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**IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 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] Clouds Resin (CLD) 24" Bowl
[LUMINAIRE] Justice Design Group - Pendant mount luminaire. Product ID: CLD 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	2957
Total Luminaire Efficiency	59 %
Luminaire Efficacy Rating (LER)	45
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	5158	5252	5378
55	4466	4623	4780
65	3711	3931	4120
75	3019	3239	3428
85	2327	2547	2736

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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	639.533	639.533	639.533	639.533	639.533
2.5	639.533	636.626	639.533	636.626	639.533
5.0	636.626	633.719	636.626	636.626	639.533
7.5	633.719	630.812	633.719	633.719	633.719
10.0	630.812	627.906	630.812	630.812	633.719
12.5	624.999	624.999	624.999	627.906	627.906
15.0	619.185	619.185	619.185	622.092	622.092
17.5	610.464	613.371	613.371	616.278	613.371
20.0	601.743	604.650	604.650	607.557	604.650
22.5	593.022	595.929	593.022	598.836	595.929
25.0	584.301	587.208	584.301	590.115	587.208
27.5	572.673	575.580	575.580	581.394	578.487
30.0	561.045	563.952	563.952	572.673	566.859
32.5	549.417	552.324	552.324	561.045	558.138
35.0	537.789	540.696	540.696	549.417	546.510
37.5	523.255	529.069	529.069	537.789	534.882
40.0	508.720	514.534	514.534	526.162	523.255
42.5	494.185	499.999	499.999	511.627	508.720
45.0	476.743	485.464	485.464	499.999	497.092
47.5	462.208	470.929	470.929	485.464	482.557
50.0	447.673	456.394	459.301	473.836	470.929
52.5	430.232	438.952	441.859	459.301	456.394
55.0	412.790	424.418	427.325	441.859	441.859
57.5	395.348	406.976	409.883	427.325	424.418
60.0	377.906	392.441	395.348	412.790	409.883
62.5	360.464	372.092	377.906	395.348	395.348
65.0	343.022	357.557	363.371	380.813	380.813
67.5	325.581	340.115	345.929	363.371	363.371
70.0	311.046	325.581	331.395	348.836	348.836
72.5	293.604	308.139	313.953	334.302	331.395
75.0	279.069	293.604	299.418	319.767	316.860
77.5	261.627	276.162	281.976	302.325	299.418
80.0	244.185	261.627	267.441	287.790	284.883
82.5	229.651	244.185	249.999	270.348	267.441
85.0	215.116	229.651	235.465	255.813	252.906
87.5	197.674	215.116	218.023	238.372	235.465
90.0	186.046	194.767	203.488	218.023	223.837
92.5	174.418	171.511	188.953	197.674	209.302
95.0	159.883	156.976	177.325	180.232	194.767
97.5	145.349	142.442	159.883	162.790	174.418
100.0	130.814	127.907	145.349	148.255	159.883
102.5	116.279	113.372	130.814	133.721	145.349
105.0	104.651	101.744	116.279	119.186	130.814
107.5	90.116	90.116	101.744	104.651	116.279
110.0	81.395	78.488	90.116	93.023	101.744
112.5	66.860	66.860	78.488	78.488	87.209
115.0	58.139	55.232	66.860	66.860	75.581
117.5	49.418	46.512	55.232	55.232	63.953
120.0	40.698	37.791	46.512	46.512	52.325
122.5	31.977	31.977	37.791	37.791	43.605
125.0	26.163	23.256	29.070	29.070	34.884
127.5	20.349	17.442	23.256	20.349	26.163
130.0	14.535	11.628	17.442	14.535	17.442
132.5	8.721	8.721	11.628	8.721	11.628

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CANDELA TABULATION - (Cont.)

