	258.718	258.718	258.718	258.718	258.718
0.5	256.213	256.959	257.943	258.062	258.897	259.941	260.746	260.806	260.836
1.0	256.869	257.734	258.152	258.331	259.225	260.895	262.177	262.684	263.072
1.5	258.927	259.434	259.434	258.987	260.090	262.267	264.146	265.338	265.815
2.0	261.223	261.432	261.283	260.001	261.104	263.758	266.442	268.291	268.887
2.5	264.026	264.205	263.430	261.521	262.386	265.547	269.036	271.541	272.227
3.0	267.366	266.800	265.815	263.311	263.698	267.396	271.958	274.761	275.686
3.5	270.736	269.931	268.469	265.130	265.219	269.304	274.672	278.131	279.592
4.0	274.225	273.390	270.945	267.157	266.740	271.541	277.684	281.560	282.992
4.5	277.743	276.521	273.807	269.066	268.380	273.777	280.606	285.139	286.809
5.0	281.054	280.099	276.581	271.123	269.931	275.984	283.350	288.419	290.417
5.5	284.393	283.230	279.354	273.420	271.630	278.191	286.361	292.057	293.995
6.0	288.240	286.689	282.187	275.626	273.330	280.576	289.522	295.665	298.170
6.5	291.699	290.029	285.228	277.773	274.911	282.843	292.475	299.154	301.480
7.0	295.158	293.250	288.091	280.069	276.730	285.139	295.635	302.792	305.297
7.5	298.588	296.858	291.013	282.336	278.519	287.524	298.796	306.341	308.995
8.0	301.838	300.168	294.025	284.513	280.308	289.880	301.778	309.800	312.543
8.5	305.178	303.597	296.918	286.809	281.948	292.266	304.910	313.259	316.092
9.0	308.935	306.788	299.870	289.105	283.857	294.622	308.130	316.599	319.641
9.5	312.454	310.098	302.882	291.341	285.795	297.037	310.903	319.849	323.189
10.0	315.824	313.557	305.744	293.667	287.465	299.274	313.885	323.458	326.678
10.5	319.163	317.195	308.756	296.083	289.254	301.689	316.987	326.768	330.197
11.0	322.980	320.326	311.649	298.379	291.043	304.075	319.849	330.078	333.686
11.5	326.559	323.666	314.482	300.884	292.862	306.460	322.861	333.268	336.936
12.0	329.869	327.096	317.494	303.180	294.681	308.846	325.784	336.698	340.306
12.5	332.582	330.167	320.625	305.416	296.441	311.321	328.646	339.680	343.616
13.0	334.491	333.179	323.398	307.742	298.140	313.617	331.539	342.960	346.568
13.5	335.684	335.564	326.469	310.009	299.989	316.032	334.342	345.972	349.043
14.0	336.071	337.085	329.213	312.096	301.778	318.269	337.085	348.715	350.683
14.5	336.996	338.338	332.105	314.452	303.359	320.565	339.799	350.952	351.578
15.0	337.682	339.143	334.819	316.718	305.327	322.831	342.662	352.562	351.965
15.5	338.368	339.769	337.413	319.014	307.116	324.978	345.256	353.188	351.846
16.0	338.606	340.574	339.620	321.281	308.637	327.275	347.850	353.576	351.667
16.5	338.904	340.664	341.618	323.398	310.277	329.481	350.504	353.516	351.250
17.0	338.934	340.872	343.347	325.545	312.215	331.539	352.860	353.218	350.624
17.5	339.322	341.320	344.719	327.781	313.766	333.596	354.888	352.890	350.385
18.0	339.113	341.260	345.584	329.839	315.406	335.803	356.707	352.323	349.580
18.5	339.322	341.230	346.329	331.926	317.136	337.801	357.840	351.787	348.775
19.0	339.262	341.379	346.658	334.014	318.806	339.918	358.466	351.190	347.999
19.5	338.815	340.932	346.896	336.131	320.476	341.856	358.705	350.534	347.105
20.0	338.248	340.813	346.986	338.010	322.056	343.974	358.586	349.640	346.389
20.5	337.771	340.544	346.956	340.097	323.815	345.882	358.257	348.864	345.345
21.0	336.668	339.799	346.836	341.976	325.426	347.880	357.780	347.970	344.361
21.5	336.071	339.053	346.598	343.944	327.096	349.848	357.154	346.866	343.377
22.0	335.475	338.487	346.210	345.733	328.766	351.637	356.498	345.852	342.095
22.5	334.491	337.503	345.823	347.433	330.465	353.546	355.842	344.600	340.574
23.0	333.537	336.340	345.405	348.924	332.046	355.216	354.918	343.288	339.322
23.5	332.165	334.968	344.570	349.968	333.447	356.975	353.874	342.035	337.622
24.0	330.853	333.537	343.825	350.862	335.117	358.615	352.860	340.336	335.892
24.5	329.720	332.374	342.960	351.637	336.578	360.226	351.727	338.457	334.342
25.0	328.348	330.793	341.767	352.264	338.069	361.627	350.445	336.877	332.582
25.5	326.827	329.302	340.634	352.741	339.560	362.701	349.222	334.968	330.585
26.0	325.157	327.603	339.232	352.860	340.843	363.655	347.612	332.910	328.676
26.5	323.577	325.843	337.771	353.218	342.214	364.251	346.151	330.942	326.410

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CANDELA TABULATION - (Cont.)

