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IES INDOOR REPORT

PHOTOMETRIC FILENAME : CLD 14 BOWL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLI-18210-3

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

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

[LUMCAT] Clouds Resin (CLD) 14" Bowl

[LUMINAIRE] Justice Design Group - Pendant mount luminaire. Product ID: CLD 14" Bowl

[MORE] Extruded base plate with resin bowl lens.

[MORE] 42 LEDs with 21 in each of two 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: Monday, August 6, 2018 2:20:59 PM

[ISSUEDATE] Monday, August 6, 2018 2:20:59 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1356
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	22.7
Ballast Factor	1.00
CIE Type	General Diffuse
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)	0.36 m (Diameter)
Luminous Width (90-270)	0.36 m (Diameter)
Luminous Height	0.10 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1500	1500	1500
55	1351	1351	1351
65	1195	1195	1195
75	1040	1040	1040
85	909	909	909

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CANDELA TABULATION

	<u>0</u>
0.0	211.36
0.5	211.35
1.0	211.33
1.5	211.28
2.0	211.21
2.5	211.11
3.0	211.02
3.5	210.90
4.0	210.75
4.5	210.61
5.0	210.43
5.5	210.25
6.0	210.01
6.5	209.79
7.0	209.53
7.5	209.26
8.0	208.97
8.5	208.66
9.0	208.33
9.5	208.00
10.0	207.64
10.5	207.29
11.0	206.90
11.5	206.47
12.0	206.05
12.5	205.61
13.0	205.14
13.5	204.66
14.0	204.17
14.5	203.65
15.0	203.12
15.5	202.57
16.0	201.98
16.5	201.39
17.0	200.79
17.5	200.17
18.0	199.51
18.5	198.88
19.0	198.18
19.5	197.49
20.0	196.79
20.5	196.06
21.0	195.32
21.5	194.55
22.0	193.78
22.5	192.98
23.0	192.19
23.5	191.35
24.0	190.50
24.5	189.66
25.0	188.81
25.5	187.91
26.0	187.00
26.5	186.11

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CANDELA TABULATION - (Cont.)

27.0	185.16
27.5	184.25
28.0	183.29
28.5	182.32
29.0	181.35
29.5	180.36
30.0	179.36
30.5	178.32
31.0	177.30
31.5	176.24
32.0	175.22
32.5	174.14
33.0	173.05
33.5	171.97
34.0	170.87
34.5	169.75
35.0	168.61
35.5	167.48
36.0	166.34
36.5	165.19
37.0	164.03
37.5	162.85
38.0	161.68
38.5	160.47
39.0	159.28
39.5	158.07
40.0	156.84
40.5	155.60
41.0	154.40
41.5	153.13
42.0	151.86
42.5	150.61
43.0	149.34
43.5	148.07
44.0	146.77
44.5	145.49
45.0	144.20
45.5	142.92
46.0	141.63
46.5	140.30
47.0	138.99
47.5	137.65
48.0	136.35
48.5	134.99
49.0	133.67
49.5	132.31
50.0	131.03
50.5	129.66
51.0	128.29
51.5	126.95
52.0	125.56
52.5	124.22
53.0	122.83
53.5	121.47
54.0	120.08
54.5	118.74

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CANDELA TABULATION - (Cont.)

55.0	117.35
55.5	115.97
56.0	114.59
56.5	113.19
57.0	111.80
57.5	110.41
58.0	109.02
58.5	107.62
59.0	106.29
59.5	104.88
60.0	103.48
60.5	102.11
61.0	100.70
61.5	99.30
62.0	97.90
62.5	96.53
63.0	95.12
63.5	93.78
64.0	92.38
64.5	91.01
65.0	89.64
65.5	88.24
66.0	86.90
66.5	85.54
67.0	84.17
67.5	82.81
68.0	81.50
68.5	80.14
69.0	78.81
69.5	77.49
70.0	76.15
70.5	74.84
71.0	73.51
71.5	72.20
72.0	70.89
72.5	69.64
73.0	68.33
73.5	67.07
74.0	65.81
74.5	64.53
75.0	63.31
75.5	62.06
76.0	60.83
76.5	59.60
77.0	58.42
77.5	57.21
78.0	56.01
78.5	54.85
79.0	53.68
79.5	52.53
80.0	51.39
80.5	50.27
81.0	49.15
81.5	48.07
82.0	46.97
82.5	45.91

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CANDELA TABULATION - (Cont.)

