



# The Perfect Lighting Choice.™

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## IES INDOOR REPORT PHOTOMETRIC FILENAME : FAL 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] LumenAria Faux Alabaster (FAL) 3-Light Bath Bar  
 [LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: FAL 3-Light  
 [MORE] Steel formed housing and three frosted resin lenses with white interior.  
 [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	1388
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
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	2476	2760	5874
55	2088	2177	4170
65	1867	1886	3470
75	1733	1707	3493
85	1669	1617	3909

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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>	217.507	217.507	217.507	217.507	217.507	217.507	217.507	217.507	217.507
<b>0.5</b>	215.401	216.028	216.855	216.956	217.658	218.535	219.212	219.262	219.287
<b>1.0</b>	215.953	216.680	217.031	217.181	217.934	219.337	220.415	220.842	221.168
<b>1.5</b>	217.683	218.109	218.109	217.733	218.661	220.491	222.070	223.073	223.474
<b>2.0</b>	219.613	219.789	219.663	218.585	219.513	221.744	224.000	225.555	226.056
<b>2.5</b>	221.970	222.120	221.468	219.864	220.591	223.248	226.182	228.287	228.864
<b>3.0</b>	224.778	224.301	223.474	221.368	221.694	224.803	228.638	230.995	231.772
<b>3.5</b>	227.611	226.934	225.705	222.897	222.973	226.407	230.920	233.828	235.056
<b>4.0</b>	230.544	229.842	227.786	224.602	224.251	228.287	233.452	236.711	237.914
<b>4.5</b>	233.502	232.474	230.193	226.207	225.630	230.168	235.909	239.719	241.123
<b>5.0</b>	236.285	235.483	232.524	227.936	226.934	232.023	238.215	242.477	244.157
<b>5.5</b>	239.093	238.115	234.856	229.867	228.363	233.878	240.747	245.536	247.165
<b>6.0</b>	242.327	241.023	237.237	231.722	229.792	235.884	243.405	248.569	250.675
<b>6.5</b>	245.235	243.831	239.795	233.527	231.120	237.789	245.887	251.502	253.458
<b>7.0</b>	248.143	246.538	242.201	235.457	232.650	239.719	248.544	254.561	256.667
<b>7.5</b>	251.026	249.572	244.658	237.363	234.154	241.725	251.201	257.544	259.775
<b>8.0</b>	253.759	252.355	247.190	239.193	235.658	243.705	253.708	260.452	262.759
<b>8.5</b>	256.566	255.238	249.622	241.123	237.037	245.711	256.341	263.360	265.742
<b>9.0</b>	259.725	257.920	252.104	243.054	238.641	247.692	259.048	266.168	268.725
<b>9.5</b>	262.683	260.703	254.636	244.934	240.271	249.722	261.380	268.901	271.709
<b>10.0</b>	265.516	263.611	257.043	246.889	241.675	251.603	263.887	271.934	274.642
<b>10.5</b>	268.324	266.670	259.575	248.920	243.179	253.633	266.494	274.717	277.600
<b>11.0</b>	271.533	269.302	262.007	250.850	244.683	255.639	268.901	277.500	280.533
<b>11.5</b>	274.542	272.110	264.388	252.956	246.212	257.644	271.433	280.182	283.266
<b>12.0</b>	277.324	274.993	266.920	254.887	247.742	259.650	273.890	283.065	286.099
<b>12.5</b>	279.606	277.575	269.553	256.767	249.221	261.731	276.296	285.572	288.882
<b>13.0</b>	281.210	280.107	271.884	258.722	250.650	263.661	278.728	288.330	291.364
<b>13.5</b>	282.213	282.113	274.466	260.628	252.204	265.692	281.085	290.862	293.444
<b>14.0</b>	282.539	283.391	276.773	262.383	253.708	267.572	283.391	293.169	294.823
<b>14.5</b>	283.316	284.444	279.205	264.363	255.037	269.502	285.673	295.049	295.575
<b>15.0</b>	283.893	285.121	281.486	266.268	256.692	271.408	288.079	296.403	295.901
<b>15.5</b>	284.469	285.648	283.667	268.199	258.196	273.213	290.260	296.929	295.801
<b>16.0</b>	284.670	286.324	285.522	270.104	259.474	275.143	292.442	297.255	295.651
<b>16.5</b>	284.921	286.400	287.202	271.884	260.853	276.998	294.673	297.205	295.300
<b>17.0</b>	284.946	286.575	288.656	273.689	262.483	278.728	296.653	296.954	294.773
<b>17.5</b>	285.272	286.951	289.809	275.569	263.787	280.458	298.358	296.678	294.572
<b>18.0</b>	285.096	286.901	290.536	277.299	265.165	282.313	299.887	296.202	293.896
<b>18.5</b>	285.272	286.876	291.163	279.054	266.619	283.993	300.840	295.751	293.219
<b>19.0</b>	285.221	287.001	291.439	280.809	268.023	285.773	301.366	295.249	292.567
<b>19.5</b>	284.845	286.625	291.639	282.589	269.427	287.402	301.567	294.698	291.815
<b>20.0</b>	284.369	286.525	291.715	284.168	270.756	289.182	301.467	293.946	291.213
<b>20.5</b>	283.968	286.299	291.689	285.923	272.235	290.787	301.191	293.294	290.336
<b>21.0</b>	283.040	285.673	291.589	287.503	273.589	292.467	300.790	292.542	289.508
<b>21.5</b>	282.539	285.046	291.389	289.157	274.993	294.121	300.263	291.614	288.681
<b>22.0</b>	282.037	284.570	291.063	290.662	276.397	295.625	299.712	290.762	287.603
<b>22.5</b>	281.210	283.742	290.737	292.091	277.826	297.230	299.160	289.709	286.324
<b>23.0</b>	280.408	282.765	290.386	293.344	279.154	298.634	298.383	288.606	285.272
<b>23.5</b>	279.255	281.611	289.684	294.222	280.333	300.113	297.506	287.553	283.843
<b>24.0</b>	278.152	280.408	289.057	294.974	281.737	301.492	296.653	286.124	282.388
<b>24.5</b>	277.199	279.430	288.330	295.625	282.965	302.846	295.701	284.544	281.085
<b>25.0</b>	276.046	278.102	287.327	296.152	284.219	304.024	294.623	283.216	279.606
<b>25.5</b>	274.767	276.848	286.375	296.553	285.472	304.926	293.595	281.611	277.926
<b>26.0</b>	273.363	275.419	285.196	296.653	286.550	305.729	292.241	279.881	276.322
<b>26.5</b>	272.035	273.940	283.968	296.954	287.703	306.230	291.013	278.227	274.416

