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IES INDOOR REPORT PHOTOMETRIC FILENAME : FAB WHITE 3 LIGHTT.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	1239
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	55
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	2210	2464	5244
55	1864	1943	3722
65	1667	1684	3098
75	1547	1523	3119
85	1490	1443	3489

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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	194.169	194.169	194.169	194.169	194.169	194.169	194.169	194.169	194.169
0.5	192.289	192.848	193.587	193.677	194.303	195.086	195.691	195.735	195.758
1.0	192.781	193.430	193.744	193.878	194.549	195.803	196.765	197.145	197.436
1.5	194.326	194.706	194.706	194.370	195.198	196.832	198.242	199.137	199.495
2.0	196.049	196.205	196.094	195.131	195.959	197.951	199.965	201.353	201.800
2.5	198.153	198.287	197.705	196.273	196.922	199.294	201.912	203.792	204.307
3.0	200.659	200.234	199.495	197.615	197.906	200.681	204.106	206.209	206.903
3.5	203.188	202.584	201.487	198.981	199.048	202.114	206.142	208.738	209.835
4.0	205.806	205.180	203.345	200.502	200.189	203.792	208.403	211.312	212.386
4.5	208.447	207.530	205.493	201.935	201.420	205.471	210.596	213.998	215.251
5.0	210.931	210.215	207.574	203.479	202.584	207.127	212.655	216.459	217.959
5.5	213.438	212.565	209.656	205.202	203.859	208.783	214.915	219.190	220.644
6.0	216.325	215.161	211.782	206.858	205.135	210.573	217.287	221.898	223.778
6.5	218.921	217.668	214.065	208.470	206.321	212.274	219.503	224.516	226.262
7.0	221.517	220.085	216.213	210.193	207.686	213.998	221.875	227.247	229.126
7.5	224.091	222.793	218.406	211.894	209.029	215.788	224.248	229.910	231.902
8.0	226.530	225.277	220.667	213.528	210.372	217.556	226.486	232.506	234.565
8.5	229.037	227.851	222.838	215.251	211.603	219.346	228.835	235.102	237.228
9.0	231.857	230.245	225.053	216.974	213.035	221.114	231.253	237.608	239.891
9.5	234.498	232.730	227.314	218.653	214.490	222.927	233.334	240.048	242.554
10.0	237.027	235.326	229.462	220.398	215.743	224.606	235.572	242.756	245.173
10.5	239.533	238.056	231.723	222.211	217.086	226.418	237.899	245.240	247.814
11.0	242.398	240.406	233.893	223.934	218.429	228.209	240.048	247.724	250.432
11.5	245.083	242.913	236.019	225.814	219.794	229.999	242.308	250.119	252.872
12.0	247.568	245.486	238.280	227.537	221.159	231.790	244.501	252.693	255.401
12.5	249.604	247.791	240.630	229.216	222.480	233.647	246.650	254.931	257.885
13.0	251.036	250.052	242.711	230.962	223.755	235.370	248.821	257.392	260.100
13.5	251.932	251.842	245.016	232.662	225.143	237.183	250.925	259.653	261.958
14.0	252.223	252.984	247.075	234.229	226.486	238.862	252.984	261.712	263.189
14.5	252.916	253.923	249.246	235.997	227.672	240.585	255.020	263.390	263.860
15.0	253.431	254.528	251.283	237.698	229.149	242.286	257.169	264.599	264.151
15.5	253.946	254.998	253.230	239.421	230.492	243.897	259.116	265.069	264.062
16.0	254.125	255.602	254.886	241.122	231.633	245.620	261.063	265.360	263.927
16.5	254.349	255.669	256.385	242.711	232.864	247.277	263.055	265.315	263.614
17.0	254.371	255.826	257.683	244.322	234.319	248.821	264.823	265.091	263.144
17.5	254.662	256.161	258.713	246.001	235.482	250.365	266.344	264.845	262.965
18.0	254.505	256.117	259.362	247.545	236.713	252.021	267.710	264.420	262.361
18.5	254.662	256.094	259.921	249.112	238.011	253.521	268.560	264.017	261.756
19.0	254.617	256.206	260.167	250.678	239.265	255.110	269.030	263.569	261.175
19.5	254.282	255.871	260.347	252.267	240.518	256.564	269.209	263.077	260.503
20.0	253.856	255.781	260.414	253.677	241.704	258.153	269.119	262.405	259.966
20.5	253.498	255.580	260.391	255.244	243.024	259.586	268.873	261.824	259.183
21.0	252.670	255.020	260.302	256.654	244.233	261.085	268.515	261.152	258.444
21.5	252.223	254.461	260.123	258.131	245.486	262.562	268.045	260.324	257.706
22.0	251.775	254.035	259.832	259.474	246.739	263.905	267.553	259.563	256.743
22.5	251.036	253.297	259.541	260.749	248.015	265.337	267.061	258.623	255.602
23.0	250.320	252.424	259.228	261.868	249.201	266.591	266.367	257.639	254.662
23.5	249.291	251.395	258.601	262.652	250.253	267.911	265.583	256.699	253.386
24.0	248.306	250.320	258.041	263.323	251.506	269.142	264.823	255.423	252.088
24.5	247.456	249.447	257.392	263.905	252.603	270.350	263.972	254.013	250.925
25.0	246.426	248.261	256.497	264.375	253.722	271.402	263.010	252.827	249.604
25.5	245.285	247.142	255.647	264.733	254.841	272.208	262.092	251.395	248.105
26.0	244.032	245.867	254.595	264.823	255.803	272.924	260.884	249.850	246.672
26.5	242.845	244.546	253.498	265.091	256.833	273.372	259.787	248.373	244.971

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CANDELA TABULATION - (Cont.)