27.0	321.400	323.905	336.131	353.099	343.467	364.520	344.510	328.646	324.263
27.5	319.909	322.265	334.431	352.860	344.689	364.579	342.572	326.529	322.056
28.0	317.702	320.267	332.433	352.293	345.823	364.341	340.634	324.173	319.670
28.5	315.585	317.941	330.406	351.667	347.105	363.625	338.517	321.758	317.106
29.0	313.557	315.734	328.408	350.534	348.357	362.701	336.221	319.163	314.541
29.5	311.321	313.647	326.141	349.371	349.490	361.448	333.895	316.569	311.917
30.0	309.084	311.351	323.726	347.940	350.415	359.868	331.390	313.915	309.025
30.5	306.281	308.965	321.251	346.180	351.608	358.168	328.587	311.052	306.013
31.0	304.075	306.758	318.657	344.630	352.532	356.260	325.873	308.130	303.180
31.5	301.689	304.224	316.152	342.781	353.576	354.172	323.010	305.267	299.989
32.0	298.856	301.570	313.647	340.634	354.590	351.757	320.088	302.256	297.007
32.5	296.292	299.065	310.695	338.546	355.186	349.103	317.016	299.035	293.488
33.0	293.518	296.262	307.951	336.071	355.932	346.210	314.034	295.755	290.238
33.5	290.328	293.697	305.178	333.447	356.498	343.377	310.933	292.385	286.361
34.0	287.733	290.745	302.106	330.972	356.319	339.978	307.593	289.135	283.081
34.5	284.960	287.882	299.244	327.901	355.872	336.727	304.343	285.676	279.473
35.0	281.680	284.870	296.142	324.829	354.381	333.328	300.794	282.157	275.626
35.5	278.757	282.097	293.160	321.668	352.353	329.809	297.455	278.608	271.839
36.0	275.656	278.847	289.940	318.358	349.729	326.082	293.966	274.761	268.231
36.5	272.376	275.805	286.928	314.780	346.628	322.533	290.417	271.243	264.265
37.0	269.483	272.764	283.707	311.112	342.721	318.537	286.779	267.545	260.478
37.5	266.382	269.573	280.308	307.385	337.831	314.631	283.081	263.609	256.452
38.0	263.102	266.293	277.207	303.657	332.433	310.695	279.443	259.732	252.486
38.5	259.941	263.042	273.807	299.661	326.827	306.550	275.477	255.647	248.639
39.0	256.750	259.941	270.557	295.695	321.042	302.584	271.720	251.770	244.733
39.5	253.709	256.601	267.187	291.580	315.257	298.409	267.813	247.685	240.618
40.0	251.084	253.410	263.728	287.495	309.442	294.294	263.967	243.689	236.771
40.5	248.043	250.160	260.269	283.469	303.925	290.059	259.881	239.663	232.775
41.0	244.971	247.029	256.899	279.234	298.409	285.914	255.915	235.638	228.928
41.5	242.675	243.957	253.291	275.298	293.071	281.680	251.800	231.552	225.230
42.0	240.170	240.886	249.772	271.153	288.121	277.445	247.745	227.556	221.503
42.5	238.083	237.844	246.164	266.978	283.022	273.121	243.510	223.620	217.925
43.0	236.294	235.011	242.645	262.863	278.221	268.887	239.276	219.773	214.197
43.5	234.743	232.566	239.007	258.539	273.718	264.444	235.131	216.076	211.096
44.0	233.461	230.091	235.489	254.305	269.215	259.971	230.717	212.169	208.084
44.5	231.552	228.183	231.940	250.309	264.861	255.587	226.453	208.740	205.251
45.0	229.972	226.334	228.302	245.806	260.508	250.935	222.129	205.430	202.955
45.5	228.481	224.574	224.962	241.661	256.452	246.522	218.044	202.418	200.689
46.0	226.841	223.113	221.473	237.427	252.158	241.810	213.809	199.615	198.542
46.5	225.111	221.443	218.074	233.192	248.132	237.099	209.605	197.170	196.275
47.0	223.352	219.684	214.913	228.719	243.808	232.417	205.251	194.904	193.979
47.5	221.801	218.133	211.633	224.425	239.425	227.586	201.285	192.637	191.683
48.0	220.221	216.553	208.829	220.131	235.041	222.785	197.319	190.490	189.297
48.5	218.491	214.734	206.086	215.599	230.509	217.835	193.353	188.224	187.299
49.0	217.090	213.124	203.730	211.364	225.887	213.124	189.715	186.047	185.152
49.5	215.479	211.454	201.315	206.891	221.145	208.203	186.196	183.810	182.916
50.0	213.899	209.873	199.198	202.567	216.314	203.522	183.095	181.753	180.918
50.5	212.318	208.173	197.021	198.422	211.245	198.661	180.172	179.516	178.831
51.0	210.887	206.653	195.172	194.367	206.175	193.770	177.518	177.489	176.624
51.5	209.575	204.923	193.502	189.834	201.076	189.029	175.163	175.312	174.745
52.0	207.845	203.522	192.011	185.868	195.679	184.317	172.926	173.433	172.807
52.5	206.653	201.971	190.341	181.872	190.162	179.666	171.018	171.376	170.839
53.0	205.162	200.361	188.761	177.757	184.944	175.073	168.871	169.258	168.900
53.5	203.909	198.899	187.121	174.208	179.546	170.720	166.873	167.708	166.932
54.0	202.627	197.587	185.600	170.541	174.268	166.396	164.964	165.561	165.173
54.5	200.927	196.037	183.989	167.201	169.258	162.430	163.026	163.742	163.563

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CANDELA TABULATION - (Cont.)