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**CANDELA TABULATION - (Cont.)**

27.0	270.204	272.310	282.589	296.854	288.756	306.456	289.634	276.296	272.611
27.5	268.951	270.931	281.160	296.653	289.784	306.506	288.004	274.516	270.756
28.0	267.096	269.252	279.480	296.177	290.737	306.305	286.375	272.536	268.750
28.5	265.316	267.296	277.776	295.651	291.815	305.704	284.595	270.505	266.594
29.0	263.611	265.441	276.096	294.698	292.868	304.926	282.664	268.324	264.438
29.5	261.731	263.686	274.191	293.720	293.820	303.873	280.709	266.143	262.232
30.0	259.851	261.756	272.160	292.517	294.598	302.545	278.603	263.912	259.800
30.5	257.494	259.750	270.079	291.038	295.600	301.116	276.246	261.505	257.268
31.0	255.639	257.895	267.898	289.734	296.378	299.511	273.965	259.048	254.887
31.5	253.633	255.764	265.792	288.180	297.255	297.756	271.558	256.642	252.204
32.0	251.252	253.533	263.686	286.375	298.107	295.726	269.101	254.110	249.697
32.5	249.096	251.427	261.204	284.620	298.609	293.494	266.519	251.402	246.739
33.0	246.764	249.070	258.898	282.539	299.236	291.063	264.012	248.644	244.006
33.5	244.082	246.914	256.566	280.333	299.712	288.681	261.405	245.811	240.747
34.0	241.900	244.432	253.984	278.252	299.561	285.823	258.597	243.079	237.990
34.5	239.569	242.026	251.577	275.670	299.185	283.090	255.864	240.171	234.956
35.0	236.811	239.494	248.970	273.088	297.932	280.232	252.881	237.212	231.722
35.5	234.354	237.162	246.463	270.430	296.227	277.274	250.073	234.229	228.538
36.0	231.747	234.430	243.756	267.647	294.021	274.140	247.140	230.995	225.505
36.5	228.989	231.872	241.224	264.639	291.414	271.157	244.157	228.037	222.170
37.0	226.558	229.315	238.516	261.555	288.130	267.798	241.098	224.928	218.986
37.5	223.950	226.633	235.658	258.422	284.018	264.514	237.990	221.619	215.602
38.0	221.193	223.875	233.051	255.288	279.480	261.204	234.931	218.360	212.268
38.5	218.535	221.142	230.193	251.928	274.767	257.720	231.597	214.925	209.034
39.0	215.853	218.535	227.460	248.594	269.904	254.385	228.438	211.666	205.749
39.5	213.296	215.727	224.627	245.134	265.040	250.875	225.154	208.231	202.290
40.0	211.089	213.045	221.719	241.700	260.151	247.416	221.920	204.872	199.056
40.5	208.532	210.312	218.811	238.315	255.513	243.856	218.485	201.488	195.696
41.0	205.950	207.680	215.978	234.755	250.875	240.371	215.151	198.103	192.462
41.5	204.020	205.098	212.945	231.446	246.388	236.811	211.691	194.669	189.354
42.0	201.914	202.515	209.986	227.962	242.226	233.251	208.282	191.309	186.220
42.5	200.159	199.958	206.953	224.452	237.939	229.616	204.722	188.000	183.212
43.0	198.655	197.577	203.995	220.992	233.903	226.056	201.162	184.766	180.078
43.5	197.351	195.521	200.936	217.357	230.118	222.321	197.677	181.657	177.471
44.0	196.273	193.440	197.978	213.797	226.332	218.560	193.967	178.373	174.938
44.5	194.669	191.836	194.994	210.438	222.672	214.875	190.382	175.490	172.557
45.0	193.340	190.281	191.936	206.652	219.012	210.964	186.746	172.707	170.626
45.5	192.086	188.802	189.128	203.167	215.602	207.254	183.312	170.175	168.721
46.0	190.707	187.574	186.195	199.607	211.992	203.293	179.752	167.819	166.916
46.5	189.253	186.170	183.337	196.047	208.607	199.332	176.217	165.763	165.011
47.0	187.774	184.691	180.679	192.287	204.972	195.396	172.557	163.858	163.080
47.5	186.471	183.387	177.922	188.677	201.287	191.334	169.222	161.952	161.150
48.0	185.142	182.058	175.565	185.067	197.602	187.298	165.888	160.147	159.144
48.5	183.688	180.529	173.259	181.256	193.791	183.136	162.554	158.242	157.465
49.0	182.510	179.175	171.278	177.696	189.905	179.175	159.495	156.412	155.660
49.5	181.156	177.771	169.248	173.936	185.919	175.039	156.537	154.531	153.779
50.0	179.827	176.443	167.468	170.301	181.858	171.103	153.930	152.802	152.100
50.5	178.498	175.014	165.637	166.816	177.596	167.016	151.473	150.921	150.345
51.0	177.295	173.735	164.083	163.406	173.334	162.905	149.242	149.217	148.490
51.5	176.192	172.281	162.679	159.596	169.047	158.919	147.261	147.387	146.910
52.0	174.738	171.103	161.426	156.261	164.509	154.958	145.381	145.807	145.281
52.5	173.735	169.799	160.022	152.902	159.871	151.047	143.776	144.077	143.626
53.0	172.482	168.445	158.693	149.442	155.484	147.186	141.971	142.297	141.996
53.5	171.429	167.217	157.314	146.459	150.946	143.526	140.292	140.994	140.342
54.0	170.351	166.114	156.036	143.375	146.509	139.891	138.687	139.189	138.863
54.5	168.922	164.810	154.682	140.567	142.297	136.556	137.058	137.659	137.509