27.0	241.212	243.092	252.267	265.002	257.773	273.573	258.556	246.650	243.360
27.5	240.093	241.861	250.992	264.823	258.690	273.618	257.101	245.061	241.704
28.0	238.437	240.361	249.492	264.397	259.541	273.439	255.647	243.293	239.914
28.5	236.848	238.616	247.970	263.927	260.503	272.902	254.058	241.480	237.989
29.0	235.326	236.959	246.471	263.077	261.443	272.208	252.334	239.533	236.064
29.5	233.647	235.393	244.770	262.204	262.294	271.268	250.589	237.586	234.095
30.0	231.969	233.670	242.957	261.130	262.987	270.082	248.709	235.594	231.924
30.5	229.865	231.879	241.100	259.809	263.883	268.806	246.605	233.446	229.664
31.0	228.209	230.223	239.153	258.646	264.576	267.374	244.569	231.253	227.537
31.5	226.418	228.321	237.273	257.258	265.360	265.807	242.420	229.104	225.143
32.0	224.292	226.329	235.393	255.647	266.121	263.994	240.227	226.844	222.905
32.5	222.368	224.449	233.177	254.080	266.568	262.003	237.922	224.427	220.264
33.0	220.286	222.345	231.118	252.223	267.128	259.832	235.684	221.965	217.825
33.5	217.892	220.421	229.037	250.253	267.553	257.706	233.356	219.436	214.915
34.0	215.945	218.205	226.732	248.396	267.419	255.154	230.850	216.996	212.453
34.5	213.863	216.057	224.583	246.090	267.083	252.715	228.410	214.400	209.745
35.0	211.401	213.796	222.256	243.785	265.964	250.164	225.747	211.760	206.858
35.5	209.208	211.715	220.018	241.413	264.442	247.523	223.240	209.096	204.016
36.0	206.881	209.275	217.601	238.929	262.473	244.725	220.622	206.209	201.308
36.5	204.419	206.993	215.340	236.243	260.145	242.062	217.959	203.568	198.332
37.0	202.248	204.710	212.923	233.491	257.213	239.063	215.228	200.793	195.489
37.5	199.921	202.315	210.372	230.693	253.543	236.131	212.453	197.839	192.468
38.0	197.459	199.853	208.044	227.896	249.492	233.177	209.723	194.930	189.491
38.5	195.086	197.414	205.493	224.897	245.285	230.066	206.746	191.864	186.604
39.0	192.692	195.086	203.054	221.920	240.943	227.090	203.927	188.954	183.673
39.5	190.409	192.580	200.525	218.832	236.601	223.957	200.995	185.888	180.584
40.0	188.440	190.185	197.929	215.766	232.237	220.868	198.108	182.889	177.697
40.5	186.157	187.746	195.333	212.744	228.097	217.690	195.042	179.868	174.698
41.0	183.852	185.396	192.804	209.566	223.957	214.579	192.065	176.847	171.811
41.5	182.128	183.091	190.096	206.612	219.951	211.401	188.977	173.781	169.036
42.0	180.249	180.786	187.455	203.501	216.236	208.224	185.933	170.782	166.239
42.5	178.682	178.503	184.747	200.368	212.409	204.978	182.755	167.828	163.553
43.0	177.339	176.377	182.106	197.280	208.805	201.800	179.577	164.941	160.756
43.5	176.175	174.542	179.376	194.035	205.426	198.466	176.466	162.165	158.428
44.0	175.213	172.684	176.735	190.857	202.047	195.109	173.154	159.234	156.168
44.5	173.781	171.252	174.072	187.858	198.779	191.819	169.954	156.660	154.042
45.0	172.595	169.864	171.341	184.478	195.512	188.328	166.709	154.176	152.318
45.5	171.476	168.544	168.835	181.368	192.468	185.015	163.643	151.915	150.617
46.0	170.245	167.447	166.216	178.190	189.245	181.479	160.465	149.812	149.006
46.5	168.947	166.194	163.665	175.012	186.224	177.943	157.309	147.977	147.305
47.0	167.626	164.873	161.293	171.655	182.979	174.430	154.042	146.276	145.582
47.5	166.462	163.710	158.831	168.432	179.689	170.804	151.065	144.575	143.859
48.0	165.276	162.524	156.727	165.209	176.399	167.201	148.088	142.963	142.068
48.5	163.978	161.158	154.668	161.807	172.997	163.486	145.112	141.263	140.569
49.0	162.926	159.950	152.900	158.629	169.528	159.950	142.382	139.629	138.957
49.5	161.718	158.697	151.087	155.272	165.970	156.257	139.741	137.950	137.279
50.0	160.532	157.510	149.498	152.027	162.345	152.743	137.413	136.406	135.779
50.5	159.346	156.235	147.865	148.917	158.540	149.096	135.220	134.728	134.213
51.0	158.271	155.093	146.477	145.873	154.735	145.425	133.228	133.206	132.557
51.5	157.287	153.795	145.224	142.471	150.908	141.867	131.460	131.572	131.147
52.0	155.989	152.743	144.105	139.495	146.858	138.331	129.782	130.162	129.692
52.5	155.093	151.580	142.852	136.496	142.717	134.839	128.349	128.618	128.215
53.0	153.974	150.371	141.665	133.407	138.801	131.393	126.738	127.029	126.760
53.5	153.034	149.275	140.434	130.744	134.750	128.125	125.238	125.865	125.283
54.0	152.072	148.290	139.293	127.991	130.789	124.880	123.806	124.254	123.963
54.5	150.796	147.126	138.085	125.485	127.029	121.904	122.351	122.889	122.754

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CANDELA TABULATION - (Cont.)

