



# The Perfect Lighting Choice.™

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## IES INDOOR REPORT PHOTOMETRIC FILENAME : CLD 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] Clouds Resin (CLD) 36" Bowl  
 [LUMINAIRE] Justice Design Group - Pendant mount luminaire. Product ID: CLD 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	3548
Total Luminaire Efficiency	59 %
Luminaire Efficacy Rating (LER)	45
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	6189	6302	6453
55	5359	5548	5736
65	4453	4717	4944
75	3623	3887	4114
85	2793	3057	3283

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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>
<b>0.0</b>	767.439	767.439	767.439	767.439	767.439
<b>2.5</b>	767.439	763.951	767.439	763.951	767.439
<b>5.0</b>	763.951	760.462	763.951	763.951	767.439
<b>7.5</b>	760.462	756.974	760.462	760.462	760.462
<b>10.0</b>	756.974	753.486	756.974	756.974	760.462
<b>12.5</b>	749.997	749.997	749.997	753.486	753.486
<b>15.0</b>	743.021	743.021	743.021	746.509	746.509
<b>17.5</b>	732.556	736.044	736.044	739.532	736.044
<b>20.0</b>	722.091	725.579	725.579	729.067	725.579
<b>22.5</b>	711.625	715.114	711.625	718.602	715.114
<b>25.0</b>	701.160	704.649	701.160	708.137	704.649
<b>27.5</b>	687.207	690.695	690.695	697.672	694.184
<b>30.0</b>	673.253	676.742	676.742	687.207	680.230
<b>32.5</b>	659.300	662.788	662.788	673.253	669.765
<b>35.0</b>	645.347	648.835	648.835	659.300	655.812
<b>37.5</b>	627.905	634.882	634.882	645.347	641.858
<b>40.0</b>	610.463	617.440	617.440	631.393	627.905
<b>42.5</b>	593.021	599.998	599.998	613.951	610.463
<b>45.0</b>	572.091	582.556	582.556	599.998	596.510
<b>47.5</b>	554.649	565.114	565.114	582.556	579.068
<b>50.0</b>	537.207	547.673	551.161	568.603	565.114
<b>52.5</b>	516.277	526.742	530.231	551.161	547.673
<b>55.0</b>	495.347	509.301	512.789	530.231	530.231
<b>57.5</b>	474.417	488.370	491.859	512.789	509.301
<b>60.0</b>	453.487	470.929	474.417	495.347	491.859
<b>62.5</b>	432.557	446.510	453.487	474.417	474.417
<b>65.0</b>	411.626	429.068	436.045	456.975	456.975
<b>67.5</b>	390.696	408.138	415.115	436.045	436.045
<b>70.0</b>	373.255	390.696	397.673	418.603	418.603
<b>72.5</b>	352.324	369.766	376.743	401.161	397.673
<b>75.0</b>	334.883	352.324	359.301	383.720	380.231
<b>77.5</b>	313.952	331.394	338.371	362.789	359.301
<b>80.0</b>	293.022	313.952	320.929	345.348	341.859
<b>82.5</b>	275.580	293.022	299.999	324.417	320.929
<b>85.0</b>	258.139	275.580	282.557	306.976	303.487
<b>87.5</b>	237.208	258.139	261.627	286.046	282.557
<b>90.0</b>	223.255	233.720	244.185	261.627	268.604
<b>92.5</b>	209.302	205.813	226.743	237.208	251.162
<b>95.0</b>	191.860	188.371	212.790	216.278	233.720
<b>97.5</b>	174.418	170.930	191.860	195.348	209.302
<b>100.0</b>	156.976	153.488	174.418	177.906	191.860
<b>102.5</b>	139.534	136.046	156.976	160.465	174.418
<b>105.0</b>	125.581	122.093	139.534	143.023	156.976
<b>107.5</b>	108.139	108.139	122.093	125.581	139.534
<b>110.0</b>	97.674	94.186	108.139	111.628	122.093
<b>112.5</b>	80.232	80.232	94.186	94.186	104.651
<b>115.0</b>	69.767	66.279	80.232	80.232	90.697
<b>117.5</b>	59.302	55.814	66.279	66.279	76.744
<b>120.0</b>	48.837	45.349	55.814	55.814	62.790
<b>122.5</b>	38.372	38.372	45.349	45.349	52.325
<b>125.0</b>	31.395	27.907	34.884	34.884	41.860
<b>127.5</b>	24.419	20.930	27.907	24.419	31.395
<b>130.0</b>	17.442	13.953	20.930	17.442	20.930
<b>132.5</b>	10.465	10.465	13.953	10.465	13.953