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**CANDELA TABULATION - (Cont.)**

55.0	167.794	163.807	153.378	138.035	138.010	133.172	135.453	136.055	135.904
55.5	167.041	162.679	152.050	135.930	133.974	130.013	133.849	134.601	134.576
56.0	166.014	161.526	150.821	133.774	129.913	127.356	132.244	133.122	133.072
56.5	164.986	160.373	149.442	132.044	126.127	124.824	130.690	131.693	131.617
57.0	164.108	159.445	148.214	130.189	122.592	122.893	129.236	130.214	130.264
57.5	163.055	158.192	146.985	128.434	119.082	121.364	127.732	128.785	128.910
58.0	162.228	157.189	145.682	127.155	115.823	120.110	126.127	127.431	127.531
58.5	161.075	156.261	144.579	126.177	112.965	118.782	124.698	126.027	126.077
59.0	160.298	155.208	143.425	124.999	110.534	117.553	123.294	124.598	124.798
59.5	159.320	154.206	142.222	123.971	108.528	116.350	121.790	123.369	123.645
60.0	158.267	153.278	141.119	122.893	107.024	115.096	120.486	122.016	122.191
60.5	157.339	152.325	140.041	121.790	105.770	113.768	119.082	120.612	121.063
61.0	156.512	151.348	138.913	120.637	104.742	112.464	117.654	119.383	119.609
61.5	155.835	150.495	137.634	119.609	103.815	111.236	116.400	118.080	118.531
62.0	154.832	149.492	136.682	118.330	102.937	110.032	115.021	116.826	117.152
62.5	153.905	148.540	135.604	117.303	101.910	108.729	113.793	115.598	115.848
63.0	153.102	147.612	134.475	116.174	100.932	107.475	112.539	114.194	114.770
63.5	152.050	146.685	133.473	115.071	99.929	106.222	111.261	113.116	113.442
64.0	151.222	145.882	132.545	114.018	98.901	105.093	109.932	111.912	112.314
64.5	150.621	144.980	131.442	112.840	97.848	103.815	108.779	110.759	111.085
65.0	149.768	144.077	130.615	111.787	96.845	102.662	107.550	109.506	109.932
65.5	148.816	143.200	129.487	110.784	95.792	101.333	106.197	108.478	108.754
66.0	147.988	142.423	128.584	109.681	94.765	100.205	105.068	107.275	107.626
66.5	147.261	141.470	127.581	108.528	93.762	99.052	103.815	106.096	106.573
67.0	146.484	140.743	126.603	107.676	92.558	97.798	102.536	104.918	105.394
67.5	145.556	139.866	125.601	106.623	91.631	96.570	101.508	103.815	104.241
68.0	144.754	138.963	124.723	105.419	90.653	95.592	100.380	102.662	103.213
68.5	144.052	138.136	123.821	104.492	89.550	94.288	99.202	101.659	102.235
69.0	143.325	137.409	122.843	103.464	88.472	93.285	98.174	100.531	100.932
69.5	142.523	136.556	121.966	102.361	87.469	92.207	97.021	99.453	99.929
70.0	141.821	135.829	120.988	101.458	86.391	90.979	95.993	98.400	98.976
70.5	140.893	134.977	120.010	100.481	85.338	89.901	94.890	97.397	97.673
71.0	140.091	134.175	119.308	99.352	84.310	88.823	93.787	96.244	96.795
71.5	139.464	133.548	118.431	98.475	83.308	87.745	92.709	95.266	95.767
72.0	138.737	132.721	117.503	97.447	82.330	86.592	91.706	94.188	94.765
72.5	138.060	131.943	116.726	96.394	81.302	85.589	90.653	93.235	93.712
73.0	137.233	131.191	115.874	95.567	80.299	84.511	89.675	92.157	92.734
73.5	136.456	130.489	114.996	94.539	79.296	83.433	88.597	91.230	91.706
74.0	135.930	129.662	114.194	93.536	78.344	82.405	87.645	90.227	90.778
74.5	135.353	128.885	113.291	92.709	77.266	81.352	86.642	89.249	89.751
75.0	134.526	128.258	112.514	91.831	76.388	80.425	85.714	88.347	88.723
75.5	133.698	127.481	111.812	90.829	75.436	79.472	84.712	87.269	87.795
76.0	133.021	126.779	111.035	89.976	74.408	78.394	83.709	86.341	86.792
76.5	132.219	126.077	110.158	89.124	73.430	77.516	82.756	85.388	85.915
77.0	131.417	125.325	109.531	88.221	72.578	76.564	81.753	84.511	85.012
77.5	131.016	124.723	108.704	87.294	71.575	75.511	80.851	83.508	84.185
78.0	130.264	123.971	107.826	86.491	70.748	74.658	79.948	82.581	83.182
78.5	129.411	123.219	107.199	85.489	69.770	73.731	79.046	81.678	82.305
79.0	128.960	122.517	106.447	84.762	68.867	72.728	78.093	80.801	81.227
79.5	128.083	121.840	105.595	84.010	67.965	71.800	77.191	79.848	80.399
80.0	127.682	121.138	104.968	83.032	67.112	70.898	76.288	78.970	79.522
80.5	126.954	120.537	104.166	82.280	66.310	70.021	75.335	78.168	78.745
81.0	126.227	119.885	103.439	81.477	65.433	69.118	74.583	77.241	77.717
81.5	125.751	119.108	102.787	80.675	64.706	68.366	73.731	76.413	76.890
82.0	124.924	118.456	102.010	79.973	63.878	67.463	72.778	75.661	76.113
82.5	124.372	117.929	101.233	79.246	63.026	66.536	71.976	74.809	75.285

