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## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FAB GRAY 3 LIGHT.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 18097-B

[TESTLAB] LightLab International ([www.LightLabInternational.com](http://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	925
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	41
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	1650	1840	3915
55	1392	1451	2779
65	1245	1257	2313
75	1155	1137	2328
85	1112	1078	2605

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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>
<b>0.0</b>	144.976	144.976	144.976	144.976	144.976	144.976	144.976	144.976	144.976
<b>0.5</b>	143.572	143.990	144.542	144.608	145.076	145.661	146.112	146.146	146.162
<b>1.0</b>	143.940	144.425	144.658	144.759	145.260	146.196	146.914	147.198	147.416
<b>1.5</b>	145.093	145.377	145.377	145.126	145.745	146.964	148.017	148.686	148.953
<b>2.0</b>	146.380	146.497	146.413	145.694	146.313	147.800	149.304	150.340	150.674
<b>2.5</b>	147.950	148.051	147.616	146.547	147.031	148.803	150.758	152.161	152.546
<b>3.0</b>	149.822	149.504	148.953	147.549	147.767	149.839	152.395	153.966	154.484
<b>3.5</b>	151.710	151.259	150.440	148.569	148.619	150.908	153.916	155.854	156.673
<b>4.0</b>	153.665	153.197	151.827	149.705	149.471	152.161	155.604	157.776	158.578
<b>4.5</b>	155.637	154.952	153.431	150.774	150.390	153.415	157.241	159.781	160.717
<b>5.0</b>	157.492	156.957	154.985	151.927	151.259	154.651	158.778	161.619	162.739
<b>5.5</b>	159.363	158.712	156.539	153.214	152.211	155.888	160.466	163.658	164.744
<b>6.0</b>	161.519	160.650	158.127	154.451	153.164	157.224	162.237	165.680	167.083
<b>6.5</b>	163.457	162.521	159.831	155.654	154.049	158.494	163.892	167.635	168.938
<b>7.0</b>	165.396	164.326	161.435	156.940	155.069	159.781	165.663	169.673	171.077
<b>7.5</b>	167.317	166.348	163.073	158.210	156.071	161.118	167.434	171.662	173.149
<b>8.0</b>	169.139	168.203	164.761	159.430	157.074	162.438	169.105	173.600	175.138
<b>8.5</b>	171.010	170.125	166.381	160.717	157.993	163.775	170.860	175.539	177.126
<b>9.0</b>	173.116	171.912	168.036	162.003	159.062	165.095	172.664	177.410	179.114
<b>9.5</b>	175.087	173.767	169.723	163.257	160.149	166.448	174.218	179.231	181.103
<b>10.0</b>	176.976	175.706	171.328	164.560	161.084	167.702	175.889	181.253	183.058
<b>10.5</b>	178.847	177.744	173.015	165.914	162.087	169.055	177.627	183.108	185.030
<b>11.0</b>	180.986	179.499	174.636	167.200	163.090	170.392	179.231	184.963	186.985
<b>11.5</b>	182.991	181.370	176.224	168.604	164.109	171.729	180.919	186.751	188.806
<b>12.0</b>	184.846	183.292	177.911	169.891	165.128	173.065	182.557	188.673	190.695
<b>12.5</b>	186.367	185.013	179.666	171.144	166.114	174.452	184.161	190.344	192.549
<b>13.0</b>	187.436	186.701	181.220	172.447	167.067	175.739	185.782	192.182	194.204
<b>13.5</b>	188.104	188.038	182.941	173.717	168.103	177.093	187.353	193.869	195.591
<b>14.0</b>	188.322	188.890	184.478	174.887	169.105	178.346	188.890	195.407	196.510
<b>14.5</b>	188.840	189.592	186.099	176.207	169.991	179.633	190.410	196.660	197.011
<b>15.0</b>	189.224	190.043	187.620	177.477	171.094	180.902	192.015	197.562	197.228
<b>15.5</b>	189.608	190.394	189.074	178.764	172.096	182.106	193.468	197.913	197.161
<b>16.0</b>	189.742	190.845	190.310	180.034	172.949	183.392	194.922	198.130	197.061
<b>16.5</b>	189.909	190.895	191.430	181.220	173.868	184.629	196.409	198.097	196.827
<b>17.0</b>	189.926	191.012	192.399	182.423	174.954	185.782	197.729	197.930	196.476
<b>17.5</b>	190.143	191.263	193.168	183.676	175.823	186.935	198.866	197.746	196.343
<b>18.0</b>	190.026	191.229	193.652	184.829	176.742	188.171	199.885	197.429	195.891
<b>18.5</b>	190.143	191.213	194.070	185.999	177.711	189.291	200.520	197.128	195.440
<b>19.0</b>	190.110	191.296	194.254	187.169	178.647	190.477	200.871	196.794	195.006
<b>19.5</b>	189.859	191.045	194.387	188.355	179.582	191.563	201.005	196.426	194.504
<b>20.0</b>	189.542	190.979	194.438	189.408	180.468	192.750	200.938	195.925	194.103
<b>20.5</b>	189.274	190.828	194.421	190.578	181.454	193.819	200.754	195.490	193.519
<b>21.0</b>	188.656	190.410	194.354	191.630	182.356	194.939	200.487	194.989	192.967
<b>21.5</b>	188.322	189.993	194.220	192.733	183.292	196.042	200.136	194.371	192.416
<b>22.0</b>	187.988	189.675	194.003	193.736	184.228	197.044	199.768	193.803	191.697
<b>22.5</b>	187.436	189.124	193.786	194.688	185.180	198.114	199.400	193.101	190.845
<b>23.0</b>	186.901	188.472	193.552	195.524	186.066	199.050	198.882	192.366	190.143
<b>23.5</b>	186.133	187.703	193.084	196.109	186.851	200.035	198.298	191.664	189.191
<b>24.0</b>	185.397	186.901	192.666	196.610	187.787	200.954	197.729	190.711	188.221
<b>24.5</b>	184.762	186.250	192.182	197.044	188.606	201.857	197.094	189.659	187.353
<b>25.0</b>	183.994	185.364	191.513	197.395	189.441	202.642	196.376	188.773	186.367
<b>25.5</b>	183.142	184.529	190.878	197.663	190.277	203.244	195.691	187.703	185.247
<b>26.0</b>	182.206	183.576	190.093	197.729	190.995	203.778	194.788	186.550	184.178
<b>26.5</b>	181.320	182.590	189.274	197.930	191.764	204.113	193.970	185.448	182.908

