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IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 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] Alabaster Rocks (ALR) 48" Bowl
[LUMINAIRE] Justice Design Group - Pendant mount luminaire. Product ID: ALR 48" Bowl
[MORE] Extruded base plate with shaved alabaster rock in resin cast 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
[ISSUEDATE] Friday, August 17, 2018 1:06:24 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3057
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	45
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	239	239	239
55	208	208	208
65	172	172	172
75	130	130	130
85	84	84	84

IES INDOOR REPORT
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CANDELA TABULATION

	<u>0</u>
0.0	394.717
0.5	394.682
1.0	394.647
1.5	394.559
2.0	394.410
2.5	394.261
3.0	394.104
3.5	393.815
4.0	393.561
4.5	393.254
5.0	392.921
5.5	392.553
6.0	392.124
6.5	391.668
7.0	391.239
7.5	390.696
8.0	390.127
8.5	389.575
9.0	388.900
9.5	388.243
10.0	387.542
10.5	386.780
11.0	386.018
11.5	385.212
12.0	384.389
12.5	383.513
13.0	382.646
13.5	381.638
14.0	380.692
14.5	379.728
15.0	378.651
15.5	377.591
16.0	376.452
16.5	375.305
17.0	374.105
17.5	372.887
18.0	371.599
18.5	370.399
19.0	369.094
19.5	367.701
20.0	366.361
20.5	364.950
21.0	363.522
21.5	362.025
22.0	360.483
22.5	358.941
23.0	357.408
23.5	355.770
24.0	354.132
24.5	352.502
25.0	350.794
25.5	349.033
26.0	347.290
26.5	345.477

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 48 BOWL.IES

CANDELA TABULATION - (Cont.)

27.0	343.664
27.5	341.815
28.0	339.932
28.5	338.022
29.0	336.086
29.5	334.115
30.0	332.135
30.5	330.068
31.0	327.983
31.5	325.933
32.0	323.892
32.5	321.729
33.0	319.539
33.5	317.305
34.0	315.123
34.5	312.828
35.0	310.586
35.5	308.299
36.0	305.961
36.5	303.674
37.0	301.300
37.5	298.874
38.0	296.473
38.5	294.003
39.0	291.498
39.5	289.027
40.0	286.566
40.5	283.973
41.0	281.450
41.5	278.910
42.0	276.273
42.5	273.636
43.0	270.999
43.5	268.380
44.0	265.621
44.5	262.958
45.0	260.233
45.5	257.579
46.0	254.802
46.5	252.051
47.0	249.257
47.5	246.436
48.0	243.607
48.5	240.742
49.0	237.974
49.5	235.066
50.0	232.271
50.5	229.381
51.0	226.455
51.5	223.538
52.0	220.621
52.5	217.686
53.0	214.716
53.5	211.817
54.0	208.803
54.5	205.939

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

55.0	202.925
55.5	199.921
56.0	196.960
56.5	193.964
57.0	190.959
57.5	187.937
58.0	184.985
58.5	181.963
59.0	179.002
59.5	175.945
60.0	172.922
60.5	169.979
61.0	166.904
61.5	163.856
62.0	160.851
62.5	157.864
63.0	154.842
63.5	151.916
64.0	148.850
64.5	145.863
65.0	142.902
65.5	139.906
66.0	136.901
66.5	133.905
67.0	130.953
67.5	127.949
68.0	125.110
68.5	122.123
69.0	119.206
69.5	116.342
70.0	113.424
70.5	110.586
71.0	107.678
71.5	104.831
72.0	102.054
72.5	99.286
73.0	96.500
73.5	93.750
74.0	91.034
74.5	88.301
75.0	85.664
75.5	82.975
76.0	80.364
76.5	77.754
77.0	75.257
77.5	72.813
78.0	70.238
78.5	67.776
79.0	65.350
79.5	62.984
80.0	60.645
80.5	58.359
81.0	56.090
81.5	53.900
82.0	51.728
82.5	49.582

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

83.0	47.549
83.5	45.534
84.0	43.599
84.5	41.654
85.0	39.814
85.5	38.036
86.0	36.407
86.5	34.830
87.0	33.209
87.5	31.764
88.0	30.362
88.5	29.162
89.0	28.023
89.5	27.086
90.0	26.420
90.5	26.000
91.0	25.798
91.5	25.492
92.0	25.465
92.5	25.605
93.0	25.895
93.5	26.411
94.0	26.981
94.5	27.778
95.0	28.680
95.5	29.583
96.0	30.555
96.5	31.615
97.0	32.736
97.5	34.365
98.0	37.572
98.5	43.616
99.0	54.426
99.5	68.959
100.0	85.647
100.5	102.177
101.0	116.631
101.5	128.036
102.0	133.572
102.5	137.103
103.0	141.115
103.5	145.977
104.0	151.557
104.5	158.057
105.0	165.214
105.5	173.220
106.0	181.779
106.5	190.696
107.0	200.157
107.5	209.583
108.0	219.254
108.5	228.364
109.0	237.265
109.5	245.771
110.0	254.022
110.5	262.204

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 48 BOWL.IES

CANDELA TABULATION - (Cont.)

