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**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAL 1 LIGHT.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	465
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	7.48
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.56
Spacing Criterion (90-270)	1.74
Spacing Criterion (Diagonal)	1.54
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 m
Luminous Width (90-270)	0.17 m
Luminous Height	0.14 m

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2489	2377	4098
55	2099	1837	2660
65	1877	1560	1988
75	1742	1382	1732
85	1677	1280	1554

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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>	72.878	72.878	72.878	72.878	72.878	72.878	72.878	72.878	72.878
<b>0.5</b>	72.173	72.383	72.660	72.694	72.929	73.223	73.450	73.466	73.475
<b>1.0</b>	72.358	72.601	72.719	72.769	73.021	73.492	73.853	73.996	74.105
<b>1.5</b>	72.937	73.080	73.080	72.954	73.265	73.878	74.407	74.743	74.878
<b>2.0</b>	73.584	73.643	73.601	73.240	73.550	74.298	75.054	75.575	75.743
<b>2.5</b>	74.374	74.424	74.206	73.668	73.912	74.802	75.785	76.490	76.684
<b>3.0</b>	75.314	75.155	74.878	74.172	74.281	75.323	76.608	77.398	77.658
<b>3.5</b>	76.264	76.037	75.625	74.684	74.710	75.860	77.372	78.347	78.758
<b>4.0</b>	77.246	77.011	76.322	75.256	75.138	76.490	78.221	79.313	79.716
<b>4.5</b>	78.238	77.893	77.129	75.793	75.600	77.120	79.044	80.321	80.791
<b>5.0</b>	79.170	78.901	77.910	76.373	76.037	77.742	79.817	81.245	81.808
<b>5.5</b>	80.111	79.783	78.691	77.020	76.516	78.364	80.665	82.270	82.816
<b>6.0</b>	81.194	80.758	79.489	77.641	76.994	79.036	81.556	83.286	83.992
<b>6.5</b>	82.169	81.698	80.346	78.246	77.440	79.674	82.387	84.269	84.924
<b>7.0</b>	83.143	82.606	81.152	78.893	77.952	80.321	83.278	85.294	85.999
<b>7.5</b>	84.109	83.622	81.976	79.531	78.456	80.993	84.168	86.293	87.041
<b>8.0</b>	85.025	84.554	82.824	80.144	78.960	81.656	85.008	87.268	88.040
<b>8.5</b>	85.966	85.520	83.639	80.791	79.422	82.328	85.890	88.242	89.040
<b>9.0</b>	87.024	86.419	84.470	81.438	79.960	82.992	86.797	89.183	90.040
<b>9.5</b>	88.015	87.352	85.319	82.068	80.506	83.672	87.578	90.098	91.039
<b>10.0</b>	88.964	88.326	86.125	82.723	80.976	84.302	88.418	91.115	92.022
<b>10.5</b>	89.905	89.351	86.974	83.404	81.480	84.983	89.292	92.047	93.013
<b>11.0</b>	90.980	90.233	87.788	84.050	81.984	85.655	90.098	92.980	93.996
<b>11.5</b>	91.988	91.174	88.586	84.756	82.496	86.327	90.947	93.878	94.912
<b>12.0</b>	92.921	92.140	89.435	85.403	83.009	86.999	91.770	94.844	95.861
<b>12.5</b>	93.685	93.005	90.317	86.033	83.504	87.696	92.576	95.684	96.793
<b>13.0</b>	94.223	93.853	91.098	86.688	83.983	88.343	93.391	96.608	97.625
<b>13.5</b>	94.559	94.525	91.963	87.326	84.504	89.023	94.181	97.457	98.322
<b>14.0</b>	94.668	94.954	92.736	87.914	85.008	89.653	94.954	98.230	98.784
<b>14.5</b>	94.928	95.306	93.551	88.578	85.453	90.300	95.718	98.860	99.036
<b>15.0</b>	95.122	95.533	94.315	89.216	86.008	90.938	96.524	99.313	99.145
<b>15.5</b>	95.315	95.710	95.046	89.863	86.512	91.543	97.255	99.490	99.112
<b>16.0</b>	95.382	95.936	95.668	90.502	86.940	92.190	97.986	99.599	99.061
<b>16.5</b>	95.466	95.962	96.230	91.098	87.402	92.812	98.734	99.582	98.944
<b>17.0</b>	95.474	96.020	96.718	91.703	87.948	93.391	99.397	99.498	98.767
<b>17.5</b>	95.584	96.146	97.104	92.333	88.385	93.971	99.968	99.406	98.700
<b>18.0</b>	95.525	96.130	97.348	92.912	88.847	94.592	100.481	99.246	98.473
<b>18.5</b>	95.584	96.121	97.558	93.500	89.334	95.155	100.800	99.095	98.246
<b>19.0</b>	95.567	96.163	97.650	94.088	89.804	95.752	100.976	98.927	98.028
<b>19.5</b>	95.441	96.037	97.717	94.685	90.275	96.298	101.044	98.742	97.776
<b>20.0</b>	95.281	96.004	97.742	95.214	90.720	96.894	101.010	98.490	97.574
<b>20.5</b>	95.147	95.928	97.734	95.802	91.216	97.432	100.918	98.272	97.280
<b>21.0</b>	94.836	95.718	97.700	96.331	91.669	97.994	100.783	98.020	97.003
<b>21.5</b>	94.668	95.508	97.633	96.886	92.140	98.549	100.607	97.709	96.726
<b>22.0</b>	94.500	95.348	97.524	97.390	92.610	99.053	100.422	97.423	96.365
<b>22.5</b>	94.223	95.071	97.415	97.868	93.089	99.590	100.237	97.070	95.936
<b>23.0</b>	93.954	94.744	97.297	98.288	93.534	100.061	99.977	96.701	95.584
<b>23.5</b>	93.568	94.357	97.062	98.582	93.929	100.556	99.683	96.348	95.105
<b>24.0</b>	93.198	93.954	96.852	98.834	94.399	101.018	99.397	95.869	94.618
<b>24.5</b>	92.879	93.626	96.608	99.053	94.811	101.472	99.078	95.340	94.181
<b>25.0</b>	92.492	93.181	96.272	99.229	95.231	101.867	98.717	94.895	93.685
<b>25.5</b>	92.064	92.761	95.953	99.364	95.651	102.169	98.372	94.357	93.122
<b>26.0</b>	91.594	92.282	95.558	99.397	96.012	102.438	97.919	93.778	92.585
<b>26.5</b>	91.148	91.787	95.147	99.498	96.398	102.606	97.507	93.223	91.946

