



**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : FAL 36 BOWL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]BALLABS TEST NO. 15395.0  
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
[ISSUE DATE] APR-2010  
[MANUFAC] Justice Design Group, Los Angeles, CA 90071  
[LUMCAT] LumenAria Faux Alabaster (FAL) 36" Bowl  
[LUMINAIRE] Justice Design Group - Pendant mount luminaire. Product ID: FAL 36" Bowl  
[MORE] Extruded base plate with resin bowl lens.  
[LAMP CAT] 6-13W LED-3K 1000L EACH 6000 TOTAL LUMENS,  
[MORE] 78W AT 120.0 VOLTS

**CHARACTERISTICS**

Lumens Per Lamp	1000 (6 lamps)
Total Lamp Lumens	6000
Luminaire Lumens	3184
Total Luminaire Efficiency	53 %
Luminaire Efficacy Rating (LER)	41
Total Luminaire Watts	78
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Sphere
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.13 ft (Diameter)
Luminous Height	0.42 ft (Diameter)

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5554	5656	5792
55	4809	4979	5148
65	3996	4234	4437
75	3251	3488	3692
85	2506	2743	2947

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAL 36 BOWL.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	688.732	688.732	688.732	688.732	688.732
2.5	688.732	685.601	688.732	685.601	688.732
5.0	685.601	682.471	685.601	685.601	688.732
7.5	682.471	679.340	682.471	682.471	682.471
10.0	679.340	676.210	679.340	679.340	682.471
12.5	673.079	673.079	673.079	676.210	676.210
15.0	666.818	666.818	666.818	669.948	669.948
17.5	657.426	660.557	660.557	663.687	660.557
20.0	648.034	651.165	651.165	654.295	651.165
22.5	638.642	641.773	638.642	644.904	641.773
25.0	629.251	632.381	629.251	635.512	632.381
27.5	616.728	619.859	619.859	626.120	622.989
30.0	604.206	607.336	607.336	616.728	610.467
32.5	591.683	594.814	594.814	604.206	601.075
35.0	579.161	582.292	582.292	591.683	588.553
37.5	563.508	569.769	569.769	579.161	576.030
40.0	547.855	554.116	554.116	566.639	563.508
42.5	532.202	538.463	538.463	550.986	547.855
45.0	513.418	522.810	522.810	538.463	535.333
47.5	497.765	507.157	507.157	522.810	519.680
50.0	482.112	491.504	494.635	510.288	507.157
52.5	463.329	472.721	475.851	494.635	491.504
55.0	444.545	457.068	460.198	475.851	475.851
57.5	425.762	438.284	441.415	460.198	457.068
60.0	406.978	422.631	425.762	444.545	441.415
62.5	388.194	400.717	406.978	425.762	425.762
65.0	369.411	385.064	391.325	410.109	410.109
67.5	350.627	366.280	372.541	391.325	391.325
70.0	334.974	350.627	356.888	375.672	375.672
72.5	316.191	331.844	338.105	360.019	356.888
75.0	300.538	316.191	322.452	344.366	341.235
77.5	281.754	297.407	303.668	325.582	322.452
80.0	262.970	281.754	288.015	309.929	306.799
82.5	247.317	262.970	269.232	291.146	288.015
85.0	231.664	247.317	253.579	275.493	272.362
87.5	212.881	231.664	234.795	256.709	253.579
90.0	200.358	209.750	219.142	234.795	241.056
92.5	187.836	184.705	203.489	212.881	225.403
95.0	172.183	169.052	190.967	194.097	209.750
97.5	156.530	153.399	172.183	175.314	187.836
100.0	140.877	137.746	156.530	159.661	172.183
102.5	125.224	122.093	140.877	144.008	156.530
105.0	112.702	109.571	125.224	128.355	140.877
107.5	97.049	97.049	109.571	112.702	125.224
110.0	87.657	84.526	97.049	100.179	109.571
112.5	72.004	72.004	84.526	84.526	93.918
115.0	62.612	59.481	72.004	72.004	81.396
117.5	53.220	50.090	59.481	59.481	68.873
120.0	43.828	40.698	50.090	50.090	56.351
122.5	34.437	34.437	40.698	40.698	46.959
125.0	28.175	25.045	31.306	31.306	37.567
127.5	21.914	18.784	25.045	21.914	28.175
130.0	15.653	12.522	18.784	15.653	18.784
132.5	9.392	9.392	12.522	9.392	12.522

