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IES INDOOR REPORT PHOTOMETRIC FILENAME : FAB GRAY 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	1232
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	41
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	1649	1877	4140
55	1390	1485	2992
65	1244	1291	2552
75	1154	1172	2669
85	1111	1114	3217

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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	193.128	193.128	193.128	193.128	193.128	193.128	193.128	193.128	193.128
0.5	191.258	191.814	192.549	192.638	193.261	194.040	194.641	194.686	194.708
1.0	191.748	192.393	192.705	192.838	193.506	194.753	195.710	196.088	196.378
1.5	193.284	193.662	193.662	193.328	194.152	195.777	197.179	198.069	198.426
2.0	194.998	195.153	195.042	194.085	194.909	196.890	198.893	200.273	200.718
2.5	197.090	197.224	196.645	195.220	195.866	198.225	200.830	202.700	203.212
3.0	199.583	199.160	198.426	196.556	196.845	199.605	203.011	205.104	205.794
3.5	202.099	201.498	200.407	197.914	197.980	201.030	205.037	207.619	208.710
4.0	204.703	204.080	202.254	199.427	199.116	202.700	207.285	210.179	211.247
4.5	207.330	206.417	204.391	200.852	200.340	204.369	209.467	212.850	214.097
5.0	209.801	209.088	206.462	202.388	201.498	206.016	211.515	215.299	216.790
5.5	212.294	211.425	208.532	204.102	202.766	207.664	213.763	218.014	219.461
6.0	215.165	214.008	210.646	205.749	204.035	209.444	216.122	220.708	222.578
6.5	217.747	216.501	212.917	207.352	205.215	211.136	218.326	223.312	225.049
7.0	220.329	218.905	215.054	209.066	206.573	212.850	220.686	226.028	227.898
7.5	222.889	221.598	217.235	210.758	207.908	214.631	223.045	228.677	230.658
8.0	225.316	224.069	219.484	212.383	209.244	216.389	225.271	231.259	233.307
8.5	227.809	226.629	221.643	214.097	210.468	218.170	227.609	233.841	235.956
9.0	230.614	229.011	223.847	215.811	211.893	219.929	230.013	236.334	238.605
9.5	233.240	231.482	226.095	217.480	213.340	221.732	232.083	238.761	241.254
10.0	235.756	234.064	228.232	219.216	214.586	223.401	234.309	241.454	243.858
10.5	238.249	236.780	230.480	221.020	215.922	225.204	236.624	243.925	246.485
11.0	241.098	239.117	232.639	222.734	217.258	226.985	238.761	246.396	249.089
11.5	243.769	241.610	234.754	224.603	218.615	228.766	241.009	248.778	251.516
12.0	246.240	244.170	237.002	226.317	219.973	230.547	243.191	251.338	254.031
12.5	248.266	246.463	239.340	227.987	221.287	232.394	245.327	253.564	256.502
13.0	249.690	248.711	241.410	229.723	222.555	234.108	247.487	256.012	258.706
13.5	250.581	250.492	243.702	231.415	223.936	235.911	249.579	258.261	260.553
14.0	250.870	251.627	245.750	232.973	225.271	237.581	251.627	260.308	261.778
14.5	251.560	252.562	247.910	234.732	226.451	239.295	253.653	261.978	262.445
15.0	252.072	253.163	249.935	236.423	227.920	240.987	255.790	263.180	262.735
15.5	252.584	253.630	251.872	238.137	229.256	242.589	257.726	263.647	262.646
16.0	252.762	254.231	253.519	239.829	230.391	244.304	259.663	263.937	262.512
16.5	252.985	254.298	255.011	241.410	231.615	245.951	261.644	263.892	262.201
17.0	253.007	254.454	256.302	243.012	233.062	247.487	263.403	263.670	261.733
17.5	253.297	254.788	257.326	244.682	234.220	249.023	264.916	263.425	261.555
18.0	253.141	254.743	257.971	246.218	235.444	250.670	266.274	263.002	260.954
18.5	253.297	254.721	258.528	247.776	236.735	252.161	267.120	262.601	260.353
19.0	253.252	254.832	258.773	249.334	237.982	253.742	267.587	262.156	259.774
19.5	252.918	254.499	258.951	250.915	239.228	255.189	267.766	261.666	259.106
20.0	252.495	254.410	259.017	252.317	240.408	256.769	267.677	260.999	258.572
20.5	252.139	254.209	258.995	253.875	241.721	258.194	267.432	260.420	257.793
21.0	251.315	253.653	258.906	255.278	242.923	259.685	267.075	259.752	257.058
21.5	250.870	253.096	258.728	256.747	244.170	261.154	266.608	258.928	256.324
22.0	250.425	252.673	258.439	258.082	245.417	262.490	266.118	258.171	255.367
22.5	249.690	251.939	258.149	259.351	246.685	263.915	265.629	257.237	254.231
23.0	248.978	251.071	257.838	260.464	247.865	265.161	264.939	256.257	253.297
23.5	247.954	250.047	257.214	261.243	248.911	266.474	264.159	255.322	252.028
24.0	246.975	248.978	256.658	261.911	250.158	267.699	263.403	254.053	250.737
24.5	246.129	248.110	256.012	262.490	251.249	268.901	262.557	252.651	249.579
25.0	245.105	246.930	255.122	262.957	252.362	269.947	261.600	251.471	248.266
25.5	243.970	245.817	254.276	263.314	253.475	270.748	260.687	250.047	246.774
26.0	242.723	244.548	253.230	263.403	254.432	271.461	259.485	248.511	245.350
26.5	241.543	243.235	252.139	263.670	255.456	271.906	258.394	247.041	243.658

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CANDELA TABULATION - (Cont.)