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**CANDELA TABULATION - (Cont.)**

27.0	90.535	91.241	94.685	99.464	96.751	102.682	97.045	92.576	91.342
27.5	90.115	90.779	94.206	99.397	97.096	102.698	96.499	91.980	90.720
28.0	89.494	90.216	93.643	99.238	97.415	102.631	95.953	91.316	90.048
28.5	88.897	89.561	93.072	99.061	97.776	102.430	95.357	90.636	89.326
29.0	88.326	88.939	92.509	98.742	98.129	102.169	94.710	89.905	88.603
29.5	87.696	88.351	91.871	98.414	98.448	101.816	94.055	89.174	87.864
30.0	87.066	87.704	91.190	98.011	98.708	101.371	93.349	88.427	87.049
30.5	86.276	87.032	90.493	97.516	99.044	100.892	92.560	87.620	86.201
31.0	85.655	86.411	89.762	97.079	99.305	100.355	91.795	86.797	85.403
31.5	84.983	85.697	89.057	96.558	99.599	99.767	90.989	85.991	84.504
32.0	84.185	84.949	88.351	95.953	99.884	99.086	90.166	85.142	83.664
32.5	83.462	84.244	87.520	95.365	100.052	98.339	89.300	84.235	82.673
33.0	82.681	83.454	86.747	94.668	100.262	97.524	88.460	83.311	81.757
33.5	81.782	82.732	85.966	93.929	100.422	96.726	87.587	82.362	80.665
34.0	81.052	81.900	85.100	93.232	100.372	95.768	86.646	81.446	79.741
34.5	80.270	81.094	84.294	92.366	100.246	94.853	85.730	80.472	78.725
35.0	79.346	80.245	83.420	91.501	99.826	93.895	84.731	79.481	77.641
35.5	78.523	79.464	82.580	90.611	99.254	92.904	83.790	78.481	76.574
36.0	77.650	78.548	81.673	89.678	98.515	91.854	82.807	77.398	75.558
36.5	76.726	77.692	80.825	88.670	97.642	90.854	81.808	76.406	74.441
37.0	75.911	76.835	79.918	87.637	96.541	89.729	80.783	75.365	73.374
37.5	75.037	75.936	78.960	86.587	95.164	88.628	79.741	74.256	72.240
38.0	74.113	75.012	78.086	85.537	93.643	87.520	78.716	73.164	71.123
38.5	73.223	74.096	77.129	84.412	92.064	86.352	77.599	72.013	70.039
39.0	72.324	73.223	76.213	83.294	90.434	85.235	76.541	70.921	68.939
39.5	71.467	72.282	75.264	82.135	88.805	84.059	75.440	69.770	67.780
40.0	70.728	71.383	74.290	80.984	87.167	82.900	74.357	68.645	66.696
40.5	69.871	70.468	73.315	79.850	85.613	81.707	73.206	67.511	65.570
41.0	69.006	69.586	72.366	78.658	84.059	80.539	72.089	66.377	64.487
41.5	68.359	68.720	71.350	77.549	82.555	79.346	70.930	65.226	63.445
42.0	67.654	67.855	70.358	76.381	81.161	78.154	69.787	64.100	62.395
42.5	67.066	66.998	69.342	75.205	79.724	76.936	68.594	62.992	61.387
43.0	66.562	66.200	68.351	74.046	78.372	75.743	67.402	61.908	60.337
43.5	66.125	65.512	67.326	72.828	77.104	74.491	66.234	60.866	59.464
44.0	65.764	64.814	66.335	71.635	75.835	73.231	64.991	59.766	58.615
44.5	65.226	64.277	65.335	70.510	74.609	71.996	63.790	58.800	57.817
45.0	64.781	63.756	64.310	69.241	73.382	70.686	62.572	57.868	57.170
45.5	64.361	63.260	63.370	68.074	72.240	69.443	61.421	57.019	56.532
46.0	63.899	62.849	62.387	66.881	71.030	68.116	60.228	56.230	55.927
46.5	63.412	62.378	61.429	65.688	69.896	66.788	59.044	55.541	55.289
47.0	62.916	61.883	60.539	64.428	68.678	65.470	57.817	54.902	54.642
47.5	62.479	61.446	59.615	63.218	67.444	64.109	56.700	54.264	53.995
48.0	62.034	61.001	58.825	62.009	66.209	62.756	55.583	53.659	53.323
48.5	61.547	60.488	58.052	60.732	64.932	61.362	54.466	53.021	52.760
49.0	61.152	60.035	57.389	59.539	63.630	60.035	53.441	52.408	52.156
49.5	60.698	59.564	56.708	58.279	62.294	58.649	52.450	51.778	51.526
50.0	60.253	59.119	56.112	57.061	60.934	57.330	51.576	51.198	50.963
50.5	59.808	58.640	55.499	55.894	59.506	55.961	50.753	50.568	50.375
51.0	59.405	58.212	54.978	54.751	58.078	54.583	50.005	49.997	49.753
51.5	59.035	57.725	54.508	53.474	56.641	53.248	49.342	49.384	49.224
52.0	58.548	57.330	54.088	52.357	55.121	51.920	48.712	48.854	48.678
52.5	58.212	56.893	53.617	51.232	53.567	50.610	48.174	48.275	48.124
53.0	57.792	56.440	53.172	50.072	52.097	49.316	47.569	47.678	47.578
53.5	57.439	56.028	52.710	49.073	50.576	48.090	47.006	47.242	47.023
54.0	57.078	55.658	52.282	48.040	49.090	46.872	46.469	46.637	46.528
54.5	56.599	55.222	51.828	47.099	47.678	45.755	45.923	46.124	46.074

