



The Perfect Lighting Choice.™

visit us at www.JDG.com

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 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] Alabaster Rocks (ALR) 14" Bowl
[LUMINAIRE] Justice Design Group - Pendant mount luminaire. Product ID: ALR 14" Bowl
[MORE] Extruded base plate with shaved alabaster rock in resin cast 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	1188
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	52
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 14 BOWL.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1314	1314	1314
55	1183	1183	1183
65	1047	1047	1047
75	911	911	911
85	797	797	797

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 14 BOWL.IES

CANDELA TABULATION

	<u>0</u>
0.0	185.151
0.5	185.143
1.0	185.125
1.5	185.081
2.0	185.020
2.5	184.932
3.0	184.854
3.5	184.748
4.0	184.617
4.5	184.494
5.0	184.337
5.5	184.179
6.0	183.969
6.5	183.776
7.0	183.548
7.5	183.312
8.0	183.058
8.5	182.786
9.0	182.497
9.5	182.208
10.0	181.893
10.5	181.586
11.0	181.244
11.5	180.868
12.0	180.500
12.5	180.114
13.0	179.703
13.5	179.282
14.0	178.853
14.5	178.397
15.0	177.933
15.5	177.451
16.0	176.934
16.5	176.418
17.0	175.892
17.5	175.349
18.0	174.771
18.5	174.219
19.0	173.606
19.5	173.001
20.0	172.388
20.5	171.749
21.0	171.100
21.5	170.426
22.0	169.751
22.5	169.050
23.0	168.358
23.5	167.623
24.0	166.878
24.5	166.142
25.0	165.398
25.5	164.609
26.0	163.812
26.5	163.032

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 14 BOWL.IES

CANDELA TABULATION - (Cont.)

27.0	162.200
27.5	161.403
28.0	160.562
28.5	159.712
29.0	158.863
29.5	157.995
30.0	157.119
30.5	156.208
31.0	155.315
31.5	154.386
32.0	153.493
32.5	152.547
33.0	151.592
33.5	150.646
34.0	149.682
34.5	148.701
35.0	147.702
35.5	146.712
36.0	145.714
36.5	144.706
37.0	143.690
37.5	142.657
38.0	141.632
38.5	140.572
39.0	139.529
39.5	138.469
40.0	137.392
40.5	136.306
41.0	135.254
41.5	134.142
42.0	133.029
42.5	131.934
43.0	130.822
43.5	129.709
44.0	128.571
44.5	127.449
45.0	126.319
45.5	125.198
46.0	124.068
46.5	122.903
47.0	121.755
47.5	120.581
48.0	119.443
48.5	118.251
49.0	117.095
49.5	115.904
50.0	114.782
50.5	113.582
51.0	112.382
51.5	111.208
52.0	109.991
52.5	108.817
53.0	107.599
53.5	106.408
54.0	105.190
54.5	104.016

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 14 BOWL.IES

CANDELA TABULATION - (Cont.)

55.0	102.799
55.5	101.590
56.0	100.381
56.5	99.154
57.0	97.937
57.5	96.719
58.0	95.502
58.5	94.275
59.0	93.110
59.5	91.875
60.0	90.648
60.5	89.448
61.0	88.213
61.5	86.987
62.0	85.760
62.5	84.560
63.0	83.325
63.5	82.151
64.0	80.925
64.5	79.725
65.0	78.525
65.5	77.298
66.0	76.124
66.5	74.933
67.0	73.733
67.5	72.542
68.0	71.394
68.5	70.203
69.0	69.038
69.5	67.881
70.0	66.707
70.5	65.560
71.0	64.395
71.5	63.247
72.0	62.100
72.5	61.005
73.0	59.857
73.5	58.753
74.0	57.650
74.5	56.528
75.0	55.460
75.5	54.365
76.0	53.287
76.5	52.210
77.0	51.176
77.5	50.116
78.0	49.065
78.5	48.049
79.0	47.024
79.5	46.016
80.0	45.018
80.5	44.037
81.0	43.055
81.5	42.109
82.0	41.146
82.5	40.217

**IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 14 BOWL.IES**

CANDELA TABULATION - (Cont.)