27.0	239.918	241.788	250.915	263.581	256.391	272.106	257.170	245.327	242.055
27.5	238.805	240.564	249.646	263.403	257.303	272.151	255.723	243.747	240.408
28.0	237.158	239.072	248.154	262.980	258.149	271.973	254.276	241.988	238.627
28.5	235.578	237.336	246.641	262.512	259.106	271.438	252.696	240.185	236.713
29.0	234.064	235.689	245.149	261.666	260.041	270.748	250.982	238.249	234.798
29.5	232.394	234.131	243.458	260.798	260.887	269.813	249.245	236.312	232.840
30.0	230.725	232.417	241.655	259.730	261.577	268.634	247.375	234.331	230.680
30.5	228.632	230.636	239.807	258.416	262.468	267.365	245.283	232.194	228.432
31.0	226.985	228.989	237.870	257.259	263.158	265.940	243.257	230.013	226.317
31.5	225.204	227.097	236.001	255.879	263.937	264.382	241.120	227.876	223.936
32.0	223.090	225.115	234.131	254.276	264.694	262.579	238.939	225.627	221.710
32.5	221.175	223.246	231.927	252.718	265.139	260.598	236.646	223.223	219.083
33.0	219.105	221.153	229.879	250.870	265.695	258.439	234.420	220.775	216.657
33.5	216.723	219.239	227.809	248.911	266.118	256.324	232.105	218.259	213.763
34.0	214.787	217.035	225.516	247.064	265.985	253.786	229.612	215.833	211.314
34.5	212.717	214.898	223.379	244.771	265.651	251.360	227.186	213.251	208.621
35.0	210.268	212.650	221.064	242.478	264.538	248.822	224.537	210.624	205.749
35.5	208.086	210.580	218.838	240.119	263.024	246.196	222.044	207.975	202.922
36.0	205.771	208.153	216.434	237.648	261.065	243.413	219.439	205.104	200.229
36.5	203.323	205.883	214.186	234.977	258.750	240.764	216.790	202.477	197.268
37.0	201.164	203.612	211.782	232.239	255.834	237.781	214.074	199.717	194.441
37.5	198.849	201.230	209.244	229.456	252.184	234.865	211.314	196.778	191.436
38.0	196.400	198.782	206.929	226.674	248.154	231.927	208.598	193.885	188.475
38.5	194.040	196.355	204.391	223.691	243.970	228.833	205.638	190.835	185.604
39.0	191.659	194.040	201.965	220.730	239.651	225.872	202.833	187.941	182.688
39.5	189.388	191.547	199.450	217.658	235.333	222.756	199.917	184.892	179.616
40.0	187.429	189.165	196.867	214.609	230.992	219.684	197.046	181.909	176.744
40.5	185.159	186.739	194.285	211.604	226.874	216.523	193.996	178.904	173.762
41.0	182.866	184.402	191.770	208.443	222.756	213.429	191.035	175.899	170.890
41.5	181.152	182.109	189.076	205.504	218.771	210.268	187.963	172.849	168.130
42.0	179.282	179.816	186.450	202.410	215.076	207.107	184.936	169.866	165.347
42.5	177.724	177.546	183.756	199.294	211.270	203.879	181.775	166.928	162.676
43.0	176.388	175.431	181.130	196.222	207.686	200.718	178.614	164.056	159.894
43.5	175.231	173.606	178.414	192.994	204.325	197.402	175.520	161.296	157.579
44.0	174.274	171.758	175.787	189.833	200.963	194.063	172.226	158.380	155.330
44.5	172.849	170.334	173.138	186.850	197.713	190.790	169.042	155.820	153.216
45.0	171.669	168.953	170.423	183.489	194.463	187.318	165.815	153.349	151.502
45.5	170.556	167.640	167.929	180.395	191.436	184.023	162.765	151.101	149.810
46.0	169.332	166.549	165.325	177.234	188.231	180.506	159.604	149.008	148.207
46.5	168.041	165.303	162.787	174.073	185.225	176.989	156.466	147.183	146.515
47.0	166.727	163.989	160.428	170.734	181.998	173.494	153.216	145.491	144.801
47.5	165.570	162.832	157.979	167.529	178.726	169.888	150.255	143.800	143.087
48.0	164.390	161.652	155.887	164.323	175.453	166.304	147.294	142.197	141.306
48.5	163.099	160.294	153.839	160.940	172.070	162.609	144.334	140.505	139.815
49.0	162.053	159.092	152.080	157.779	168.620	159.092	141.618	138.880	138.212
49.5	160.851	157.846	150.277	154.440	165.080	155.419	138.991	137.211	136.543
50.0	159.671	156.666	148.697	151.212	161.474	151.925	136.676	135.675	135.051
50.5	158.491	155.397	147.072	148.118	157.690	148.296	134.495	134.005	133.493
51.0	157.423	154.262	145.692	145.091	153.906	144.645	132.514	132.492	131.846
51.5	156.443	152.971	144.445	141.707	150.099	141.106	130.755	130.867	130.444
52.0	155.152	151.925	143.332	138.747	146.070	137.589	129.086	129.464	128.997
52.5	154.262	150.767	142.086	135.764	141.952	134.117	127.661	127.928	127.528
53.0	153.149	149.565	140.906	132.692	138.057	130.688	126.058	126.348	126.081
53.5	152.214	148.474	139.682	130.043	134.027	127.439	124.567	125.190	124.611
54.0	151.257	147.495	138.546	127.305	130.087	124.211	123.142	123.588	123.298
54.5	149.988	146.337	137.344	124.812	126.348	121.250	121.695	122.230	122.096

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CANDELA TABULATION - (Cont.)