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**CANDELA TABULATION - (Cont.)**

27.0	180.100	181.504	188.355	197.863	192.466	204.263	193.051	184.161	181.705
27.5	179.265	180.585	187.403	197.729	193.151	204.296	191.964	182.975	180.468
28.0	178.028	179.465	186.283	197.412	193.786	204.163	190.878	181.654	179.131
28.5	176.842	178.162	185.147	197.061	194.504	203.762	189.692	180.301	177.694
29.0	175.706	176.925	184.027	196.426	195.206	203.244	188.405	178.847	176.257
29.5	174.452	175.756	182.757	195.774	195.841	202.542	187.102	177.393	174.787
30.0	173.199	174.469	181.404	194.972	196.359	201.656	185.698	175.906	173.166
30.5	171.628	173.132	180.017	193.986	197.028	200.704	184.127	174.302	171.478
31.0	170.392	171.896	178.563	193.117	197.546	199.634	182.607	172.664	169.891
31.5	169.055	170.475	177.159	192.081	198.130	198.465	181.003	171.060	168.103
32.0	167.468	168.988	175.756	190.878	198.699	197.111	179.365	169.373	166.432
32.5	166.031	167.585	174.101	189.709	199.033	195.624	177.644	167.568	164.460
33.0	164.477	166.014	172.564	188.322	199.451	194.003	175.973	165.730	162.638
33.5	162.689	164.577	171.010	186.851	199.768	192.416	174.235	163.842	160.466
34.0	161.235	162.923	169.289	185.464	199.668	190.511	172.364	162.020	158.628
34.5	159.681	161.318	167.685	183.743	199.417	188.689	170.542	160.082	156.606
35.0	157.843	159.631	165.947	182.022	198.582	186.784	168.554	158.110	154.451
35.5	156.205	158.077	164.276	180.251	197.445	184.813	166.682	156.122	152.328
36.0	154.467	156.255	162.471	178.396	195.975	182.724	164.727	153.966	150.306
36.5	152.629	154.551	160.784	176.391	194.237	180.735	162.739	151.994	148.084
37.0	151.008	152.846	158.979	174.335	192.048	178.496	160.700	149.922	145.962
37.5	149.270	151.058	157.074	172.247	189.308	176.307	158.628	147.716	143.706
38.0	147.432	149.220	155.336	170.158	186.283	174.101	156.589	145.544	141.484
38.5	145.661	147.399	153.431	167.919	183.142	171.779	154.367	143.255	139.328
39.0	143.873	145.661	151.610	165.696	179.900	169.556	152.262	141.083	137.139
39.5	142.169	143.790	149.722	163.390	176.658	167.217	150.073	138.793	134.833
40.0	140.698	142.002	147.783	161.101	173.400	164.911	147.917	136.554	132.677
40.5	138.994	140.180	145.845	158.845	170.308	162.538	145.628	134.298	130.438
41.0	137.273	138.426	143.957	156.472	167.217	160.215	143.405	132.042	128.283
41.5	135.986	136.705	141.935	154.267	164.226	157.843	141.099	129.753	126.211
42.0	134.582	134.983	139.963	151.944	161.452	155.470	138.827	127.514	124.122
42.5	133.413	133.279	137.941	149.605	158.595	153.047	136.454	125.308	122.117
43.0	132.410	131.692	135.969	147.299	155.904	150.674	134.081	123.153	120.028
43.5	131.541	130.321	133.931	144.876	153.381	148.184	131.758	121.081	118.290
44.0	130.823	128.934	131.959	142.503	150.858	145.678	129.285	118.892	116.602
44.5	129.753	127.865	129.970	140.264	148.418	143.221	126.896	116.970	115.015
45.0	128.868	126.829	127.932	137.741	145.979	140.615	124.473	115.115	113.728
45.5	128.032	125.843	126.060	135.418	143.706	138.142	122.184	113.427	112.458
46.0	127.113	125.024	124.105	133.045	141.300	135.501	119.811	111.857	111.255
46.5	126.144	124.088	122.200	130.672	139.044	132.861	117.455	110.487	109.985
47.0	125.158	123.103	120.429	128.166	136.621	130.238	115.015	109.217	108.699
47.5	124.289	122.234	118.591	125.759	134.165	127.531	112.793	107.947	107.412
48.0	123.403	121.348	117.020	123.353	131.708	124.840	110.570	106.743	106.075
48.5	122.434	120.329	115.483	120.813	129.168	122.067	108.348	105.474	104.956
49.0	121.649	119.426	114.163	118.440	126.578	119.426	106.309	104.254	103.752
49.5	120.746	118.491	112.809	115.934	123.921	116.669	104.337	103.000	102.499
50.0	119.861	117.605	111.623	113.511	121.214	114.046	102.599	101.847	101.380
50.5	118.975	116.653	110.403	111.188	118.374	111.322	100.962	100.594	100.210
51.0	118.173	115.800	109.367	108.916	115.533	108.582	99.475	99.458	98.973
51.5	117.438	114.831	108.431	106.376	112.676	105.925	98.155	98.238	97.921
52.0	116.469	114.046	107.596	104.153	109.651	103.285	96.901	97.185	96.834
52.5	115.800	113.177	106.660	101.914	106.560	100.678	95.832	96.032	95.732
53.0	114.965	112.274	105.774	99.608	103.635	98.104	94.629	94.846	94.645
53.5	114.263	111.456	104.855	97.620	100.611	95.665	93.509	93.977	93.543
54.0	113.544	110.720	104.003	95.564	97.653	93.242	92.440	92.774	92.557
54.5	112.592	109.852	103.101	93.693	94.846	91.019	91.354	91.755	91.654