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**CANDELA TABULATION - (Cont.)**

55.0	56.221	54.886	51.391	46.250	46.242	44.621	45.385	45.587	45.536
55.5	55.969	54.508	50.946	45.545	44.890	43.562	44.848	45.100	45.091
56.0	55.625	54.121	50.534	44.822	43.529	42.672	44.310	44.604	44.587
56.5	55.280	53.735	50.072	44.243	42.260	41.824	43.789	44.125	44.100
57.0	54.986	53.424	49.661	43.621	41.076	41.177	43.302	43.630	43.646
57.5	54.634	53.004	49.249	43.033	39.900	40.664	42.798	43.151	43.193
58.0	54.356	52.668	48.812	42.605	38.808	40.244	42.260	42.697	42.731
58.5	53.970	52.357	48.443	42.277	37.850	39.799	41.782	42.227	42.244
59.0	53.710	52.004	48.056	41.882	37.036	39.388	41.311	41.748	41.815
59.5	53.382	51.668	47.653	41.538	36.364	38.984	40.807	41.336	41.429
60.0	53.029	51.358	47.284	41.177	35.860	38.564	40.370	40.883	40.942
60.5	52.718	51.038	46.922	40.807	35.440	38.119	39.900	40.412	40.564
61.0	52.441	50.711	46.544	40.421	35.095	37.682	39.421	40.001	40.076
61.5	52.214	50.425	46.116	40.076	34.784	37.271	39.001	39.564	39.715
62.0	51.878	50.089	45.797	39.648	34.490	36.868	38.539	39.144	39.253
62.5	51.568	49.770	45.436	39.304	34.146	36.431	38.128	38.732	38.816
63.0	51.299	49.459	45.058	38.926	33.818	36.011	37.708	38.262	38.455
63.5	50.946	49.148	44.722	38.556	33.482	35.591	37.279	37.901	38.010
64.0	50.669	48.880	44.411	38.203	33.138	35.213	36.834	37.498	37.632
64.5	50.467	48.577	44.041	37.808	32.785	34.784	36.448	37.111	37.220
65.0	50.182	48.275	43.764	37.456	32.449	34.398	36.036	36.691	36.834
65.5	49.862	47.981	43.386	37.120	32.096	33.953	35.582	36.347	36.439
66.0	49.585	47.720	43.084	36.750	31.752	33.575	35.204	35.944	36.061
66.5	49.342	47.401	42.748	36.364	31.416	33.188	34.784	35.549	35.708
67.0	49.081	47.158	42.420	36.078	31.013	32.768	34.356	35.154	35.314
67.5	48.770	46.864	42.084	35.725	30.702	32.357	34.012	34.784	34.927
68.0	48.502	46.561	41.790	35.322	30.374	32.029	33.634	34.398	34.583
68.5	48.266	46.284	41.488	35.011	30.005	31.592	33.239	34.062	34.255
69.0	48.023	46.040	41.160	34.667	29.644	31.256	32.894	33.684	33.818
69.5	47.754	45.755	40.866	34.297	29.308	30.895	32.508	33.323	33.482
70.0	47.519	45.511	40.538	33.995	28.946	30.484	32.164	32.970	33.163
70.5	47.208	45.226	40.211	33.667	28.594	30.122	31.794	32.634	32.726
71.0	46.939	44.957	39.976	33.289	28.249	29.761	31.424	32.248	32.432
71.5	46.729	44.747	39.682	32.995	27.913	29.400	31.063	31.920	32.088
72.0	46.486	44.470	39.371	32.651	27.586	29.014	30.727	31.559	31.752
72.5	46.259	44.209	39.110	32.298	27.241	28.678	30.374	31.240	31.399
73.0	45.982	43.957	38.825	32.021	26.905	28.316	30.047	30.878	31.072
73.5	45.721	43.722	38.531	31.676	26.569	27.955	29.686	30.568	30.727
74.0	45.545	43.445	38.262	31.340	26.250	27.611	29.366	30.232	30.416
74.5	45.352	43.184	37.960	31.063	25.889	27.258	29.030	29.904	30.072
75.0	45.074	42.974	37.699	30.769	25.595	26.947	28.720	29.602	29.728
75.5	44.797	42.714	37.464	30.433	25.276	26.628	28.384	29.240	29.417
76.0	44.570	42.479	37.204	30.148	24.931	26.267	28.048	28.930	29.081
76.5	44.302	42.244	36.910	29.862	24.604	25.973	27.728	28.610	28.787
77.0	44.033	41.992	36.700	29.560	24.318	25.654	27.392	28.316	28.484
77.5	43.898	41.790	36.422	29.249	23.982	25.301	27.090	27.980	28.207
78.0	43.646	41.538	36.128	28.980	23.705	25.015	26.788	27.670	27.871
78.5	43.361	41.286	35.918	28.644	23.377	24.704	26.485	27.367	27.577
79.0	43.210	41.051	35.666	28.400	23.075	24.368	26.166	27.073	27.216
79.5	42.916	40.824	35.381	28.148	22.772	24.058	25.864	26.754	26.939
80.0	42.781	40.589	35.171	27.821	22.487	23.755	25.561	26.460	26.645
80.5	42.538	40.387	34.902	27.569	22.218	23.461	25.242	26.191	26.384
81.0	42.294	40.169	34.658	27.300	21.924	23.159	24.990	25.880	26.040
81.5	42.134	39.908	34.440	27.031	21.680	22.907	24.704	25.603	25.763
82.0	41.857	39.690	34.180	26.796	21.403	22.604	24.385	25.351	25.502
82.5	41.672	39.514	33.919	26.552	21.118	22.294	24.116	25.066	25.225

