

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CLD 48 BOWL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLI-18210-4

[TESTLAB] LightLab International (www.LightLabInternational.com)

[MANUFAC] Justice Design Group, Los Angeles, CA 90071

[LUMCAT] Clouds Resin (CLD) 48" Bowl

[LUMINAIRE] Justice Design Group - Pendant mount luminaire. Product ID: CLD 48" Bowl

[MORE] Extruded base plate with resin bowl lens.

[MORE] 126 LEDs with 21 in each of six arrays with white plastic lenses.

[MORE] No driver.

[MORE] Operating at 120 VAC and 60 Hz.

[OTHER] Absolute test - lamp lumens value set to -1

[MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.

[MORE] The sample was tested at a distance of 8m.

[MORE] This IES file created by LightLab/LSA Report program version 3.820a.

[DATE] This file created: Friday, August 17, 2018 1:06:24 PM

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CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3490
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	68.2
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.22 m (Diameter)
Luminous Width (90-270)	1.22 m (Diameter)
Luminous Height	0.31 m

IES INDOOR REPORT
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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	273	273	273
55	238	238	238
65	196	196	196
75	148	148	148
85	96	96	96

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CANDELA TABULATION

	<u>0</u>
0.0	450.59
0.5	450.55
1.0	450.51
1.5	450.41
2.0	450.24
2.5	450.07
3.0	449.89
3.5	449.56
4.0	449.27
4.5	448.92
5.0	448.54
5.5	448.12
6.0	447.63
6.5	447.11
7.0	446.62
7.5	446.00
8.0	445.35
8.5	444.72
9.0	443.95
9.5	443.20
10.0	442.40
10.5	441.53
11.0	440.66
11.5	439.74
12.0	438.80
12.5	437.80
13.0	436.81
13.5	435.66
14.0	434.58
14.5	433.48
15.0	432.25
15.5	431.04
16.0	429.74
16.5	428.43
17.0	427.06
17.5	425.67
18.0	424.20
18.5	422.83
19.0	421.34
19.5	419.75
20.0	418.22
20.5	416.61
21.0	414.98
21.5	413.27
22.0	411.51
22.5	409.75
23.0	408.00
23.5	406.13
24.0	404.26
24.5	402.40
25.0	400.45
25.5	398.44
26.0	396.45
26.5	394.38

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CANDELA TABULATION - (Cont.)

27.0	392.31
27.5	390.20
28.0	388.05
28.5	385.87
29.0	383.66
29.5	381.41
30.0	379.15
30.5	376.79
31.0	374.41
31.5	372.07
32.0	369.74
32.5	367.27
33.0	364.77
33.5	362.22
34.0	359.73
34.5	357.11
35.0	354.55
35.5	351.94
36.0	349.27
36.5	346.66
37.0	343.95
37.5	341.18
38.0	338.44
38.5	335.62
39.0	332.76
39.5	329.94
40.0	327.13
40.5	324.17
41.0	321.29
41.5	318.39
42.0	315.38
42.5	312.37
43.0	309.36
43.5	306.37
44.0	303.22
44.5	300.18
45.0	297.07
45.5	294.04
46.0	290.87
46.5	287.73
47.0	284.54
47.5	281.32
48.0	278.09
48.5	274.82
49.0	271.66
49.5	268.34
50.0	265.15
50.5	261.85
51.0	258.51
51.5	255.18
52.0	251.85
52.5	248.50
53.0	245.11
53.5	241.80
54.0	238.36
54.5	235.09

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 48 BOWL.IES

CANDELA TABULATION - (Cont.)

55.0	231.65
55.5	228.22
56.0	224.84
56.5	221.42
57.0	217.99
57.5	214.54
58.0	211.17
58.5	207.72
59.0	204.34
59.5	200.85
60.0	197.40
60.5	194.04
61.0	190.53
61.5	187.05
62.0	183.62
62.5	180.21
63.0	176.76
63.5	173.42
64.0	169.92
64.5	166.51
65.0	163.13
65.5	159.71
66.0	156.28
66.5	152.86
67.0	149.49
67.5	146.06
68.0	142.82
68.5	139.41
69.0	136.08
69.5	132.81
70.0	129.48
70.5	126.24
71.0	122.92
71.5	119.67
72.0	116.50
72.5	113.34
73.0	110.16
73.5	107.02
74.0	103.92
74.5	100.80
75.0	97.79
75.5	94.72
76.0	91.74
76.5	88.76
77.0	85.91
77.5	83.12
78.0	80.18
78.5	77.37
79.0	74.60
79.5	71.90
80.0	69.23
80.5	66.62
81.0	64.03
81.5	61.53
82.0	59.05
82.5	56.60

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PHOTOMETRIC FILENAME : CLD 48 BOWL.IES**

CANDELA TABULATION - (Cont.)