55.0	199.585	194.844	182.439	164.189	164.159	158.404	161.117	161.833	161.654
55.5	198.691	193.502	180.858	161.684	159.358	154.647	159.209	160.104	160.074
56.0	197.468	192.130	179.397	159.120	154.527	151.486	157.301	158.344	158.285
56.5	196.245	190.759	177.757	157.062	150.024	148.474	155.452	156.644	156.555
57.0	195.202	189.655	176.296	154.855	145.820	146.178	153.722	154.885	154.945
57.5	193.949	188.164	174.835	152.768	141.645	144.359	151.933	153.185	153.334
58.0	192.965	186.971	173.284	151.247	137.768	142.868	150.024	151.575	151.694
58.5	191.594	185.868	171.972	150.084	134.369	141.287	148.325	149.905	149.965
59.0	190.669	184.616	170.600	148.683	131.476	139.826	146.655	148.205	148.444
59.5	189.506	183.423	169.169	147.460	129.091	138.395	144.866	146.744	147.072
60.0	188.254	182.319	167.857	146.178	127.302	136.904	143.315	145.134	145.343
60.5	187.150	181.186	166.575	144.866	125.811	135.323	141.645	143.464	144.001
61.0	186.166	180.023	165.233	143.494	124.588	133.773	139.945	142.003	142.271
61.5	185.361	179.009	163.712	142.271	123.485	132.311	138.454	140.452	140.989
62.0	184.168	177.817	162.579	140.750	122.441	130.880	136.814	138.961	139.349
62.5	183.065	176.684	161.296	139.528	121.218	129.329	135.353	137.500	137.798
63.0	182.111	175.580	159.954	138.186	120.055	127.838	133.862	135.830	136.516
63.5	180.858	174.477	158.762	136.874	118.863	126.347	132.341	134.548	134.936
64.0	179.874	173.523	157.658	135.621	117.640	125.005	130.761	133.116	133.594
64.5	179.159	172.449	156.346	134.220	116.387	123.485	129.389	131.745	132.132
65.0	178.145	171.376	155.362	132.967	115.195	122.113	127.928	130.254	130.761
65.5	177.012	170.332	154.020	131.775	113.942	120.532	126.318	129.031	129.359
66.0	176.027	169.407	152.947	130.463	112.720	119.191	124.976	127.600	128.017
66.5	175.163	168.274	151.754	129.091	111.527	117.819	123.485	126.198	126.765
67.0	174.238	167.409	150.591	128.077	110.095	116.328	121.964	124.797	125.363
67.5	173.135	166.366	149.398	126.824	108.992	114.867	120.741	123.485	123.992
68.0	172.181	165.292	148.355	125.393	107.829	113.704	119.399	122.113	122.769
68.5	171.346	164.308	147.281	124.290	106.517	112.153	117.998	120.920	121.606
69.0	170.481	163.443	146.118	123.067	105.235	110.960	116.775	119.578	120.055
69.5	169.527	162.430	145.074	121.755	104.042	109.678	115.403	118.296	118.863
70.0	168.692	161.565	143.911	120.682	102.760	108.217	114.181	117.044	117.729
70.5	167.588	160.551	142.748	119.519	101.507	106.935	112.869	115.851	116.179
71.0	166.634	159.597	141.913	118.177	100.285	105.652	111.557	114.479	115.135
71.5	165.889	158.851	140.870	117.133	99.092	104.370	110.274	113.316	113.912
72.0	165.024	157.867	139.766	115.910	97.929	102.998	109.082	112.034	112.720
72.5	164.219	156.943	138.842	114.658	96.706	101.805	107.829	110.901	111.467
73.0	163.235	156.048	137.828	113.674	95.513	100.523	106.666	109.618	110.304
73.5	162.310	155.213	136.784	112.451	94.321	99.241	105.384	108.515	109.082
74.0	161.684	154.229	135.830	111.258	93.188	98.018	104.251	107.322	107.978
74.5	160.998	153.305	134.757	110.274	91.905	96.766	103.058	106.159	106.756
75.0	160.014	152.559	133.832	109.231	90.862	95.663	101.955	105.086	105.533
75.5	159.030	151.635	132.997	108.038	89.728	94.529	100.762	103.803	104.430
76.0	158.225	150.800	132.073	107.024	88.506	93.247	99.569	102.700	103.237
76.5	157.271	149.965	131.029	106.010	87.343	92.203	98.436	101.567	102.193
77.0	156.316	149.070	130.284	104.937	86.329	91.070	97.243	100.523	101.120
77.5	155.839	148.355	129.300	103.833	85.136	89.818	96.170	99.330	100.136
78.0	154.945	147.460	128.256	102.879	84.152	88.804	95.096	98.227	98.943
78.5	153.931	146.565	127.510	101.686	82.989	87.701	94.022	97.154	97.899
79.0	153.394	145.730	126.616	100.821	81.916	86.508	92.889	96.110	96.617
79.5	152.350	144.925	125.602	99.927	80.842	85.404	91.816	94.977	95.633
80.0	151.873	144.090	124.856	98.764	79.828	84.331	90.742	93.933	94.589
80.5	151.008	143.375	123.902	97.869	78.874	83.287	89.609	92.979	93.665
81.0	150.144	142.599	123.037	96.915	77.830	82.214	88.715	91.875	92.442
81.5	149.577	141.675	122.262	95.961	76.965	81.319	87.701	90.891	91.458
82.0	148.593	140.900	121.338	95.126	75.981	80.246	86.567	89.997	90.534
82.5	147.937	140.273	120.413	94.261	74.967	79.142	85.613	88.983	89.549

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CANDELA TABULATION - (Cont.)