**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : FAL 36 BOWL.IES**

**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	6.261	6.261	9.392	6.261	6.261
<b>137.5</b>	3.131	3.131	3.131	3.131	3.131
<b>140.0</b>	0.000	0.000	0.000	0.000	0.000
<b>142.5</b>	0.000	0.000	0.000	0.000	0.000
<b>145.0</b>	0.000	0.000	0.000	0.000	0.000
<b>147.5</b>	0.000	0.000	0.000	0.000	0.000
<b>150.0</b>	0.000	0.000	0.000	0.000	0.000
<b>152.5</b>	0.000	0.000	0.000	0.000	0.000
<b>155.0</b>	0.000	0.000	0.000	0.000	0.000
<b>157.5</b>	0.000	0.000	0.000	0.000	0.000
<b>160.0</b>	0.000	0.000	0.000	0.000	0.000
<b>162.5</b>	0.000	0.000	0.000	0.000	0.000
<b>165.0</b>	0.000	0.000	0.000	0.000	0.000
<b>167.5</b>	0.000	0.000	0.000	0.000	0.000
<b>170.0</b>	0.000	0.000	0.000	0.000	0.000
<b>172.5</b>	0.000	0.000	0.000	0.000	0.000
<b>175.0</b>	0.000	0.000	0.000	0.000	0.000
<b>177.5</b>	0.000	0.000	0.000	0.000	0.000
<b>180.0</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAL 36 BOWL.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	253.90	4.20	8.00
0-30	545.57	9.10	17.10
0-40	912.18	15.20	28.60
0-60	1734.6	28.90	54.50
0-80	2468.33	41.10	77.50
0-90	2747.85	45.80	86.30
10-90	2682.66	44.70	84.30
20-40	658.28	11.00	20.70
20-50	1065.83	17.80	33.50
40-70	1212.55	20.20	38.10
60-80	733.74	12.20	23.00
70-80	343.60	5.70	10.80
80-90	279.52	4.70	8.80
90-110	332.90	5.50	10.50
90-120	402.39	6.70	12.60
90-130	430.44	7.20	13.50
90-150	436.18	7.30	13.70
90-180	436.18	7.30	13.70
110-180	103.28	1.70	3.20
0-180	3184.03	53.10	100.00

Total Luminaire Efficiency = 53.10%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	65.18
10-20	188.71
20-30	291.68
30-40	366.61
40-50	407.55
50-60	414.87
60-70	390.13
70-80	343.60
80-90	279.52
90-100	202.84
100-110	130.06
110-120	69.49
120-130	28.05
130-140	5.73
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAL 36 BOWL.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	
0	61	61	61	61	59	59	59	59	55	55	55	51	51	51	47	47	47	46
1	54	51	48	45	52	49	46	44	45	43	41	42	40	38	39	37	36	34
2	48	43	39	35	46	41	38	34	38	35	32	35	33	30	33	31	29	27
3	44	37	32	28	42	36	31	28	33	29	26	31	28	25	28	26	23	22
4	40	33	28	24	38	31	27	23	29	25	22	27	24	21	25	22	20	18
5	36	29	24	20	35	28	23	20	26	22	19	24	21	18	22	19	17	15
6	33	26	21	17	32	25	20	17	23	19	16	22	18	15	20	17	15	13
7	31	23	18	15	30	23	18	15	21	17	14	20	16	13	18	15	13	12
8	29	21	17	13	27	21	16	13	19	15	12	18	15	12	17	14	11	10
9	27	19	15	12	26	19	15	12	18	14	11	17	13	11	16	12	10	9
10	25	18	14	11	24	17	13	10	16	13	10	15	12	10	14	11	9	8