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**PHOTOMETRIC FILENAME : FAL 3 LIGHT.IES**

**CANDELA TABULATION - (Cont.)**

<b>83.0</b>	123.545	117.152	100.631	78.419	62.199	65.784	71.174	73.956	74.408
<b>83.5</b>	122.943	116.601	99.954	77.667	61.447	65.007	70.321	73.079	73.530
<b>84.0</b>	122.417	115.999	99.202	77.040	60.669	64.154	69.569	72.352	72.703
<b>84.5</b>	121.765	115.272	98.650	76.238	59.942	63.352	68.717	71.449	71.851
<b>85.0</b>	121.239	114.620	97.999	75.586	59.265	62.550	67.990	70.722	71.249
<b>85.5</b>	120.662	114.018	97.272	74.909	58.463	61.697	67.288	69.920	70.371
<b>86.0</b>	120.060	113.392	96.645	74.182	57.811	61.020	66.385	68.968	69.745
<b>86.5</b>	119.433	112.890	96.143	73.555	57.084	60.243	65.633	68.266	68.717
<b>87.0</b>	118.757	112.263	95.416	73.079	56.433	59.516	64.956	67.614	68.015
<b>87.5</b>	118.205	111.612	94.890	72.327	55.931	58.839	64.204	66.786	67.363
<b>88.0</b>	117.679	111.236	94.363	71.851	55.179	58.162	63.552	66.110	66.536
<b>88.5</b>	117.102	110.659	93.787	71.324	54.728	57.486	62.850	65.433	65.809
<b>89.0</b>	117.002	110.333	93.361	70.748	54.201	57.009	62.174	64.656	64.981
<b>89.5</b>	117.052	110.308	93.361	70.697	53.825	56.508	61.547	64.029	64.355
<b>90.0</b>	116.826	110.458	93.536	70.798	54.026	56.382	61.296	63.653	63.928
<b>90.5</b>	117.202	110.609	93.561	70.873	54.026	56.433	61.146	63.452	63.803
<b>91.0</b>	117.528	110.709	93.712	71.023	53.976	56.433	61.020	63.352	63.678
<b>91.5</b>	117.628	111.010	93.837	71.174	54.151	56.458	60.995	63.302	63.452
<b>92.0</b>	117.829	110.985	94.088	71.124	54.176	56.458	60.870	63.101	63.377
<b>92.5</b>	117.979	111.185	94.188	71.324	54.327	56.382	60.770	62.901	63.201
<b>93.0</b>	118.180	111.361	94.188	71.500	54.277	56.232	60.770	62.825	63.101
<b>93.5</b>	118.481	111.486	94.539	71.575	54.527	56.257	60.770	62.725	62.926
<b>94.0</b>	118.606	111.737	94.639	71.775	54.477	56.207	60.544	62.625	62.725
<b>94.5</b>	118.782	111.812	94.790	71.826	54.602	56.082	60.619	62.449	62.424
<b>95.0</b>	119.158	111.988	94.890	71.951	54.602	56.082	60.444	62.098	62.249
<b>95.5</b>	119.108	112.263	95.015	72.101	54.678	56.057	60.318	61.998	62.174
<b>96.0</b>	119.408	112.389	95.191	72.202	54.728	56.006	60.193	61.873	61.848
<b>96.5</b>	119.559	112.514	95.492	72.277	54.878	55.931	60.043	61.597	61.697
<b>97.0</b>	119.734	112.690	95.441	72.452	54.853	55.881	59.967	61.421	61.371
<b>97.5</b>	119.860	112.840	95.592	72.653	54.878	55.756	59.892	61.371	61.246
<b>98.0</b>	120.135	112.865	95.767	72.628	55.079	55.806	59.667	61.121	61.045
<b>98.5</b>	120.161	113.091	95.893	72.853	55.104	55.655	59.591	60.945	60.795
<b>99.0</b>	120.311	113.241	95.893	73.054	55.179	55.505	59.541	60.745	60.594
<b>99.5</b>	120.486	113.291	96.068	72.979	55.229	55.505	59.265	60.544	60.243
<b>100.0</b>	120.537	113.417	96.143	73.129	55.355	55.405	59.215	60.369	60.093
<b>100.5</b>	120.737	113.442	96.169	73.255	55.380	55.329	59.140	60.118	59.842
<b>101.0</b>	120.712	113.517	96.269	73.405	55.505	55.229	58.990	59.842	59.591
<b>101.5</b>	120.988	113.567	96.369	73.455	55.555	55.054	58.814	59.692	59.240
<b>102.0</b>	120.888	113.642	96.344	73.580	55.756	55.004	58.639	59.416	59.140
<b>102.5</b>	120.963	113.642	96.369	73.606	55.756	54.928	58.413	59.165	58.889
<b>103.0</b>	120.988	113.718	96.419	73.706	55.906	54.728	58.213	58.965	58.664
<b>103.5</b>	120.988	113.743	96.369	73.856	55.856	54.653	58.062	58.814	58.213
<b>104.0</b>	121.188	113.768	96.269	73.706	55.906	54.527	57.836	58.564	58.112
<b>104.5</b>	121.239	113.868	96.294	73.856	55.956	54.377	57.536	58.263	57.711
<b>105.0</b>	121.013	113.893	96.244	73.931	56.107	54.226	57.260	58.087	57.435
<b>105.5</b>	121.138	113.743	96.219	73.781	56.157	54.101	56.984	57.761	57.109
<b>106.0</b>	121.239	113.768	96.294	73.831	56.082	54.001	56.708	57.410	56.909
<b>106.5</b>	121.188	113.818	96.244	73.831	56.157	53.875	56.458	57.160	56.583
<b>107.0</b>	121.264	113.818	96.169	73.806	56.082	53.775	56.157	56.784	56.332
<b>107.5</b>	121.188	113.743	96.143	73.781	56.082	53.625	55.906	56.483	55.906
<b>108.0</b>	121.188	113.718	96.093	73.906	56.157	53.324	55.630	55.981	55.480
<b>108.5</b>	121.239	113.692	96.143	73.781	56.057	53.274	55.380	55.680	55.029
<b>109.0</b>	121.013	113.667	96.018	73.781	56.107	52.998	55.104	55.254	54.753
<b>109.5</b>	121.088	113.492	95.893	73.681	55.981	52.923	54.828	54.928	54.126
<b>110.0</b>	120.963	113.517	95.818	73.681	56.057	52.797	54.552	54.427	53.926
<b>110.5</b>	120.988	113.316	95.818	73.656	55.956	52.647	54.201	54.176	53.299