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	6.977	6.977	10.465	6.977	6.977
<b>137.5</b>	3.488	3.488	3.488	3.488	3.488
<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

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	282.91	4.70	8.00
0-30	607.92	10.10	17.10
0-40	1016.42	16.90	28.60
0-60	1932.82	32.20	54.50
0-80	2750.41	45.80	77.50
0-90	3061.87	51.00	86.30
10-90	2989.23	49.80	84.30
20-40	733.51	12.20	20.70
20-50	1187.63	19.80	33.50
40-70	1351.12	22.50	38.10
60-80	817.59	13.60	23.00
70-80	382.87	6.40	10.80
80-90	311.46	5.20	8.80
90-110	370.95	6.20	10.50
90-120	448.37	7.50	12.60
90-130	479.63	8.00	13.50
90-150	486.02	8.10	13.70
90-180	486.02	8.10	13.70
110-180	115.08	1.90	3.20
0-180	3547.89	59.10	100.00

Total Luminaire Efficiency = 59.10%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	72.63
10-20	210.28
20-30	325.01
30-40	408.50
40-50	454.12
50-60	462.28
60-70	434.72
70-80	382.87
80-90	311.46
90-100	226.02
100-110	144.92
110-120	77.43
120-130	31.26
130-140	6.39
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	10	0
0	68	68	68	68	66	66	66	66	61	61	61	57	57	57	53	53	53	51	0
1	60	56	53	50	58	54	51	49	50	48	46	46	44	43	43	41	40	38	0
2	54	48	43	39	52	46	42	38	43	39	36	39	36	34	37	34	32	30	0
3	49	42	36	32	46	40	35	31	37	33	29	34	31	28	32	29	26	24	0
4	44	36	31	26	42	35	30	26	33	28	24	30	26	23	28	25	22	20	0
5	41	32	27	22	39	31	26	22	29	24	21	27	23	20	25	22	19	17	0
6	37	29	23	19	36	28	23	19	26	21	18	24	20	17	22	19	16	15	0
7	35	26	21	17	33	25	20	16	23	19	16	22	18	15	20	17	14	13	0
8	32	24	18	15	31	23	18	14	21	17	14	20	16	13	19	15	13	11	0
9	30	22	17	13	29	21	16	13	20	15	12	18	15	12	17	14	11	10	0
10	28	20	15	12	27	19	15	12	18	14	11	17	13	11	16	13	10	9	0