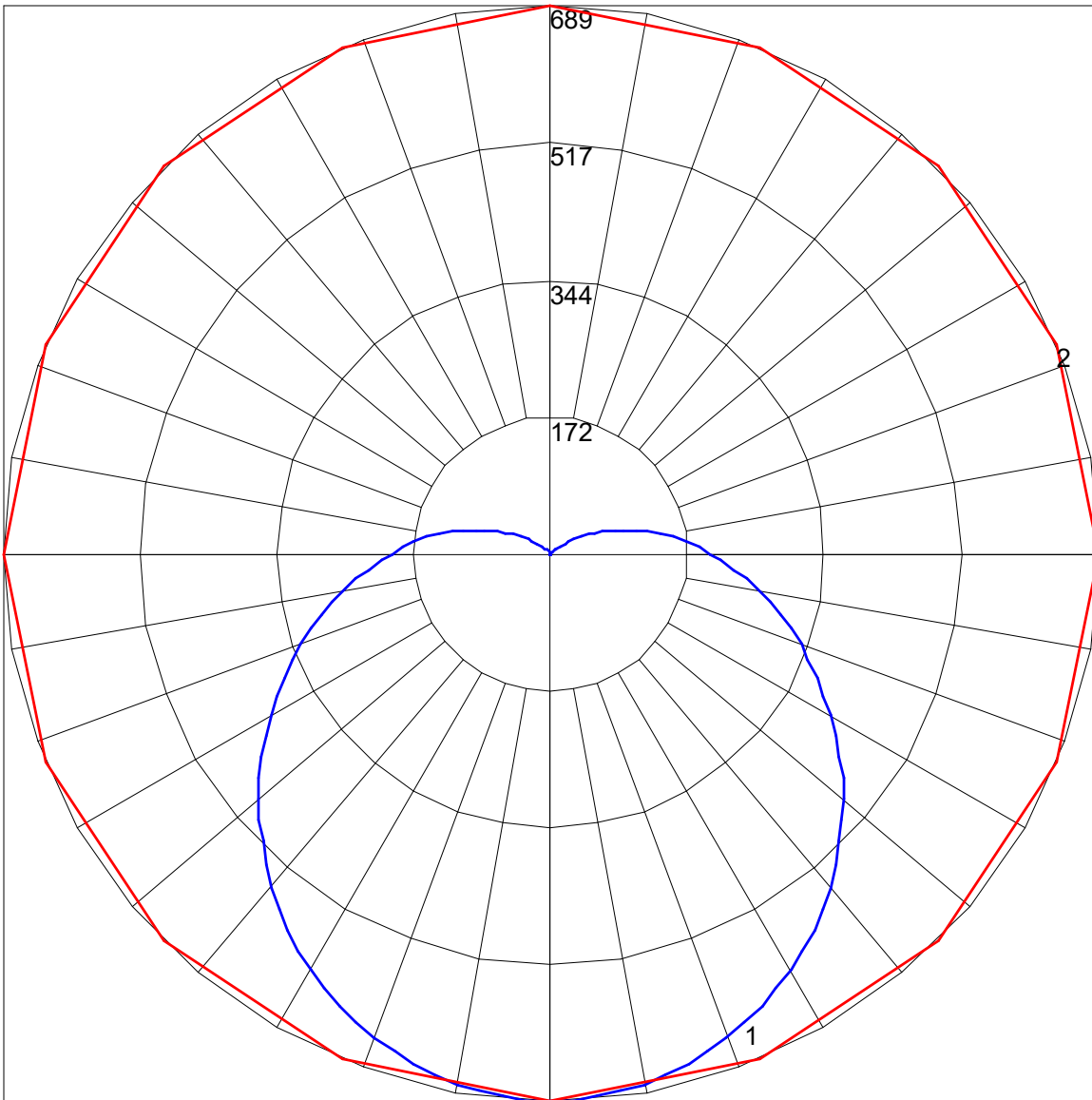
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAL 36 BOWL.IES**

**UGR TABLE - CORRECTED**

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	13.8	15.3	14.4	15.9	16.5	14.2	15.7	14.7	16.2	16.9
	3H	16.0	17.3	16.5	17.9	18.6	16.4	17.8	17.0	18.4	19.1
	4H	17.0	18.3	17.5	18.8	19.5	17.5	18.8	18.1	19.4	20.1
	6H	17.9	19.1	18.5	19.7	20.4	18.5	19.7	19.1	20.3	21.0
	8H	18.3	19.5	18.9	20.1	20.8	19.0	20.2	19.6	20.8	21.5
	12H	18.7	19.8	19.3	20.4	21.1	19.4	20.5	20.0	21.2	21.9
4H	2H	14.5	15.8	15.1	16.4	17.0	14.8	16.1	15.3	16.6	17.3
	3H	16.9	18.0	17.4	18.6	19.3	17.3	18.4	17.9	19.0	19.7
	4H	18.0	19.0	18.6	19.7	20.4	18.5	19.5	19.1	20.2	20.9
	6H	19.1	20.0	19.7	20.7	21.4	19.7	20.6	20.3	21.3	22.0
	8H	19.6	20.5	20.2	21.1	21.9	20.2	21.1	20.9	21.8	22.5
	12H	20.1	20.9	20.7	21.6	22.3	20.8	21.6	21.4	22.3	23.0
8H	4H	18.4	19.3	19.1	20.0	20.7	18.9	19.7	19.5	20.4	21.1
	6H	19.7	20.5	20.4	21.2	21.9	20.2	21.0	20.9	21.7	22.4
	8H	20.4	21.0	21.0	21.7	22.5	20.9	21.6	21.6	22.3	23.1
	12H	21.0	21.6	21.7	22.3	23.1	21.6	22.3	22.3	22.9	23.8
12H	4H	18.5	19.3	19.2	20.0	20.8	18.9	19.7	19.6	20.4	21.2
	6H	19.9	20.6	20.6	21.2	22.0	20.4	21.1	21.1	21.7	22.5
	8H	20.6	21.2	21.2	21.9	22.7	21.1	21.7	21.8	22.4	23.2

Maximum UGR = 23.8

POLAR GRAPH



Maximum Candela = 688.732 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)