83.0	54.28
83.5	51.98
84.0	49.77
84.5	47.55
85.0	45.45
85.5	43.42
86.0	41.56
86.5	39.76
87.0	37.91
87.5	36.26
88.0	34.66
88.5	33.29
89.0	31.99
89.5	30.92
90.0	30.16
90.5	29.68
91.0	29.45
91.5	29.10
92.0	29.07
92.5	29.23
93.0	29.56
93.5	30.15
94.0	30.80
94.5	31.71
95.0	32.74
95.5	33.77
96.0	34.88
96.5	36.09
97.0	37.37
97.5	39.23
98.0	42.89
98.5	49.79
99.0	62.13
99.5	78.72
100.0	97.77
100.5	116.64
101.0	133.14
101.5	146.16
102.0	152.48
102.5	156.51
103.0	161.09
103.5	166.64
104.0	173.01
104.5	180.43
105.0	188.60
105.5	197.74
106.0	207.51
106.5	217.69
107.0	228.49
107.5	239.25
108.0	250.29
108.5	260.69
109.0	270.85
109.5	280.56
110.0	289.98
110.5	299.32

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 48 BOWL.IES

CANDELA TABULATION - (Cont.)

111.0	308.74
111.5	317.69
112.0	326.18
112.5	334.47
113.0	342.17
113.5	349.90
114.0	357.39
114.5	364.86
115.0	372.09
115.5	379.05
116.0	385.73
116.5	391.91
117.0	397.80
117.5	403.22
118.0	408.84
118.5	414.36
119.0	419.96
119.5	425.53
120.0	431.01
120.5	436.44
121.0	441.67
121.5	446.54
122.0	451.00
122.5	455.30
123.0	459.19
123.5	463.03
124.0	466.49
124.5	469.81
125.0	472.95
125.5	475.73
126.0	478.48
126.5	480.88
127.0	483.23
127.5	485.27
128.0	487.33
128.5	489.15
129.0	490.85
129.5	492.56
130.0	494.05
130.5	495.44
131.0	496.75
131.5	497.91
132.0	499.12
132.5	500.20
133.0	501.18
133.5	502.12
134.0	502.99
134.5	503.84
135.0	504.70
135.5	505.47
136.0	506.16
136.5	506.95
137.0	507.70
137.5	508.37
138.0	509.00
138.5	509.57

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CANDELA TABULATION - (Cont.)

139.0	510.15
139.5	510.67
140.0	511.13
140.5	511.45
141.0	511.82
141.5	512.21
142.0	512.48
142.5	512.65
143.0	512.89
143.5	513.11
144.0	513.20
144.5	513.28
145.0	513.40
145.5	513.45
146.0	513.41
146.5	513.39
147.0	513.34
147.5	513.16
148.0	513.04
148.5	512.81
149.0	512.68
149.5	512.29
150.0	512.02
150.5	511.63
151.0	511.13
151.5	510.66
152.0	510.14
152.5	509.57
153.0	509.01
153.5	508.46
154.0	507.87
154.5	507.34
155.0	506.76
155.5	506.13
156.0	505.47
156.5	504.83
157.0	504.22
157.5	503.62
158.0	503.01
158.5	502.32
159.0	501.60
159.5	500.93
160.0	500.26
160.5	499.56
161.0	498.88
161.5	498.20
162.0	497.50
162.5	496.87
163.0	496.21
163.5	495.51
164.0	494.85
164.5	494.23
165.0	493.61
165.5	492.80
166.0	491.89
166.5	490.93