55.0	148.986	145.447	136.187	122.564	122.541	118.245	120.271	120.805	120.671
55.5	148.318	144.445	135.007	120.694	118.957	115.440	118.846	119.514	119.492
56.0	147.406	143.421	133.916	118.779	115.351	113.081	117.422	118.201	118.156
56.5	146.493	142.397	132.692	117.243	111.990	110.833	116.041	116.932	116.865
57.0	145.714	141.574	131.601	115.596	108.851	109.119	114.750	115.618	115.663
57.5	144.779	140.461	130.510	114.038	105.735	107.761	113.415	114.350	114.461
58.0	144.044	139.570	129.353	112.903	102.841	106.648	111.990	113.148	113.237
58.5	143.021	138.747	128.373	112.035	100.304	105.468	110.721	111.901	111.946
59.0	142.330	137.812	127.349	110.988	98.144	104.377	109.475	110.632	110.810
59.5	141.462	136.921	126.281	110.076	96.364	103.309	108.139	109.541	109.786
60.0	140.527	136.098	125.302	109.119	95.028	102.196	106.982	108.339	108.495
60.5	139.704	135.252	124.344	108.139	93.915	101.016	105.735	107.093	107.494
61.0	138.969	134.384	123.343	107.115	93.002	99.858	104.466	106.002	106.202
61.5	138.368	133.627	122.207	106.202	92.179	98.768	103.353	104.845	105.245
62.0	137.478	132.736	121.362	105.067	91.400	97.699	102.129	103.732	104.021
62.5	136.654	131.891	120.404	104.155	90.487	96.542	101.038	102.641	102.863
63.0	135.942	131.067	119.403	103.153	89.619	95.429	99.925	101.394	101.906
63.5	135.007	130.243	118.512	102.173	88.728	94.316	98.790	100.437	100.727
64.0	134.272	129.531	117.689	101.238	87.816	93.314	97.610	99.369	99.725
64.5	133.738	128.730	116.709	100.192	86.881	92.179	96.586	98.345	98.634
65.0	132.981	127.928	115.975	99.257	85.990	91.155	95.495	97.232	97.610
65.5	132.135	127.149	114.973	98.367	85.055	89.975	94.293	96.319	96.564
66.0	131.401	126.459	114.172	97.388	84.143	88.973	93.292	95.251	95.562
66.5	130.755	125.613	113.281	96.364	83.252	87.949	92.179	94.204	94.627
67.0	130.065	124.968	112.413	95.607	82.184	86.836	91.043	93.158	93.581
67.5	129.242	124.189	111.523	94.672	81.360	85.746	90.131	92.179	92.557
68.0	128.529	123.387	110.744	93.603	80.492	84.877	89.129	91.155	91.644
68.5	127.906	122.653	109.942	92.780	79.513	83.720	88.083	90.264	90.776
69.0	127.260	122.007	109.074	91.867	78.556	82.829	87.170	89.263	89.619
69.5	126.548	121.250	108.295	90.888	77.665	81.872	86.146	88.305	88.728
70.0	125.925	120.605	107.427	90.086	76.708	80.782	85.234	87.371	87.882
70.5	125.101	119.848	106.559	89.218	75.773	79.824	84.254	86.480	86.725
71.0	124.389	119.136	105.935	88.216	74.860	78.867	83.275	85.456	85.946
71.5	123.832	118.579	105.156	87.437	73.970	77.910	82.317	84.588	85.033
72.0	123.187	117.844	104.333	86.525	73.102	76.886	81.427	83.631	84.143
72.5	122.586	117.154	103.643	85.590	72.189	75.996	80.492	82.785	83.208
73.0	121.851	116.487	102.886	84.855	71.299	75.038	79.624	81.828	82.340
73.5	121.161	115.863	102.107	83.942	70.408	74.081	78.667	81.004	81.427
74.0	120.694	115.129	101.394	83.052	69.563	73.169	77.821	80.114	80.603
74.5	120.182	114.439	100.593	82.317	68.605	72.234	76.931	79.246	79.691
75.0	119.447	113.882	99.903	81.538	67.826	71.410	76.107	78.444	78.778
75.5	118.713	113.192	99.280	80.648	66.980	70.564	75.217	77.487	77.955
76.0	118.112	112.569	98.590	79.891	66.068	69.607	74.326	76.663	77.064
76.5	117.399	111.946	97.810	79.134	65.200	68.828	73.480	75.818	76.285
77.0	116.687	111.278	97.254	78.333	64.443	67.982	72.590	75.038	75.484
77.5	116.331	110.744	96.519	77.509	63.552	67.047	71.789	74.148	74.749
78.0	115.663	110.076	95.740	76.797	62.818	66.290	70.987	73.324	73.859
78.5	114.906	109.408	95.184	75.907	61.950	65.467	70.186	72.523	73.080
79.0	114.505	108.785	94.516	75.261	61.148	64.576	69.340	71.744	72.122
79.5	113.726	108.184	93.759	74.593	60.347	63.753	68.539	70.898	71.388
80.0	113.370	107.560	93.203	73.725	59.590	62.951	67.737	70.119	70.609
80.5	112.725	107.026	92.490	73.057	58.878	62.172	66.891	69.407	69.919
81.0	112.079	106.447	91.845	72.345	58.099	61.371	66.224	68.583	69.006
81.5	111.656	105.757	91.266	71.633	57.453	60.703	65.467	67.848	68.271
82.0	110.922	105.179	90.576	71.009	56.718	59.902	64.621	67.181	67.581
82.5	110.432	104.711	89.886	70.364	55.962	59.078	63.908	66.424	66.847

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CANDELA TABULATION - (Cont.)