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**PHOTOMETRIC FILENAME : FAB GRAY 3 LIGHT.IES**

**CANDELA TABULATION - (Cont.)**

55.0	111.840	109.183	102.232	92.005	91.989	88.764	90.284	90.685	90.585
55.5	111.339	108.431	101.346	90.602	89.298	86.658	89.215	89.716	89.699
56.0	110.654	107.663	100.527	89.165	86.591	84.887	88.145	88.730	88.697
56.5	109.969	106.894	99.608	88.012	84.068	83.199	87.109	87.778	87.728
57.0	109.384	106.276	98.790	86.775	81.712	81.912	86.140	86.792	86.825
57.5	108.682	105.440	97.971	85.605	79.373	80.893	85.137	85.839	85.923
58.0	108.130	104.772	97.102	84.753	77.200	80.058	84.068	84.937	85.004
58.5	107.362	104.153	96.367	84.101	75.295	79.172	83.116	84.001	84.035
59.0	106.844	103.452	95.598	83.316	73.674	78.353	82.180	83.049	83.182
59.5	106.192	102.783	94.796	82.631	72.338	77.551	81.177	82.230	82.414
60.0	105.490	102.165	94.061	81.912	71.335	76.716	80.308	81.328	81.445
60.5	104.872	101.530	93.342	81.177	70.499	75.830	79.373	80.392	80.693
61.0	104.321	100.878	92.590	80.409	69.814	74.961	78.420	79.573	79.723
61.5	103.869	100.310	91.738	79.723	69.196	74.142	77.585	78.704	79.005
62.0	103.201	99.642	91.103	78.871	68.611	73.340	76.665	77.869	78.086
62.5	102.583	99.007	90.384	78.186	67.926	72.471	75.847	77.050	77.217
63.0	102.048	98.388	89.632	77.434	67.274	71.636	75.011	76.114	76.498
63.5	101.346	97.770	88.964	76.699	66.606	70.800	74.159	75.396	75.613
64.0	100.795	97.235	88.346	75.997	65.921	70.048	73.273	74.593	74.861
64.5	100.394	96.634	87.611	75.212	65.219	69.196	72.505	73.825	74.042
65.0	99.826	96.032	87.059	74.510	64.551	68.427	71.686	72.989	73.273
65.5	99.191	95.448	86.307	73.841	63.849	67.542	70.784	72.304	72.488
66.0	98.639	94.930	85.706	73.106	63.164	66.790	70.032	71.502	71.736
66.5	98.155	94.295	85.037	72.338	62.495	66.021	69.196	70.717	71.034
67.0	97.637	93.810	84.386	71.769	61.693	65.186	68.344	69.931	70.249
67.5	97.018	93.225	83.717	71.068	61.075	64.367	67.659	69.196	69.480
68.0	96.484	92.624	83.132	70.266	60.423	63.715	66.907	68.427	68.795
68.5	96.016	92.072	82.531	69.647	59.688	62.846	66.121	67.759	68.143
69.0	95.531	91.588	81.879	68.962	58.970	62.178	65.436	67.007	67.274
69.5	94.996	91.019	81.294	68.227	58.301	61.459	64.668	66.289	66.606
70.0	94.528	90.535	80.642	67.625	57.583	60.641	63.983	65.587	65.971
70.5	93.910	89.967	79.991	66.974	56.881	59.922	63.247	64.918	65.102
71.0	93.375	89.432	79.523	66.222	56.196	59.204	62.512	64.150	64.517
71.5	92.958	89.014	78.938	65.637	55.527	58.485	61.794	63.498	63.832
72.0	92.473	88.463	78.320	64.952	54.876	57.716	61.125	62.779	63.164
72.5	92.022	87.945	77.802	64.250	54.191	57.048	60.423	62.144	62.462
73.0	91.471	87.443	77.234	63.699	53.522	56.329	59.772	61.426	61.810
73.5	90.953	86.976	76.649	63.013	52.854	55.611	59.053	60.808	61.125
74.0	90.602	86.424	76.114	62.345	52.219	54.926	58.418	60.139	60.507
74.5	90.217	85.906	75.512	61.794	51.500	54.224	57.750	59.488	59.822
75.0	89.666	85.488	74.994	61.209	50.915	53.606	57.131	58.886	59.137
75.5	89.114	84.970	74.527	60.540	50.280	52.971	56.463	58.168	58.518
76.0	88.663	84.502	74.009	59.972	49.595	52.252	55.795	57.549	57.850
76.5	88.129	84.035	73.424	59.404	48.944	51.667	55.160	56.914	57.265
77.0	87.594	83.533	73.006	58.802	48.375	51.032	54.491	56.329	56.664
77.5	87.326	83.132	72.455	58.184	47.707	50.331	53.890	55.661	56.112
78.0	86.825	82.631	71.870	57.650	47.156	49.762	53.288	55.043	55.444
78.5	86.257	82.130	71.452	56.981	46.504	49.144	52.687	54.441	54.859
79.0	85.956	81.662	70.951	56.497	45.902	48.476	52.052	53.856	54.140
79.5	85.371	81.211	70.383	55.995	45.301	47.857	51.450	53.221	53.589
80.0	85.104	80.743	69.965	55.344	44.733	47.256	50.849	52.637	53.004
80.5	84.619	80.342	69.430	54.842	44.198	46.671	50.214	52.102	52.486
81.0	84.135	79.907	68.945	54.308	43.613	46.069	49.712	51.484	51.801
81.5	83.817	79.389	68.511	53.773	43.129	45.568	49.144	50.932	51.250
82.0	83.266	78.955	67.993	53.305	42.577	44.967	48.509	50.431	50.732
82.5	82.898	78.604	67.475	52.820	42.009	44.348	47.974	49.863	50.180