135.0	5.814	5.814	8.721	5.814	5.814
137.5	2.907	2.907	2.907	2.907	2.907
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	235.76	4.70	8.00
0-30	506.60	10.10	17.10
0-40	847.02	16.90	28.60
0-60	1610.69	32.20	54.50
0-80	2292.01	45.80	77.50
0-90	2551.56	51.00	86.30
10-90	2491.03	49.80	84.30
20-40	611.26	12.20	20.70
20-50	989.69	19.80	33.50
40-70	1125.93	22.50	38.10
60-80	681.32	13.60	23.00
70-80	319.06	6.40	10.80
80-90	259.55	5.20	8.80
90-110	309.12	6.20	10.50
90-120	373.65	7.50	12.60
90-130	399.70	8.00	13.50
90-150	405.02	8.10	13.70
90-180	405.02	8.10	13.70
110-180	95.90	1.90	3.20
0-180	2956.58	59.10	100.00

Total Luminaire Efficiency = 59.10%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	60.53
10-20	175.23
20-30	270.84
30-40	340.42
40-50	378.43
50-60	385.23
60-70	362.26
70-80	319.06
80-90	259.55
90-100	188.35
100-110	120.77
110-120	64.52
120-130	26.05
130-140	5.32
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	68	68	68	68	66	66	66	66	61	61	61	57	57	57	53	53	53	51
1	60	56	53	50	58	54	51	49	50	48	46	46	44	43	43	41	40	38
2	54	48	43	39	52	46	42	38	43	39	36	39	36	34	37	34	32	30
3	49	42	36	32	46	40	35	31	37	33	29	34	31	28	32	29	26	24
4	44	36	31	26	42	35	30	26	33	28	24	30	26	23	28	25	22	20
5	41	32	27	22	39	31	26	22	29	24	21	27	23	20	25	22	19	17
6	37	29	23	19	36	28	23	19	26	21	18	24	20	17	22	19	16	15
7	35	26	21	17	33	25	20	16	23	19	16	22	18	15	20	17	14	13
8	32	24	18	15	31	23	18	14	21	17	14	20	16	13	19	15	13	11
9	30	22	17	13	29	21	16	13	20	15	12	18	15	12	17	14	11	10
10	28	20	15	12	27	19	15	12	18	14	11	17	13	11	16	13	10	9