83.0	146.953	139.349	119.697	93.277	73.983	78.248	84.659	87.969	88.506
83.5	146.237	138.693	118.892	92.382	73.089	77.323	83.645	86.925	87.462
84.0	145.611	137.977	117.998	91.637	72.164	76.309	82.751	86.061	86.478
84.5	144.836	137.112	117.342	90.683	71.300	75.355	81.737	84.987	85.464
85.0	144.210	136.337	116.566	89.907	70.494	74.401	80.872	84.122	84.748
85.5	143.524	135.621	115.702	89.102	69.540	73.387	80.037	83.168	83.705
86.0	142.808	134.876	114.956	88.237	68.765	72.582	78.963	82.035	82.959
86.5	142.062	134.279	114.360	87.492	67.900	71.657	78.069	81.200	81.737
87.0	141.257	133.534	113.495	86.925	67.125	70.793	77.264	80.425	80.902
87.5	140.601	132.759	112.869	86.031	66.528	69.988	76.369	79.440	80.126
88.0	139.975	132.311	112.242	85.464	65.634	69.182	75.594	78.635	79.142
88.5	139.289	131.625	111.557	84.838	65.097	68.377	74.759	77.830	78.278
89.0	139.170	131.238	111.050	84.152	64.471	67.811	73.954	76.906	77.293
89.5	139.230	131.208	111.050	84.092	64.024	67.214	73.208	76.160	76.548
90.0	138.961	131.387	111.258	84.212	64.262	67.065	72.910	75.713	76.041
90.5	139.409	131.566	111.288	84.301	64.262	67.125	72.731	75.474	75.892
91.0	139.796	131.685	111.467	84.480	64.202	67.125	72.582	75.355	75.743
91.5	139.915	132.043	111.616	84.659	64.411	67.155	72.552	75.296	75.474
92.0	140.154	132.013	111.914	84.599	64.441	67.155	72.403	75.057	75.385
92.5	140.333	132.252	112.034	84.838	64.620	67.065	72.284	74.818	75.176
93.0	140.571	132.460	112.034	85.047	64.560	66.886	72.284	74.729	75.057
93.5	140.929	132.610	112.451	85.136	64.859	66.916	72.284	74.610	74.848
94.0	141.078	132.908	112.571	85.375	64.799	66.856	72.015	74.490	74.610
94.5	141.287	132.997	112.749	85.434	64.948	66.707	72.105	74.282	74.252
95.0	141.734	133.206	112.869	85.583	64.948	66.707	71.896	73.864	74.043
95.5	141.675	133.534	113.018	85.762	65.037	66.678	71.747	73.745	73.954
96.0	142.033	133.683	113.227	85.882	65.097	66.618	71.598	73.596	73.566
96.5	142.212	133.832	113.584	85.971	65.276	66.528	71.419	73.268	73.387
97.0	142.420	134.041	113.525	86.180	65.246	66.469	71.329	73.059	72.999
97.5	142.569	134.220	113.704	86.418	65.276	66.320	71.240	72.999	72.850
98.0	142.897	134.250	113.912	86.389	65.515	66.379	70.972	72.701	72.612
98.5	142.927	134.518	114.062	86.657	65.544	66.200	70.882	72.492	72.314
99.0	143.106	134.697	114.062	86.895	65.634	66.021	70.823	72.254	72.075
99.5	143.315	134.757	114.270	86.806	65.693	66.021	70.494	72.015	71.657
100.0	143.375	134.906	114.360	86.985	65.843	65.902	70.435	71.807	71.479
100.5	143.613	134.936	114.390	87.134	65.872	65.813	70.345	71.508	71.180
101.0	143.583	135.025	114.509	87.313	66.021	65.693	70.166	71.180	70.882
101.5	143.911	135.085	114.628	87.373	66.081	65.485	69.958	71.001	70.465
102.0	143.792	135.174	114.598	87.522	66.320	65.425	69.749	70.673	70.345
102.5	143.882	135.174	114.628	87.552	66.320	65.336	69.481	70.375	70.047
103.0	143.911	135.264	114.688	87.671	66.499	65.097	69.242	70.137	69.779
103.5	143.911	135.293	114.628	87.850	66.439	65.008	69.063	69.958	69.242
104.0	144.150	135.323	114.509	87.671	66.499	64.859	68.795	69.660	69.123
104.5	144.210	135.442	114.539	87.850	66.558	64.680	68.437	69.302	68.646
105.0	143.941	135.472	114.479	87.939	66.737	64.501	68.109	69.093	68.318
105.5	144.090	135.293	114.449	87.760	66.797	64.352	67.781	68.705	67.930
106.0	144.210	135.323	114.539	87.820	66.707	64.232	67.453	68.288	67.691
106.5	144.150	135.383	114.479	87.820	66.797	64.083	67.155	67.990	67.304
107.0	144.239	135.383	114.390	87.790	66.707	63.964	66.797	67.542	67.006
107.5	144.150	135.293	114.360	87.760	66.707	63.785	66.499	67.184	66.499
108.0	144.150	135.264	114.300	87.909	66.797	63.427	66.171	66.588	65.992
108.5	144.210	135.234	114.360	87.760	66.678	63.368	65.872	66.230	65.455
109.0	143.941	135.204	114.211	87.760	66.737	63.039	65.544	65.723	65.127
109.5	144.031	134.995	114.062	87.641	66.588	62.950	65.216	65.336	64.381
110.0	143.882	135.025	113.972	87.641	66.678	62.801	64.888	64.739	64.143
110.5	143.911	134.786	113.972	87.611	66.558	62.622	64.471	64.441	63.397

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CANDELA TABULATION - (Cont.)