83.0	44.88
83.5	43.81
84.0	42.81
84.5	41.78
85.0	40.80
85.5	39.82
86.0	38.89
86.5	37.93
87.0	37.01
87.5	36.11
88.0	35.20
88.5	34.36
89.0	33.50
89.5	32.69
90.0	32.01
90.5	31.47
91.0	31.03
91.5	30.65
92.0	30.34
92.5	30.01
93.0	29.74
93.5	29.49
94.0	29.26
94.5	29.10
95.0	29.13
95.5	29.43
96.0	30.07
96.5	31.03
97.0	32.23
97.5	33.65
98.0	35.03
98.5	36.36
99.0	37.76
99.5	39.06
100.0	40.40
100.5	41.86
101.0	43.36
101.5	44.96
102.0	46.53
102.5	48.15
103.0	49.68
103.5	51.24
104.0	52.74
104.5	54.27
105.0	55.80
105.5	57.31
106.0	58.84
106.5	60.35
107.0	61.88
107.5	63.35
108.0	64.88
108.5	66.33
109.0	67.81
109.5	69.26
110.0	70.73
110.5	72.23

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CANDELA TABULATION - (Cont.)

111.0	73.77
111.5	75.35
112.0	76.91
112.5	78.57
113.0	80.18
113.5	81.89
114.0	83.66
114.5	85.44
115.0	87.27
115.5	89.10
116.0	90.98
116.5	92.86
117.0	94.85
117.5	96.77
118.0	98.75
118.5	100.79
119.0	102.83
119.5	104.88
120.0	106.92
120.5	109.01
121.0	111.07
121.5	113.18
122.0	115.23
122.5	117.34
123.0	119.42
123.5	121.45
124.0	123.51
124.5	125.54
125.0	127.55
125.5	129.50
126.0	131.43
126.5	133.26
127.0	135.09
127.5	136.90
128.0	138.65
128.5	140.33
129.0	142.02
129.5	143.64
130.0	145.21
130.5	146.73
131.0	148.16
131.5	149.62
132.0	151.01
132.5	152.32
133.0	153.61
133.5	154.83
134.0	156.03
134.5	157.17
135.0	158.24
135.5	159.28
136.0	160.26
136.5	161.23
137.0	162.13
137.5	162.99
138.0	163.81
138.5	164.62

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CANDELA TABULATION - (Cont.)

139.0	165.35
139.5	166.03
140.0	166.72
140.5	167.32
141.0	167.92
141.5	168.47
142.0	168.98
142.5	169.49
143.0	169.94
143.5	170.37
144.0	170.81
144.5	171.17
145.0	171.55
145.5	171.86
146.0	172.21
146.5	172.51
147.0	172.80
147.5	173.06
148.0	173.31
148.5	173.56
149.0	173.83
149.5	174.08
150.0	174.32
150.5	174.56
151.0	174.82
151.5	175.05
152.0	175.30
152.5	175.55
153.0	175.78
153.5	175.99
154.0	176.21
154.5	176.42
155.0	176.61
155.5	176.83
156.0	177.04
156.5	177.25
157.0	177.46
157.5	177.64
158.0	177.87
158.5	178.07
159.0	178.28
159.5	178.51
160.0	178.73
160.5	178.96
161.0	179.17
161.5	179.38
162.0	179.59
162.5	179.84
163.0	180.06
163.5	180.33
164.0	180.61
164.5	180.75
165.0	180.72
165.5	180.55
166.0	180.11
166.5	179.36

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CANDELA TABULATION - (Cont.)