83.0	109.697	104.021	89.352	69.629	55.227	58.410	63.196	65.667	66.068
83.5	109.163	103.531	88.751	68.961	54.559	57.720	62.439	64.888	65.289
84.0	108.696	102.997	88.083	68.405	53.869	56.963	61.772	64.242	64.554
84.5	108.117	102.351	87.593	67.693	53.224	56.251	61.015	63.441	63.797
85.0	107.649	101.773	87.014	67.114	52.623	55.539	60.369	62.795	63.263
85.5	107.137	101.238	86.369	66.513	51.910	54.782	59.746	62.083	62.484
86.0	106.603	100.682	85.812	65.867	51.332	54.181	58.944	61.237	61.927
86.5	106.047	100.237	85.367	65.311	50.686	53.491	58.277	60.614	61.015
87.0	105.446	99.680	84.722	64.888	50.107	52.845	57.676	60.035	60.391
87.5	104.956	99.102	84.254	64.220	49.662	52.244	57.008	59.301	59.813
88.0	104.488	98.768	83.787	63.797	48.994	51.643	56.429	58.700	59.078
88.5	103.976	98.256	83.275	63.330	48.594	51.042	55.806	58.099	58.433
89.0	103.887	97.966	82.896	62.818	48.126	50.619	55.205	57.409	57.698
89.5	103.932	97.944	82.896	62.773	47.792	50.174	54.648	56.852	57.141
90.0	103.732	98.078	83.052	62.862	47.970	50.063	54.426	56.518	56.763
90.5	104.066	98.211	83.074	62.929	47.970	50.107	54.292	56.340	56.652
91.0	104.355	98.300	83.208	63.063	47.926	50.107	54.181	56.251	56.540
91.5	104.444	98.567	83.319	63.196	48.082	50.130	54.159	56.207	56.340
92.0	104.622	98.545	83.542	63.152	48.104	50.130	54.047	56.028	56.273
92.5	104.756	98.723	83.631	63.330	48.237	50.063	53.958	55.850	56.117
93.0	104.934	98.879	83.631	63.486	48.193	49.929	53.958	55.784	56.028
93.5	105.201	98.990	83.942	63.552	48.416	49.951	53.958	55.695	55.873
94.0	105.312	99.213	84.032	63.730	48.371	49.907	53.758	55.605	55.695
94.5	105.468	99.280	84.165	63.775	48.482	49.796	53.825	55.450	55.427
95.0	105.802	99.435	84.254	63.886	48.482	49.796	53.669	55.138	55.272
95.5	105.757	99.680	84.365	64.020	48.549	49.773	53.558	55.049	55.205
96.0	106.024	99.792	84.521	64.109	48.594	49.729	53.446	54.938	54.915
96.5	106.158	99.903	84.788	64.176	48.727	49.662	53.313	54.693	54.782
97.0	106.314	100.059	84.744	64.331	48.705	49.618	53.246	54.537	54.492
97.5	106.425	100.192	84.877	64.509	48.727	49.506	53.179	54.492	54.381
98.0	106.670	100.215	85.033	64.487	48.905	49.551	52.979	54.270	54.203
98.5	106.692	100.415	85.145	64.688	48.927	49.417	52.912	54.114	53.981
99.0	106.826	100.548	85.145	64.866	48.994	49.284	52.868	53.936	53.802
99.5	106.982	100.593	85.300	64.799	49.039	49.284	52.623	53.758	53.491
100.0	107.026	100.704	85.367	64.932	49.150	49.195	52.578	53.602	53.357
100.5	107.204	100.727	85.389	65.044	49.172	49.128	52.511	53.379	53.135
101.0	107.182	100.793	85.478	65.177	49.284	49.039	52.378	53.135	52.912
101.5	107.427	100.838	85.567	65.222	49.328	48.883	52.222	53.001	52.600
102.0	107.338	100.905	85.545	65.333	49.506	48.838	52.066	52.756	52.511
102.5	107.405	100.905	85.567	65.355	49.506	48.772	51.866	52.534	52.289
103.0	107.427	100.971	85.612	65.444	49.640	48.594	51.688	52.356	52.088
103.5	107.427	100.994	85.567	65.578	49.595	48.527	51.554	52.222	51.688
104.0	107.605	101.016	85.478	65.444	49.640	48.416	51.354	51.999	51.599
104.5	107.649	101.105	85.501	65.578	49.684	48.282	51.087	51.732	51.243
105.0	107.449	101.127	85.456	65.645	49.818	48.148	50.842	51.576	50.998
105.5	107.560	100.994	85.434	65.511	49.862	48.037	50.597	51.287	50.708
106.0	107.649	101.016	85.501	65.556	49.796	47.948	50.352	50.975	50.530
106.5	107.605	101.060	85.456	65.556	49.862	47.837	50.130	50.753	50.241
107.0	107.672	101.060	85.389	65.533	49.796	47.748	49.862	50.419	50.018
107.5	107.605	100.994	85.367	65.511	49.796	47.614	49.640	50.152	49.640
108.0	107.605	100.971	85.323	65.622	49.862	47.347	49.395	49.707	49.261
108.5	107.649	100.949	85.367	65.511	49.773	47.303	49.172	49.439	48.861
109.0	107.449	100.927	85.256	65.511	49.818	47.058	48.927	49.061	48.616
109.5	107.516	100.771	85.145	65.422	49.707	46.991	48.683	48.772	48.059
110.0	107.405	100.793	85.078	65.422	49.773	46.880	48.438	48.326	47.881
110.5	107.427	100.615	85.078	65.400	49.684	46.746	48.126	48.104	47.325

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CANDELA TABULATION - (Cont.)