111.0	143.732	134.816	113.853	87.701	66.588	62.443	64.202	63.934	62.861
111.5	143.643	134.727	113.853	87.581	66.439	62.294	63.725	63.517	62.592
112.0	143.285	134.667	113.733	87.552	66.409	61.996	63.427	62.980	61.936
112.5	143.375	134.548	113.495	87.462	66.469	61.906	63.159	62.562	61.340
113.0	143.315	134.369	113.495	87.373	66.439	61.638	62.831	62.115	60.803
113.5	143.136	134.220	113.346	87.253	66.350	61.519	62.354	61.489	60.386
114.0	142.897	134.130	113.137	87.253	66.320	61.370	62.055	61.161	59.908
114.5	142.957	133.951	113.048	87.104	66.290	61.071	61.757	60.475	59.312
115.0	142.599	133.743	112.779	86.985	66.141	60.892	61.131	59.819	58.626
115.5	142.480	133.773	112.660	86.895	66.171	60.654	60.982	59.223	58.089
116.0	142.182	133.355	112.421	86.687	65.932	60.624	60.475	58.417	57.463
116.5	142.212	133.236	112.272	86.657	66.021	60.266	59.968	57.791	56.837
117.0	141.824	133.027	112.034	86.508	65.872	60.147	59.759	57.225	55.763
117.5	141.496	132.729	111.944	86.359	65.723	59.938	59.431	56.419	55.197
118.0	141.317	132.520	111.586	86.120	65.604	59.670	58.954	55.823	54.243
118.5	141.049	132.401	111.408	86.001	65.425	59.461	58.537	55.167	53.557
119.0	140.691	132.013	111.199	85.941	65.336	59.282	58.298	54.481	52.722
119.5	140.393	131.834	110.990	85.792	65.336	59.103	57.761	53.706	51.827
120.0	140.124	131.655	110.811	85.554	65.127	58.895	57.523	52.901	51.022
120.5	139.915	131.178	110.573	85.255	64.978	58.596	57.075	52.185	50.247
121.0	139.617	130.969	110.215	85.255	64.739	58.388	56.598	51.529	49.442
121.5	139.080	130.761	109.917	85.106	64.739	58.089	56.390	50.873	48.607
122.0	138.842	130.313	109.708	84.748	64.650	57.851	55.972	50.127	47.742
122.5	138.424	130.015	109.499	84.540	64.411	57.761	55.584	49.501	47.026
123.0	138.096	129.747	109.111	84.450	64.262	57.404	55.256	48.815	46.221
123.5	137.649	129.180	108.783	84.063	64.143	57.225	54.928	48.219	45.237
124.0	137.589	128.763	108.575	83.943	64.083	57.046	54.392	47.503	44.581
124.5	136.844	128.465	108.247	83.735	63.845	56.747	54.123	46.907	43.865
125.0	136.337	127.987	107.948	83.496	63.636	56.688	53.855	46.251	43.120
125.5	135.830	127.600	107.501	83.168	63.487	56.419	53.527	45.684	42.553
126.0	135.234	127.063	107.173	82.989	63.427	56.300	53.318	45.177	41.927
126.5	134.995	126.556	106.785	82.691	63.278	56.151	52.931	44.581	41.301
127.0	134.101	126.168	106.457	82.542	63.189	56.002	52.483	44.104	40.674
127.5	133.504	125.572	106.010	82.273	63.069	55.763	52.245	43.686	40.197
128.0	133.087	125.035	105.622	81.945	62.861	55.704	51.976	43.030	39.661
128.5	132.431	124.439	105.205	81.766	62.861	55.644	51.589	42.494	39.154
129.0	131.775	124.111	104.847	81.438	62.592	55.376	51.290	41.897	38.647
129.5	131.327	123.455	104.340	81.230	62.473	55.197	51.082	41.390	38.319
130.0	130.463	123.037	103.923	80.812	62.354	54.869	50.545	40.913	37.842
130.5	129.956	122.441	103.446	80.603	62.354	54.779	50.336	40.466	37.215
131.0	129.359	121.845	102.998	80.425	62.055	54.600	50.038	40.048	36.947
131.5	128.852	121.338	102.611	80.037	61.936	54.481	49.680	39.482	36.679
132.0	127.987	120.741	102.044	79.947	61.847	54.362	49.382	39.064	36.172
132.5	127.212	119.966	101.627	79.500	61.668	54.183	49.173	38.617	35.724
133.0	126.675	119.399	101.149	79.142	61.399	54.004	48.815	38.229	35.635
133.5	125.870	118.803	100.643	78.904	61.370	53.855	48.547	37.931	35.188
134.0	125.214	118.087	100.165	78.546	61.101	53.795	48.219	37.514	35.039
134.5	124.588	117.431	99.658	78.158	61.071	53.616	48.010	37.066	34.651
135.0	123.842	116.805	99.032	77.800	60.833	53.378	47.712	36.798	34.353
135.5	123.127	116.000	98.645	77.502	60.654	53.408	47.414	36.470	34.054
136.0	122.322	115.582	98.048	77.144	60.445	53.080	47.056	35.933	33.667
136.5	121.576	114.896	97.541	76.906	60.296	52.931	46.728	35.695	33.279
137.0	120.741	114.091	97.004	76.458	60.147	52.752	46.609	35.337	32.862
137.5	119.906	113.405	96.468	76.130	59.849	52.602	46.161	34.919	32.713
138.0	119.012	112.690	95.901	75.832	59.789	52.334	46.012	34.740	32.623
138.5	118.326	111.914	95.424	75.445	59.610	52.334	45.893	34.442	32.235

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CANDELA TABULATION - (Cont.)