167.0	178.41
167.5	177.03
168.0	175.39
168.5	173.60
169.0	171.46
169.5	169.13
170.0	166.60
170.5	163.89
171.0	160.98
171.5	158.09
172.0	155.04
172.5	151.95
173.0	148.82
173.5	145.41
174.0	141.69
174.5	137.51
175.0	133.08
175.5	128.17
176.0	122.97
176.5	117.09
177.0	110.49
177.5	103.57
178.0	95.51
178.5	86.73
179.0	77.91
179.5	69.84
180.0	63.13

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	77.32	N.A.	5.70
0-30	164.34	N.A.	12.10
0-40	269.87	N.A.	19.90
0-60	486.18	N.A.	35.80
0-80	642.05	N.A.	47.30
0-90	686.85	N.A.	50.60
10-90	666.85	N.A.	49.20
20-40	192.55	N.A.	14.20
20-50	303.86	N.A.	22.40
40-70	305.16	N.A.	22.50
60-80	155.88	N.A.	11.50
70-80	67.03	N.A.	4.90
80-90	44.80	N.A.	3.30
90-110	93.77	N.A.	6.90
90-120	180.67	N.A.	13.30
90-130	294.26	N.A.	21.70
90-150	523.42	N.A.	38.60
90-180	669.31	N.A.	49.40
110-180	575.54	N.A.	42.40
0-180	1356.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	20.00
10-20	57.32
20-30	87.02
30-40	105.53
40-50	111.32
50-60	104.99
60-70	88.85
70-80	67.03
80-90	44.80
90-100	34.96
100-110	58.81
110-120	86.90
120-130	113.60
130-140	121.71
140-150	107.44
150-160	81.67
160-170	50.55
170-180	13.66

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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	97	92	87	83	89	85	81	77	71	69	66	59	57	55	48	47	45	40
2	87	79	73	67	80	73	67	62	62	57	54	51	48	45	42	39	37	32
3	79	69	61	55	73	64	57	52	54	49	45	45	41	38	36	34	31	27
4	73	61	53	46	66	57	49	43	48	42	38	40	35	32	32	29	26	23
5	66	54	46	40	61	50	43	37	43	37	32	36	31	27	29	26	23	20
6	61	49	40	34	56	45	37	32	38	32	28	32	27	24	26	23	20	17
7	56	44	36	30	52	41	33	28	35	29	24	29	24	21	24	20	18	15
8	52	40	32	26	48	37	30	25	32	26	22	27	22	19	22	18	16	13
9	49	36	28	23	45	34	27	22	29	23	19	24	20	17	20	17	14	12
10	45	33	26	21	42	31	24	20	27	21	17	23	18	15	19	15	13	11