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PHOTOMETRIC FILENAME : FAB GRAY 3 LIGHT.IES**

**CANDELA TABULATION - (Cont.)**

<b>83.0</b>	82.347	78.086	67.074	52.269	41.458	43.847	47.440	49.295	49.595
<b>83.5</b>	81.946	77.718	66.623	51.768	40.956	43.329	46.872	48.710	49.010
<b>84.0</b>	81.595	77.317	66.121	51.350	40.438	42.761	46.370	48.225	48.459
<b>84.5</b>	81.160	76.833	65.754	50.815	39.954	42.226	45.802	47.624	47.891
<b>85.0</b>	80.810	76.398	65.319	50.381	39.502	41.691	45.318	47.139	47.490
<b>85.5</b>	80.425	75.997	64.835	49.929	38.968	41.123	44.850	46.604	46.905
<b>86.0</b>	80.024	75.579	64.417	49.445	38.533	40.672	44.248	45.969	46.487
<b>86.5</b>	79.606	75.245	64.083	49.027	38.049	40.154	43.747	45.501	45.802
<b>87.0</b>	79.155	74.827	63.598	48.710	37.614	39.670	43.296	45.067	45.334
<b>87.5</b>	78.788	74.393	63.247	48.208	37.280	39.218	42.794	44.515	44.900
<b>88.0</b>	78.437	74.142	62.896	47.891	36.779	38.767	42.360	44.064	44.348
<b>88.5</b>	78.052	73.758	62.512	47.540	36.478	38.316	41.892	43.613	43.864
<b>89.0</b>	77.986	73.541	62.228	47.156	36.127	37.999	41.441	43.095	43.312
<b>89.5</b>	78.019	73.524	62.228	47.122	35.876	37.664	41.023	42.677	42.895
<b>90.0</b>	77.869	73.624	62.345	47.189	36.010	37.581	40.856	42.427	42.611
<b>90.5</b>	78.119	73.725	62.362	47.239	36.010	37.614	40.756	42.293	42.527
<b>91.0</b>	78.336	73.791	62.462	47.339	35.977	37.614	40.672	42.226	42.443
<b>91.5</b>	78.403	73.992	62.546	47.440	36.094	37.631	40.655	42.193	42.293
<b>92.0</b>	78.537	73.975	62.713	47.406	36.110	37.631	40.572	42.059	42.243
<b>92.5</b>	78.637	74.109	62.779	47.540	36.211	37.581	40.505	41.925	42.126
<b>93.0</b>	78.771	74.226	62.779	47.657	36.177	37.481	40.505	41.875	42.059
<b>93.5</b>	78.971	74.309	63.013	47.707	36.344	37.497	40.505	41.808	41.942
<b>94.0</b>	79.055	74.476	63.080	47.841	36.311	37.464	40.355	41.742	41.808
<b>94.5</b>	79.172	74.527	63.181	47.874	36.394	37.380	40.405	41.625	41.608
<b>95.0</b>	79.423	74.644	63.247	47.958	36.394	37.380	40.288	41.391	41.491
<b>95.5</b>	79.389	74.827	63.331	48.058	36.445	37.364	40.204	41.324	41.441
<b>96.0</b>	79.590	74.911	63.448	48.125	36.478	37.330	40.121	41.240	41.224
<b>96.5</b>	79.690	74.994	63.648	48.175	36.578	37.280	40.020	41.056	41.123
<b>97.0</b>	79.807	75.111	63.615	48.292	36.561	37.247	39.970	40.940	40.906
<b>97.5</b>	79.891	75.212	63.715	48.426	36.578	37.163	39.920	40.906	40.823
<b>98.0</b>	80.074	75.228	63.832	48.409	36.712	37.196	39.770	40.739	40.689
<b>98.5</b>	80.091	75.379	63.916	48.559	36.729	37.096	39.720	40.622	40.522
<b>99.0</b>	80.191	75.479	63.916	48.693	36.779	36.996	39.686	40.488	40.388
<b>99.5</b>	80.308	75.512	64.033	48.643	36.812	36.996	39.502	40.355	40.154
<b>100.0</b>	80.342	75.596	64.083	48.743	36.896	36.929	39.469	40.238	40.054
<b>100.5</b>	80.475	75.613	64.100	48.827	36.912	36.879	39.419	40.071	39.887
<b>101.0</b>	80.459	75.663	64.166	48.927	36.996	36.812	39.319	39.887	39.720
<b>101.5</b>	80.642	75.696	64.233	48.960	37.029	36.695	39.202	39.787	39.486
<b>102.0</b>	80.576	75.746	64.217	49.044	37.163	36.662	39.085	39.603	39.419
<b>102.5</b>	80.626	75.746	64.233	49.061	37.163	36.612	38.934	39.436	39.252
<b>103.0</b>	80.642	75.797	64.267	49.127	37.263	36.478	38.801	39.302	39.101
<b>103.5</b>	80.642	75.813	64.233	49.228	37.230	36.428	38.700	39.202	38.801
<b>104.0</b>	80.776	75.830	64.166	49.127	37.263	36.344	38.550	39.035	38.734
<b>104.5</b>	80.810	75.897	64.183	49.228	37.297	36.244	38.349	38.834	38.466
<b>105.0</b>	80.659	75.914	64.150	49.278	37.397	36.144	38.166	38.717	38.283
<b>105.5</b>	80.743	75.813	64.133	49.178	37.430	36.060	37.982	38.500	38.065
<b>106.0</b>	80.810	75.830	64.183	49.211	37.380	35.993	37.798	38.266	37.932
<b>106.5</b>	80.776	75.863	64.150	49.211	37.430	35.910	37.631	38.099	37.714
<b>107.0</b>	80.826	75.863	64.100	49.194	37.380	35.843	37.430	37.848	37.547
<b>107.5</b>	80.776	75.813	64.083	49.178	37.380	35.743	37.263	37.648	37.263
<b>108.0</b>	80.776	75.797	64.049	49.261	37.430	35.542	37.079	37.313	36.979
<b>108.5</b>	80.810	75.780	64.083	49.178	37.364	35.509	36.912	37.113	36.678
<b>109.0</b>	80.659	75.763	63.999	49.178	37.397	35.325	36.729	36.829	36.495
<b>109.5</b>	80.709	75.646	63.916	49.111	37.313	35.275	36.545	36.612	36.077
<b>110.0</b>	80.626	75.663	63.866	49.111	37.364	35.191	36.361	36.277	35.943
<b>110.5</b>	80.642	75.529	63.866	49.094	37.297	35.091	36.127	36.110	35.525