83.0	39.315
83.5	38.378
84.0	37.502
84.5	36.599
85.0	35.741
85.5	34.882
86.0	34.068
86.5	33.227
87.0	32.421
87.5	31.632
88.0	30.835
88.5	30.099
89.0	29.346
89.5	28.636
90.0	28.041
90.5	27.568
91.0	27.182
91.5	26.849
92.0	26.578
92.5	26.289
93.0	26.052
93.5	25.833
94.0	25.632
94.5	25.492
95.0	25.518
95.5	25.781
96.0	26.341
96.5	27.182
97.0	28.233
97.5	29.477
98.0	30.686
98.5	31.851
99.0	33.078
99.5	34.217
100.0	35.390
100.5	36.669
101.0	37.983
101.5	39.385
102.0	40.760
102.5	42.179
103.0	43.520
103.5	44.886
104.0	46.200
104.5	47.541
105.0	48.881
105.5	50.204
106.0	51.544
106.5	52.867
107.0	54.207
107.5	55.495
108.0	56.835
108.5	58.105
109.0	59.402
109.5	60.672
110.0	61.959
110.5	63.273

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 14 BOWL.IES

CANDELA TABULATION - (Cont.)

111.0	64.623
111.5	66.007
112.0	67.373
112.5	68.827
113.0	70.238
113.5	71.736
114.0	73.286
114.5	74.845
115.0	76.449
115.5	78.052
116.0	79.698
116.5	81.345
117.0	83.089
117.5	84.771
118.0	86.505
118.5	88.292
119.0	90.079
119.5	91.875
120.0	93.662
120.5	95.493
121.0	97.297
121.5	99.146
122.0	100.941
122.5	102.790
123.0	104.612
123.5	106.390
124.0	108.195
124.5	109.973
125.0	111.734
125.5	113.442
126.0	115.133
126.5	116.736
127.0	118.339
127.5	119.924
128.0	121.457
128.5	122.929
129.0	124.410
129.5	125.829
130.0	127.204
130.5	128.535
131.0	129.788
131.5	131.067
132.0	132.285
132.5	133.432
133.0	134.562
133.5	135.631
134.0	136.682
134.5	137.681
135.0	138.618
135.5	139.529
136.0	140.388
136.5	141.237
137.0	142.026
137.5	142.779
138.0	143.498
138.5	144.207

**IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 14 BOWL.IES**

CANDELA TABULATION - (Cont.)

139.0	144.847
139.5	145.442
140.0	146.047
140.5	146.572
141.0	147.098
141.5	147.580
142.0	148.026
142.5	148.473
143.0	148.867
143.5	149.244
144.0	149.630
144.5	149.945
145.0	150.278
145.5	150.549
146.0	150.856
146.5	151.119
147.0	151.373
147.5	151.601
148.0	151.820
148.5	152.039
149.0	152.275
149.5	152.494
150.0	152.704
150.5	152.915
151.0	153.142
151.5	153.344
152.0	153.563
152.5	153.782
153.0	153.983
153.5	154.167
154.0	154.360
154.5	154.544
155.0	154.710
155.5	154.903
156.0	155.087
156.5	155.271
157.0	155.455
157.5	155.613
158.0	155.814
158.5	155.989
159.0	156.173
159.5	156.375
160.0	156.567
160.5	156.769
161.0	156.953
161.5	157.137
162.0	157.321
162.5	157.540
163.0	157.733
163.5	157.969
164.0	158.214
164.5	158.337
165.0	158.311
165.5	158.162
166.0	157.776
166.5	157.119

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 14 BOWL.IES

CANDELA TABULATION - (Cont.)