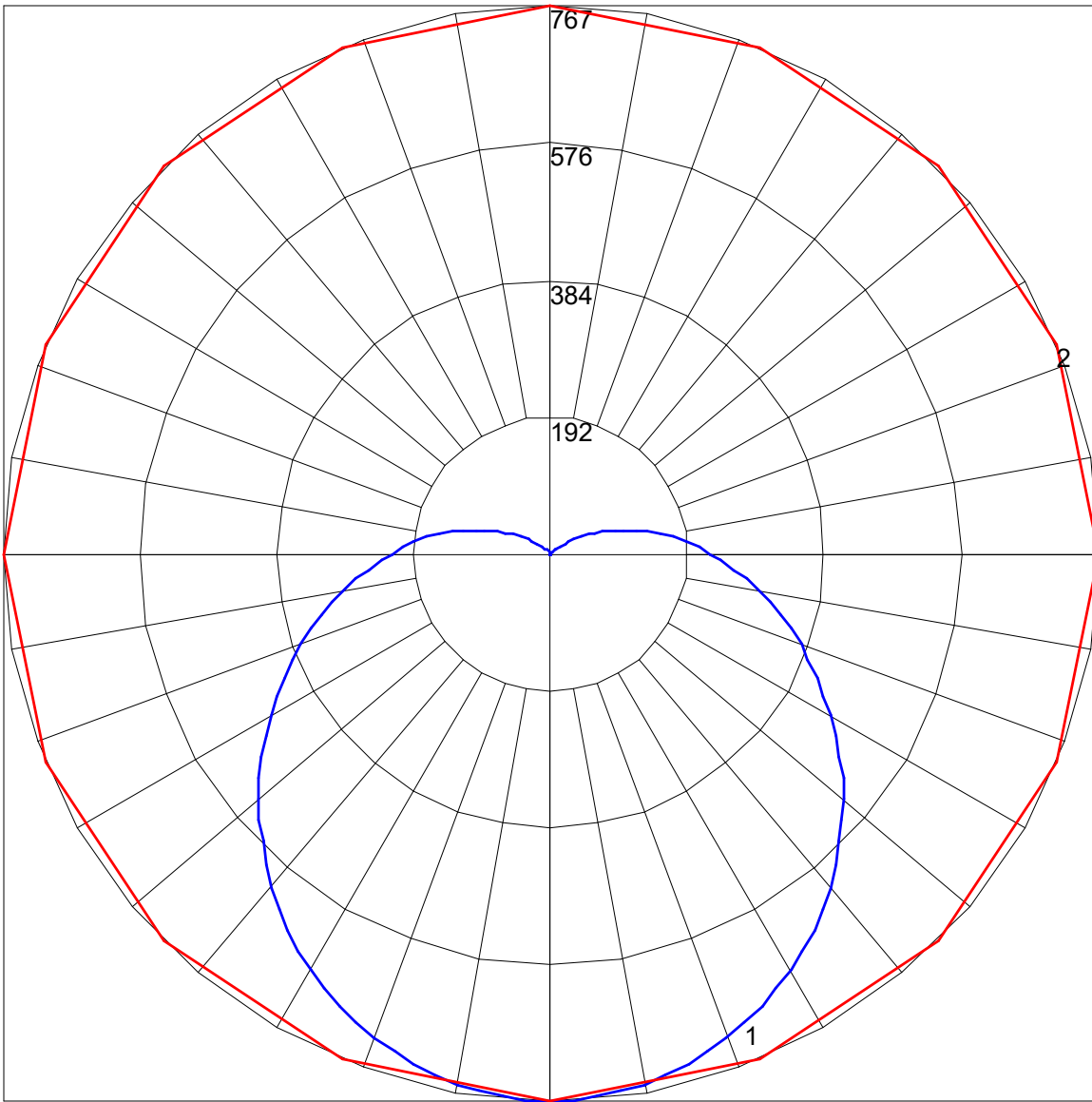
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**UGR TABLE - CORRECTED**

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	14.2	15.7	14.7	16.2	16.9	14.6	16.0	15.1	16.6	17.2
	3H	16.3	17.7	16.9	18.3	18.9	16.8	18.2	17.4	18.8	19.4
	4H	17.3	18.6	17.9	19.2	19.9	17.9	19.2	18.5	19.8	20.4
	6H	18.2	19.5	18.8	20.1	20.7	18.9	20.1	19.5	20.7	21.4
	8H	18.6	19.8	19.2	20.4	21.1	19.3	20.5	19.9	21.1	21.8
	12H	19.0	20.2	19.7	20.8	21.5	19.8	20.9	20.4	21.5	22.3
4H	2H	14.8	16.1	15.4	16.7	17.4	15.1	16.4	15.7	17.0	17.7
	3H	17.2	18.3	17.8	19.0	19.7	17.6	18.8	18.2	19.4	20.1
	4H	18.3	19.4	19.0	20.0	20.8	18.8	19.9	19.5	20.5	21.3
	6H	19.5	20.4	20.1	21.0	21.8	20.1	21.0	20.7	21.6	22.4
	8H	19.9	20.8	20.6	21.5	22.2	20.6	21.5	21.2	22.1	22.9
	12H	20.4	21.2	21.1	21.9	22.7	21.1	21.9	21.8	22.6	23.4
8H	4H	18.8	19.7	19.4	20.3	21.1	19.2	20.1	19.9	20.8	21.5
	6H	20.1	20.8	20.8	21.5	22.3	20.6	21.4	21.3	22.1	22.8
	8H	20.7	21.4	21.4	22.1	22.9	21.3	22.0	22.0	22.7	23.4
	12H	21.4	22.0	22.0	22.7	23.5	22.0	22.6	22.7	23.3	24.1
12H	4H	18.9	19.7	19.5	20.4	21.1	19.3	20.1	19.9	20.8	21.5
	6H	20.2	20.9	20.9	21.6	22.4	20.7	21.4	21.4	22.1	22.9
	8H	20.9	21.6	21.6	22.3	23.1	21.5	22.1	22.2	22.8	23.6

Maximum UGR = 24.1

POLAR GRAPH



Maximum Candela = 767.439 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.)