139.0	117.431	111.288	94.798	74.997	59.282	52.245	45.476	34.025	31.997
139.5	116.656	110.483	94.201	74.639	59.133	52.036	45.267	33.786	31.699
140.0	116.059	109.767	93.396	74.341	59.044	51.976	45.058	33.458	31.400
140.5	115.224	108.903	92.979	73.775	58.686	51.708	44.670	33.219	31.132
141.0	114.390	108.336	92.323	73.566	58.566	51.499	44.551	32.802	30.774
141.5	113.674	107.382	91.786	73.089	58.328	51.469	44.253	32.504	30.476
142.0	112.809	106.666	91.100	72.612	58.030	51.290	44.014	32.146	30.118
142.5	111.765	105.921	90.534	72.254	57.851	51.082	43.865	31.997	29.760
143.0	110.930	105.056	89.877	71.777	57.642	51.022	43.656	31.520	29.671
143.5	110.036	104.191	89.162	71.300	57.404	50.754	43.299	31.251	29.403
144.0	109.201	103.386	88.536	70.942	57.075	50.545	43.239	31.013	29.224
144.5	108.306	102.551	87.909	70.554	56.867	50.605	43.179	30.834	29.015
145.0	107.352	101.835	87.343	69.958	56.598	50.366	42.851	30.446	28.866
145.5	106.487	101.000	86.687	69.630	56.419	50.157	42.643	30.297	28.836
146.0	105.503	100.106	85.971	69.182	56.121	49.919	42.553	30.088	29.015
146.5	104.638	99.181	85.226	68.705	55.793	49.829	42.285	29.641	28.985
147.0	103.774	98.376	84.659	68.228	55.495	49.650	42.315	29.432	28.896
147.5	102.879	97.362	83.973	67.751	55.406	49.501	42.046	29.253	28.985
148.0	101.805	96.527	83.228	67.304	55.018	49.292	41.867	29.015	29.045
148.5	100.792	95.722	82.601	66.797	54.869	49.114	41.718	28.746	29.104
149.0	99.718	94.917	81.856	66.379	54.511	48.994	41.659	28.478	29.253
149.5	98.973	93.993	81.140	65.783	54.183	48.905	41.480	28.359	29.403
150.0	97.959	92.979	80.425	65.365	53.825	48.607	41.331	28.150	29.373
150.5	96.975	92.203	79.679	64.888	53.646	48.547	41.241	28.031	29.552
151.0	96.020	91.130	79.023	64.292	53.318	48.308	41.062	28.001	29.760
151.5	95.156	90.265	78.337	63.874	53.020	48.189	40.913	27.762	29.641
152.0	93.903	89.460	77.532	63.457	52.752	47.951	40.794	27.494	29.581
152.5	92.889	88.416	76.876	62.831	52.394	47.831	40.555	27.464	29.701
153.0	92.114	87.432	75.981	62.205	52.155	47.682	40.585	27.345	29.671
153.5	90.921	86.567	75.355	61.727	51.797	47.444	40.525	27.315	29.790
154.0	89.907	85.613	74.550	61.250	51.499	47.235	40.287	27.255	29.701
154.5	88.804	84.599	73.715	60.654	51.231	47.026	40.287	27.255	29.641
155.0	87.701	83.556	72.999	60.087	50.962	46.788	40.108	27.226	29.641
155.5	86.717	82.542	72.254	59.491	50.605	46.609	39.869	27.285	29.820
156.0	85.762	81.647	71.449	59.073	50.247	46.489	39.869	27.315	29.820
156.5	84.450	80.663	70.584	58.417	50.038	46.221	39.869	27.196	29.999
157.0	83.645	79.739	69.898	57.791	49.561	46.042	39.690	26.957	29.939
157.5	82.482	78.725	69.033	57.225	49.173	45.744	39.631	26.838	29.790
158.0	81.438	77.621	68.347	56.747	48.905	45.595	39.601	26.629	29.790
158.5	80.514	76.757	67.632	56.091	48.458	45.356	39.452	26.242	29.760
159.0	79.351	75.802	66.707	55.495	48.100	45.028	39.392	26.093	29.790
159.5	78.278	74.729	65.932	54.988	47.742	44.939	39.333	25.735	29.820
160.0	77.174	73.655	65.097	54.243	47.354	44.611	39.124	25.705	29.790
160.5	76.190	72.671	64.322	53.676	47.026	44.491	38.945	25.556	29.760
161.0	75.027	71.598	63.427	53.139	46.698	44.193	38.766	25.496	29.999
161.5	73.775	70.584	62.682	52.364	46.251	43.955	38.498	25.138	30.118
162.0	72.612	69.570	61.668	51.708	45.893	43.656	38.229	24.900	30.267
162.5	71.508	68.526	60.892	51.201	45.684	43.448	37.812	24.631	30.267
163.0	70.405	67.423	60.057	50.515	45.118	43.150	36.887	24.452	30.327
163.5	69.212	66.439	59.133	49.919	44.879	42.851	35.903	24.005	30.506
164.0	68.228	65.336	58.328	49.352	44.521	42.762	34.681	23.260	30.416
164.5	67.006	64.202	57.463	48.547	44.074	42.404	33.160	22.604	29.850
165.0	65.843	63.069	56.598	47.921	43.656	41.837	31.758	22.276	28.955
165.5	64.590	62.055	55.704	47.205	43.269	41.181	30.267	22.126	27.762
166.0	63.517	60.952	54.779	46.638	42.762	40.138	28.478	22.007	26.391
166.5	62.234	59.789	53.736	46.012	42.195	38.706	26.987	21.709	24.452

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CANDELA TABULATION - (Cont.)