111.0	107.293	100.637	84.989	65.467	49.707	46.612	47.926	47.725	46.924
111.5	107.226	100.571	84.989	65.378	49.595	46.501	47.570	47.414	46.724
112.0	106.959	100.526	84.900	65.355	49.573	46.279	47.347	47.013	46.234
112.5	107.026	100.437	84.722	65.289	49.618	46.212	47.147	46.701	45.789
113.0	106.982	100.304	84.722	65.222	49.595	46.011	46.902	46.368	45.388
113.5	106.848	100.192	84.610	65.133	49.529	45.922	46.546	45.900	45.077
114.0	106.670	100.125	84.454	65.133	49.506	45.811	46.323	45.655	44.720
114.5	106.714	99.992	84.388	65.021	49.484	45.588	46.100	45.143	44.275
115.0	106.447	99.836	84.187	64.932	49.373	45.455	45.633	44.654	43.763
115.5	106.358	99.858	84.098	64.866	49.395	45.277	45.522	44.208	43.362
116.0	106.136	99.547	83.920	64.710	49.217	45.255	45.143	43.607	42.895
116.5	106.158	99.458	83.809	64.688	49.284	44.987	44.765	43.140	42.428
117.0	105.869	99.302	83.631	64.576	49.172	44.898	44.609	42.717	41.626
117.5	105.624	99.079	83.564	64.465	49.061	44.743	44.364	42.116	41.203
118.0	105.490	98.923	83.297	64.287	48.972	44.542	44.008	41.671	40.491
118.5	105.290	98.834	83.163	64.198	48.838	44.386	43.696	41.181	39.979
119.0	105.023	98.545	83.008	64.153	48.772	44.253	43.518	40.669	39.356
119.5	104.800	98.411	82.852	64.042	48.772	44.119	43.118	40.090	38.688
120.0	104.600	98.278	82.718	63.864	48.616	43.964	42.940	39.489	38.087
120.5	104.444	97.922	82.540	63.641	48.505	43.741	42.606	38.955	37.508
121.0	104.221	97.766	82.273	63.641	48.326	43.585	42.249	38.465	36.907
121.5	103.821	97.610	82.050	63.530	48.326	43.362	42.094	37.976	36.284
122.0	103.643	97.276	81.895	63.263	48.260	43.184	41.782	37.419	35.638
122.5	103.331	97.054	81.739	63.107	48.082	43.118	41.493	36.952	35.104
123.0	103.086	96.853	81.449	63.040	47.970	42.851	41.248	36.440	34.503
123.5	102.752	96.430	81.204	62.751	47.881	42.717	41.003	35.994	33.768
124.0	102.708	96.119	81.049	62.662	47.837	42.583	40.602	35.460	33.279
124.5	102.151	95.896	80.804	62.506	47.659	42.361	40.402	35.015	32.744
125.0	101.773	95.540	80.581	62.328	47.503	42.316	40.202	34.525	32.188
125.5	101.394	95.251	80.247	62.083	47.392	42.116	39.957	34.102	31.765
126.0	100.949	94.850	80.002	61.950	47.347	42.027	39.801	33.724	31.298
126.5	100.771	94.471	79.713	61.727	47.236	41.916	39.512	33.279	30.830
127.0	100.103	94.182	79.468	61.616	47.169	41.804	39.178	32.923	30.363
127.5	99.658	93.737	79.134	61.415	47.080	41.626	39.000	32.611	30.006
128.0	99.346	93.336	78.845	61.170	46.924	41.582	38.799	32.121	29.606
128.5	98.857	92.891	78.533	61.037	46.924	41.537	38.510	31.721	29.227
129.0	98.367	92.646	78.266	60.792	46.724	41.337	38.287	31.275	28.849
129.5	98.033	92.156	77.888	60.636	46.635	41.203	38.131	30.897	28.604
130.0	97.388	91.845	77.576	60.325	46.546	40.958	37.731	30.541	28.248
130.5	97.009	91.400	77.220	60.169	46.546	40.892	37.575	30.207	27.780
131.0	96.564	90.954	76.886	60.035	46.323	40.758	37.352	29.895	27.580
131.5	96.185	90.576	76.597	59.746	46.234	40.669	37.085	29.472	27.380
132.0	95.540	90.131	76.174	59.679	46.167	40.580	36.863	29.161	27.001
132.5	94.961	89.552	75.862	59.345	46.034	40.446	36.707	28.827	26.667
133.0	94.560	89.129	75.506	59.078	45.833	40.313	36.440	28.537	26.601
133.5	93.959	88.684	75.128	58.900	45.811	40.202	36.239	28.315	26.267
134.0	93.470	88.150	74.771	58.633	45.611	40.157	35.994	28.003	26.156
134.5	93.002	87.660	74.393	58.343	45.588	40.023	35.839	27.669	25.866
135.0	92.446	87.192	73.925	58.076	45.410	39.845	35.616	27.469	25.644
135.5	91.912	86.591	73.636	57.854	45.277	39.868	35.393	27.224	25.421
136.0	91.311	86.280	73.191	57.587	45.121	39.623	35.126	26.823	25.132
136.5	90.754	85.768	72.812	57.409	45.010	39.512	34.881	26.645	24.842
137.0	90.131	85.167	72.412	57.075	44.898	39.378	34.792	26.378	24.531
137.5	89.507	84.655	72.011	56.830	44.676	39.267	34.458	26.066	24.419
138.0	88.840	84.121	71.588	56.607	44.631	39.066	34.347	25.933	24.352
138.5	88.328	83.542	71.232	56.318	44.498	39.066	34.258	25.710	24.063

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CANDELA TABULATION - (Cont.)

