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IES INDOOR REPORT PHOTOMETRIC FILENAME : FAL 24 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) 24" Bowl
 [LUMINAIRE] Justice Design Group - Pendant mount luminaire. Product ID: FAL 24" Bowl
 [MORE] Extruded base plate with resin bowl lens.
 [LAMP CAT] 5-13W LED 1000L EACH 5000 TOTAL LUMENS,
 [MORE] 65W AT 120.0 VOLTS SCALED FROM 3-LED LAMP

CHARACTERISTICS

Lumens Per Lamp	1000 (5 lamps)
Total Lamp Lumens	5000
Luminaire Lumens	2653
Total Luminaire Efficiency	53 %
Luminaire Efficacy Rating (LER)	41
Total Luminaire Watts	65
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	4629	4713	4826
55	4008	4149	4290
65	3330	3528	3697
75	2709	2907	3076
85	2089	2286	2455

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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>
0.0	573.936	573.936	573.936	573.936	573.936
2.5	573.936	571.327	573.936	571.327	573.936
5.0	571.327	568.718	571.327	571.327	573.936
7.5	568.718	566.110	568.718	568.718	568.718
10.0	566.110	563.501	566.110	566.110	568.718
12.5	560.892	560.892	560.892	563.501	563.501
15.0	555.674	555.674	555.674	558.283	558.283
17.5	547.848	550.457	550.457	553.066	550.457
20.0	540.022	542.630	542.630	545.239	542.630
22.5	532.195	534.804	532.195	537.413	534.804
25.0	524.369	526.978	524.369	529.586	526.978
27.5	513.934	516.542	516.542	521.760	519.151
30.0	503.498	506.107	506.107	513.934	508.716
32.5	493.063	495.672	495.672	503.498	500.890
35.0	482.628	485.237	485.237	493.063	490.454
37.5	469.584	474.802	474.802	482.628	480.019
40.0	456.540	461.758	461.758	472.193	469.584
42.5	443.496	448.714	448.714	459.149	456.540
45.0	427.843	435.670	435.670	448.714	446.105
47.5	414.799	422.626	422.626	435.670	433.061
50.0	401.755	409.582	412.190	425.234	422.626
52.5	386.102	393.929	396.538	412.190	409.582
55.0	370.450	380.885	383.494	396.538	396.538
57.5	354.797	365.232	367.841	383.494	380.885
60.0	339.144	352.188	354.797	370.450	367.841
62.5	323.491	333.926	339.144	354.797	354.797
65.0	307.838	320.882	326.100	341.753	341.753
67.5	292.186	305.230	310.447	326.100	326.100
70.0	279.142	292.186	297.403	313.056	313.056
72.5	263.489	276.533	281.750	300.012	297.403
75.0	250.445	263.489	268.706	286.968	284.359
77.5	234.792	247.836	253.054	271.315	268.706
80.0	219.139	234.792	240.010	258.271	255.662
82.5	206.095	219.139	224.357	242.618	240.010
85.0	193.051	206.095	211.313	229.574	226.966
87.5	177.398	193.051	195.660	213.922	211.313
90.0	166.963	174.790	182.616	195.660	200.878
92.5	156.528	153.919	169.572	177.398	187.834
95.0	143.484	140.875	159.137	161.746	174.790
97.5	130.440	127.831	143.484	146.093	156.528
100.0	117.396	114.787	130.440	133.049	143.484
102.5	104.352	101.743	117.396	120.005	130.440
105.0	93.917	91.308	104.352	106.961	117.396
107.5	80.873	80.873	91.308	93.917	104.352
110.0	73.046	70.438	80.873	83.482	91.308
112.5	60.002	60.002	70.438	70.438	78.264
115.0	52.176	49.567	60.002	60.002	67.829
117.5	44.350	41.741	49.567	49.567	57.394
120.0	36.523	33.914	41.741	41.741	46.958
122.5	28.697	28.697	33.914	33.914	39.132
125.0	23.479	20.870	26.088	26.088	31.306
127.5	18.262	15.653	20.870	18.262	23.479
130.0	13.044	10.435	15.653	13.044	15.653
132.5	7.826	7.826	10.435	7.826	10.435

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CANDELA TABULATION - (Cont.)