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**CANDELA TABULATION - (Cont.)**

83.0	41.395	39.253	33.718	26.275	20.840	22.042	23.848	24.780	24.931
83.5	41.194	39.068	33.491	26.023	20.588	21.781	23.562	24.486	24.637
84.0	41.017	38.867	33.239	25.813	20.328	21.496	23.310	24.242	24.360
84.5	40.799	38.623	33.054	25.544	20.084	21.227	23.024	23.940	24.074
85.0	40.622	38.405	32.836	25.326	19.858	20.958	22.781	23.696	23.873
85.5	40.429	38.203	32.592	25.099	19.589	20.672	22.546	23.428	23.579
86.0	40.228	37.993	32.382	24.856	19.370	20.446	22.243	23.108	23.369
86.5	40.018	37.825	32.214	24.646	19.127	20.185	21.991	22.873	23.024
87.0	39.791	37.615	31.970	24.486	18.908	19.942	21.764	22.655	22.789
87.5	39.606	37.397	31.794	24.234	18.740	19.715	21.512	22.378	22.571
88.0	39.430	37.271	31.618	24.074	18.488	19.488	21.294	22.151	22.294
88.5	39.236	37.078	31.424	23.898	18.337	19.261	21.059	21.924	22.050
89.0	39.203	36.968	31.282	23.705	18.161	19.102	20.832	21.664	21.773
89.5	39.220	36.960	31.282	23.688	18.035	18.934	20.622	21.454	21.563
90.0	39.144	37.010	31.340	23.722	18.102	18.892	20.538	21.328	21.420
90.5	39.270	37.061	31.349	23.747	18.102	18.908	20.488	21.260	21.378
91.0	39.379	37.094	31.399	23.797	18.085	18.908	20.446	21.227	21.336
91.5	39.413	37.195	31.441	23.848	18.144	18.917	20.437	21.210	21.260
92.0	39.480	37.187	31.525	23.831	18.152	18.917	20.395	21.143	21.235
92.5	39.530	37.254	31.559	23.898	18.203	18.892	20.362	21.076	21.176
93.0	39.598	37.313	31.559	23.957	18.186	18.841	20.362	21.050	21.143
93.5	39.698	37.355	31.676	23.982	18.270	18.850	20.362	21.017	21.084
94.0	39.740	37.439	31.710	24.049	18.253	18.833	20.286	20.983	21.017
94.5	39.799	37.464	31.760	24.066	18.295	18.791	20.311	20.924	20.916
95.0	39.925	37.523	31.794	24.108	18.295	18.791	20.252	20.807	20.857
95.5	39.908	37.615	31.836	24.158	18.320	18.782	20.210	20.773	20.832
96.0	40.009	37.657	31.895	24.192	18.337	18.766	20.168	20.731	20.723
96.5	40.060	37.699	31.996	24.217	18.388	18.740	20.118	20.639	20.672
97.0	40.118	37.758	31.979	24.276	18.379	18.724	20.093	20.580	20.563
97.5	40.160	37.808	32.029	24.343	18.388	18.682	20.068	20.563	20.521
98.0	40.253	37.817	32.088	24.335	18.455	18.698	19.992	20.479	20.454
98.5	40.261	37.892	32.130	24.410	18.463	18.648	19.967	20.420	20.370
99.0	40.312	37.943	32.130	24.478	18.488	18.598	19.950	20.353	20.303
99.5	40.370	37.960	32.189	24.452	18.505	18.598	19.858	20.286	20.185
100.0	40.387	38.002	32.214	24.503	18.547	18.564	19.841	20.227	20.135
100.5	40.454	38.010	32.222	24.545	18.556	18.539	19.816	20.143	20.051
101.0	40.446	38.035	32.256	24.595	18.598	18.505	19.765	20.051	19.967
101.5	40.538	38.052	32.290	24.612	18.614	18.446	19.706	20.000	19.849
102.0	40.505	38.077	32.281	24.654	18.682	18.430	19.648	19.908	19.816
102.5	40.530	38.077	32.290	24.662	18.682	18.404	19.572	19.824	19.732
103.0	40.538	38.102	32.306	24.696	18.732	18.337	19.505	19.757	19.656
103.5	40.538	38.111	32.290	24.746	18.715	18.312	19.454	19.706	19.505
104.0	40.606	38.119	32.256	24.696	18.732	18.270	19.379	19.622	19.471
104.5	40.622	38.153	32.264	24.746	18.749	18.220	19.278	19.522	19.337
105.0	40.547	38.161	32.248	24.772	18.799	18.169	19.186	19.463	19.244
105.5	40.589	38.111	32.239	24.721	18.816	18.127	19.093	19.354	19.135
106.0	40.622	38.119	32.264	24.738	18.791	18.094	19.001	19.236	19.068
106.5	40.606	38.136	32.248	24.738	18.816	18.052	18.917	19.152	18.959
107.0	40.631	38.136	32.222	24.730	18.791	18.018	18.816	19.026	18.875
107.5	40.606	38.111	32.214	24.721	18.791	17.968	18.732	18.925	18.732
108.0	40.606	38.102	32.197	24.763	18.816	17.867	18.640	18.757	18.589
108.5	40.622	38.094	32.214	24.721	18.782	17.850	18.556	18.656	18.438
109.0	40.547	38.086	32.172	24.721	18.799	17.758	18.463	18.514	18.346
109.5	40.572	38.027	32.130	24.688	18.757	17.732	18.371	18.404	18.136
110.0	40.530	38.035	32.105	24.688	18.782	17.690	18.278	18.236	18.068
110.5	40.538	37.968	32.105	24.679	18.749	17.640	18.161	18.152	17.858