139.0	87.660	83.074	70.765	55.984	44.253	39.000	33.947	25.399	23.885
139.5	87.081	82.473	70.319	55.717	44.142	38.844	33.791	25.221	23.662
140.0	86.636	81.939	69.718	55.494	44.075	38.799	33.635	24.976	23.440
140.5	86.013	81.294	69.407	55.071	43.808	38.599	33.345	24.798	23.239
141.0	85.389	80.871	68.917	54.915	43.719	38.443	33.256	24.486	22.972
141.5	84.855	80.158	68.516	54.559	43.541	38.421	33.034	24.263	22.750
142.0	84.210	79.624	68.004	54.203	43.318	38.287	32.856	23.996	22.483
142.5	83.430	79.068	67.581	53.936	43.184	38.131	32.744	23.885	22.215
143.0	82.807	78.422	67.092	53.580	43.029	38.087	32.589	23.529	22.149
143.5	82.139	77.776	66.557	53.224	42.851	37.887	32.322	23.328	21.948
144.0	81.516	77.175	66.090	52.957	42.606	37.731	32.277	23.150	21.815
144.5	80.848	76.552	65.622	52.667	42.450	37.775	32.232	23.017	21.659
145.0	80.136	76.018	65.200	52.222	42.249	37.597	31.988	22.727	21.548
145.5	79.490	75.395	64.710	51.977	42.116	37.441	31.832	22.616	21.525
146.0	78.756	74.727	64.176	51.643	41.893	37.263	31.765	22.460	21.659
146.5	78.110	74.037	63.619	51.287	41.648	37.196	31.565	22.126	21.637
147.0	77.465	73.436	63.196	50.931	41.426	37.063	31.587	21.971	21.570
147.5	76.797	72.679	62.684	50.575	41.359	36.952	31.387	21.837	21.637
148.0	75.996	72.056	62.128	50.241	41.070	36.796	31.253	21.659	21.681
148.5	75.239	71.455	61.660	49.862	40.958	36.662	31.142	21.459	21.726
149.0	74.437	70.854	61.104	49.551	40.691	36.573	31.097	21.258	21.837
149.5	73.881	70.164	60.569	49.106	40.446	36.506	30.964	21.169	21.948
150.0	73.124	69.407	60.035	48.794	40.179	36.284	30.852	21.013	21.926
150.5	72.390	68.828	59.479	48.438	40.046	36.239	30.786	20.924	22.060
151.0	71.677	68.027	58.989	47.993	39.801	36.061	30.652	20.902	22.215
151.5	71.032	67.381	58.477	47.681	39.578	35.972	30.541	20.724	22.126
152.0	70.097	66.780	57.876	47.369	39.378	35.794	30.452	20.524	22.082
152.5	69.340	66.001	57.386	46.902	39.111	35.705	30.274	20.501	22.171
153.0	68.761	65.266	56.718	46.434	38.933	35.594	30.296	20.412	22.149
153.5	67.871	64.621	56.251	46.078	38.666	35.416	30.251	20.390	22.238
154.0	67.114	63.908	55.650	45.722	38.443	35.260	30.073	20.346	22.171
154.5	66.290	63.152	55.027	45.277	38.243	35.104	30.073	20.346	22.126
155.0	65.467	62.373	54.492	44.854	38.042	34.926	29.940	20.323	22.126
155.5	64.732	61.616	53.936	44.409	37.775	34.792	29.762	20.368	22.260
156.0	64.020	60.948	53.335	44.097	37.508	34.703	29.762	20.390	22.260
156.5	63.040	60.213	52.689	43.607	37.352	34.503	29.762	20.301	22.394
157.0	62.439	59.523	52.177	43.140	36.996	34.369	29.628	20.123	22.349
157.5	61.571	58.766	51.532	42.717	36.707	34.147	29.584	20.034	22.238
158.0	60.792	57.943	51.020	42.361	36.506	34.036	29.561	19.878	22.238
158.5	60.102	57.297	50.486	41.871	36.173	33.857	29.450	19.589	22.215
159.0	59.234	56.585	49.796	41.426	35.905	33.613	29.405	19.478	22.238
159.5	58.433	55.784	49.217	41.047	35.638	33.546	29.361	19.210	22.260
160.0	57.609	54.982	48.594	40.491	35.349	33.301	29.205	19.188	22.238
160.5	56.874	54.248	48.015	40.068	35.104	33.212	29.072	19.077	22.215
161.0	56.006	53.446	47.347	39.667	34.859	32.989	28.938	19.032	22.394
161.5	55.071	52.689	46.791	39.089	34.525	32.811	28.738	18.765	22.483
162.0	54.203	51.933	46.034	38.599	34.258	32.589	28.537	18.587	22.594
162.5	53.379	51.153	45.455	38.220	34.102	32.433	28.226	18.387	22.594
163.0	52.556	50.330	44.832	37.708	33.679	32.210	27.536	18.253	22.638
163.5	51.665	49.595	44.142	37.263	33.501	31.988	26.801	17.919	22.772
164.0	50.931	48.772	43.541	36.840	33.234	31.921	25.888	17.363	22.705
164.5	50.018	47.926	42.895	36.239	32.900	31.654	24.753	16.873	22.282
165.0	49.150	47.080	42.249	35.772	32.589	31.231	23.707	16.628	21.614
165.5	48.215	46.323	41.582	35.238	32.299	30.741	22.594	16.517	20.724
166.0	47.414	45.499	40.892	34.815	31.921	29.962	21.258	16.428	19.700
166.5	46.457	44.631	40.113	34.347	31.498	28.893	20.145	16.205	18.253