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UGR TABLE - CORRECTED

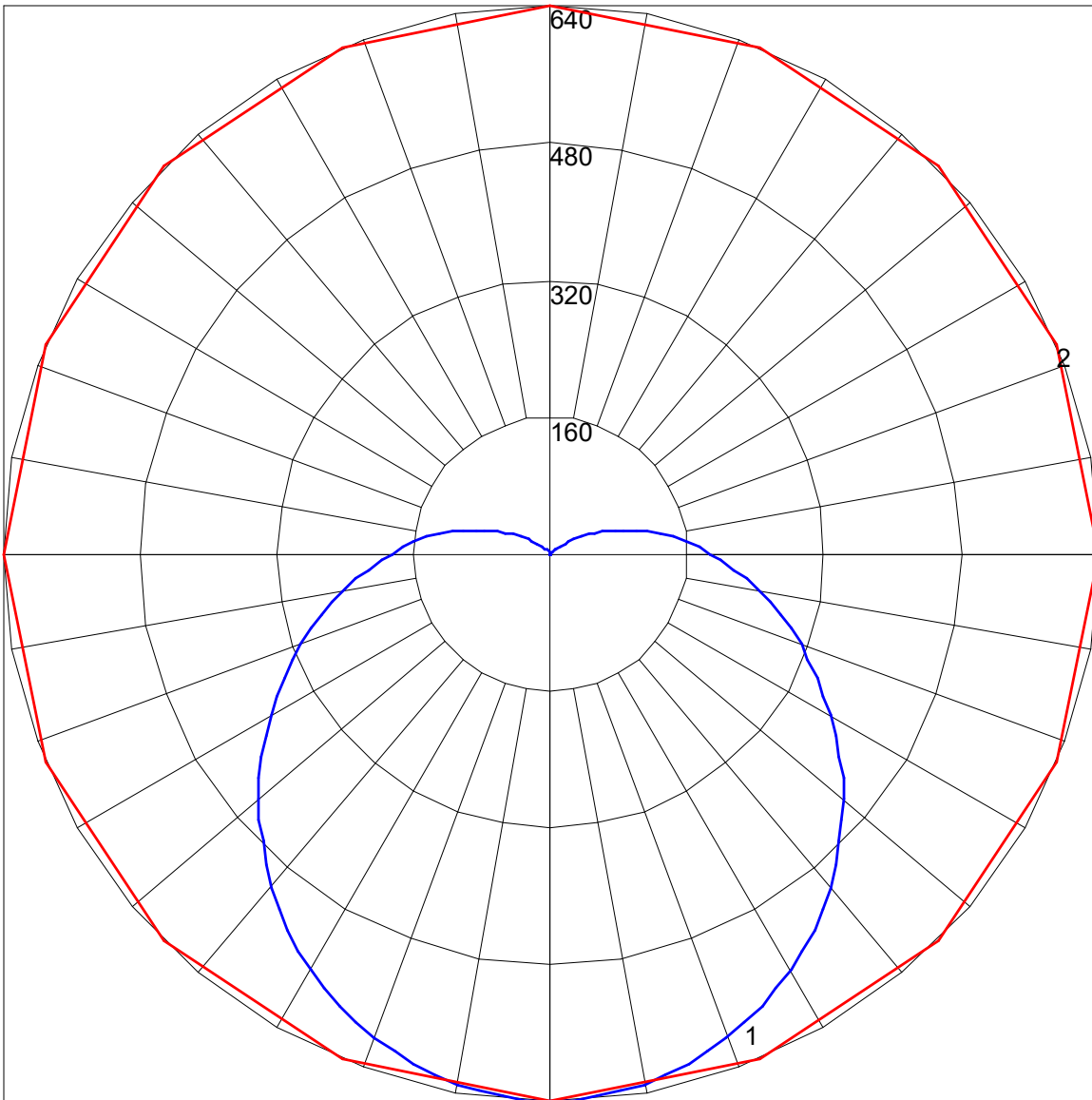
Reflectances

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	13.6	15.1	14.1	15.6	16.3	14.0	15.4	14.5	16.0	16.6
	3H	15.7	17.1	16.3	17.7	18.3	16.2	17.6	16.8	18.2	18.8
	4H	16.7	18.0	17.3	18.6	19.3	17.3	18.6	17.9	19.2	19.8
	6H	17.6	18.9	18.2	19.5	20.1	18.3	19.5	18.9	20.1	20.8
	8H	18.0	19.2	18.6	19.8	20.5	18.7	19.9	19.3	20.5	21.2
	12H	18.4	19.6	19.1	20.2	20.9	19.2	20.3	19.8	20.9	21.7
4H	2H	14.2	15.5	14.8	16.1	16.8	14.5	15.8	15.1	16.4	17.1
	3H	16.6	17.7	17.2	18.4	19.1	17.0	18.2	17.6	18.8	19.5
	4H	17.7	18.8	18.4	19.4	20.2	18.2	19.3	18.9	19.9	20.7
	6H	18.9	19.8	19.5	20.4	21.2	19.5	20.4	20.1	21.0	21.8
	8H	19.3	20.2	20.0	20.9	21.6	20.0	20.9	20.6	21.5	22.3
	12H	19.8	20.6	20.5	21.3	22.1	20.5	21.3	21.2	22.0	22.8
8H	4H	18.2	19.1	18.8	19.7	20.5	18.6	19.5	19.3	20.2	20.9
	6H	19.5	20.2	20.2	20.9	21.7	20.0	20.8	20.7	21.5	22.2
	8H	20.1	20.8	20.8	21.5	22.3	20.7	21.4	21.4	22.1	22.8
	12H	20.8	21.4	21.4	22.1	22.9	21.4	22.0	22.1	22.7	23.5
12H	4H	18.3	19.1	18.9	19.8	20.5	18.7	19.5	19.3	20.2	20.9
	6H	19.6	20.3	20.3	21.0	21.8	20.1	20.8	20.8	21.5	22.3
	8H	20.3	21.0	21.0	21.7	22.5	20.9	21.5	21.6	22.2	23.0

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 639.533 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.)