55.0	149.789	146.231	136.921	123.224	123.202	118.883	120.919	121.456	121.322
55.5	149.118	145.224	135.735	121.344	119.599	116.063	119.487	120.158	120.136
56.0	148.200	144.194	134.638	119.420	115.973	113.690	118.054	118.838	118.793
56.5	147.283	143.165	133.407	117.875	112.594	111.430	116.667	117.562	117.495
57.0	146.499	142.337	132.311	116.219	109.438	109.707	115.369	116.242	116.286
57.5	145.560	141.218	131.214	114.653	106.305	108.342	114.026	114.966	115.078
58.0	144.821	140.323	130.050	113.511	103.396	107.223	112.594	113.758	113.847
58.5	143.791	139.495	129.065	112.639	100.844	106.036	111.318	112.504	112.549
59.0	143.098	138.555	128.036	111.587	98.673	104.940	110.065	111.229	111.408
59.5	142.225	137.659	126.962	110.669	96.883	103.866	108.722	110.132	110.378
60.0	141.285	136.831	125.977	109.707	95.540	102.747	107.558	108.923	109.080
60.5	140.457	135.981	125.015	108.722	94.421	101.560	106.305	107.670	108.073
61.0	139.718	135.108	124.008	107.693	93.504	100.397	105.029	106.574	106.775
61.5	139.114	134.347	122.866	106.775	92.676	99.300	103.910	105.410	105.813
62.0	138.219	133.452	122.016	105.634	91.892	98.226	102.679	104.291	104.582
62.5	137.391	132.601	121.053	104.716	90.975	97.062	101.583	103.194	103.418
63.0	136.675	131.773	120.046	103.709	90.102	95.943	100.464	101.941	102.456
63.5	135.735	130.945	119.151	102.724	89.207	94.824	99.322	100.979	101.269
64.0	134.996	130.229	118.323	101.784	88.289	93.817	98.136	99.904	100.262
64.5	134.459	129.424	117.338	100.732	87.349	92.676	97.107	98.875	99.166
65.0	133.698	128.618	116.600	99.792	86.454	91.646	96.010	97.756	98.136
65.5	132.848	127.835	115.593	98.897	85.514	90.460	94.802	96.838	97.084
66.0	132.109	127.141	114.787	97.912	84.596	89.453	93.795	95.764	96.077
66.5	131.460	126.290	113.892	96.883	83.701	88.423	92.676	94.712	95.137
67.0	130.766	125.641	113.019	96.122	82.627	87.304	91.534	93.660	94.086
67.5	129.938	124.858	112.124	95.182	81.799	86.208	90.617	92.676	93.056
68.0	129.222	124.052	111.340	94.108	80.926	85.335	89.610	91.646	92.138
68.5	128.595	123.314	110.535	93.280	79.941	84.171	88.558	90.751	91.266
69.0	127.946	122.665	109.662	92.362	78.979	83.276	87.640	89.744	90.102
69.5	127.230	121.904	108.879	91.378	78.084	82.314	86.611	88.781	89.207
70.0	126.604	121.255	108.006	90.572	77.121	81.217	85.693	87.841	88.356
70.5	125.776	120.494	107.133	89.699	76.182	80.255	84.708	86.946	87.192
71.0	125.059	119.778	106.506	88.692	75.264	79.292	83.724	85.917	86.409
71.5	124.500	119.218	105.723	87.909	74.369	78.330	82.761	85.044	85.492
72.0	123.851	118.480	104.895	86.991	73.496	77.301	81.866	84.082	84.596
72.5	123.247	117.786	104.201	86.051	72.578	76.405	80.926	83.231	83.656
73.0	122.508	117.115	103.440	85.313	71.683	75.443	80.053	82.269	82.784
73.5	121.814	116.488	102.657	84.395	70.788	74.481	79.091	81.441	81.866
74.0	121.344	115.749	101.941	83.500	69.937	73.563	78.240	80.546	81.038
74.5	120.830	115.056	101.135	82.761	68.975	72.623	77.345	79.673	80.120
75.0	120.091	114.496	100.441	81.978	68.192	71.795	76.517	78.867	79.203
75.5	119.353	113.802	99.815	81.083	67.341	70.945	75.622	77.905	78.375
76.0	118.748	113.176	99.121	80.322	66.424	69.982	74.727	77.077	77.480
76.5	118.032	112.549	98.338	79.561	65.551	69.199	73.876	76.226	76.696
77.0	117.316	111.878	97.778	78.755	64.790	68.349	72.981	75.443	75.891
77.5	116.958	111.340	97.040	77.927	63.895	67.409	72.175	74.548	75.152
78.0	116.286	110.669	96.256	77.211	63.156	66.648	71.370	73.720	74.257
78.5	115.526	109.998	95.697	76.316	62.284	65.820	70.564	72.914	73.474
79.0	115.123	109.371	95.025	75.667	61.478	64.924	69.714	72.131	72.511
79.5	114.339	108.767	94.265	74.995	60.672	64.096	68.908	71.280	71.773
80.0	113.981	108.140	93.705	74.123	59.911	63.291	68.102	70.497	70.989
80.5	113.332	107.603	92.989	73.451	59.195	62.507	67.252	69.781	70.296
81.0	112.683	107.021	92.340	72.735	58.412	61.702	66.580	68.953	69.378
81.5	112.258	106.327	91.758	72.019	57.763	61.030	65.820	68.214	68.639
82.0	111.520	105.745	91.064	71.392	57.024	60.225	64.969	67.543	67.946
82.5	111.027	105.276	90.370	70.743	56.263	59.397	64.253	66.782	67.207

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CANDELA TABULATION - (Cont.)