167.0	156.287
167.5	155.078
168.0	153.642
168.5	152.074
169.0	150.199
169.5	148.158
170.0	145.942
170.5	143.568
171.0	141.018
171.5	138.487
172.0	135.815
172.5	133.108
173.0	130.366
173.5	127.379
174.0	124.120
174.5	120.459
175.0	116.578
175.5	112.277
176.0	107.722
176.5	102.571
177.0	96.789
177.5	90.727
178.0	83.667
178.5	75.975
179.0	68.249
179.5	61.180
180.0	55.302

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 14 BOWL.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	67.73	N.A.	5.70
0-30	143.96	N.A.	12.10
0-40	236.40	N.A.	19.90
0-60	425.89	N.A.	35.80
0-80	562.44	N.A.	47.30
0-90	601.68	N.A.	50.60
10-90	584.16	N.A.	49.20
20-40	168.67	N.A.	14.20
20-50	266.18	N.A.	22.40
40-70	267.32	N.A.	22.50
60-80	136.55	N.A.	11.50
70-80	58.72	N.A.	4.90
80-90	39.24	N.A.	3.30
90-110	82.14	N.A.	6.90
90-120	158.27	N.A.	13.30
90-130	257.78	N.A.	21.70
90-150	458.52	N.A.	38.60
90-180	586.31	N.A.	49.40
110-180	504.17	N.A.	42.40
0-180	1187.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	17.52
10-20	50.22
20-30	76.23
30-40	92.44
40-50	97.51
50-60	91.97
60-70	77.83
70-80	58.72
80-90	39.24
90-100	30.62
100-110	51.52
110-120	76.13
120-130	99.51
130-140	106.62
140-150	94.12
150-160	71.55
160-170	44.29
170-180	11.96

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 14 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	44	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

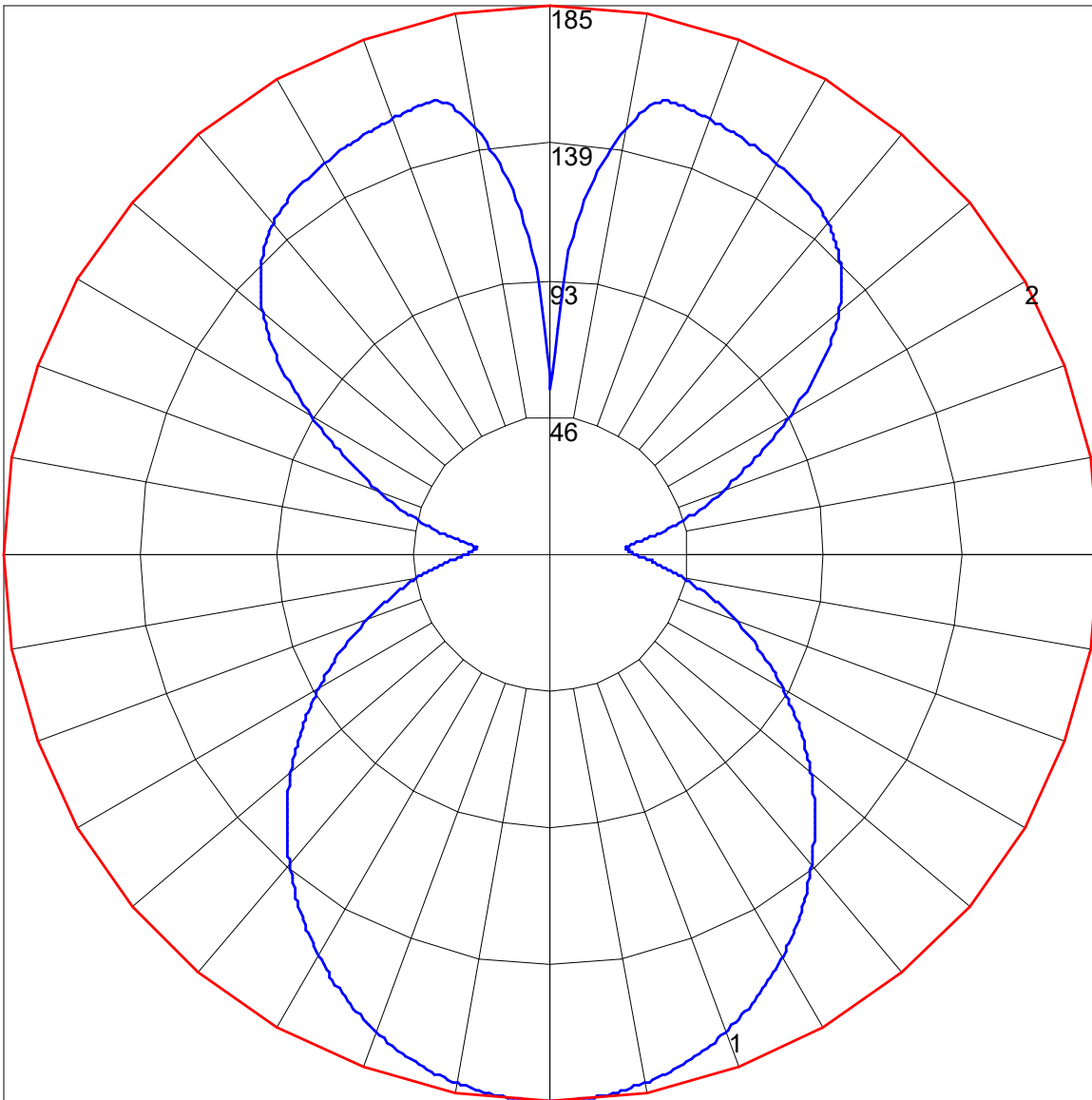
IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 14 BOWL.IES