IES INDOOR REPORT
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167.0	489.91
167.5	488.71
168.0	487.51
168.5	486.38
169.0	485.07
169.5	483.83
170.0	482.59
170.5	481.38
171.0	480.24
171.5	479.11
172.0	478.04
172.5	477.02
173.0	476.05
173.5	475.24
174.0	474.37
174.5	473.50
175.0	472.65
175.5	471.73
176.0	470.77
176.5	469.76
177.0	468.73
177.5	467.76
178.0	466.73
178.5	465.68
179.0	464.63
179.5	463.55
180.0	462.53

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	164.59	N.A.	4.70
0-30	349.10	N.A.	10.00
0-40	570.85	N.A.	16.40
0-60	1007.07	N.A.	28.90
0-80	1272.36	N.A.	36.50
0-90	1323.38	N.A.	37.90
10-90	1280.76	N.A.	36.70
20-40	406.26	N.A.	11.60
20-50	635.40	N.A.	18.20
40-70	597.76	N.A.	17.10
60-80	265.29	N.A.	7.60
70-80	103.74	N.A.	3.00
80-90	51.02	N.A.	1.50
90-110	249.22	N.A.	7.10
90-120	613.55	N.A.	17.60
90-130	1034.14	N.A.	29.60
90-150	1746.43	N.A.	50.00
90-180	2166.39	N.A.	62.10
110-180	1917.17	N.A.	54.90
0-180	3489.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.62
10-20	121.97
20-30	184.51
30-40	221.75
40-50	229.13
50-60	207.09
60-70	161.55
70-80	103.74
80-90	51.02
90-100	42.50
100-110	206.72
110-120	364.34
120-130	420.59
130-140	390.17
140-150	322.12
150-160	234.63
160-170	139.92
170-180	45.41

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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		104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1		95	90	86	83	86	82	79	75	66	64	62	52	51	49	39	38	37	31
2		86	78	72	67	78	71	66	62	58	54	51	46	43	41	34	32	31	26
3		78	69	61	56	71	63	56	51	51	46	42	40	37	34	30	28	26	21
4		71	61	53	47	64	55	48	43	45	40	36	36	32	29	27	24	22	18
5		65	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19	16
6		60	48	40	34	54	44	37	32	36	31	27	29	25	22	22	19	17	14
7		56	43	36	30	50	40	33	28	33	27	23	26	22	19	20	17	15	12
8		51	39	32	26	47	36	29	24	30	24	21	24	20	17	18	15	13	11
9		48	36	28	23	43	33	26	22	27	22	18	22	18	15	17	14	12	10
10		45	33	26	21	40	30	24	19	25	20	17	20	16	14	15	13	11	9