83.0	110.289	104.582	89.833	70.005	55.525	58.725	63.537	66.021	66.424
83.5	109.752	104.089	89.229	69.333	54.853	58.031	62.776	65.238	65.641
84.0	109.282	103.552	88.558	68.774	54.160	57.270	62.104	64.589	64.902
84.5	108.700	102.903	88.065	68.058	53.511	56.554	61.344	63.783	64.141
85.0	108.230	102.321	87.483	67.476	52.906	55.838	60.695	63.134	63.604
85.5	107.715	101.784	86.834	66.871	52.190	55.077	60.068	62.418	62.821
86.0	107.178	101.225	86.275	66.222	51.608	54.473	59.262	61.567	62.261
86.5	106.618	100.777	85.827	65.663	50.959	53.779	58.591	60.941	61.344
87.0	106.014	100.218	85.178	65.238	50.377	53.130	57.987	60.359	60.717
87.5	105.522	99.636	84.708	64.566	49.930	52.526	57.315	59.620	60.135
88.0	105.052	99.300	84.238	64.141	49.258	51.922	56.733	59.016	59.397
88.5	104.537	98.785	83.724	63.671	48.856	51.317	56.107	58.412	58.747
89.0	104.447	98.494	83.343	63.156	48.386	50.892	55.502	57.718	58.009
89.5	104.492	98.472	83.343	63.112	48.050	50.445	54.943	57.159	57.449
90.0	104.291	98.606	83.500	63.201	48.229	50.333	54.719	56.823	57.069
90.5	104.626	98.741	83.522	63.268	48.229	50.377	54.585	56.644	56.957
91.0	104.917	98.830	83.656	63.403	48.184	50.377	54.473	56.554	56.845
91.5	105.007	99.099	83.768	63.537	48.341	50.400	54.451	56.509	56.644
92.0	105.186	99.076	83.992	63.492	48.363	50.400	54.339	56.330	56.577
92.5	105.320	99.255	84.082	63.671	48.497	50.333	54.249	56.151	56.420
93.0	105.499	99.412	84.082	63.828	48.453	50.198	54.249	56.084	56.330
93.5	105.768	99.524	84.395	63.895	48.676	50.221	54.249	55.995	56.174
94.0	105.880	99.748	84.484	64.074	48.632	50.176	54.048	55.905	55.995
94.5	106.036	99.815	84.619	64.119	48.744	50.064	54.115	55.749	55.726
95.0	106.372	99.971	84.708	64.231	48.744	50.064	53.958	55.435	55.570
95.5	106.327	100.218	84.820	64.365	48.811	50.042	53.846	55.346	55.502
96.0	106.596	100.330	84.977	64.454	48.856	49.997	53.734	55.234	55.211
96.5	106.730	100.441	85.245	64.522	48.990	49.930	53.600	54.988	55.077
97.0	106.887	100.598	85.201	64.678	48.967	49.885	53.533	54.831	54.786
97.5	106.999	100.732	85.335	64.857	48.990	49.773	53.466	54.786	54.674
98.0	107.245	100.755	85.492	64.835	49.169	49.818	53.264	54.562	54.495
98.5	107.267	100.956	85.603	65.036	49.191	49.684	53.197	54.406	54.271
99.0	107.402	101.090	85.603	65.215	49.258	49.549	53.152	54.227	54.092
99.5	107.558	101.135	85.760	65.148	49.303	49.549	52.906	54.048	53.779
100.0	107.603	101.247	85.827	65.282	49.415	49.460	52.862	53.891	53.645
100.5	107.782	101.269	85.850	65.394	49.437	49.393	52.794	53.667	53.421
101.0	107.760	101.337	85.939	65.529	49.549	49.303	52.660	53.421	53.197
101.5	108.006	101.381	86.029	65.573	49.594	49.146	52.503	53.287	52.884
102.0	107.916	101.449	86.006	65.685	49.773	49.102	52.347	53.041	52.794
102.5	107.983	101.449	86.029	65.708	49.773	49.035	52.145	52.817	52.571
103.0	108.006	101.516	86.073	65.797	49.907	48.856	51.966	52.638	52.369
103.5	108.006	101.538	86.029	65.931	49.863	48.788	51.832	52.503	51.966
104.0	108.185	101.560	85.939	65.797	49.907	48.676	51.631	52.280	51.877
104.5	108.230	101.650	85.962	65.931	49.952	48.542	51.362	52.011	51.519
105.0	108.028	101.672	85.917	65.999	50.086	48.408	51.116	51.854	51.273
105.5	108.140	101.538	85.894	65.864	50.131	48.296	50.870	51.564	50.982
106.0	108.230	101.560	85.962	65.909	50.064	48.207	50.624	51.250	50.803
106.5	108.185	101.605	85.917	65.909	50.131	48.095	50.400	51.026	50.512
107.0	108.252	101.605	85.850	65.887	50.064	48.005	50.131	50.691	50.288
107.5	108.185	101.538	85.827	65.864	50.064	47.871	49.907	50.422	49.907
108.0	108.185	101.516	85.783	65.976	50.131	47.602	49.661	49.975	49.527
108.5	108.230	101.493	85.827	65.864	50.042	47.557	49.437	49.706	49.124
109.0	108.028	101.471	85.715	65.864	50.086	47.311	49.191	49.326	48.878
109.5	108.095	101.314	85.603	65.775	49.975	47.244	48.945	49.035	48.318
110.0	107.983	101.337	85.536	65.775	50.042	47.132	48.699	48.587	48.139
110.5	108.006	101.158	85.536	65.752	49.952	46.998	48.386	48.363	47.580

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CANDELA TABULATION - (Cont.)