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**CANDELA TABULATION - (Cont.)**

111.0	40.488	37.976	32.071	24.704	18.757	17.590	18.085	18.010	17.707
111.5	40.463	37.951	32.071	24.671	18.715	17.548	17.951	17.892	17.632
112.0	40.362	37.934	32.038	24.662	18.707	17.464	17.867	17.741	17.447
112.5	40.387	37.901	31.970	24.637	18.724	17.438	17.791	17.623	17.279
113.0	40.370	37.850	31.970	24.612	18.715	17.363	17.699	17.497	17.128
113.5	40.320	37.808	31.928	24.578	18.690	17.329	17.564	17.321	17.010
114.0	40.253	37.783	31.870	24.578	18.682	17.287	17.480	17.228	16.876
114.5	40.270	37.733	31.844	24.536	18.673	17.203	17.396	17.035	16.708
115.0	40.169	37.674	31.769	24.503	18.631	17.153	17.220	16.850	16.514
115.5	40.135	37.682	31.735	24.478	18.640	17.086	17.178	16.682	16.363
116.0	40.051	37.565	31.668	24.419	18.572	17.077	17.035	16.456	16.187
116.5	40.060	37.531	31.626	24.410	18.598	16.976	16.892	16.279	16.010
117.0	39.950	37.472	31.559	24.368	18.556	16.943	16.834	16.120	15.708
117.5	39.858	37.388	31.534	24.326	18.514	16.884	16.741	15.893	15.548
118.0	39.808	37.330	31.433	24.259	18.480	16.808	16.607	15.725	15.280
118.5	39.732	37.296	31.382	24.226	18.430	16.750	16.489	15.540	15.086
119.0	39.631	37.187	31.324	24.209	18.404	16.699	16.422	15.347	14.851
119.5	39.547	37.136	31.265	24.167	18.404	16.649	16.271	15.128	14.599
120.0	39.472	37.086	31.214	24.100	18.346	16.590	16.204	14.902	14.372
120.5	39.413	36.952	31.147	24.016	18.304	16.506	16.078	14.700	14.154
121.0	39.329	36.893	31.046	24.016	18.236	16.447	15.943	14.515	13.927
121.5	39.178	36.834	30.962	23.974	18.236	16.363	15.884	14.330	13.692
122.0	39.110	36.708	30.904	23.873	18.211	16.296	15.767	14.120	13.448
122.5	38.993	36.624	30.845	23.814	18.144	16.271	15.658	13.944	13.247
123.0	38.900	36.548	30.736	23.789	18.102	16.170	15.565	13.751	13.020
123.5	38.774	36.389	30.643	23.680	18.068	16.120	15.473	13.583	12.743
124.0	38.758	36.271	30.584	23.646	18.052	16.069	15.322	13.381	12.558
124.5	38.548	36.187	30.492	23.587	17.984	15.985	15.246	13.213	12.356
125.0	38.405	36.053	30.408	23.520	17.926	15.968	15.170	13.028	12.146
125.5	38.262	35.944	30.282	23.428	17.884	15.893	15.078	12.869	11.987
126.0	38.094	35.792	30.190	23.377	17.867	15.859	15.019	12.726	11.810
126.5	38.027	35.650	30.080	23.293	17.825	15.817	14.910	12.558	11.634
127.0	37.775	35.540	29.988	23.251	17.800	15.775	14.784	12.424	11.458
127.5	37.607	35.372	29.862	23.176	17.766	15.708	14.717	12.306	11.323
128.0	37.489	35.221	29.753	23.083	17.707	15.691	14.641	12.121	11.172
128.5	37.304	35.053	29.635	23.033	17.707	15.674	14.532	11.970	11.029
129.0	37.120	34.961	29.534	22.940	17.632	15.599	14.448	11.802	10.886
129.5	36.994	34.776	29.392	22.882	17.598	15.548	14.389	11.659	10.794
130.0	36.750	34.658	29.274	22.764	17.564	15.456	14.238	11.525	10.660
130.5	36.607	34.490	29.140	22.705	17.564	15.431	14.179	11.399	10.483
131.0	36.439	34.322	29.014	22.655	17.480	15.380	14.095	11.281	10.408
131.5	36.296	34.180	28.904	22.546	17.447	15.347	13.994	11.122	10.332
132.0	36.053	34.012	28.745	22.520	17.422	15.313	13.910	11.004	10.189
132.5	35.834	33.793	28.627	22.394	17.371	15.263	13.852	10.878	10.063
133.0	35.683	33.634	28.493	22.294	17.296	15.212	13.751	10.769	10.038
133.5	35.456	33.466	28.350	22.226	17.287	15.170	13.675	10.685	9.912
134.0	35.272	33.264	28.216	22.126	17.212	15.154	13.583	10.567	9.870
134.5	35.095	33.079	28.073	22.016	17.203	15.103	13.524	10.441	9.761
135.0	34.885	32.903	27.896	21.916	17.136	15.036	13.440	10.366	9.677
135.5	34.684	32.676	27.787	21.832	17.086	15.044	13.356	10.273	9.593
136.0	34.457	32.558	27.619	21.731	17.027	14.952	13.255	10.122	9.484
136.5	34.247	32.365	27.476	21.664	16.985	14.910	13.163	10.055	9.374
137.0	34.012	32.138	27.325	21.538	16.943	14.860	13.129	9.954	9.257
137.5	33.776	31.945	27.174	21.445	16.859	14.818	13.003	9.836	9.215
138.0	33.524	31.744	27.014	21.361	16.842	14.742	12.961	9.786	9.190
138.5	33.331	31.525	26.880	21.252	16.792	14.742	12.928	9.702	9.080

