



The Perfect Lighting Choice.™

visit us at www.JDG.com

IES INDOOR REPORT PHOTOMETRIC FILENAME : CLD 18 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) 18" Bowl
 [LUMINAIRE] Justice Design Group - Pendant mount luminaire. Product ID: CLD 18" Bowl
 [MORE] Extruded base plate with resin bowl lens.
 [MORE] 63 LEDs with 21 in each of three 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.
 [ISSUEDATE] August, 2018

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2034
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	52
Total Luminaire Watts	39
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)	0.53 m (Diameter)
Luminous Width (90-270)	0.53 m (Diameter)
Luminous Height	0.13 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1042	1042	1042
55	948	948	948
65	850	850	850
75	755	755	755
85	683	683	683

**IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 18 BOWL.IES**

CANDELA TABULATION

	<u>0</u>
0.0	317.040
0.5	317.025
1.0	316.995
1.5	316.920
2.0	316.815
2.5	316.665
3.0	316.530
3.5	316.350
4.0	316.125
4.5	315.915
5.0	315.645
5.5	315.375
6.0	315.015
6.5	314.685
7.0	314.295
7.5	313.890
8.0	313.455
8.5	312.990
9.0	312.495
9.5	312.000
10.0	311.460
10.5	310.935
11.0	310.350
11.5	309.705
12.0	309.075
12.5	308.415
13.0	307.710
13.5	306.990
14.0	306.255
14.5	305.475
15.0	304.680
15.5	303.855
16.0	302.970
16.5	302.085
17.0	301.185
17.5	300.255
18.0	299.265
18.5	298.320
19.0	297.270
19.5	296.235
20.0	295.185
20.5	294.090
21.0	292.980
21.5	291.825
22.0	290.670
22.5	289.470
23.0	288.285
23.5	287.025
24.0	285.750
24.5	284.490
25.0	283.215
25.5	281.865
26.0	280.500
26.5	279.165

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 18 BOWL.IES

CANDELA TABULATION - (Cont.)

27.0	277.740
27.5	276.375
28.0	274.935
28.5	273.480
29.0	272.025
29.5	270.540
30.0	269.040
30.5	267.480
31.0	265.950
31.5	264.360
32.0	262.830
32.5	261.210
33.0	259.575
33.5	257.955
34.0	256.305
34.5	254.625
35.0	252.915
35.5	251.220
36.0	249.510
36.5	247.785
37.0	246.045
37.5	244.275
38.0	242.520
38.5	240.705
39.0	238.920
39.5	237.105
40.0	235.260
40.5	233.400
41.0	231.600
41.5	229.695
42.0	227.790
42.5	225.915
43.0	224.010
43.5	222.105
44.0	220.155
44.5	218.235
45.0	216.300
45.5	214.380
46.0	212.445
46.5	210.450
47.0	208.485
47.5	206.475
48.0	204.525
48.5	202.485
49.0	200.505
49.5	198.465
50.0	196.545
50.5	194.490
51.0	192.435
51.5	190.425
52.0	188.340
52.5	186.330
53.0	184.245
53.5	182.205
54.0	180.120
54.5	178.110

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 18 BOWL.IES

CANDELA TABULATION - (Cont.)

55.0	176.025
55.5	173.955
56.0	171.885
56.5	169.785
57.0	167.700
57.5	165.615
58.0	163.530
58.5	161.430
59.0	159.435
59.5	157.320
60.0	155.220
60.5	153.165
61.0	151.050
61.5	148.950
62.0	146.850
62.5	144.795
63.0	142.680
63.5	140.670
64.0	138.570
64.5	136.515
65.0	134.460
65.5	132.360
66.0	130.350
66.5	128.310
67.0	126.255
67.5	124.215
68.0	122.250
68.5	120.210
69.0	118.215
69.5	116.235
70.0	114.225
70.5	112.260
71.0	110.265
71.5	108.300
72.0	106.335
72.5	104.460
73.0	102.495
73.5	100.605
74.0	98.715
74.5	96.795
75.0	94.965
75.5	93.090
76.0	91.245
76.5	89.400
77.0	87.630
77.5	85.815
78.0	84.015
78.5	82.275
79.0	80.520
79.5	78.795
80.0	77.085
80.5	75.405
81.0	73.725
81.5	72.105
82.0	70.455
82.5	68.865

**IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 18 BOWL.IES**

CANDELA TABULATION - (Cont.)