111.0	107.872	101.180	85.447	65.820	49.975	46.864	48.184	47.983	47.177
111.5	107.804	101.113	85.447	65.730	49.863	46.752	47.826	47.669	46.976
112.0	107.536	101.068	85.357	65.708	49.840	46.528	47.602	47.267	46.483
112.5	107.603	100.979	85.178	65.641	49.885	46.461	47.401	46.953	46.036
113.0	107.558	100.844	85.178	65.573	49.863	46.259	47.155	46.618	45.633
113.5	107.424	100.732	85.066	65.484	49.795	46.170	46.797	46.148	45.319
114.0	107.245	100.665	84.910	65.484	49.773	46.058	46.573	45.901	44.961
114.5	107.290	100.531	84.843	65.372	49.751	45.834	46.349	45.387	44.514
115.0	107.021	100.374	84.641	65.282	49.639	45.700	45.879	44.894	43.999
115.5	106.932	100.397	84.552	65.215	49.661	45.521	45.767	44.447	43.596
116.0	106.708	100.083	84.373	65.059	49.482	45.499	45.387	43.842	43.126
116.5	106.730	99.994	84.261	65.036	49.549	45.230	45.006	43.372	42.656
117.0	106.439	99.837	84.082	64.924	49.437	45.140	44.850	42.947	41.851
117.5	106.193	99.613	84.015	64.812	49.326	44.984	44.603	42.343	41.425
118.0	106.059	99.457	83.746	64.633	49.236	44.782	44.245	41.895	40.709
118.5	105.857	99.367	83.612	64.544	49.102	44.626	43.932	41.403	40.194
119.0	105.589	99.076	83.455	64.499	49.035	44.491	43.753	40.888	39.568
119.5	105.365	98.942	83.298	64.387	49.035	44.357	43.350	40.306	38.896
120.0	105.164	98.808	83.164	64.208	48.878	44.200	43.171	39.702	38.292
120.5	105.007	98.450	82.985	63.984	48.766	43.977	42.835	39.165	37.710
121.0	104.783	98.293	82.716	63.984	48.587	43.820	42.477	38.673	37.106
121.5	104.380	98.136	82.493	63.873	48.587	43.596	42.321	38.180	36.479
122.0	104.201	97.801	82.336	63.604	48.520	43.417	42.007	37.621	35.830
122.5	103.888	97.577	82.179	63.447	48.341	43.350	41.716	37.151	35.293
123.0	103.642	97.375	81.888	63.380	48.229	43.081	41.470	36.636	34.689
123.5	103.306	96.950	81.642	63.089	48.139	42.947	41.224	36.188	33.950
124.0	103.261	96.637	81.486	63.000	48.095	42.813	40.821	35.651	33.458
124.5	102.702	96.413	81.239	62.843	47.916	42.589	40.620	35.204	32.921
125.0	102.321	96.055	81.016	62.664	47.759	42.544	40.418	34.711	32.361
125.5	101.941	95.764	80.680	62.418	47.647	42.343	40.172	34.286	31.936
126.0	101.493	95.361	80.434	62.284	47.602	42.253	40.015	33.906	31.466
126.5	101.314	94.981	80.143	62.060	47.490	42.142	39.724	33.458	30.996
127.0	100.643	94.690	79.897	61.948	47.423	42.030	39.389	33.100	30.526
127.5	100.195	94.242	79.561	61.746	47.334	41.851	39.210	32.787	30.168
128.0	99.882	93.839	79.270	61.500	47.177	41.806	39.008	32.294	29.765
128.5	99.390	93.392	78.957	61.366	47.177	41.761	38.717	31.891	29.385
129.0	98.897	93.146	78.688	61.120	46.976	41.560	38.494	31.444	29.004
129.5	98.562	92.653	78.308	60.963	46.886	41.425	38.337	31.063	28.758
130.0	97.912	92.340	77.994	60.650	46.797	41.179	37.934	30.705	28.400
130.5	97.532	91.892	77.636	60.493	46.797	41.112	37.777	30.370	27.930
131.0	97.084	91.445	77.301	60.359	46.573	40.978	37.554	30.056	27.729
131.5	96.704	91.064	77.010	60.068	46.483	40.888	37.285	29.631	27.527
132.0	96.055	90.617	76.584	60.001	46.416	40.799	37.061	29.318	27.147
132.5	95.473	90.035	76.271	59.665	46.282	40.664	36.905	28.982	26.811
133.0	95.070	89.610	75.913	59.397	46.080	40.530	36.636	28.691	26.744
133.5	94.466	89.162	75.532	59.217	46.058	40.418	36.435	28.467	26.408
134.0	93.974	88.625	75.174	58.949	45.857	40.374	36.188	28.154	26.296
134.5	93.504	88.132	74.794	58.658	45.834	40.239	36.032	27.818	26.006
135.0	92.944	87.662	74.324	58.389	45.655	40.060	35.808	27.617	25.782
135.5	92.407	87.058	74.033	58.166	45.521	40.083	35.584	27.371	25.558
136.0	91.803	86.745	73.585	57.897	45.364	39.836	35.316	26.968	25.267
136.5	91.243	86.230	73.205	57.718	45.252	39.724	35.069	26.789	24.976
137.0	90.617	85.626	72.802	57.382	45.140	39.590	34.980	26.520	24.663
137.5	89.990	85.111	72.399	57.136	44.917	39.478	34.644	26.207	24.551
138.0	89.319	84.574	71.974	56.912	44.872	39.277	34.532	26.073	24.484
138.5	88.804	83.992	71.616	56.621	44.738	39.277	34.443	25.849	24.193

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CANDELA TABULATION - (Cont.)