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAB GRAY 3 LIGHT.IES**

**CANDELA TABULATION - (Cont.)**

111.0	80.542	75.546	63.799	49.144	37.313	34.991	35.977	35.826	35.225
111.5	80.492	75.496	63.799	49.077	37.230	34.907	35.709	35.592	35.074
112.0	80.292	75.462	63.732	49.061	37.213	34.740	35.542	35.292	34.707
112.5	80.342	75.396	63.598	49.010	37.247	34.690	35.392	35.058	34.372
113.0	80.308	75.295	63.598	48.960	37.230	34.540	35.208	34.807	34.072
113.5	80.208	75.212	63.515	48.893	37.180	34.473	34.941	34.456	33.838
114.0	80.074	75.162	63.398	48.893	37.163	34.389	34.774	34.272	33.570
114.5	80.108	75.061	63.348	48.810	37.146	34.222	34.606	33.888	33.236
115.0	79.907	74.944	63.197	48.743	37.063	34.122	34.256	33.520	32.852
115.5	79.840	74.961	63.130	48.693	37.079	33.988	34.172	33.186	32.551
116.0	79.673	74.727	62.997	48.576	36.946	33.971	33.888	32.735	32.200
116.5	79.690	74.660	62.913	48.559	36.996	33.771	33.604	32.384	31.849
117.0	79.473	74.543	62.779	48.476	36.912	33.704	33.487	32.066	31.248
117.5	79.289	74.376	62.729	48.392	36.829	33.587	33.303	31.615	30.930
118.0	79.189	74.259	62.529	48.258	36.762	33.437	33.036	31.281	30.395
118.5	79.038	74.192	62.429	48.192	36.662	33.320	32.802	30.914	30.011
119.0	78.838	73.975	62.312	48.158	36.612	33.219	32.668	30.529	29.543
119.5	78.671	73.875	62.195	48.075	36.612	33.119	32.367	30.095	29.042
120.0	78.520	73.775	62.094	47.941	36.495	33.002	32.234	29.644	28.591
120.5	78.403	73.507	61.961	47.774	36.411	32.835	31.983	29.243	28.156
121.0	78.236	73.390	61.760	47.774	36.277	32.718	31.716	28.875	27.705
121.5	77.935	73.273	61.593	47.690	36.277	32.551	31.599	28.507	27.237
122.0	77.802	73.023	61.476	47.490	36.227	32.417	31.365	28.090	26.753
122.5	77.568	72.856	61.359	47.373	36.094	32.367	31.147	27.739	26.352
123.0	77.384	72.705	61.142	47.323	36.010	32.167	30.964	27.354	25.901
123.5	77.133	72.388	60.958	47.105	35.943	32.066	30.780	27.020	25.349
124.0	77.100	72.154	60.841	47.039	35.910	31.966	30.479	26.619	24.981
124.5	76.682	71.987	60.657	46.922	35.776	31.799	30.329	26.285	24.580
125.0	76.398	71.719	60.490	46.788	35.659	31.766	30.178	25.917	24.163
125.5	76.114	71.502	60.240	46.604	35.576	31.615	29.994	25.600	23.845
126.0	75.780	71.201	60.056	46.504	35.542	31.548	29.877	25.316	23.494
126.5	75.646	70.917	59.839	46.337	35.459	31.465	29.660	24.981	23.143
127.0	75.145	70.700	59.655	46.253	35.408	31.381	29.410	24.714	22.792
127.5	74.811	70.366	59.404	46.103	35.342	31.248	29.276	24.480	22.525
128.0	74.577	70.065	59.187	45.919	35.225	31.214	29.126	24.113	22.224
128.5	74.209	69.731	58.953	45.819	35.225	31.181	28.908	23.812	21.940
129.0	73.841	69.547	58.752	45.635	35.074	31.030	28.741	23.478	21.656
129.5	73.591	69.179	58.468	45.518	35.007	30.930	28.624	23.193	21.472
130.0	73.106	68.945	58.234	45.284	34.941	30.746	28.323	22.926	21.205
130.5	72.822	68.611	57.967	45.167	34.941	30.696	28.206	22.675	20.854
131.0	72.488	68.277	57.716	45.067	34.774	30.596	28.039	22.442	20.704
131.5	72.204	67.993	57.499	44.850	34.707	30.529	27.839	22.124	20.553
132.0	71.719	67.659	57.182	44.800	34.657	30.462	27.672	21.890	20.269
132.5	71.285	67.224	56.948	44.549	34.556	30.362	27.555	21.639	20.019
133.0	70.984	66.907	56.680	44.348	34.406	30.262	27.354	21.422	19.968
133.5	70.533	66.573	56.396	44.215	34.389	30.178	27.204	21.255	19.718
134.0	70.165	66.172	56.129	44.014	34.239	30.145	27.020	21.021	19.634
134.5	69.814	65.804	55.845	43.797	34.222	30.045	26.903	20.771	19.417
135.0	69.397	65.453	55.494	43.596	34.088	29.911	26.736	20.620	19.250
135.5	68.996	65.002	55.277	43.429	33.988	29.928	26.569	20.436	19.083
136.0	68.544	64.768	54.942	43.229	33.871	29.744	26.368	20.136	18.866
136.5	68.127	64.384	54.658	43.095	33.788	29.660	26.185	20.002	18.648
137.0	67.659	63.932	54.358	42.844	33.704	29.560	26.118	19.801	18.414
137.5	67.191	63.548	54.057	42.661	33.537	29.476	25.867	19.567	18.331
138.0	66.690	63.147	53.739	42.494	33.504	29.326	25.784	19.467	18.281
138.5	66.305	62.713	53.472	42.276	33.403	29.326	25.717	19.300	18.064