111.0	270.456
111.5	278.296
112.0	285.734
112.5	292.996
113.0	299.741
113.5	306.512
114.0	313.074
114.5	319.617
115.0	325.951
115.5	332.048
116.0	337.899
116.5	343.313
117.0	348.473
117.5	353.221
118.0	358.144
118.5	362.979
119.0	367.885
119.5	372.764
120.0	377.565
120.5	382.321
121.0	386.903
121.5	391.169
122.0	395.076
122.5	398.843
123.0	402.250
123.5	405.614
124.0	408.645
124.5	411.554
125.0	414.304
125.5	416.739
126.0	419.148
126.5	421.251
127.0	423.309
127.5	425.097
128.0	426.901
128.5	428.495
129.0	429.985
129.5	431.483
130.0	432.788
130.5	434.005
131.0	435.153
131.5	436.169
132.0	437.229
132.5	438.175
133.0	439.034
133.5	439.857
134.0	440.619
134.5	441.364
135.0	442.117
135.5	442.792
136.0	443.396
136.5	444.088
137.0	444.745
137.5	445.332
138.0	445.884
138.5	446.383

**IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 48 BOWL.IES**

CANDELA TABULATION - (Cont.)

139.0	446.891
139.5	447.347
140.0	447.750
140.5	448.030
141.0	448.354
141.5	448.696
142.0	448.932
142.5	449.081
143.0	449.292
143.5	449.484
144.0	449.563
144.5	449.633
145.0	449.738
145.5	449.782
146.0	449.747
146.5	449.730
147.0	449.686
147.5	449.528
148.0	449.423
148.5	449.222
149.0	449.108
149.5	448.766
150.0	448.530
150.5	448.188
151.0	447.750
151.5	447.338
152.0	446.883
152.5	446.383
153.0	445.893
153.5	445.411
154.0	444.894
154.5	444.430
155.0	443.922
155.5	443.370
156.0	442.792
156.5	442.231
157.0	441.697
157.5	441.171
158.0	440.637
158.5	440.032
159.0	439.402
159.5	438.815
160.0	438.228
160.5	437.615
161.0	437.019
161.5	436.423
162.0	435.810
162.5	435.258
163.0	434.680
163.5	434.067
164.0	433.489
164.5	432.945
165.0	432.402
165.5	431.693
166.0	430.896
166.5	430.055

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

167.0	429.161
167.5	428.110
168.0	427.059
168.5	426.069
169.0	424.921
169.5	423.835
170.0	422.749
170.5	421.689
171.0	420.690
171.5	419.700
172.0	418.763
172.5	417.870
173.0	417.020
173.5	416.310
174.0	415.548
174.5	414.786
175.0	414.041
175.5	413.235
176.0	412.395
176.5	411.510
177.0	410.607
177.5	409.758
178.0	408.855
178.5	407.936
179.0	407.016
179.5	406.070
180.0	405.176

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	144.18	N.A.	4.70
0-30	305.81	N.A.	10.00
0-40	500.07	N.A.	16.40
0-60	882.19	N.A.	28.90
0-80	1114.59	N.A.	36.50
0-90	1159.28	N.A.	37.90
10-90	1121.95	N.A.	36.70
20-40	355.89	N.A.	11.60
20-50	556.61	N.A.	18.20
40-70	523.64	N.A.	17.10
60-80	232.39	N.A.	7.60
70-80	90.88	N.A.	3.00
80-90	44.70	N.A.	1.50
90-110	218.32	N.A.	7.10
90-120	537.47	N.A.	17.60
90-130	905.91	N.A.	29.60
90-150	1529.87	N.A.	50.00
90-180	1897.76	N.A.	62.10
110-180	1679.44	N.A.	54.90
0-180	3057.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	37.34
10-20	106.84
20-30	161.63
30-40	194.26
40-50	200.72
50-60	181.41
60-70	141.51
70-80	90.88
80-90	44.70
90-100	37.23
100-110	181.08
110-120	319.16
120-130	368.44
130-140	341.79
140-150	282.17
150-160	205.54
160-170	122.57
170-180	39.78

