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IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAL 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] LumenAria Faux Alabaster (FAL) 48" Bowl
[LUMINAIRE] Justice Design Group - Pendant mount luminaire. Product ID: FAL 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
[ISSUEDATE] Friday, August 17, 2018 1:06:24 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3130
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	46
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

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	245	245	245
55	213	213	213
65	176	176	176
75	133	133	133
85	86	86	86

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CANDELA TABULATION

	<u>0</u>
0.0	404.179
0.5	404.143
1.0	404.107
1.5	404.018
2.0	403.865
2.5	403.713
3.0	403.551
3.5	403.255
4.0	402.995
4.5	402.681
5.0	402.340
5.5	401.964
6.0	401.524
6.5	401.058
7.0	400.618
7.5	400.062
8.0	399.479
8.5	398.914
9.0	398.223
9.5	397.550
10.0	396.833
10.5	396.052
11.0	395.272
11.5	394.447
12.0	393.604
12.5	392.707
13.0	391.819
13.5	390.787
14.0	389.818
14.5	388.832
15.0	387.728
15.5	386.643
16.0	385.477
16.5	384.302
17.0	383.073
17.5	381.826
18.0	380.507
18.5	379.279
19.0	377.942
19.5	376.516
20.0	375.143
20.5	373.699
21.0	372.237
21.5	370.703
22.0	369.124
22.5	367.546
23.0	365.976
23.5	364.299
24.0	362.621
24.5	360.953
25.0	359.204
25.5	357.401
26.0	355.616
26.5	353.759

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CANDELA TABULATION - (Cont.)

27.0	351.902
27.5	350.009
28.0	348.081
28.5	346.125
29.0	344.143
29.5	342.125
30.0	340.098
30.5	337.981
31.0	335.846
31.5	333.747
32.0	331.657
32.5	329.441
33.0	327.199
33.5	324.911
34.0	322.678
34.5	320.328
35.0	318.031
35.5	315.690
36.0	313.295
36.5	310.954
37.0	308.523
37.5	306.038
38.0	303.581
38.5	301.051
39.0	298.486
39.5	295.956
40.0	293.436
40.5	290.780
41.0	288.197
41.5	285.596
42.0	282.896
42.5	280.196
43.0	277.496
43.5	274.814
44.0	271.988
44.5	269.261
45.0	266.472
45.5	263.754
46.0	260.910
46.5	258.094
47.0	255.232
47.5	252.344
48.0	249.447
48.5	246.514
49.0	243.679
49.5	240.701
50.0	237.840
50.5	234.879
51.0	231.883
51.5	228.896
52.0	225.909
52.5	222.905
53.0	219.864
53.5	216.895
54.0	213.809
54.5	210.876

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CANDELA TABULATION - (Cont.)

55.0	207.790
55.5	204.713
56.0	201.681
56.5	198.614
57.0	195.537
57.5	192.442
58.0	189.419
58.5	186.325
59.0	183.293
59.5	180.162
60.0	177.068
60.5	174.054
61.0	170.905
61.5	167.784
62.0	164.707
62.5	161.648
63.0	158.554
63.5	155.558
64.0	152.418
64.5	149.359
65.0	146.328
65.5	143.260
66.0	140.183
66.5	137.115
67.0	134.093
67.5	131.016
68.0	128.110
68.5	125.051
69.0	122.064
69.5	119.131
70.0	116.144
70.5	113.237
71.0	110.259
71.5	107.344
72.0	104.501
72.5	101.666
73.0	98.814
73.5	95.997
74.0	93.216
74.5	90.418
75.0	87.718
75.5	84.964
76.0	82.291
76.5	79.618
77.0	77.061
77.5	74.559
78.0	71.921
78.5	69.401
79.0	66.916
79.5	64.494
80.0	62.099
80.5	59.758
81.0	57.435
81.5	55.192
82.0	52.968
82.5	50.770

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CANDELA TABULATION - (Cont.)

83.0	48.689
83.5	46.626
84.0	44.644
84.5	42.652
85.0	40.769
85.5	38.948
86.0	37.279
86.5	35.665
87.0	34.005
87.5	32.525
88.0	31.090
88.5	29.861
89.0	28.695
89.5	27.735
90.0	27.054
90.5	26.623
91.0	26.417
91.5	26.103
92.0	26.076
92.5	26.219
93.0	26.515
93.5	27.045
94.0	27.628
94.5	28.444
95.0	29.368
95.5	30.292
96.0	31.287
96.5	32.373
97.0	33.521
97.5	35.189
98.0	38.472
98.5	44.662
99.0	55.731
99.5	70.612
100.0	87.700
100.5	104.626
101.0	119.427
101.5	131.106
102.0	136.775
102.5	140.389
103.0	144.498
103.5	149.476
104.0	155.190
104.5	161.846
105.0	169.174
105.5	177.373
106.0	186.136
106.5	195.268
107.0	204.956
107.5	214.607
108.0	224.510
108.5	233.839
109.0	242.952
109.5	251.662
110.0	260.112
110.5	268.490

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CANDELA TABULATION - (Cont.)