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	8.0	8.9	8.9	9.8	11.1	8.0	8.9	8.9	9.8	11.1
	3H	9.9	10.8	10.9	11.7	13.0	9.9	10.8	10.9	11.7	13.0
	4H	10.8	11.6	11.8	12.6	13.8	10.8	11.6	11.8	12.6	13.8
	6H	11.6	12.3	12.5	13.3	14.6	11.6	12.3	12.5	13.3	14.6
	8H	11.9	12.6	12.9	13.6	14.9	11.9	12.6	12.9	13.6	14.9
	12H	12.2	12.9	13.2	13.9	15.2	12.2	12.9	13.2	13.9	15.2
4H	2H	8.5	9.3	9.5	10.3	11.6	8.5	9.3	9.5	10.3	11.6
	3H	10.7	11.4	11.7	12.4	13.7	10.7	11.4	11.7	12.4	13.7
	4H	11.7	12.3	12.7	13.3	14.6	11.7	12.3	12.7	13.3	14.6
	6H	12.6	13.2	13.6	14.2	15.5	12.6	13.2	13.6	14.2	15.5
	8H	13.1	13.6	14.1	14.6	15.9	13.1	13.6	14.1	14.6	15.9
	12H	13.5	13.9	14.5	14.9	16.3	13.5	13.9	14.5	14.9	16.3
8H	4H	12.0	12.5	13.0	13.5	14.9	12.0	12.5	13.0	13.5	14.9
	6H	13.1	13.6	14.2	14.6	15.9	13.1	13.6	14.2	14.6	15.9
	8H	13.7	14.1	14.7	15.1	16.4	13.7	14.1	14.7	15.1	16.4
	12H	14.2	14.6	15.3	15.6	17.0	14.2	14.6	15.3	15.6	17.0
12H	4H	12.1	12.5	13.1	13.5	14.9	12.1	12.5	13.1	13.5	14.9
	6H	13.2	13.6	14.3	14.6	16.0	13.2	13.6	14.3	14.6	16.0
	8H	13.8	14.2	14.9	15.2	16.6	13.8	14.2	14.9	15.2	16.6

Maximum UGR = 17.0

POLAR GRAPH



Maximum Candela = 185.151 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.)