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**CANDELA TABULATION - (Cont.)**

139.0	33.079	31.349	26.704	21.126	16.699	14.717	12.810	9.584	9.013
139.5	32.861	31.122	26.536	21.025	16.657	14.658	12.751	9.517	8.929
140.0	32.693	30.920	26.309	20.941	16.632	14.641	12.692	9.425	8.845
140.5	32.458	30.677	26.191	20.782	16.531	14.566	12.583	9.358	8.770
141.0	32.222	30.517	26.006	20.723	16.498	14.507	12.550	9.240	8.669
141.5	32.021	30.248	25.855	20.588	16.430	14.498	12.466	9.156	8.585
142.0	31.777	30.047	25.662	20.454	16.346	14.448	12.398	9.055	8.484
142.5	31.483	29.837	25.502	20.353	16.296	14.389	12.356	9.013	8.383
143.0	31.248	29.593	25.318	20.219	16.237	14.372	12.298	8.879	8.358
143.5	30.996	29.350	25.116	20.084	16.170	14.297	12.197	8.803	8.282
144.0	30.761	29.123	24.940	19.984	16.078	14.238	12.180	8.736	8.232
144.5	30.509	28.888	24.763	19.874	16.019	14.255	12.163	8.686	8.173
145.0	30.240	28.686	24.604	19.706	15.943	14.188	12.071	8.576	8.131
145.5	29.996	28.451	24.419	19.614	15.893	14.129	12.012	8.534	8.123
146.0	29.719	28.199	24.217	19.488	15.809	14.062	11.987	8.476	8.173
146.5	29.476	27.938	24.007	19.354	15.716	14.036	11.911	8.350	8.165
147.0	29.232	27.712	23.848	19.219	15.632	13.986	11.920	8.291	8.140
147.5	28.980	27.426	23.654	19.085	15.607	13.944	11.844	8.240	8.165
148.0	28.678	27.191	23.444	18.959	15.498	13.885	11.794	8.173	8.182
148.5	28.392	26.964	23.268	18.816	15.456	13.835	11.752	8.098	8.198
149.0	28.090	26.737	23.058	18.698	15.355	13.801	11.735	8.022	8.240
149.5	27.880	26.477	22.856	18.530	15.263	13.776	11.684	7.988	8.282
150.0	27.594	26.191	22.655	18.413	15.162	13.692	11.642	7.930	8.274
150.5	27.317	25.973	22.445	18.278	15.112	13.675	11.617	7.896	8.324
151.0	27.048	25.670	22.260	18.110	15.019	13.608	11.567	7.888	8.383
151.5	26.804	25.427	22.067	17.993	14.935	13.574	11.525	7.820	8.350
152.0	26.452	25.200	21.840	17.875	14.860	13.507	11.491	7.745	8.333
152.5	26.166	24.906	21.655	17.699	14.759	13.474	11.424	7.736	8.366
153.0	25.948	24.629	21.403	17.522	14.692	13.432	11.432	7.703	8.358
153.5	25.612	24.385	21.227	17.388	14.591	13.364	11.416	7.694	8.392
154.0	25.326	24.116	21.000	17.254	14.507	13.306	11.348	7.678	8.366
154.5	25.015	23.831	20.765	17.086	14.431	13.247	11.348	7.678	8.350
155.0	24.704	23.537	20.563	16.926	14.356	13.180	11.298	7.669	8.350
155.5	24.427	23.251	20.353	16.758	14.255	13.129	11.231	7.686	8.400
156.0	24.158	22.999	20.126	16.640	14.154	13.096	11.231	7.694	8.400
156.5	23.789	22.722	19.883	16.456	14.095	13.020	11.231	7.661	8.450
157.0	23.562	22.462	19.690	16.279	13.961	12.970	11.180	7.594	8.434
157.5	23.234	22.176	19.446	16.120	13.852	12.886	11.164	7.560	8.392
158.0	22.940	21.865	19.253	15.985	13.776	12.844	11.155	7.501	8.392
158.5	22.680	21.622	19.051	15.800	13.650	12.776	11.113	7.392	8.383
159.0	22.352	21.353	18.791	15.632	13.549	12.684	11.096	7.350	8.392
159.5	22.050	21.050	18.572	15.490	13.448	12.659	11.080	7.249	8.400
160.0	21.739	20.748	18.337	15.280	13.339	12.566	11.021	7.241	8.392
160.5	21.462	20.471	18.119	15.120	13.247	12.533	10.970	7.199	8.383
161.0	21.134	20.168	17.867	14.969	13.154	12.449	10.920	7.182	8.450
161.5	20.782	19.883	17.657	14.750	13.028	12.382	10.844	7.081	8.484
162.0	20.454	19.597	17.371	14.566	12.928	12.298	10.769	7.014	8.526
162.5	20.143	19.303	17.153	14.423	12.869	12.239	10.651	6.938	8.526
163.0	19.832	18.992	16.918	14.230	12.709	12.155	10.391	6.888	8.543
163.5	19.496	18.715	16.657	14.062	12.642	12.071	10.114	6.762	8.593
164.0	19.219	18.404	16.430	13.902	12.541	12.046	9.769	6.552	8.568
164.5	18.875	18.085	16.187	13.675	12.415	11.945	9.341	6.367	8.408
165.0	18.547	17.766	15.943	13.499	12.298	11.785	8.946	6.275	8.156
165.5	18.194	17.480	15.691	13.297	12.188	11.600	8.526	6.233	7.820
166.0	17.892	17.170	15.431	13.138	12.046	11.306	8.022	6.199	7.434
166.5	17.531	16.842	15.137	12.961	11.886	10.903	7.602	6.115	6.888