139.0	88.132	83.522	71.146	56.286	44.491	39.210	34.129	25.536	24.014
139.5	87.551	82.918	70.698	56.017	44.380	39.053	33.973	25.357	23.790
140.0	87.103	82.381	70.094	55.793	44.312	39.008	33.816	25.110	23.566
140.5	86.476	81.732	69.781	55.368	44.044	38.807	33.525	24.931	23.365
141.0	85.850	81.307	69.288	55.211	43.954	38.650	33.436	24.618	23.096
141.5	85.313	80.590	68.886	54.853	43.775	38.628	33.212	24.394	22.872
142.0	84.664	80.053	68.371	54.495	43.551	38.494	33.033	24.126	22.604
142.5	83.880	79.494	67.946	54.227	43.417	38.337	32.921	24.014	22.335
143.0	83.254	78.845	67.453	53.869	43.261	38.292	32.764	23.656	22.268
143.5	82.582	78.196	66.916	53.511	43.081	38.091	32.496	23.454	22.067
144.0	81.956	77.591	66.446	53.242	42.835	37.934	32.451	23.275	21.932
144.5	81.284	76.965	65.976	52.951	42.679	37.979	32.406	23.141	21.776
145.0	80.568	76.428	65.551	52.503	42.477	37.800	32.160	22.850	21.664
145.5	79.919	75.801	65.059	52.257	42.343	37.643	32.003	22.738	21.641
146.0	79.180	75.130	64.522	51.922	42.119	37.464	31.936	22.581	21.776
146.5	78.531	74.436	63.962	51.564	41.873	37.397	31.735	22.246	21.753
147.0	77.882	73.832	63.537	51.205	41.649	37.263	31.757	22.089	21.686
147.5	77.211	73.071	63.022	50.847	41.582	37.151	31.556	21.955	21.753
148.0	76.405	72.444	62.463	50.512	41.291	36.994	31.422	21.776	21.798
148.5	75.644	71.840	61.993	50.131	41.179	36.860	31.310	21.574	21.843
149.0	74.839	71.236	61.433	49.818	40.911	36.770	31.265	21.373	21.955
149.5	74.279	70.542	60.896	49.370	40.664	36.703	31.131	21.283	22.067
150.0	73.518	69.781	60.359	49.057	40.396	36.479	31.019	21.127	22.044
150.5	72.780	69.199	59.799	48.699	40.262	36.435	30.952	21.037	22.179
151.0	72.064	68.393	59.307	48.251	40.015	36.256	30.817	21.015	22.335
151.5	71.415	67.744	58.792	47.938	39.792	36.166	30.705	20.836	22.246
152.0	70.475	67.140	58.188	47.625	39.590	35.987	30.616	20.634	22.201
152.5	69.714	66.357	57.696	47.155	39.322	35.898	30.437	20.612	22.290
153.0	69.132	65.618	57.024	46.685	39.143	35.786	30.459	20.522	22.268
153.5	68.237	64.969	56.554	46.327	38.874	35.607	30.414	20.500	22.358
154.0	67.476	64.253	55.950	45.969	38.650	35.450	30.235	20.455	22.290
154.5	66.648	63.492	55.323	45.521	38.449	35.293	30.235	20.455	22.246
155.0	65.820	62.709	54.786	45.096	38.247	35.114	30.101	20.433	22.246
155.5	65.081	61.948	54.227	44.648	37.979	34.980	29.922	20.478	22.380
156.0	64.365	61.276	53.622	44.335	37.710	34.890	29.922	20.500	22.380
156.5	63.380	60.538	52.973	43.842	37.554	34.689	29.922	20.411	22.514
157.0	62.776	59.844	52.459	43.372	37.196	34.555	29.788	20.232	22.470
157.5	61.903	59.083	51.810	42.947	36.905	34.331	29.743	20.142	22.358
158.0	61.120	58.255	51.295	42.589	36.703	34.219	29.721	19.985	22.358
158.5	60.426	57.606	50.758	42.097	36.367	34.040	29.609	19.694	22.335
159.0	59.553	56.890	50.064	41.649	36.099	33.794	29.564	19.582	22.358
159.5	58.747	56.084	49.482	41.269	35.830	33.727	29.519	19.314	22.380
160.0	57.919	55.279	48.856	40.709	35.539	33.480	29.363	19.292	22.358
160.5	57.181	54.540	48.274	40.284	35.293	33.391	29.228	19.180	22.335
161.0	56.308	53.734	47.602	39.881	35.047	33.167	29.094	19.135	22.514
161.5	55.368	52.973	47.043	39.299	34.711	32.988	28.893	18.866	22.604
162.0	54.495	52.213	46.282	38.807	34.443	32.764	28.691	18.687	22.716
162.5	53.667	51.429	45.700	38.426	34.286	32.608	28.378	18.486	22.716
163.0	52.839	50.601	45.073	37.912	33.861	32.384	27.684	18.352	22.760
163.5	51.944	49.863	44.380	37.464	33.682	32.160	26.946	18.016	22.895
164.0	51.205	49.035	43.775	37.039	33.413	32.093	26.028	17.456	22.828
164.5	50.288	48.184	43.126	36.435	33.078	31.824	24.887	16.964	22.402
165.0	49.415	47.334	42.477	35.965	32.764	31.399	23.835	16.718	21.731
165.5	48.475	46.573	41.806	35.428	32.473	30.907	22.716	16.606	20.836
166.0	47.669	45.745	41.112	35.002	32.093	30.123	21.373	16.516	19.806
166.5	46.707	44.872	40.329	34.532	31.668	29.049	20.254	16.293	18.352

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CANDELA TABULATION - (Cont.)