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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	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	66	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	52	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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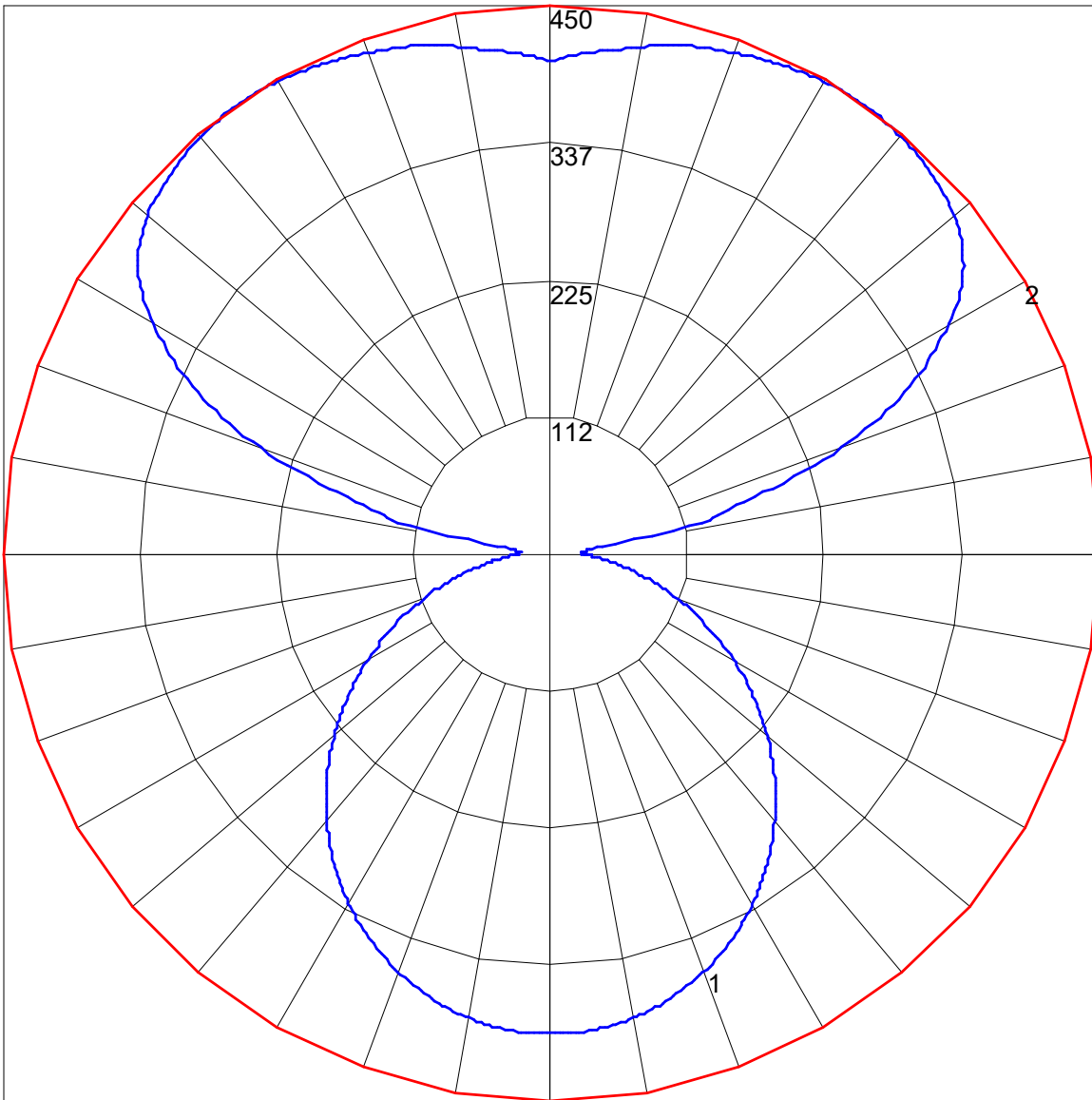
UGR TABLE - CORRECTED

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	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	3H	3.9	3.9	3.9	4.1	5.5	3.9	3.9	3.9	4.1	5.5
	4H	3.9	3.9	4.0	4.7	6.1	3.9	3.9	4.0	4.7	6.1
	6H	3.9	4.0	4.5	5.1	6.6	3.9	4.0	4.5	5.1	6.6
	8H	3.9	4.2	4.7	5.2	6.7	3.9	4.2	4.7	5.2	6.7
	12H	3.9	4.3	4.8	5.3	6.8	3.9	4.3	4.8	5.3	6.8
4H	2H	3.9	3.9	3.9	3.9	4.3	3.9	3.9	3.9	3.9	4.3
	3H	3.9	3.9	4.0	4.6	6.1	3.9	3.9	4.0	4.6	6.1
	4H	3.9	4.2	4.8	5.3	6.8	3.9	4.2	4.8	5.3	6.8
	6H	4.3	4.8	5.4	5.9	7.3	4.3	4.8	5.4	5.9	7.3
	8H	4.5	5.0	5.6	6.1	7.6	4.5	5.0	5.6	6.1	7.6
	12H	4.7	5.1	5.8	6.2	7.7	4.7	5.1	5.8	6.2	7.7
8H	4H	3.9	4.3	5.0	5.4	6.9	3.9	4.3	5.0	5.4	6.9
	6H	4.7	5.0	5.8	6.1	7.6	4.7	5.0	5.8	6.1	7.6
	8H	5.0	5.3	6.1	6.4	7.9	5.0	5.3	6.1	6.4	7.9
	12H	5.3	5.5	6.4	6.6	8.2	5.3	5.5	6.4	6.6	8.2
12H	4H	3.9	4.3	5.0	5.4	6.9	3.9	4.3	5.0	5.4	6.9
	6H	4.7	5.0	5.8	6.1	7.7	4.7	5.0	5.8	6.1	7.7
	8H	5.1	5.3	6.2	6.4	8.0	5.1	5.3	6.2	6.4	8.0

Maximum UGR = 8.2

POLAR GRAPH



Maximum Candela = 449.782 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.)