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**CANDELA TABULATION - (Cont.)**

167.0	17.161	16.531	14.902	12.793	11.634	10.475	7.266	6.073	6.241
167.5	16.834	16.220	14.658	12.583	11.273	9.962	6.930	5.897	5.678
168.0	16.456	15.851	14.322	12.424	10.769	9.408	6.720	5.779	5.006
168.5	16.111	15.523	14.070	12.222	10.324	8.887	6.586	5.636	4.385
169.0	15.758	15.221	13.835	11.920	9.719	8.333	6.434	5.359	3.646
169.5	15.389	14.902	13.524	11.550	9.181	7.795	6.376	5.057	2.856
170.0	15.002	14.557	13.213	11.054	8.576	7.384	6.258	4.620	2.125
170.5	14.633	14.120	12.886	10.542	8.064	7.115	6.090	4.082	1.537
171.0	14.255	13.717	12.407	10.004	7.636	6.846	5.956	3.612	0.941
171.5	13.910	13.373	11.995	9.442	7.342	6.695	5.720	3.209	0.622
172.0	13.507	12.986	11.592	8.904	7.081	6.586	5.317	2.730	0.554
172.5	13.163	12.457	11.029	8.509	6.854	6.392	4.847	2.260	0.546
173.0	12.558	11.978	10.492	8.140	6.661	6.174	4.368	1.806	0.521
173.5	11.836	11.432	9.887	7.703	6.418	5.729	3.738	1.529	0.445
174.0	11.449	10.727	9.190	7.350	6.216	5.082	3.091	1.411	0.386
174.5	10.819	10.046	8.560	6.947	5.838	4.435	2.470	1.268	0.328
175.0	10.063	9.316	7.955	6.443	5.292	3.696	1.974	1.159	0.252
175.5	9.080	8.467	7.241	5.930	4.620	2.890	1.688	0.958	0.185
176.0	8.098	7.526	6.535	5.317	3.906	2.192	1.495	0.798	0.244
176.5	7.039	6.468	5.704	4.452	3.074	1.688	1.277	0.563	0.193
177.0	5.804	5.393	4.771	3.570	2.327	1.420	1.075	0.370	0.160
177.5	4.528	4.183	3.889	2.780	1.714	1.252	0.907	0.244	0.160
178.0	3.167	2.932	2.965	1.890	1.260	1.042	0.714	0.202	0.269
178.5	2.016	1.873	1.957	1.201	1.016	0.857	0.538	0.218	0.185
179.0	1.184	1.126	1.050	0.748	0.790	0.680	0.420	0.202	0.210
179.5	0.420	0.638	0.403	0.403	0.546	0.546	0.260	0.210	0.294
180.0	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAL 1 LIGHT.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	34.24	N.A.	7.40
0-30	78.63	N.A.	16.90
0-40	132.31	N.A.	28.50
0-60	226.40	N.A.	48.70
0-80	299.53	N.A.	64.40
0-90	329.08	N.A.	70.80
10-90	321.32	N.A.	69.10
20-40	98.07	N.A.	21.10
20-50	148.67	N.A.	32.00
40-70	132.86	N.A.	28.60
60-80	73.13	N.A.	15.70
70-80	34.36	N.A.	7.40
80-90	29.55	N.A.	6.40
90-110	54.03	N.A.	11.60
90-120	77.84	N.A.	16.70
90-130	97.75	N.A.	21.00
90-150	124.61	N.A.	26.80
90-180	135.98	N.A.	29.20
110-180	81.95	N.A.	17.60
0-180	465.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	7.76
10-20	26.48
20-30	44.39
30-40	53.68
40-50	50.60
50-60	43.49
60-70	38.77
70-80	34.36
80-90	29.55
90-100	27.53
100-110	26.49
110-120	23.82
120-130	19.91
130-140	15.60
140-150	11.26
150-160	7.21
160-170	3.54
170-180	0.62

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAL 1 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