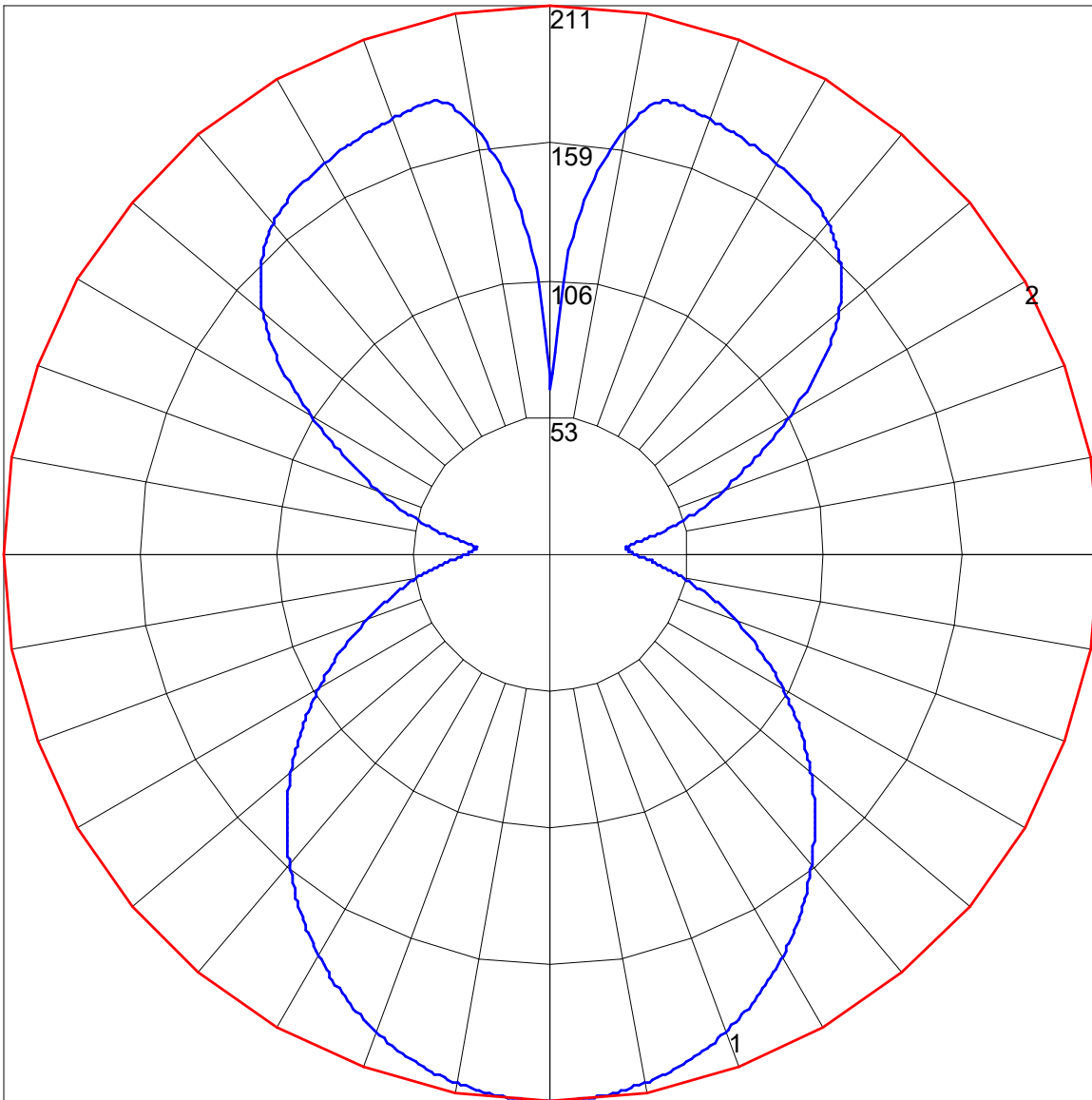
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UGR TABLE - CORRECTED

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	8.5	9.4	9.4	10.3	11.6	8.5	9.4	9.4	10.3	11.6
	3H	10.4	11.3	11.4	12.2	13.5	10.4	11.3	11.4	12.2	13.5
	4H	11.3	12.1	12.3	13.1	14.3	11.3	12.1	12.3	13.1	14.3
	6H	12.1	12.8	13.0	13.8	15.1	12.1	12.8	13.0	13.8	15.1
	8H	12.4	13.1	13.4	14.1	15.4	12.4	13.1	13.4	14.1	15.4
	12H	12.7	13.4	13.7	14.4	15.7	12.7	13.4	13.7	14.4	15.7
4H	2H	9.0	9.8	10.0	10.8	12.1	9.0	9.8	10.0	10.8	12.1
	3H	11.2	11.9	12.2	12.9	14.2	11.2	11.9	12.2	12.9	14.2
	4H	12.2	12.8	13.2	13.8	15.1	12.2	12.8	13.2	13.8	15.1
	6H	13.1	13.7	14.1	14.7	16.0	13.1	13.7	14.1	14.7	16.0
	8H	13.6	14.1	14.6	15.1	16.4	13.6	14.1	14.6	15.1	16.4
	12H	14.0	14.4	15.0	15.4	16.8	14.0	14.4	15.0	15.4	16.8
8H	4H	12.5	13.0	13.5	14.0	15.4	12.5	13.0	13.5	14.0	15.4
	6H	13.6	14.1	14.7	15.1	16.4	13.6	14.1	14.7	15.1	16.4
	8H	14.2	14.6	15.2	15.6	16.9	14.2	14.6	15.2	15.6	16.9
	12H	14.7	15.1	15.8	16.1	17.5	14.7	15.1	15.8	16.1	17.5
12H	4H	12.6	13.0	13.6	14.0	15.4	12.6	13.0	13.6	14.0	15.4
	6H	13.7	14.1	14.8	15.1	16.5	13.7	14.1	14.8	15.1	16.5
	8H	14.3	14.7	15.4	15.7	17.1	14.3	14.7	15.4	15.7	17.1

Maximum UGR = 17.5

POLAR GRAPH



Maximum Candela = 211.36 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.)