167.0	60.922	58.686	52.901	45.416	41.301	37.186	25.794	21.560	22.156
167.5	59.759	57.582	52.036	44.670	40.018	35.367	24.602	20.934	20.158
168.0	58.417	56.270	50.843	44.104	38.229	33.398	23.856	20.516	17.773
168.5	57.195	55.107	49.949	43.388	36.649	31.550	23.379	20.009	15.566
169.0	55.942	54.034	49.114	42.315	34.502	29.581	22.842	19.025	12.942
169.5	54.630	52.901	48.010	41.003	32.593	27.673	22.633	17.952	10.139
170.0	53.259	51.678	46.907	39.243	30.446	26.212	22.216	16.401	7.544
170.5	51.946	50.127	45.744	37.424	28.627	25.258	21.620	14.493	5.457
171.0	50.605	48.696	44.044	35.516	27.106	24.303	21.142	12.823	3.340
171.5	49.382	47.473	42.583	33.518	26.063	23.767	20.307	11.391	2.207
172.0	47.951	46.102	41.152	31.609	25.138	23.379	18.876	9.692	1.968
172.5	46.728	44.223	39.154	30.208	24.333	22.693	17.206	8.022	1.938
173.0	44.581	42.523	37.245	28.896	23.647	21.918	15.506	6.411	1.849
173.5	42.016	40.585	35.098	27.345	22.782	20.337	13.270	5.427	1.580
174.0	40.645	38.080	32.623	26.093	22.067	18.041	10.974	5.010	1.372
174.5	38.408	35.665	30.387	24.661	20.725	15.745	8.767	4.503	1.163
175.0	35.724	33.070	28.240	22.872	18.787	13.121	7.008	4.115	0.895
175.5	32.235	30.059	25.705	21.053	16.401	10.258	5.994	3.399	0.656
176.0	28.746	26.719	23.200	18.876	13.866	7.783	5.308	2.833	0.865
176.5	24.989	22.961	20.248	15.805	10.914	5.994	4.533	1.998	0.686
177.0	20.606	19.144	16.938	12.674	8.260	5.040	3.817	1.312	0.567
177.5	16.073	14.850	13.807	9.870	6.083	4.443	3.221	0.865	0.567
178.0	11.242	10.407	10.526	6.710	4.473	3.698	2.535	0.716	0.954
178.5	7.157	6.650	6.948	4.264	3.608	3.042	1.908	0.775	0.656
179.0	4.205	3.996	3.728	2.654	2.803	2.415	1.491	0.716	0.746
179.5	1.491	2.266	1.431	1.431	1.938	1.938	0.924	0.746	1.044
180.0	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	121.56	N.A.	7.40
0-30	279.14	N.A.	16.90
0-40	469.70	N.A.	28.50
0-60	803.72	N.A.	48.70
0-80	1063.33	N.A.	64.40
0-90	1168.23	N.A.	70.80
10-90	1140.69	N.A.	69.10
20-40	348.15	N.A.	21.10
20-50	527.76	N.A.	32.00
40-70	471.66	N.A.	28.60
60-80	259.61	N.A.	15.70
70-80	121.97	N.A.	7.40
80-90	104.90	N.A.	6.40
90-110	191.79	N.A.	11.60
90-120	276.34	N.A.	16.70
90-130	347.01	N.A.	21.00
90-150	442.36	N.A.	26.80
90-180	482.71	N.A.	29.20
110-180	290.92	N.A.	17.60
0-180	1650.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	27.54
10-20	94.01
20-30	157.58
30-40	190.56
40-50	179.62
50-60	154.40
60-70	137.64
70-80	121.97
80-90	104.90
90-100	97.75
100-110	94.04
110-120	84.55
120-130	70.67
130-140	55.38
140-150	39.97
150-160	25.59
160-170	12.57
170-180	2.19

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAB WHTE 4 LIGHT.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	112	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	100	94	89	85	85	94	89	85	81	80	76	73	71	68	66	63	61	59	54
2	90	81	74	68	68	85	77	70	65	69	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