83.0	67.320
83.5	65.715
84.0	64.215
84.5	62.670
85.0	61.200
85.5	59.730
86.0	58.335
86.5	56.895
87.0	55.515
87.5	54.165
88.0	52.800
88.5	51.540
89.0	50.250
89.5	49.035
90.0	48.015
90.5	47.205
91.0	46.545
91.5	45.975
92.0	45.510
92.5	45.015
93.0	44.610
93.5	44.235
94.0	43.890
94.5	43.650
95.0	43.695
95.5	44.145
96.0	45.105
96.5	46.545
97.0	48.345
97.5	50.475
98.0	52.545
98.5	54.540
99.0	56.640
99.5	58.590
100.0	60.600
100.5	62.790
101.0	65.040
101.5	67.440
102.0	69.795
102.5	72.225
103.0	74.520
103.5	76.860
104.0	79.110
104.5	81.405
105.0	83.700
105.5	85.965
106.0	88.260
106.5	90.525
107.0	92.820
107.5	95.025
108.0	97.320
108.5	99.495
109.0	101.715
109.5	103.890
110.0	106.095
110.5	108.345

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 18 BOWL.IES

CANDELA TABULATION - (Cont.)

111.0	110.655
111.5	113.025
112.0	115.365
112.5	117.855
113.0	120.270
113.5	122.835
114.0	125.490
114.5	128.160
115.0	130.905
115.5	133.650
116.0	136.470
116.5	139.290
117.0	142.275
117.5	145.155
118.0	148.125
118.5	151.185
119.0	154.245
119.5	157.320
120.0	160.380
120.5	163.515
121.0	166.605
121.5	169.770
122.0	172.845
122.5	176.010
123.0	179.130
123.5	182.175
124.0	185.265
124.5	188.310
125.0	191.325
125.5	194.250
126.0	197.145
126.5	199.890
127.0	202.635
127.5	205.350
128.0	207.975
128.5	210.495
129.0	213.030
129.5	215.460
130.0	217.815
130.5	220.095
131.0	222.240
131.5	224.430
132.0	226.515
132.5	228.480
133.0	230.415
133.5	232.245
134.0	234.045
134.5	235.755
135.0	237.360
135.5	238.920
136.0	240.390
136.5	241.845
137.0	243.195
137.5	244.485
138.0	245.715
138.5	246.930

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 18 BOWL.IES

CANDELA TABULATION - (Cont.)

139.0	248.025
139.5	249.045
140.0	250.080
140.5	250.980
141.0	251.880
141.5	252.705
142.0	253.470
142.5	254.235
143.0	254.910
143.5	255.555
144.0	256.215
144.5	256.755
145.0	257.325
145.5	257.790
146.0	258.315
146.5	258.765
147.0	259.200
147.5	259.590
148.0	259.965
148.5	260.340
149.0	260.745
149.5	261.120
150.0	261.480
150.5	261.840
151.0	262.230
151.5	262.575
152.0	262.950
152.5	263.325
153.0	263.670
153.5	263.985
154.0	264.315
154.5	264.630
155.0	264.915
155.5	265.245
156.0	265.560
156.5	265.875
157.0	266.190
157.5	266.460
158.0	266.805
158.5	267.105
159.0	267.420
159.5	267.765
160.0	268.095
160.5	268.440
161.0	268.755
161.5	269.070
162.0	269.385
162.5	269.760
163.0	270.090
163.5	270.495
164.0	270.915
164.5	271.125
165.0	271.080
165.5	270.825
166.0	270.165
166.5	269.040

**IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 18 BOWL.IES**

CANDELA TABULATION - (Cont.)