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167.0	45.477	43.808	39.489	33.902	30.830	27.758	19.255	16.094	16.539
167.5	44.609	42.984	38.844	33.345	29.873	26.400	18.365	15.627	15.048
168.0	43.607	42.005	37.953	32.923	28.537	24.931	17.808	15.315	13.267
168.5	42.695	41.136	37.286	32.388	27.358	23.551	17.452	14.936	11.620
169.0	41.760	40.335	36.662	31.587	25.755	22.082	17.051	14.202	9.661
169.5	40.780	39.489	35.839	30.608	24.330	20.657	16.895	13.401	7.568
170.0	39.756	38.577	35.015	29.294	22.727	19.567	16.584	12.243	5.632
170.5	38.777	37.419	34.147	27.936	21.370	18.854	16.139	10.818	4.074
171.0	37.775	36.351	32.878	26.512	20.234	18.142	15.782	9.572	2.493
171.5	36.863	35.438	31.787	25.020	19.455	17.741	15.159	8.503	1.647
172.0	35.794	34.414	30.719	23.596	18.765	17.452	14.091	7.235	1.469
172.5	34.881	33.012	29.227	22.549	18.164	16.940	12.844	5.988	1.447
173.0	33.279	31.743	27.803	21.570	17.652	16.361	11.575	4.786	1.380
173.5	31.364	30.296	26.200	20.412	17.007	15.181	9.906	4.051	1.180
174.0	30.340	28.426	24.352	19.478	16.472	13.467	8.192	3.740	1.024
174.5	28.671	26.623	22.683	18.409	15.471	11.753	6.544	3.361	0.868
175.0	26.667	24.686	21.080	17.073	14.024	9.794	5.231	3.072	0.668
175.5	24.063	22.438	19.188	15.716	12.243	7.657	4.474	2.538	0.490
176.0	21.459	19.945	17.318	14.091	10.351	5.810	3.962	2.115	0.646
176.5	18.654	17.140	15.115	11.798	8.147	4.474	3.384	1.491	0.512
177.0	15.382	14.291	12.644	9.461	6.166	3.762	2.849	0.979	0.423
177.5	11.998	11.085	10.306	7.368	4.541	3.317	2.404	0.646	0.423
178.0	8.392	7.769	7.858	5.009	3.339	2.760	1.892	0.534	0.712
178.5	5.342	4.964	5.187	3.183	2.693	2.271	1.425	0.579	0.490
179.0	3.139	2.983	2.783	1.981	2.092	1.803	1.113	0.534	0.557
179.5	1.113	1.692	1.068	1.068	1.447	1.447	0.690	0.557	0.779
180.0	0.801	0.801	0.801	0.801	0.801	0.801	0.801	0.801	0.801

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	90.74	N.A.	7.40
0-30	208.37	N.A.	16.90
0-40	350.62	N.A.	28.50
0-60	599.96	N.A.	48.70
0-80	793.75	N.A.	64.40
0-90	872.06	N.A.	70.80
10-90	851.50	N.A.	69.10
20-40	259.88	N.A.	21.10
20-50	393.96	N.A.	32.00
40-70	352.09	N.A.	28.60
60-80	193.79	N.A.	15.70
70-80	91.05	N.A.	7.40
80-90	78.31	N.A.	6.40
90-110	143.17	N.A.	11.60
90-120	206.28	N.A.	16.70
90-130	259.04	N.A.	21.00
90-150	330.22	N.A.	26.80
90-180	360.34	N.A.	29.20
110-180	217.17	N.A.	17.60
0-180	1232.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	20.56
10-20	70.18
20-30	117.63
30-40	142.25
40-50	134.08
50-60	115.26
60-70	102.75
70-80	91.05
80-90	78.31
90-100	72.97
100-110	70.20
110-120	63.11
120-130	52.76
130-140	41.34
140-150	29.84
150-160	19.10
160-170	9.39
170-180	1.63

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAB GRAY 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	64	59	61	57	53	54	51	48	44
3	82	71	63	56	56	77	67	60	54	60	54	49	54	49	44	47	44	40	37
4	75	63	54	47	47	70	60	51	45	53	47	41	48	42	38	42	38	34	31
5	69	56	47	40	40	65	53	45	39	48	41	36	43	37	33	38	33	30	27
6	63	50	41	35	35	60	48	40	34	43	36	31	39	33	29	34	30	26	23
7	59	45	37	31	31	55	43	35	29	39	32	27	35	29	25	31	27	23	21
8	54	41	33	27	27	51	39	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