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**CANDELA TABULATION - (Cont.)**

111.0	120.837	113.341	95.717	73.731	55.981	52.497	53.976	53.750	52.848
111.5	120.762	113.266	95.717	73.631	55.856	52.371	53.575	53.399	52.622
112.0	120.461	113.216	95.617	73.606	55.831	52.121	53.324	52.948	52.070
112.5	120.537	113.116	95.416	73.530	55.881	52.045	53.098	52.597	51.569
113.0	120.486	112.965	95.416	73.455	55.856	51.820	52.822	52.221	51.118
113.5	120.336	112.840	95.291	73.355	55.781	51.719	52.421	51.694	50.767
114.0	120.135	112.765	95.116	73.355	55.756	51.594	52.171	51.419	50.366
114.5	120.186	112.614	95.040	73.229	55.731	51.343	51.920	50.842	49.864
115.0	119.885	112.439	94.815	73.129	55.605	51.193	51.393	50.290	49.288
115.5	119.784	112.464	94.714	73.054	55.630	50.992	51.268	49.789	48.836
116.0	119.534	112.113	94.514	72.878	55.430	50.967	50.842	49.112	48.310
116.5	119.559	112.013	94.389	72.853	55.505	50.666	50.416	48.586	47.783
117.0	119.233	111.837	94.188	72.728	55.380	50.566	50.240	48.109	46.881
117.5	118.957	111.587	94.113	72.603	55.254	50.391	49.965	47.432	46.405
118.0	118.807	111.411	93.812	72.402	55.154	50.165	49.563	46.931	45.602
118.5	118.581	111.311	93.662	72.302	55.004	49.990	49.212	46.379	45.026
119.0	118.280	110.985	93.486	72.252	54.928	49.839	49.012	45.803	44.324
119.5	118.030	110.834	93.311	72.126	54.928	49.689	48.561	45.151	43.572
120.0	117.804	110.684	93.160	71.926	54.753	49.513	48.360	44.474	42.895
120.5	117.628	110.283	92.960	71.675	54.628	49.263	47.984	43.872	42.243
121.0	117.378	110.107	92.659	71.675	54.427	49.087	47.583	43.321	41.566
121.5	116.926	109.932	92.408	71.550	54.427	48.836	47.407	42.769	40.864
122.0	116.726	109.556	92.233	71.249	54.352	48.636	47.056	42.143	40.137
122.5	116.375	109.305	92.057	71.073	54.151	48.561	46.730	41.616	39.535
123.0	116.099	109.080	91.731	70.998	54.026	48.260	46.455	41.040	38.858
123.5	115.723	108.603	91.455	70.672	53.926	48.109	46.179	40.538	38.031
124.0	115.673	108.252	91.280	70.572	53.875	47.959	45.728	39.937	37.480
124.5	115.046	108.002	91.004	70.397	53.675	47.708	45.502	39.435	36.878
125.0	114.620	107.600	90.753	70.196	53.499	47.658	45.276	38.884	36.251
125.5	114.194	107.275	90.377	69.920	53.374	47.432	45.001	38.407	35.775
126.0	113.692	106.823	90.102	69.770	53.324	47.332	44.825	37.981	35.248
126.5	113.492	106.397	89.776	69.519	53.199	47.207	44.499	37.480	34.722
127.0	112.740	106.071	89.500	69.394	53.123	47.081	44.123	37.079	34.195
127.5	112.238	105.570	89.124	69.168	53.023	46.881	43.923	36.728	33.794
128.0	111.887	105.119	88.798	68.892	52.848	46.831	43.697	36.176	33.343
128.5	111.336	104.617	88.447	68.742	52.848	46.781	43.371	35.725	32.917
129.0	110.784	104.341	88.146	68.466	52.622	46.555	43.120	35.223	32.491
129.5	110.408	103.790	87.720	68.291	52.522	46.405	42.945	34.797	32.215
130.0	109.681	103.439	87.369	67.940	52.421	46.129	42.494	34.396	31.814
130.5	109.255	102.937	86.968	67.764	52.421	46.054	42.318	34.020	31.287
131.0	108.754	102.436	86.592	67.614	52.171	45.903	42.067	33.669	31.062
131.5	108.327	102.010	86.266	67.288	52.070	45.803	41.767	33.193	30.836
132.0	107.600	101.508	85.790	67.213	51.995	45.703	41.516	32.842	30.410
132.5	106.949	100.857	85.439	66.837	51.845	45.552	41.340	32.466	30.034
133.0	106.497	100.380	85.037	66.536	51.619	45.402	41.040	32.140	29.959
133.5	105.820	99.879	84.611	66.335	51.594	45.276	40.814	31.889	29.583
134.0	105.269	99.277	84.210	66.034	51.368	45.226	40.538	31.538	29.457
134.5	104.742	98.726	83.784	65.708	51.343	45.076	40.363	31.162	29.131
135.0	104.116	98.199	83.257	65.408	51.143	44.875	40.112	30.936	28.881
135.5	103.514	97.522	82.932	65.157	50.992	44.900	39.861	30.661	28.630
136.0	102.837	97.171	82.430	64.856	50.817	44.625	39.560	30.209	28.304
136.5	102.210	96.595	82.004	64.656	50.692	44.499	39.285	30.009	27.978
137.0	101.508	95.918	81.553	64.279	50.566	44.349	39.184	29.708	27.627
137.5	100.806	95.341	81.101	64.004	50.315	44.223	38.808	29.357	27.502
138.0	100.054	94.740	80.625	63.753	50.265	43.998	38.683	29.207	27.427
138.5	99.478	94.088	80.224	63.427	50.115	43.998	38.583	28.956	27.101