167.0	45.722	44.044	39.702	34.085	30.996	27.908	19.359	16.181	16.628
167.5	44.850	43.216	39.053	33.525	30.034	26.543	18.463	15.711	15.129
168.0	43.842	42.231	38.158	33.100	28.691	25.066	17.904	15.397	13.338
168.5	42.925	41.358	37.486	32.563	27.505	23.678	17.546	15.017	11.682
169.0	41.985	40.553	36.860	31.757	25.894	22.201	17.143	14.278	9.713
169.5	41.000	39.702	36.032	30.772	24.461	20.769	16.986	13.473	7.609
170.0	39.971	38.785	35.204	29.452	22.850	19.672	16.673	12.309	5.662
170.5	38.986	37.621	34.331	28.087	21.485	18.956	16.225	10.877	4.096
171.0	37.979	36.547	33.055	26.655	20.343	18.240	15.867	9.623	2.507
171.5	37.061	35.629	31.959	25.155	19.560	17.837	15.241	8.549	1.656
172.0	35.987	34.599	30.884	23.723	18.866	17.546	14.167	7.273	1.477
172.5	35.069	33.190	29.385	22.671	18.262	17.031	12.913	6.020	1.455
173.0	33.458	31.914	27.953	21.686	17.747	16.449	11.638	4.812	1.388
173.5	31.533	30.459	26.341	20.522	17.098	15.263	9.959	4.073	1.186
174.0	30.504	28.579	24.484	19.582	16.561	13.540	8.236	3.760	1.029
174.5	28.825	26.766	22.805	18.508	15.554	11.817	6.580	3.379	0.873
175.0	26.811	24.819	21.194	17.165	14.099	9.847	5.259	3.088	0.671
175.5	24.193	22.559	19.292	15.800	12.309	7.699	4.498	2.551	0.492
176.0	21.574	20.052	17.412	14.167	10.407	5.841	3.984	2.126	0.649
176.5	18.754	17.233	15.196	11.861	8.191	4.498	3.402	1.499	0.515
177.0	15.465	14.368	12.712	9.511	6.199	3.782	2.865	0.985	0.425
177.5	12.063	11.145	10.362	7.408	4.566	3.335	2.417	0.649	0.425
178.0	8.437	7.811	7.900	5.035	3.357	2.775	1.902	0.537	0.716
178.5	5.371	4.991	5.215	3.200	2.708	2.283	1.432	0.582	0.492
179.0	3.156	2.999	2.797	1.992	2.104	1.813	1.119	0.537	0.559
179.5	1.119	1.701	1.074	1.074	1.455	1.455	0.694	0.559	0.783
180.0	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	91.23	N.A.	7.40
0-30	209.49	N.A.	16.90
0-40	352.51	N.A.	28.50
0-60	603.19	N.A.	48.70
0-80	798.03	N.A.	64.40
0-90	876.76	N.A.	70.80
10-90	856.09	N.A.	69.10
20-40	261.28	N.A.	21.10
20-50	396.09	N.A.	32.00
40-70	353.98	N.A.	28.60
60-80	194.84	N.A.	15.70
70-80	91.54	N.A.	7.40
80-90	78.73	N.A.	6.40
90-110	143.94	N.A.	11.60
90-120	207.39	N.A.	16.70
90-130	260.43	N.A.	21.00
90-150	332.00	N.A.	26.80
90-180	362.28	N.A.	29.20
110-180	218.34	N.A.	17.60
0-180	1239.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	20.67
10-20	70.56
20-30	118.27
30-40	143.02
40-50	134.80
50-60	115.88
60-70	103.30
70-80	91.54
80-90	78.73
90-100	73.36
100-110	70.58
110-120	63.45
120-130	53.04
130-140	41.57
140-150	30.00
150-160	19.21
160-170	9.44
170-180	1.64

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAB WHTE 3 LIGHTT.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	106	106	106	106	95	95	95	85	85	85	75	75	75	71	0
1	100	94	89	85	94	89	85	81	80	76	73	71	68	66	63	61	59	54	0
2	90	81	74	68	85	77	70	65	69	64	59	61	57	53	54	51	48	44	0
3	82	71	63	56	77	67	60	54	60	54	49	54	49	44	47	44	40	37	0
4	75	63	54	47	70	59	51	45	53	47	41	48	42	38	42	38	34	31	0
5	69	56	47	40	65	53	45	39	48	41	36	43	37	33	38	33	30	27	0
6	63	50	41	35	60	48	40	34	43	36	31	38	33	28	34	30	26	23	0
7	59	45	37	31	55	43	35	29	39	32	27	35	29	25	31	27	23	21	0
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21	18	0
9	51	38	30	24	48	36	28	23	33	26	22	29	24	20	27	22	19	16	0
10	47	35	27	22	45	33	26	21	30	24	20	27	22	18	25	20	17	15	0