**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : FAB GRAY 3 LIGHT.IES**

**CANDELA TABULATION - (Cont.)**

139.0	65.804	62.362	53.121	42.026	33.219	29.276	25.483	19.066	17.930
139.5	65.370	61.911	52.787	41.825	33.136	29.159	25.366	18.932	17.763
140.0	65.035	61.510	52.336	41.658	33.086	29.126	25.249	18.749	17.596
140.5	64.567	61.025	52.102	41.341	32.885	28.975	25.032	18.615	17.445
141.0	64.100	60.707	51.734	41.224	32.818	28.858	24.965	18.381	17.245
141.5	63.699	60.173	51.433	40.956	32.685	28.841	24.798	18.214	17.078
142.0	63.214	59.772	51.049	40.689	32.518	28.741	24.664	18.013	16.877
142.5	62.629	59.354	50.732	40.488	32.417	28.624	24.580	17.930	16.677
143.0	62.161	58.869	50.364	40.221	32.300	28.591	24.463	17.662	16.626
143.5	61.660	58.385	49.963	39.954	32.167	28.440	24.263	17.512	16.476
144.0	61.192	57.934	49.612	39.753	31.983	28.323	24.230	17.378	16.376
144.5	60.691	57.466	49.261	39.536	31.866	28.357	24.196	17.278	16.259
145.0	60.156	57.065	48.944	39.202	31.716	28.223	24.012	17.061	16.175
145.5	59.671	56.597	48.576	39.018	31.615	28.106	23.895	16.977	16.159
146.0	59.120	56.095	48.175	38.767	31.448	27.973	23.845	16.860	16.259
146.5	58.635	55.577	47.757	38.500	31.264	27.922	23.695	16.610	16.242
147.0	58.151	55.126	47.440	38.232	31.097	27.822	23.711	16.493	16.192
147.5	57.650	54.558	47.055	37.965	31.047	27.739	23.561	16.393	16.242
148.0	57.048	54.090	46.638	37.714	30.830	27.622	23.461	16.259	16.276
148.5	56.480	53.639	46.287	37.430	30.746	27.521	23.377	16.108	16.309
149.0	55.878	53.188	45.869	37.196	30.546	27.455	23.344	15.958	16.393
149.5	55.460	52.670	45.468	36.862	30.362	27.404	23.244	15.891	16.476
150.0	54.892	52.102	45.067	36.628	30.162	27.237	23.160	15.774	16.459
150.5	54.341	51.667	44.649	36.361	30.061	27.204	23.110	15.707	16.560
151.0	53.806	51.066	44.282	36.027	29.877	27.070	23.010	15.691	16.677
151.5	53.322	50.581	43.897	35.793	29.710	27.003	22.926	15.557	16.610
152.0	52.620	50.130	43.446	35.559	29.560	26.870	22.859	15.407	16.576
152.5	52.052	49.545	43.078	35.208	29.359	26.803	22.726	15.390	16.643
153.0	51.617	48.994	42.577	34.857	29.226	26.719	22.742	15.323	16.626
153.5	50.949	48.509	42.226	34.590	29.025	26.586	22.709	15.306	16.693
154.0	50.381	47.974	41.775	34.322	28.858	26.469	22.575	15.273	16.643
154.5	49.762	47.406	41.307	33.988	28.708	26.352	22.575	15.273	16.610
155.0	49.144	46.821	40.906	33.671	28.557	26.218	22.475	15.256	16.610
155.5	48.593	46.253	40.488	33.336	28.357	26.118	22.341	15.290	16.710
156.0	48.058	45.752	40.037	33.103	28.156	26.051	22.341	15.306	16.710
156.5	47.323	45.201	39.553	32.735	28.039	25.901	22.341	15.240	16.810
157.0	46.872	44.683	39.168	32.384	27.772	25.800	22.241	15.106	16.777
157.5	46.220	44.114	38.684	32.066	27.555	25.633	22.208	15.039	16.693
158.0	45.635	43.496	38.299	31.799	27.404	25.550	22.191	14.922	16.693
158.5	45.117	43.012	37.898	31.432	27.154	25.416	22.107	14.705	16.677
159.0	44.465	42.477	37.380	31.097	26.953	25.232	22.074	14.621	16.693
159.5	43.864	41.875	36.946	30.813	26.753	25.182	22.040	14.421	16.710
160.0	43.245	41.274	36.478	30.395	26.535	24.998	21.924	14.404	16.693
160.5	42.694	40.722	36.043	30.078	26.352	24.931	21.823	14.320	16.677
161.0	42.042	40.121	35.542	29.777	26.168	24.764	21.723	14.287	16.810
161.5	41.341	39.553	35.124	29.343	25.917	24.631	21.573	14.087	16.877
162.0	40.689	38.984	34.556	28.975	25.717	24.463	21.422	13.953	16.961
162.5	40.071	38.400	34.122	28.691	25.600	24.346	21.188	13.802	16.961
163.0	39.452	37.781	33.654	28.307	25.282	24.179	20.670	13.702	16.994
163.5	38.784	37.230	33.136	27.973	25.149	24.012	20.119	13.452	17.094
164.0	38.232	36.612	32.685	27.655	24.948	23.962	19.434	13.034	17.044
164.5	37.547	35.977	32.200	27.204	24.697	23.762	18.582	12.666	16.727
165.0	36.896	35.342	31.716	26.853	24.463	23.444	17.796	12.482	16.225
165.5	36.194	34.774	31.214	26.452	24.246	23.077	16.961	12.399	15.557
166.0	35.592	34.155	30.696	26.134	23.962	22.492	15.958	12.332	14.788
166.5	34.874	33.504	30.111	25.784	23.645	21.690	15.123	12.165	13.702