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**CANDELA TABULATION - (Cont.)**

139.0	98.726	93.561	79.698	63.051	49.839	43.923	38.232	28.605	26.900
139.5	98.074	92.884	79.196	62.750	49.714	43.747	38.056	28.404	26.649
140.0	97.572	92.283	78.519	62.500	49.639	43.697	37.881	28.129	26.399
140.5	96.870	91.556	78.168	62.023	49.338	43.471	37.555	27.928	26.173
141.0	96.169	91.079	77.617	61.848	49.237	43.296	37.455	27.577	25.872
141.5	95.567	90.277	77.165	61.447	49.037	43.271	37.204	27.326	25.622
142.0	94.840	89.675	76.589	61.045	48.786	43.120	37.003	27.025	25.321
142.5	93.962	89.049	76.113	60.745	48.636	42.945	36.878	26.900	25.020
143.0	93.260	88.322	75.561	60.343	48.460	42.895	36.702	26.499	24.945
143.5	92.508	87.595	74.959	59.942	48.260	42.669	36.402	26.273	24.719
144.0	91.806	86.918	74.433	59.642	47.984	42.494	36.351	26.073	24.569
144.5	91.054	86.216	73.906	59.316	47.808	42.544	36.301	25.922	24.393
145.0	90.252	85.614	73.430	58.814	47.583	42.343	36.026	25.596	24.268
145.5	89.525	84.912	72.878	58.538	47.432	42.168	35.850	25.471	24.243
146.0	88.698	84.160	72.277	58.162	47.182	41.967	35.775	25.296	24.393
146.5	87.971	83.383	71.650	57.761	46.906	41.892	35.549	24.920	24.368
147.0	87.244	82.706	71.174	57.360	46.655	41.742	35.574	24.744	24.293
147.5	86.491	81.854	70.597	56.959	46.580	41.616	35.349	24.594	24.368
148.0	85.589	81.152	69.970	56.583	46.254	41.441	35.198	24.393	24.418
148.5	84.737	80.475	69.444	56.157	46.129	41.290	35.073	24.167	24.468
149.0	83.834	79.798	68.817	55.806	45.828	41.190	35.023	23.942	24.594
149.5	83.207	79.021	68.215	55.304	45.552	41.115	34.872	23.842	24.719
150.0	82.355	78.168	67.614	54.953	45.251	40.864	34.747	23.666	24.694
150.5	81.528	77.516	66.987	54.552	45.101	40.814	34.672	23.566	24.844
151.0	80.725	76.614	66.435	54.051	44.825	40.613	34.521	23.541	25.020
151.5	79.998	75.887	65.859	53.700	44.574	40.513	34.396	23.340	24.920
152.0	78.945	75.210	65.182	53.349	44.349	40.313	34.296	23.115	24.869
152.5	78.093	74.333	64.630	52.822	44.048	40.212	34.095	23.089	24.970
153.0	77.441	73.505	63.878	52.296	43.847	40.087	34.120	22.989	24.945
153.5	76.438	72.778	63.352	51.895	43.547	39.886	34.070	22.964	25.045
154.0	75.586	71.976	62.675	51.494	43.296	39.711	33.870	22.914	24.970
154.5	74.658	71.124	61.973	50.992	43.070	39.535	33.870	22.914	24.920
155.0	73.731	70.246	61.371	50.516	42.845	39.335	33.719	22.889	24.920
155.5	72.904	69.394	60.745	50.015	42.544	39.184	33.519	22.939	25.070
156.0	72.101	68.642	60.068	49.664	42.243	39.084	33.519	22.964	25.070
156.5	70.998	67.814	59.341	49.112	42.067	38.858	33.519	22.864	25.220
157.0	70.321	67.037	58.764	48.586	41.666	38.708	33.368	22.663	25.170
157.5	69.344	66.185	58.037	48.109	41.340	38.457	33.318	22.563	25.045
158.0	68.466	65.257	57.460	47.708	41.115	38.332	33.293	22.388	25.045
158.5	67.689	64.530	56.859	47.157	40.739	38.131	33.168	22.062	25.020
159.0	66.711	63.728	56.082	46.655	40.438	37.856	33.117	21.936	25.045
159.5	65.809	62.825	55.430	46.229	40.137	37.780	33.067	21.635	25.070
160.0	64.881	61.923	54.728	45.602	39.811	37.505	32.892	21.610	25.045
160.5	64.054	61.096	54.076	45.126	39.535	37.404	32.741	21.485	25.020
161.0	63.076	60.193	53.324	44.675	39.260	37.154	32.591	21.435	25.220
161.5	62.023	59.341	52.697	44.023	38.884	36.953	32.365	21.134	25.321
162.0	61.045	58.488	51.845	43.471	38.583	36.702	32.140	20.933	25.446
162.5	60.118	57.611	51.193	43.045	38.407	36.527	31.789	20.708	25.446
163.0	59.190	56.683	50.491	42.469	37.931	36.276	31.012	20.557	25.496
163.5	58.187	55.856	49.714	41.967	37.730	36.026	30.184	20.181	25.647
164.0	57.360	54.928	49.037	41.491	37.430	35.950	29.156	19.555	25.571
164.5	56.332	53.976	48.310	40.814	37.053	35.650	27.878	19.003	25.095
165.0	55.355	53.023	47.583	40.287	36.702	35.173	26.700	18.727	24.343
165.5	54.302	52.171	46.831	39.686	36.377	34.622	25.446	18.602	23.340
166.0	53.399	51.243	46.054	39.209	35.950	33.744	23.942	18.502	22.187
166.5	52.321	50.265	45.176	38.683	35.474	32.541	22.688	18.251	20.557