135.0	5.218	5.218	7.826	5.218	5.218
137.5	2.609	2.609	2.609	2.609	2.609
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	211.58	4.20	8.00
0-30	454.64	9.10	17.10
0-40	760.14	15.20	28.60
0-60	1445.48	28.90	54.50
0-80	2056.92	41.10	77.50
0-90	2289.85	45.80	86.30
10-90	2235.53	44.70	84.30
20-40	548.56	11.00	20.70
20-50	888.18	17.80	33.50
40-70	1010.44	20.20	38.10
60-80	611.44	12.20	23.00
70-80	286.33	5.70	10.80
80-90	232.93	4.70	8.80
90-110	277.41	5.50	10.50
90-120	335.32	6.70	12.60
90-130	358.70	7.20	13.50
90-150	363.48	7.30	13.70
90-180	363.48	7.30	13.70
110-180	86.06	1.70	3.20
0-180	2653.32	53.10	100.00

Total Luminaire Efficiency = 53.10%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	54.32
10-20	157.26
20-30	243.06
30-40	305.50
40-50	339.62
50-60	345.72
60-70	325.11
70-80	286.33
80-90	232.93
90-100	169.03
100-110	108.38
110-120	57.91
120-130	23.38
130-140	4.78
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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

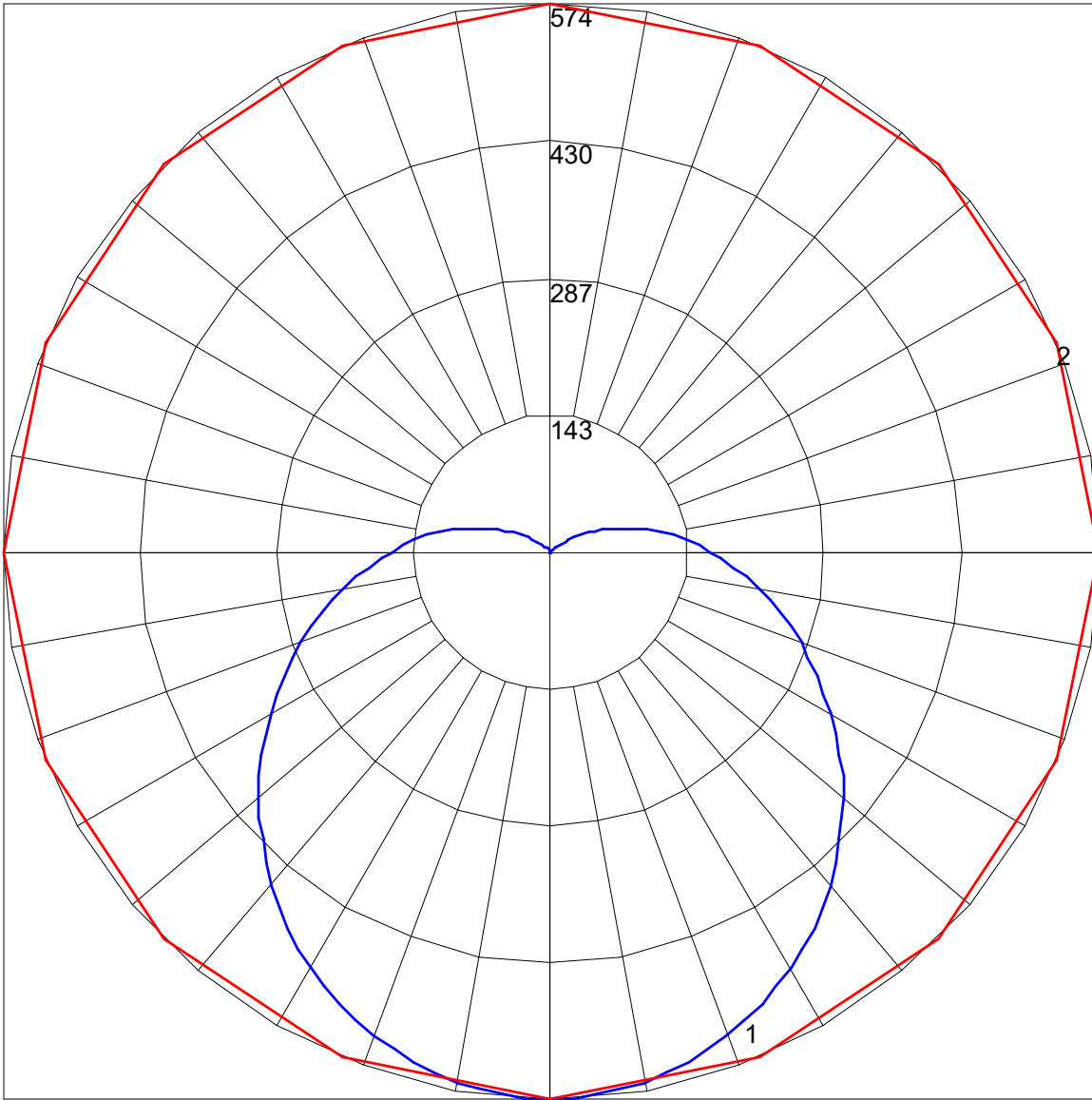
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UGR TABLE - CORRECTED