**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : FAB GRAY 3 LIGHT.IES**

**CANDELA TABULATION - (Cont.)**

167.0	34.139	32.885	29.644	25.449	23.143	20.837	14.454	12.081	12.416
167.5	33.487	32.267	29.159	25.032	22.425	19.818	13.786	11.730	11.296
168.0	32.735	31.532	28.491	24.714	21.422	18.715	13.368	11.496	9.959
168.5	32.050	30.880	27.989	24.313	20.537	17.679	13.101	11.212	8.723
169.0	31.348	30.279	27.521	23.711	19.333	16.576	12.800	10.661	7.252
169.5	30.613	29.644	26.903	22.976	18.264	15.507	12.683	10.059	5.681
170.0	29.844	28.958	26.285	21.990	17.061	14.688	12.449	9.191	4.228
170.5	29.109	28.090	25.633	20.971	16.042	14.153	12.115	8.121	3.058
171.0	28.357	27.287	24.681	19.902	15.189	13.619	11.847	7.185	1.872
171.5	27.672	26.602	23.862	18.782	14.605	13.318	11.380	6.383	1.237
172.0	26.870	25.834	23.060	17.713	14.087	13.101	10.577	5.431	1.103
172.5	26.185	24.781	21.940	16.927	13.635	12.716	9.642	4.495	1.086
173.0	24.981	23.828	20.871	16.192	13.251	12.282	8.689	3.593	1.036
173.5	23.544	22.742	19.668	15.323	12.766	11.396	7.436	3.041	0.886
174.0	22.776	21.339	18.281	14.621	12.365	10.110	6.149	2.807	0.769
174.5	21.522	19.985	17.027	13.819	11.613	8.823	4.913	2.523	0.652
175.0	20.019	18.531	15.824	12.817	10.527	7.352	3.927	2.306	0.501
175.5	18.064	16.844	14.404	11.797	9.191	5.748	3.359	1.905	0.368
176.0	16.108	14.972	13.000	10.577	7.770	4.361	2.974	1.587	0.485
176.5	14.003	12.867	11.346	8.856	6.116	3.359	2.540	1.120	0.384
177.0	11.547	10.728	9.491	7.102	4.629	2.824	2.139	0.735	0.317
177.5	9.007	8.322	7.737	5.531	3.409	2.490	1.805	0.485	0.317
178.0	6.300	5.832	5.899	3.760	2.507	2.072	1.420	0.401	0.535
178.5	4.010	3.726	3.893	2.390	2.022	1.704	1.069	0.434	0.368
179.0	2.356	2.239	2.089	1.487	1.571	1.354	0.836	0.401	0.418
179.5	0.836	1.270	0.802	0.802	1.086	1.086	0.518	0.418	0.585
180.0	0.602	0.602	0.602	0.602	0.602	0.602	0.602	0.602	0.602



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAB GRAY 3 LIGHT.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	68.11	N.A.	7.40
0-30	156.42	N.A.	16.90
0-40	263.20	N.A.	28.50
0-60	450.37	N.A.	48.70
0-80	595.85	N.A.	64.40
0-90	654.63	N.A.	70.80
10-90	639.20	N.A.	69.10
20-40	195.09	N.A.	21.10
20-50	295.74	N.A.	32.00
40-70	264.30	N.A.	28.60
60-80	145.48	N.A.	15.70
70-80	68.35	N.A.	7.40
80-90	58.78	N.A.	6.40
90-110	107.47	N.A.	11.60
90-120	154.85	N.A.	16.70
90-130	194.45	N.A.	21.00
90-150	247.88	N.A.	26.80
90-180	270.49	N.A.	29.20
110-180	163.02	N.A.	17.60
0-180	925.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	15.43
10-20	52.68
20-30	88.30
30-40	106.78
40-50	100.65
50-60	86.52
60-70	77.13
70-80	68.35
80-90	58.78
90-100	54.77
100-110	52.70
110-120	47.38
120-130	39.60
130-140	31.04
140-150	22.40
150-160	14.34
160-170	7.05
170-180	1.23

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAB GRAY 3 LIGHT.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	112	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	100	94	89	85	85	94	89	85	81	80	76	73	71	68	66	63	61	59	54
2	90	81	74	68	68	85	77	70	65	69	64	59	61	57	53	54	51	48	44
3	82	71	63	56	56	77	67	60	54	60	54	49	54	49	44	47	44	40	37
4	75	63	54	47	47	70	60	51	45	53	47	41	48	42	38	42	38	34	31
5	69	56	47	40	40	65	53	45	39	48	41	36	43	37	33	38	33	30	27
6	63	50	41	35	35	60	48	40	34	43	36	31	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