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**CANDELA TABULATION - (Cont.)**

167.0	51.218	49.338	44.474	38.182	34.722	31.262	21.686	18.126	18.627
167.5	50.240	48.410	43.747	37.555	33.644	29.733	20.683	17.599	16.947
168.0	49.112	47.307	42.744	37.079	32.140	28.078	20.056	17.248	14.942
168.5	48.084	46.329	41.992	36.477	30.811	26.524	19.655	16.822	13.087
169.0	47.031	45.427	41.290	35.574	29.006	24.869	19.204	15.995	10.880
169.5	45.928	44.474	40.363	34.471	27.402	23.265	19.028	15.092	8.524
170.0	44.775	43.446	39.435	32.992	25.596	22.037	18.677	13.788	6.343
170.5	43.672	42.143	38.457	31.463	24.067	21.234	18.176	12.184	4.588
171.0	42.544	40.939	37.028	29.858	22.789	20.432	17.775	10.780	2.808
171.5	41.516	39.911	35.800	28.179	21.911	19.981	17.073	9.577	1.855
172.0	40.313	38.758	34.597	26.574	21.134	19.655	15.869	8.148	1.655
172.5	39.285	37.179	32.917	25.396	20.457	19.078	14.465	6.744	1.630
173.0	37.480	35.750	31.312	24.293	19.881	18.426	13.036	5.390	1.554
173.5	35.324	34.120	29.507	22.989	19.153	17.098	11.156	4.563	1.329
174.0	34.170	32.014	27.427	21.936	18.552	15.167	9.226	4.212	1.153
174.5	32.290	29.984	25.546	20.733	17.424	13.237	7.371	3.786	0.978
175.0	30.034	27.803	23.741	19.229	15.794	11.031	5.891	3.460	0.752
175.5	27.101	25.271	21.610	17.699	13.788	8.624	5.039	2.858	0.552
176.0	24.167	22.463	19.504	15.869	11.658	6.543	4.462	2.382	0.727
176.5	21.009	19.304	17.023	13.287	9.176	5.039	3.811	1.680	0.577
177.0	17.323	16.095	14.240	10.655	6.944	4.237	3.209	1.103	0.476
177.5	13.513	12.485	11.607	8.298	5.114	3.735	2.708	0.727	0.476
178.0	9.451	8.749	8.850	5.641	3.760	3.109	2.131	0.602	0.802
178.5	6.017	5.591	5.841	3.585	3.033	2.557	1.604	0.652	0.552
179.0	3.535	3.359	3.134	2.231	2.357	2.031	1.253	0.602	0.627
179.5	1.253	1.905	1.203	1.203	1.630	1.630	0.777	0.627	0.877
180.0	0.903	0.903	0.903	0.903	0.903	0.903	0.903	0.903	0.903



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAL 3 LIGHT.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	102.19	N.A.	7.40
0-30	234.67	N.A.	16.90
0-40	394.88	N.A.	28.50
0-60	675.69	N.A.	48.70
0-80	893.95	N.A.	64.40
0-90	982.15	N.A.	70.80
10-90	958.99	N.A.	69.10
20-40	292.69	N.A.	21.10
20-50	443.70	N.A.	32.00
40-70	396.53	N.A.	28.60
60-80	218.26	N.A.	15.70
70-80	102.54	N.A.	7.40
80-90	88.19	N.A.	6.40
90-110	161.24	N.A.	11.60
90-120	232.32	N.A.	16.70
90-130	291.74	N.A.	21.00
90-150	371.90	N.A.	26.80
90-180	405.82	N.A.	29.20
110-180	244.58	N.A.	17.60
0-180	1387.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	23.16
10-20	79.04
20-30	132.48
30-40	160.21
40-50	151.01
50-60	129.81
60-70	115.72
70-80	102.54
80-90	88.19
90-100	82.18
100-110	79.06
110-120	71.08
120-130	59.41
130-140	46.56
140-150	33.60
150-160	21.51
160-170	10.57
170-180	1.84

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAL 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	63	59	61	57	53	54	51	48	44
3	82	71	63	56	56	77	67	60	54	60	54	49	54	49	44	47	43	40	37
4	75	63	54	47	47	70	59	51	45	53	47	41	48	42	38	42	38	34	31
5	69	56	47	40	40	65	53	45	39	48	41	36	43	37	33	38	33	30	27
6	63	50	41	35	35	60	48	40	34	43	36	31	38	33	28	34	30	26	23
7	59	45	37	31	31	55	43	35	29	39	32	27	35	29	25	31	27	23	21
8	54	41	33	27	27	51	39	31	26	36	29	24	32	26	22	29	24	21	18
9	51	38	30	24	24	48	36	28	23	33	26	22	29	24	20	27	22	19	16
10	47	35	27	22	22	45	33	26	21	30	24	20	27	22	18	25	20	17	15