167.0	267.615
167.5	265.545
168.0	263.085
168.5	260.400
169.0	257.190
169.5	253.695
170.0	249.900
170.5	245.835
171.0	241.470
171.5	237.135
172.0	232.560
172.5	227.925
173.0	223.230
173.5	218.115
174.0	212.535
174.5	206.265
175.0	199.620
175.5	192.255
176.0	184.455
176.5	175.635
177.0	165.735
177.5	155.355
178.0	143.265
178.5	130.095
179.0	116.865
179.5	104.760
180.0	94.695

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 18 BOWL.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	115.98	N.A.	5.70
0-30	246.51	N.A.	12.10
0-40	404.80	N.A.	19.90
0-60	729.27	N.A.	35.80
0-80	963.08	N.A.	47.30
0-90	1030.27	N.A.	50.60
10-90	1000.28	N.A.	49.20
20-40	288.82	N.A.	14.20
20-50	455.79	N.A.	22.40
40-70	457.74	N.A.	22.50
60-80	233.81	N.A.	11.50
70-80	100.54	N.A.	4.90
80-90	67.20	N.A.	3.30
90-110	140.65	N.A.	6.90
90-120	271.00	N.A.	13.30
90-130	441.40	N.A.	21.70
90-150	785.13	N.A.	38.60
90-180	1003.96	N.A.	49.40
110-180	863.31	N.A.	42.40
0-180	2034.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	30.00
10-20	85.99
20-30	130.53
30-40	158.29
40-50	166.97
50-60	157.49
60-70	133.27
70-80	100.54
80-90	67.20
90-100	52.44
100-110	88.21
110-120	130.35
120-130	170.39
130-140	182.57
140-150	161.17
150-160	122.51
160-170	75.83
170-180	20.49

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 18 BOWL.IES

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	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 18 BOWL.IES