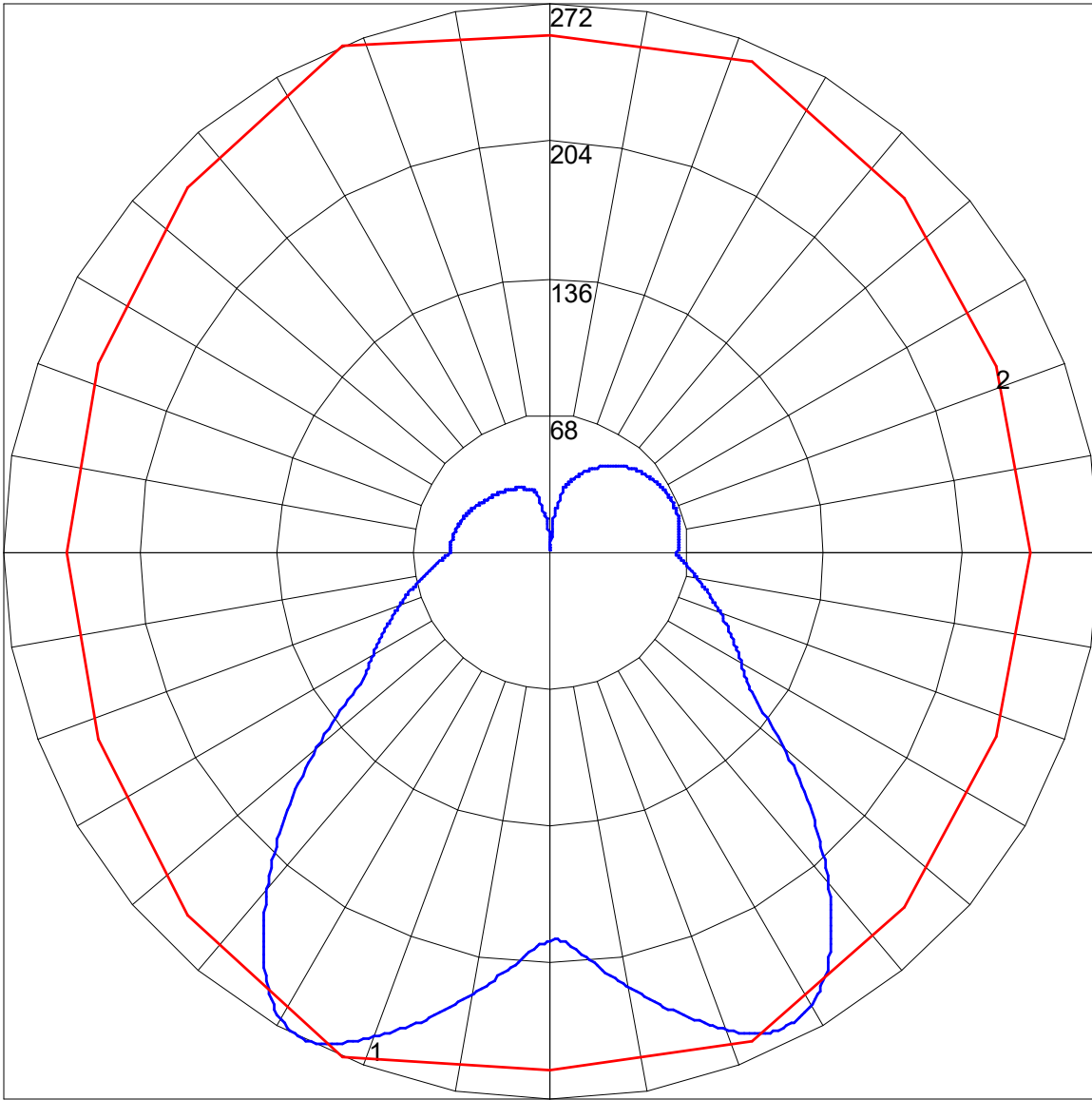
IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAB GRAY 4 LIGHT.IES

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	12.7	13.9	13.5	14.7	15.6	9.2	10.3	9.9	11.1	12.0
	3H	15.6	16.6	16.3	17.4	18.4	11.0	12.0	11.7	12.8	13.8
	4H	17.0	18.0	17.8	18.8	19.8	11.8	12.8	12.6	13.6	14.5
	6H	18.6	19.5	19.4	20.3	21.3	12.5	13.4	13.3	14.2	15.2
	8H	19.4	20.2	20.1	21.1	22.1	12.8	13.7	13.6	14.5	15.5
	12H	20.2	21.0	21.0	21.8	22.9	13.1	14.0	13.9	14.8	15.8
4H	2H	13.1	14.1	13.8	14.8	15.8	10.1	11.1	10.9	11.9	12.9
	3H	16.1	16.9	16.9	17.8	18.8	12.2	13.0	13.0	13.9	14.9
	4H	17.7	18.5	18.5	19.3	20.3	13.1	13.9	13.9	14.7	15.7
	6H	19.4	20.1	20.2	21.0	22.0	14.0	14.7	14.8	15.5	16.6
	8H	20.3	21.0	21.1	21.8	22.8	14.4	15.0	15.2	15.9	16.9
	12H	21.2	21.8	22.1	22.7	23.7	14.7	15.4	15.6	16.2	17.3
8H	4H	17.9	18.5	18.7	19.4	20.4	13.8	14.5	14.7	15.3	16.4
	6H	19.7	20.3	20.6	21.2	22.2	14.9	15.5	15.8	16.4	17.4
	8H	20.8	21.3	21.6	22.1	23.2	15.4	15.9	16.3	16.8	17.9
	12H	21.9	22.3	22.7	23.2	24.3	15.9	16.4	16.8	17.3	18.4
12H	4H	17.9	18.5	18.7	19.3	20.4	14.0	14.6	14.9	15.5	16.5
	6H	19.8	20.3	20.6	21.2	22.2	15.2	15.7	16.1	16.6	17.7
	8H	20.8	21.3	21.7	22.2	23.3	15.8	16.3	16.7	17.1	18.2

Maximum UGR = 24.3

POLAR GRAPH



Maximum Candela = 272.151 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.)