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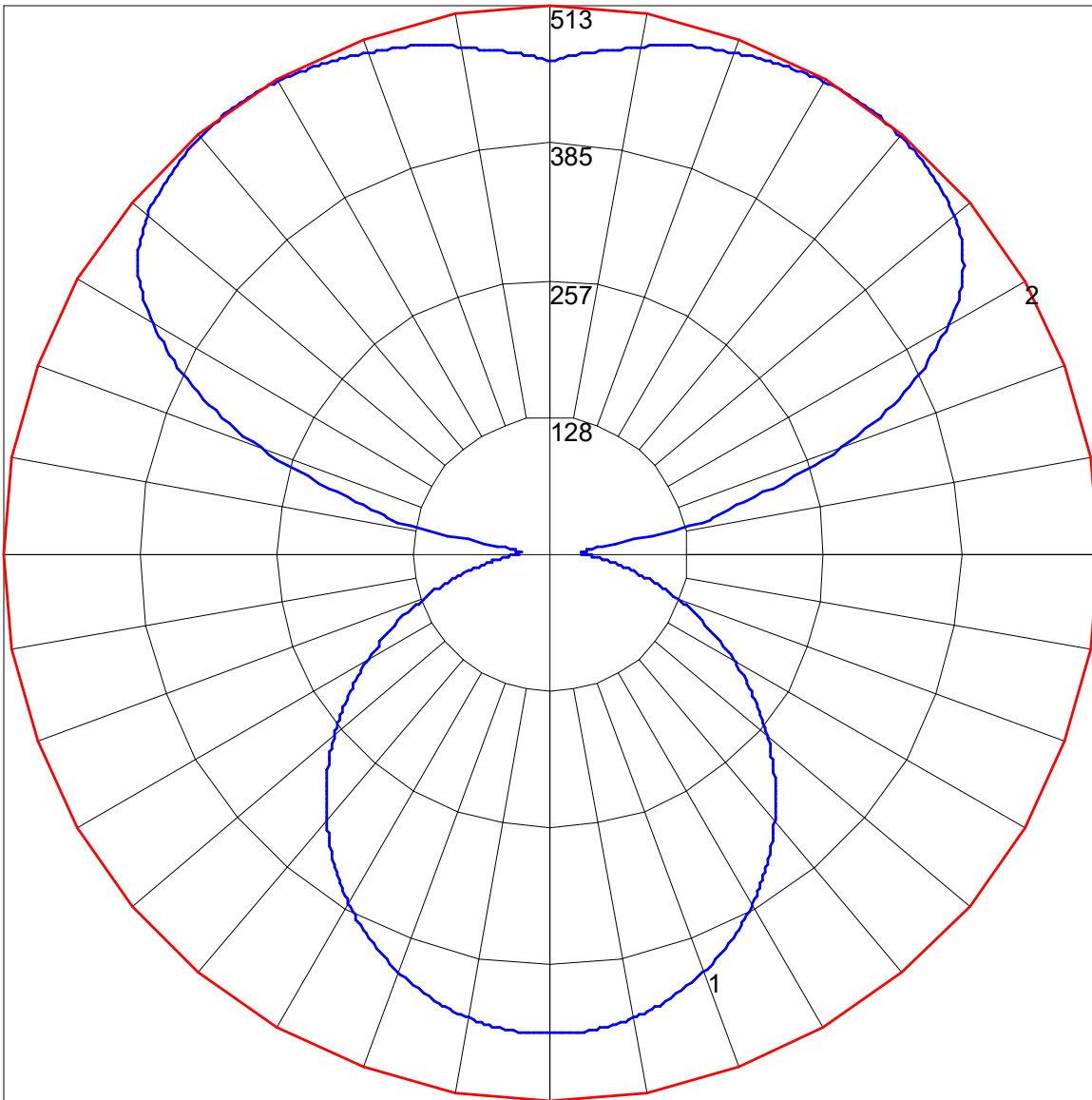
UGR TABLE - CORRECTED

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	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	3H	4.3	4.3	4.3	4.5	5.9	4.3	4.3	4.3	4.5	5.9
	4H	4.3	4.3	4.4	5.1	6.5	4.3	4.3	4.4	5.1	6.5
	6H	4.3	4.4	4.9	5.5	7.0	4.3	4.4	4.9	5.5	7.0
	8H	4.3	4.6	5.1	5.6	7.1	4.3	4.6	5.1	5.6	7.1
	12H	4.3	4.7	5.2	5.7	7.2	4.3	4.7	5.2	5.7	7.2
4H	2H	4.3	4.3	4.3	4.3	4.7	4.3	4.3	4.3	4.3	4.7
	3H	4.3	4.3	4.4	5.0	6.5	4.3	4.3	4.4	5.0	6.5
	4H	4.3	4.6	5.2	5.7	7.2	4.3	4.6	5.2	5.7	7.2
	6H	4.7	5.2	5.8	6.3	7.7	4.7	5.2	5.8	6.3	7.7
	8H	4.9	5.4	6.0	6.5	8.0	4.9	5.4	6.0	6.5	8.0
	12H	5.1	5.5	6.2	6.6	8.1	5.1	5.5	6.2	6.6	8.1
8H	4H	4.3	4.7	5.4	5.8	7.3	4.3	4.7	5.4	5.8	7.3
	6H	5.1	5.4	6.2	6.5	8.0	5.1	5.4	6.2	6.5	8.0
	8H	5.4	5.7	6.5	6.8	8.3	5.4	5.7	6.5	6.8	8.3
	12H	5.7	5.9	6.8	7.0	8.6	5.7	5.9	6.8	7.0	8.6
12H	4H	4.3	4.7	5.4	5.8	7.3	4.3	4.7	5.4	5.8	7.3
	6H	5.1	5.4	6.2	6.5	8.1	5.1	5.4	6.2	6.5	8.1
	8H	5.5	5.7	6.6	6.8	8.4	5.5	5.7	6.6	6.8	8.4

Maximum UGR = 8.6

POLAR GRAPH



Maximum Candela = 513.45 Located At Horizontal Angle = 0, Vertical Angle = 145.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (145.5) (Through Max. Cd.)