UGR TABLE - CORRECTED

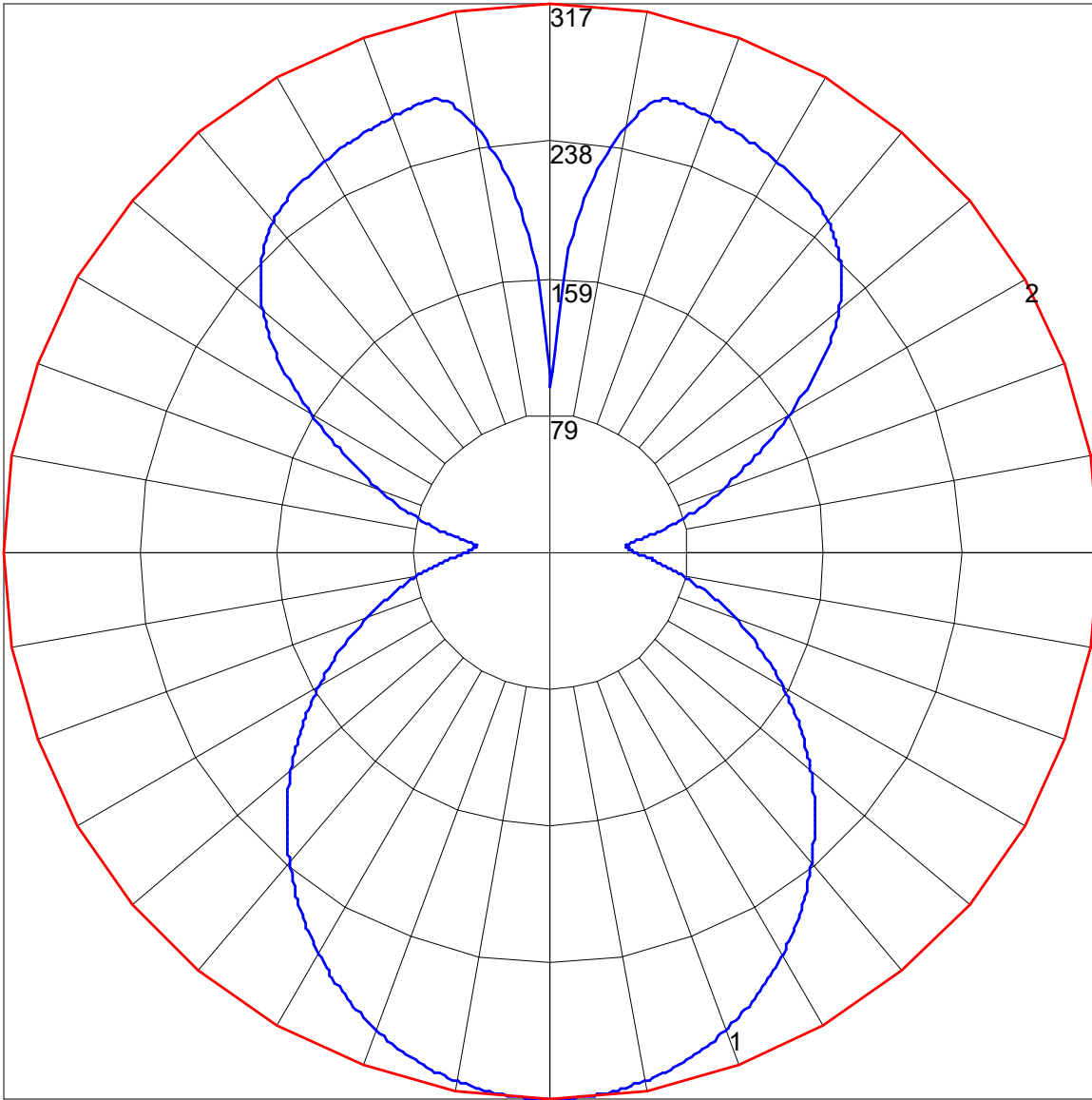
Reflectances

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	7.2	8.1	8.2	9.1	10.4	7.2	8.1	8.2	9.1	10.4
	3H	9.2	10.1	10.2	11.0	12.3	9.2	10.1	10.2	11.0	12.3
	4H	10.1	10.9	11.1	11.9	13.1	10.1	10.9	11.1	11.9	13.1
	6H	10.9	11.6	11.9	12.6	13.9	10.9	11.6	11.9	12.6	13.9
	8H	11.2	11.9	12.2	12.9	14.2	11.2	11.9	12.2	12.9	14.2
	12H	11.6	12.2	12.6	13.2	14.5	11.6	12.2	12.6	13.2	14.5
4H	2H	7.8	8.6	8.8	9.6	10.8	7.8	8.6	8.8	9.6	10.8
	3H	10.0	10.7	11.0	11.7	13.0	10.0	10.7	11.0	11.7	13.0
	4H	11.0	11.6	12.0	12.6	14.0	11.0	11.6	12.0	12.6	14.0
	6H	12.0	12.5	13.0	13.5	14.8	12.0	12.5	13.0	13.5	14.8
	8H	12.4	12.9	13.4	13.9	15.3	12.4	12.9	13.4	13.9	15.3
	12H	12.8	13.3	13.8	14.3	15.6	12.8	13.3	13.8	14.3	15.6
8H	4H	11.4	11.9	12.4	12.9	14.2	11.4	11.9	12.4	12.9	14.2
	6H	12.5	12.9	13.5	14.0	15.3	12.5	12.9	13.5	14.0	15.3
	8H	13.1	13.4	14.1	14.5	15.8	13.1	13.4	14.1	14.5	15.8
	12H	13.6	13.9	14.6	15.0	16.4	13.6	13.9	14.6	15.0	16.4
12H	4H	11.4	11.9	12.4	12.9	14.2	11.4	11.9	12.4	12.9	14.2
	6H	12.6	13.0	13.6	14.0	15.4	12.6	13.0	13.6	14.0	15.4
	8H	13.2	13.5	14.2	14.6	16.0	13.2	13.5	14.2	14.6	16.0

Maximum UGR = 16.4

POLAR GRAPH



Maximum Candela = 317.04 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.)