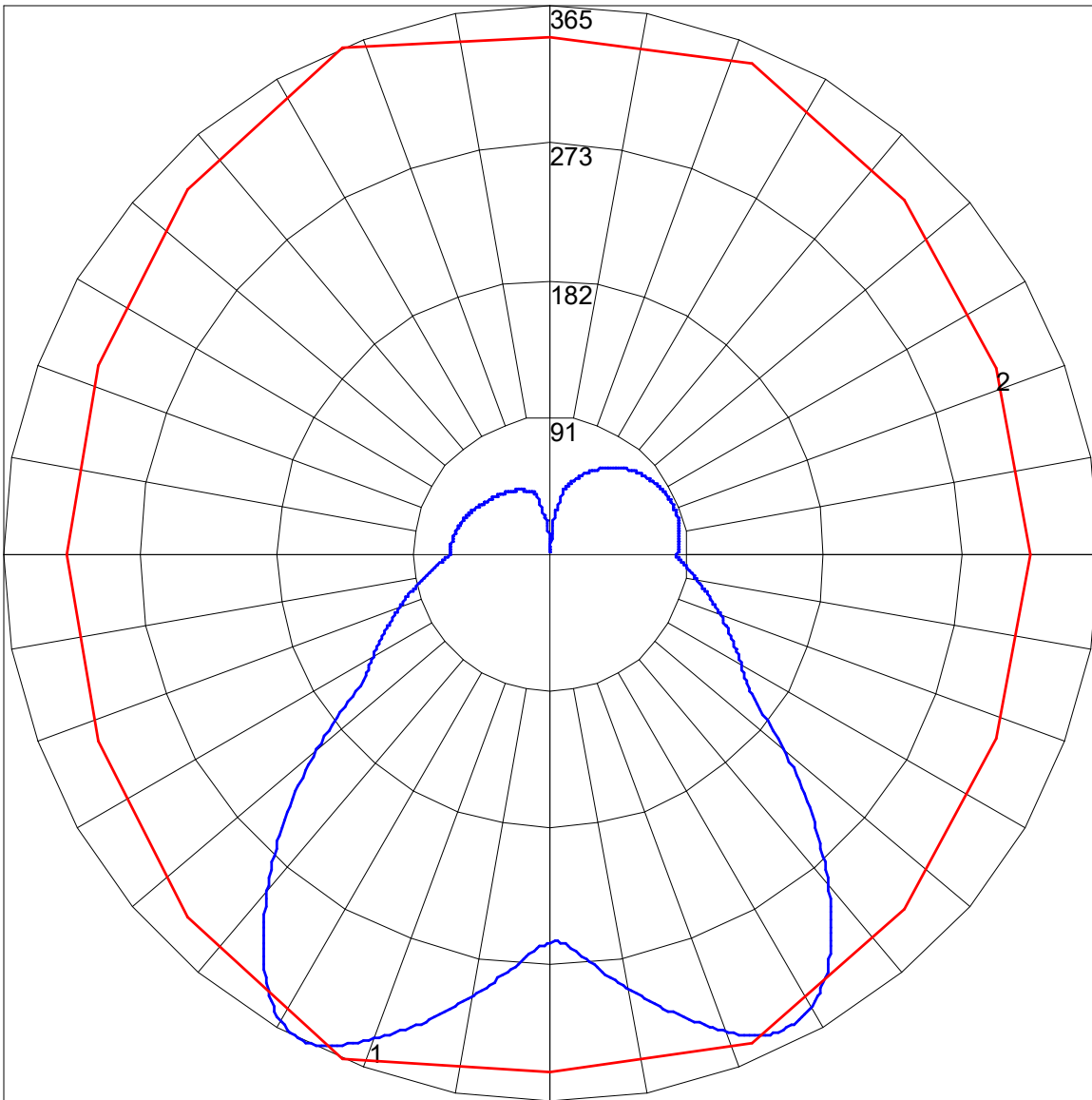
IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAB WHITE 4 LIGHT.IES

UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	13.7	14.9	14.5	15.7	16.6	10.2	11.3	10.9	12.1	13.0
	3H	16.6	17.6	17.3	18.4	19.4	12.0	13.0	12.7	13.8	14.8
	4H	18.0	19.0	18.8	19.8	20.8	12.8	13.8	13.6	14.6	15.5
	6H	19.6	20.5	20.4	21.3	22.3	13.5	14.4	14.3	15.2	16.2
	8H	20.4	21.2	21.1	22.1	23.1	13.8	14.7	14.6	15.5	16.5
	12H	21.2	22.0	22.0	22.8	23.9	14.1	15.0	14.9	15.8	16.8
4H	2H	14.1	15.1	14.8	15.8	16.8	11.1	12.1	11.9	12.9	13.9
	3H	17.1	17.9	17.9	18.8	19.8	13.2	14.0	14.0	14.9	15.9
	4H	18.7	19.5	19.5	20.3	21.3	14.1	14.9	14.9	15.7	16.7
	6H	20.4	21.1	21.2	22.0	23.0	15.0	15.7	15.8	16.5	17.5
	8H	21.3	21.9	22.1	22.8	23.8	15.4	16.0	16.2	16.9	17.9
	12H	22.2	22.8	23.1	23.7	24.7	15.7	16.3	16.6	17.2	18.3
8H	4H	18.9	19.5	19.7	20.4	21.4	14.8	15.5	15.6	16.3	17.4
	6H	20.7	21.3	21.6	22.2	23.2	15.9	16.5	16.8	17.4	18.4
	8H	21.8	22.3	22.6	23.1	24.2	16.4	16.9	17.3	17.8	18.9
	12H	22.9	23.3	23.7	24.2	25.3	16.9	17.4	17.8	18.3	19.4
12H	4H	18.9	19.5	19.7	20.3	21.4	15.0	15.6	15.9	16.5	17.5
	6H	20.8	21.3	21.6	22.2	23.2	16.2	16.7	17.1	17.6	18.7
	8H	21.8	22.3	22.7	23.2	24.3	16.8	17.3	17.7	18.1	19.2

Maximum UGR = 25.3

POLAR GRAPH



Maximum Candela = 364.579 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.)