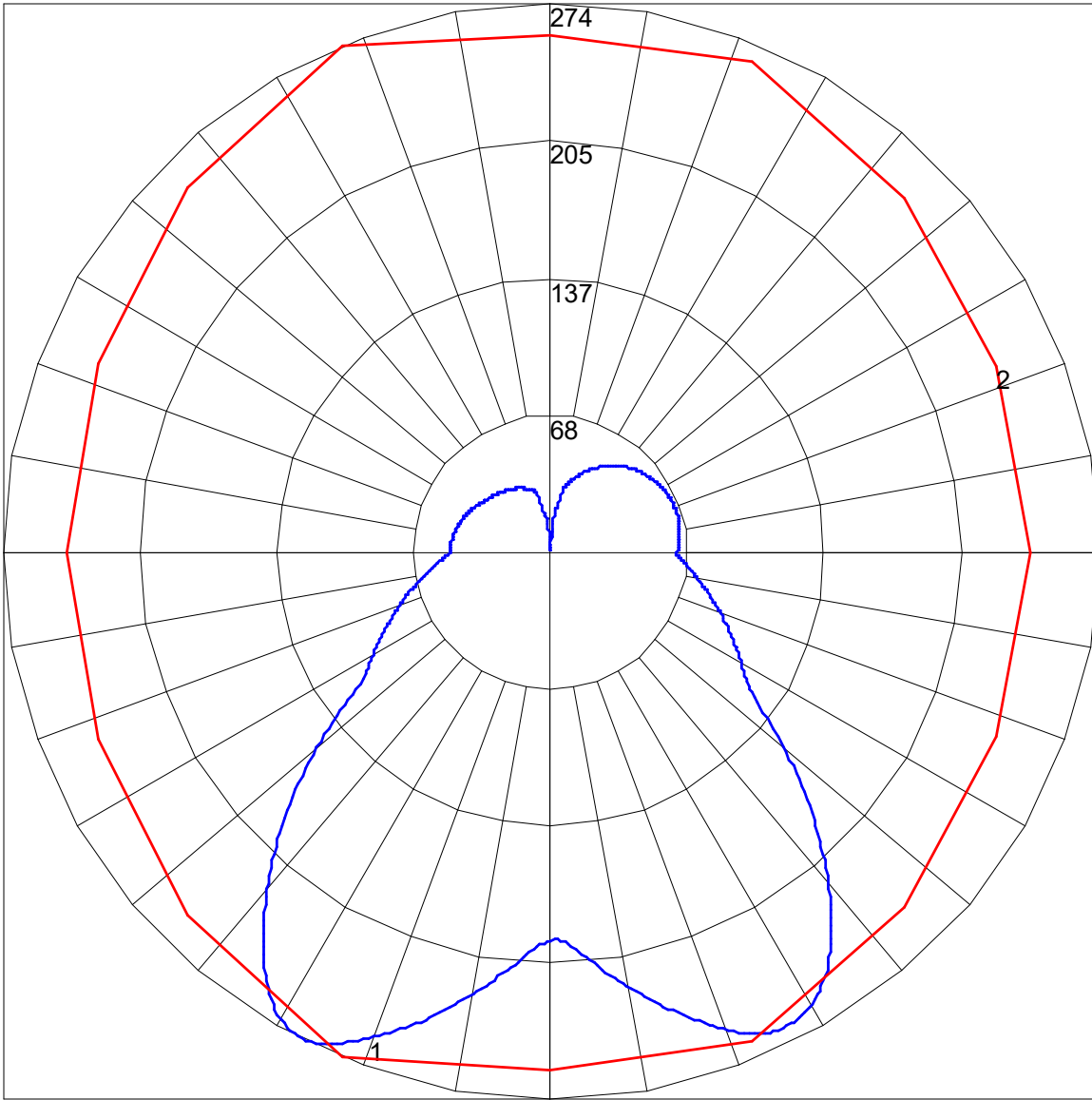
IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAB WHITE 3 LIGHTT.IES

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	13.6	14.7	14.3	15.5	16.4	10.1	11.3	10.9	12.1	13.0
	3H	16.4	17.4	17.1	18.2	19.2	12.0	13.0	12.7	13.8	14.8
	4H	17.8	18.8	18.6	19.6	20.5	12.8	13.8	13.5	14.5	15.5
	6H	19.3	20.2	20.1	21.0	22.0	13.5	14.4	14.3	15.2	16.2
	8H	20.0	20.9	20.8	21.7	22.7	13.8	14.7	14.6	15.5	16.5
	12H	20.8	21.6	21.6	22.4	23.5	14.1	15.0	14.9	15.8	16.8
4H	2H	13.9	14.9	14.7	15.7	16.7	11.1	12.1	11.9	12.9	13.9
	3H	16.9	17.7	17.7	18.6	19.6	13.1	14.0	13.9	14.8	15.8
	4H	18.5	19.3	19.3	20.1	21.1	14.1	14.9	14.9	15.7	16.7
	6H	20.1	20.8	20.9	21.7	22.7	14.9	15.6	15.8	16.5	17.5
	8H	21.0	21.6	21.8	22.5	23.5	15.3	16.0	16.1	16.8	17.9
	12H	21.9	22.5	22.7	23.3	24.4	15.7	16.3	16.6	17.2	18.2
8H	4H	18.6	19.3	19.5	20.2	21.2	14.8	15.4	15.6	16.3	17.3
	6H	20.5	21.0	21.3	21.9	23.0	15.9	16.4	16.7	17.3	18.3
	8H	21.5	22.0	22.3	22.8	23.9	16.4	16.9	17.2	17.8	18.8
	12H	22.5	23.0	23.4	23.9	25.0	16.9	17.3	17.7	18.2	19.3
12H	4H	18.7	19.3	19.5	20.1	21.2	15.0	15.6	15.8	16.4	17.5
	6H	20.5	21.0	21.4	21.9	23.0	16.1	16.7	17.0	17.5	18.6
	8H	21.6	22.0	22.4	22.9	24.0	16.8	17.2	17.6	18.1	19.2

Maximum UGR = 25.0

POLAR GRAPH



Maximum Candela = 273.618 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.)