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	13.2	14.7	13.8	15.3	15.9	13.6	15.1	14.1	15.6	16.3
	3H	15.4	16.7	15.9	17.3	18.0	15.8	17.2	16.4	17.8	18.5
	4H	16.4	17.7	16.9	18.2	18.9	16.9	18.2	17.5	18.8	19.5
	6H	17.3	18.5	17.9	19.1	19.8	17.9	19.1	18.5	19.7	20.4
	8H	17.7	18.9	18.3	19.5	20.2	18.4	19.6	19.0	20.2	20.9
	12H	18.1	19.2	18.7	19.8	20.5	18.8	19.9	19.4	20.6	21.3
4H	2H	13.9	15.2	14.5	15.8	16.4	14.2	15.5	14.7	16.0	16.7
	3H	16.3	17.4	16.8	18.0	18.7	16.7	17.8	17.3	18.4	19.1
	4H	17.4	18.4	18.0	19.1	19.8	17.9	18.9	18.5	19.6	20.3
	6H	18.5	19.4	19.1	20.1	20.8	19.1	20.0	19.7	20.7	21.4
	8H	19.0	19.9	19.6	20.5	21.3	19.6	20.5	20.3	21.2	21.9
	12H	19.5	20.3	20.1	21.0	21.7	20.2	21.0	20.8	21.7	22.4
8H	4H	17.8	18.7	18.5	19.4	20.1	18.3	19.1	18.9	19.8	20.5
	6H	19.1	19.9	19.8	20.6	21.3	19.6	20.4	20.3	21.1	21.8
	8H	19.8	20.4	20.4	21.1	21.9	20.3	21.0	21.0	21.7	22.5
	12H	20.4	21.0	21.1	21.7	22.5	21.0	21.7	21.7	22.3	23.2
12H	4H	17.9	18.7	18.6	19.4	20.2	18.3	19.1	19.0	19.8	20.6
	6H	19.3	20.0	20.0	20.6	21.4	19.8	20.5	20.5	21.1	21.9
	8H	20.0	20.6	20.6	21.3	22.1	20.5	21.1	21.2	21.8	22.6

Maximum UGR = 23.2

POLAR GRAPH



Maximum Candela = 573.936 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.)