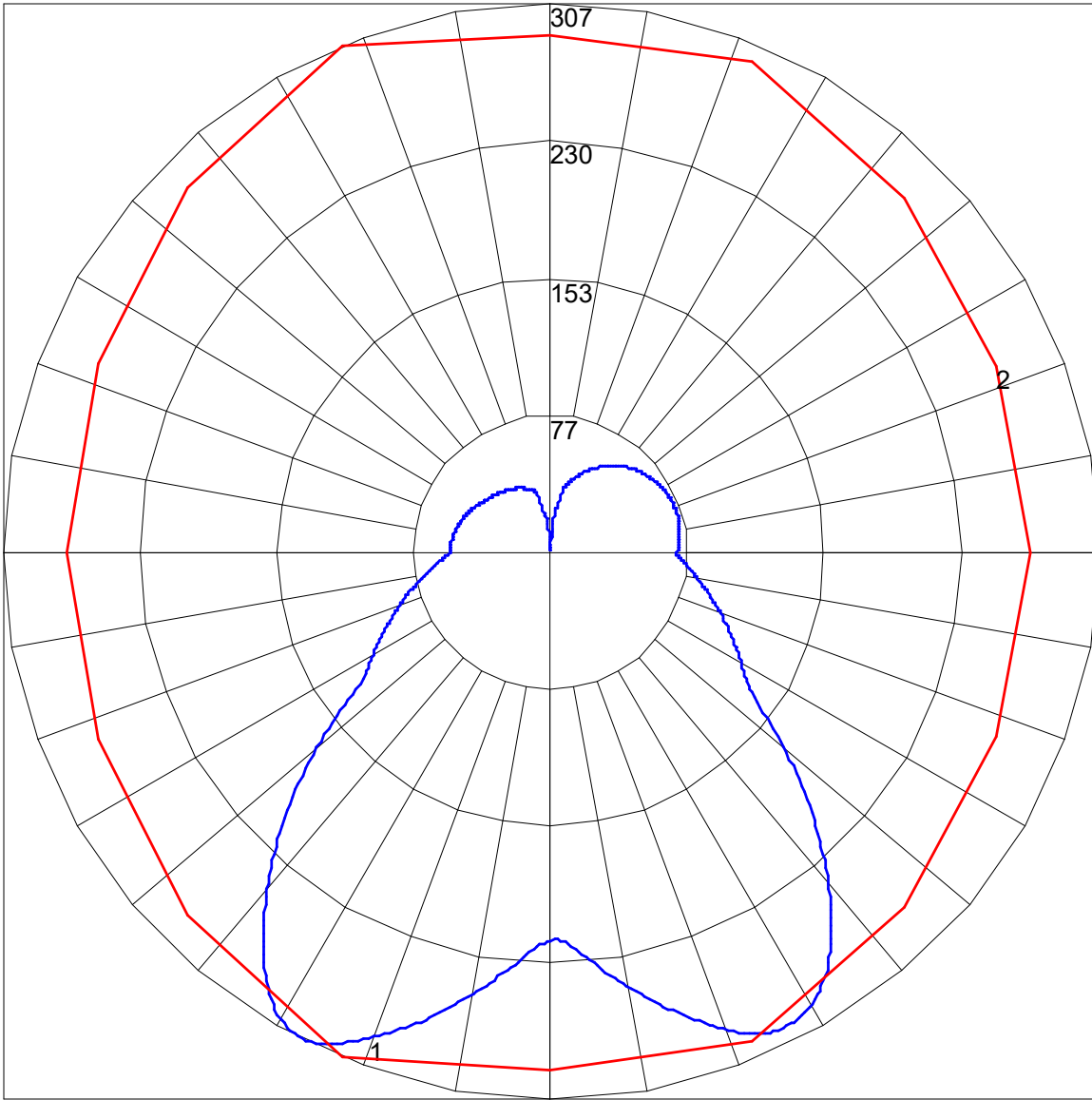
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAL 3 LIGHT.IES**

**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	12.3	13.4	13.0	14.2	15.2	10.5	11.7	11.3	12.5	13.4
	3H	14.6	15.7	15.3	16.4	17.4	12.4	13.4	13.1	14.2	15.2
	4H	15.7	16.7	16.5	17.5	18.5	13.2	14.2	13.9	14.9	15.9
	6H	16.8	17.7	17.6	18.5	19.5	13.9	14.8	14.7	15.6	16.6
	8H	17.3	18.2	18.1	19.0	20.0	14.2	15.1	15.0	15.9	16.9
	12H	17.8	18.6	18.6	19.5	20.5	14.5	15.4	15.3	16.2	17.2
4H	2H	12.9	13.9	13.7	14.7	15.7	11.5	12.5	12.3	13.3	14.3
	3H	15.5	16.3	16.3	17.2	18.2	13.5	14.4	14.3	15.2	16.2
	4H	16.8	17.6	17.6	18.4	19.4	14.5	15.3	15.3	16.1	17.1
	6H	18.0	18.7	18.8	19.6	20.6	15.3	16.0	16.2	16.9	17.9
	8H	18.6	19.3	19.4	20.1	21.2	15.7	16.4	16.5	17.2	18.3
	12H	19.2	19.8	20.1	20.7	21.7	16.1	16.7	17.0	17.6	18.6
8H	4H	17.2	17.8	18.0	18.7	19.7	15.2	15.8	16.0	16.7	17.7
	6H	18.7	19.2	19.5	20.1	21.1	16.3	16.8	17.1	17.7	18.7
	8H	19.4	19.9	20.3	20.8	21.9	16.8	17.3	17.6	18.2	19.2
	12H	20.2	20.7	21.1	21.5	22.6	17.3	17.7	18.1	18.6	19.7
12H	4H	17.3	17.9	18.1	18.7	19.8	15.4	16.0	16.2	16.8	17.9
	6H	18.8	19.3	19.7	20.2	21.3	16.5	17.1	17.4	17.9	19.0
	8H	19.7	20.1	20.5	21.0	22.1	17.2	17.6	18.0	18.5	19.6

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 306.506 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.)