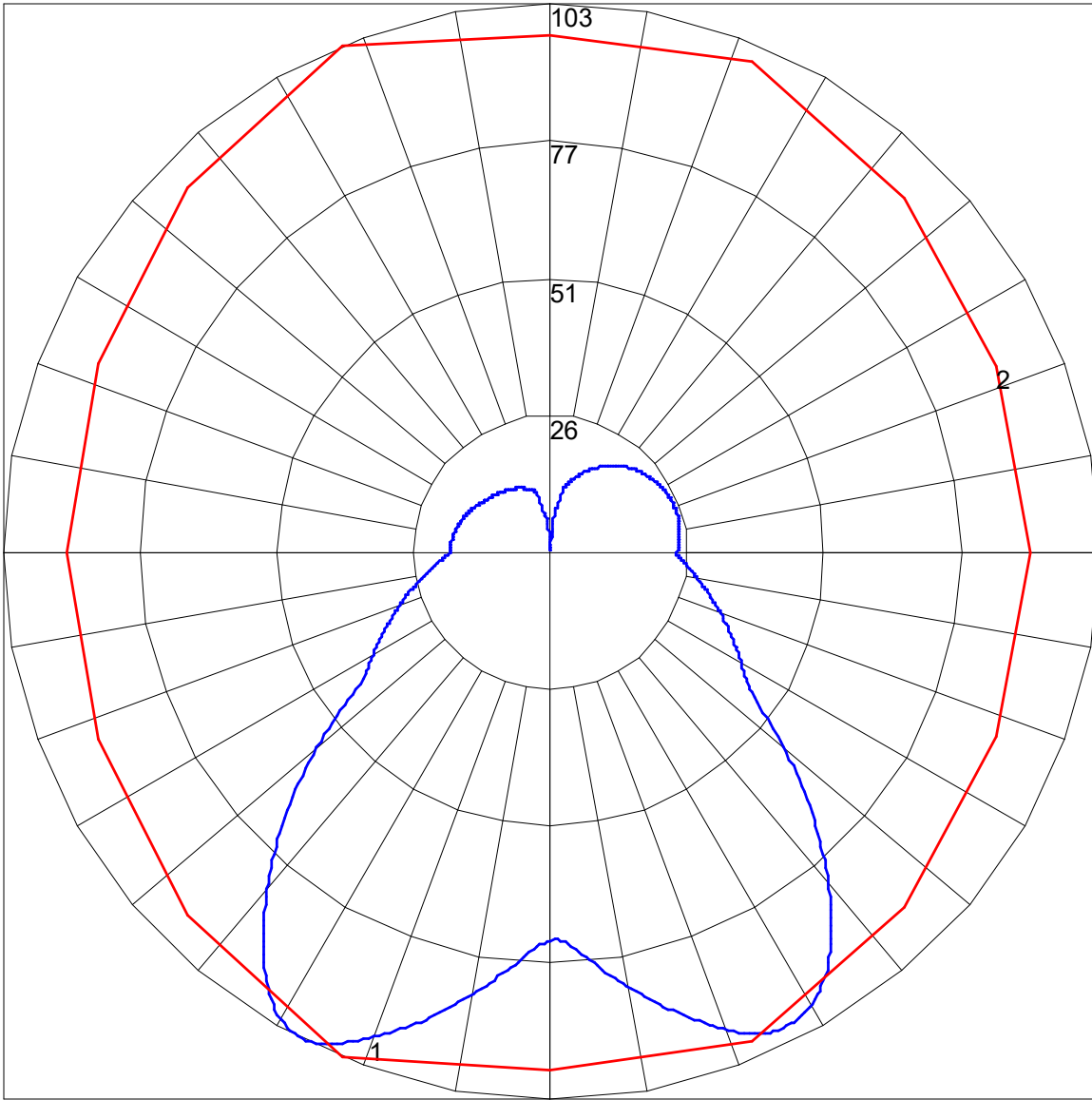
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAL 1 LIGHT.IES**

**UGR TABLE - CORRECTED**

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	12.1	13.2	12.8	14.0	14.9	10.3	11.5	11.0	12.2	13.2
	3H	14.4	15.5	15.1	16.2	17.2	12.1	13.2	12.9	14.0	14.9
	4H	15.5	16.5	16.3	17.3	18.3	13.0	14.0	13.7	14.8	15.7
	6H	16.6	17.6	17.4	18.4	19.3	13.7	14.7	14.5	15.5	16.4
	8H	17.2	18.0	17.9	18.9	19.9	14.1	14.9	14.9	15.8	16.8
	12H	17.7	18.5	18.5	19.3	20.4	14.4	15.2	15.2	16.0	17.1
4H	2H	12.6	13.6	13.4	14.4	15.4	11.1	12.1	11.9	12.9	13.9
	3H	15.2	16.1	16.0	16.9	17.9	13.2	14.1	14.0	14.9	15.9
	4H	16.5	17.3	17.3	18.1	19.1	14.2	15.0	15.0	15.8	16.8
	6H	17.8	18.5	18.6	19.3	20.4	15.1	15.8	15.9	16.6	17.6
	8H	18.4	19.1	19.2	19.9	21.0	15.5	16.1	16.3	17.0	18.0
	12H	19.0	19.6	19.9	20.5	21.5	15.9	16.5	16.7	17.3	18.4
8H	4H	16.8	17.5	17.7	18.4	19.4	14.8	15.4	15.6	16.3	17.3
	6H	18.4	18.9	19.2	19.8	20.8	15.9	16.5	16.7	17.3	18.4
	8H	19.1	19.7	20.0	20.5	21.6	16.4	16.9	17.3	17.8	18.9
	12H	19.9	20.4	20.8	21.3	22.4	17.0	17.4	17.8	18.3	19.4
12H	4H	16.9	17.5	17.7	18.4	19.4	14.9	15.5	15.8	16.4	17.4
	6H	18.5	19.0	19.3	19.8	20.9	16.1	16.6	17.0	17.5	18.6
	8H	19.3	19.8	20.2	20.7	21.8	16.8	17.2	17.6	18.1	19.2

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 102.698 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.)