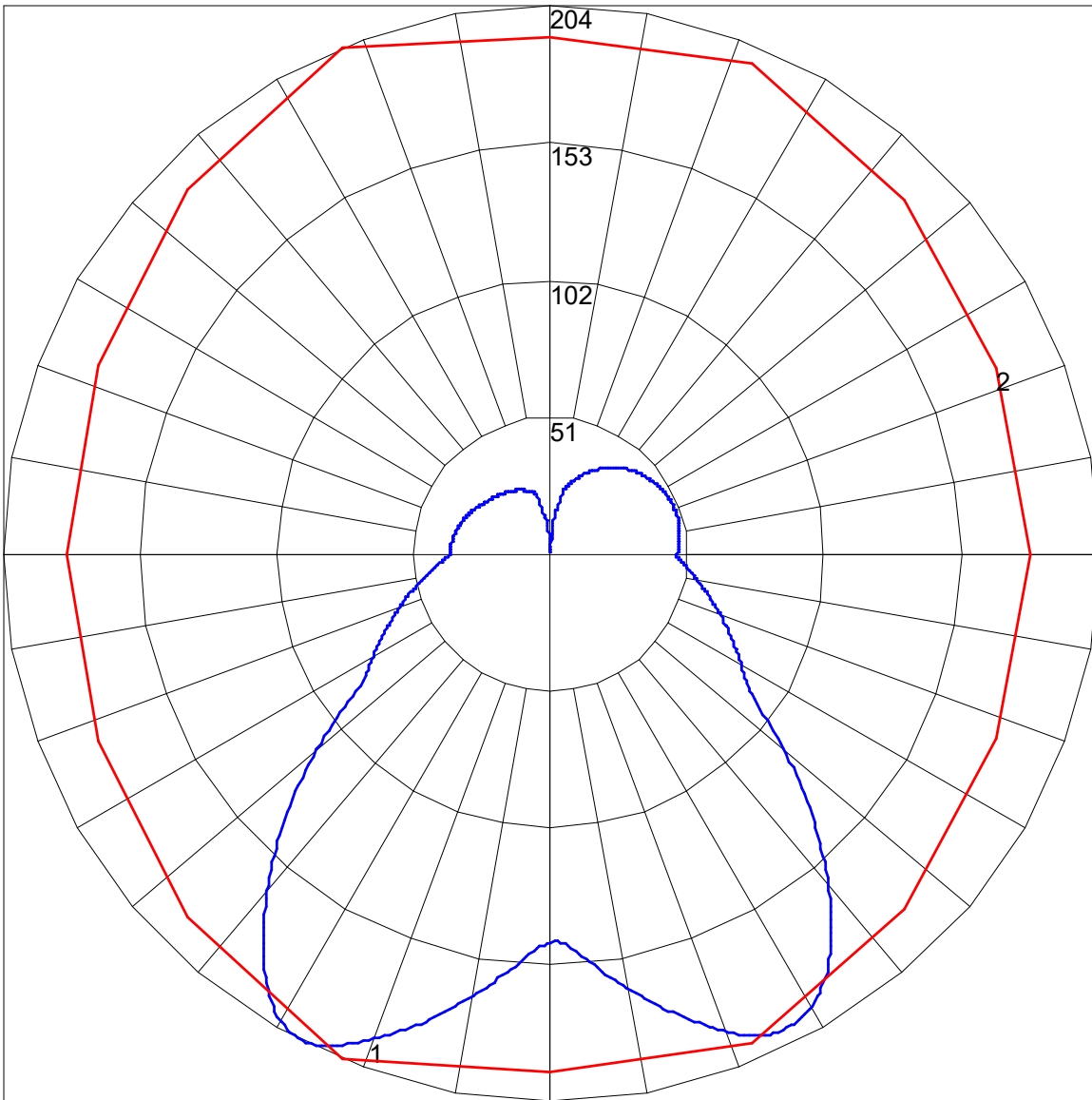
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAB GRAY 3 LIGHT.IES**

**UGR TABLE - CORRECTED**

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	12.6	13.7	13.3	14.5	15.4	9.1	10.3	9.9	11.1	12.0
	3H	15.4	16.4	16.1	17.2	18.2	11.0	12.0	11.7	12.8	13.8
	4H	16.8	17.8	17.6	18.6	19.5	11.8	12.8	12.5	13.5	14.5
	6H	18.3	19.2	19.1	20.0	21.0	12.5	13.4	13.3	14.2	15.2
	8H	19.0	19.9	19.8	20.7	21.7	12.8	13.7	13.6	14.5	15.5
	12H	19.8	20.6	20.6	21.4	22.5	13.1	14.0	13.9	14.8	15.8
4H	2H	12.9	13.9	13.7	14.7	15.7	10.1	11.1	10.9	11.9	12.9
	3H	15.9	16.7	16.7	17.6	18.6	12.1	13.0	12.9	13.8	14.8
	4H	17.5	18.3	18.3	19.1	20.1	13.1	13.9	13.9	14.7	15.7
	6H	19.1	19.8	19.9	20.7	21.7	13.9	14.6	14.8	15.5	16.5
	8H	20.0	20.6	20.8	21.5	22.5	14.3	15.0	15.2	15.8	16.9
	12H	20.9	21.5	21.7	22.3	23.4	14.7	15.3	15.6	16.2	17.2
8H	4H	17.6	18.3	18.5	19.2	20.2	13.8	14.4	14.6	15.3	16.3
	6H	19.5	20.0	20.3	20.9	22.0	14.9	15.4	15.7	16.3	17.3
	8H	20.5	21.0	21.3	21.8	22.9	15.4	15.9	16.2	16.8	17.8
	12H	21.5	22.0	22.4	22.9	24.0	15.9	16.3	16.7	17.2	18.3
12H	4H	17.7	18.3	18.5	19.1	20.2	14.0	14.6	14.8	15.4	16.5
	6H	19.5	20.0	20.4	20.9	22.0	15.1	15.7	16.0	16.5	17.6
	8H	20.6	21.0	21.4	21.9	23.0	15.8	16.2	16.6	17.1	18.2

Maximum UGR = 24.0

POLAR GRAPH



Maximum Candela = 204.296 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.)