111.0	276.940
111.5	284.968
112.0	292.583
112.5	300.020
113.0	306.926
113.5	313.860
114.0	320.579
114.5	327.279
115.0	333.765
115.5	340.008
116.0	346.000
116.5	351.543
117.0	356.827
117.5	361.688
118.0	366.729
118.5	371.681
119.0	376.704
119.5	381.700
120.0	386.616
120.5	391.487
121.0	396.178
121.5	400.546
122.0	404.547
122.5	408.404
123.0	411.893
123.5	415.338
124.0	418.442
124.5	421.420
125.0	424.236
125.5	426.730
126.0	429.197
126.5	431.349
127.0	433.457
127.5	435.287
128.0	437.135
128.5	438.768
129.0	440.292
129.5	441.826
130.0	443.163
130.5	444.410
131.0	445.585
131.5	446.625
132.0	447.711
132.5	448.679
133.0	449.558
133.5	450.402
134.0	451.182
134.5	451.944
135.0	452.716
135.5	453.407
136.0	454.026
136.5	454.734
137.0	455.407
137.5	456.008
138.0	456.573
138.5	457.084

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CANDELA TABULATION - (Cont.)

139.0	457.605
139.5	458.071
140.0	458.484
140.5	458.771
141.0	459.103
141.5	459.452
142.0	459.695
142.5	459.847
143.0	460.062
143.5	460.260
144.0	460.340
144.5	460.412
145.0	460.520
145.5	460.565
146.0	460.529
146.5	460.511
147.0	460.466
147.5	460.305
148.0	460.197
148.5	459.991
149.0	459.874
149.5	459.524
150.0	459.282
150.5	458.932
151.0	458.484
151.5	458.062
152.0	457.596
152.5	457.084
153.0	456.582
153.5	456.089
154.0	455.559
154.5	455.084
155.0	454.564
155.5	453.999
156.0	453.407
156.5	452.833
157.0	452.285
157.5	451.747
158.0	451.200
158.5	450.581
159.0	449.935
159.5	449.334
160.0	448.733
160.5	448.105
161.0	447.495
161.5	446.885
162.0	446.258
162.5	445.692
163.0	445.100
163.5	444.472
164.0	443.880
164.5	443.324
165.0	442.768
165.5	442.042
166.0	441.225
166.5	440.364

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CANDELA TABULATION - (Cont.)

167.0	439.449
167.5	438.373
168.0	437.296
168.5	436.283
169.0	435.108
169.5	433.996
170.0	432.883
170.5	431.798
171.0	430.775
171.5	429.762
172.0	428.802
172.5	427.887
173.0	427.017
173.5	426.290
174.0	425.510
174.5	424.730
175.0	423.967
175.5	423.142
176.0	422.281
176.5	421.375
177.0	420.451
177.5	419.581
178.0	418.657
178.5	417.715
179.0	416.773
179.5	415.804
180.0	414.889

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	147.64	N.A.	4.70
0-30	313.14	N.A.	10.00
0-40	512.05	N.A.	16.40
0-60	903.34	N.A.	28.90
0-80	1141.31	N.A.	36.50
0-90	1187.07	N.A.	37.90
10-90	1148.84	N.A.	36.70
20-40	364.42	N.A.	11.60
20-50	569.95	N.A.	18.20
40-70	536.19	N.A.	17.10
60-80	237.96	N.A.	7.60
70-80	93.06	N.A.	3.00
80-90	45.77	N.A.	1.50
90-110	223.55	N.A.	7.10
90-120	550.36	N.A.	17.60
90-130	927.63	N.A.	29.60
90-150	1566.55	N.A.	50.00
90-180	1943.25	N.A.	62.10
110-180	1719.7	N.A.	54.90
0-180	3130.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	38.23
10-20	109.41
20-30	165.50
30-40	198.91
40-50	205.53
50-60	185.76
60-70	144.91
70-80	93.06
80-90	45.77
90-100	38.12
100-110	185.42
110-120	326.81
120-130	377.27
130-140	349.98
140-150	288.94
150-160	210.46
160-170	125.51
170-180	40.73

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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	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	65	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

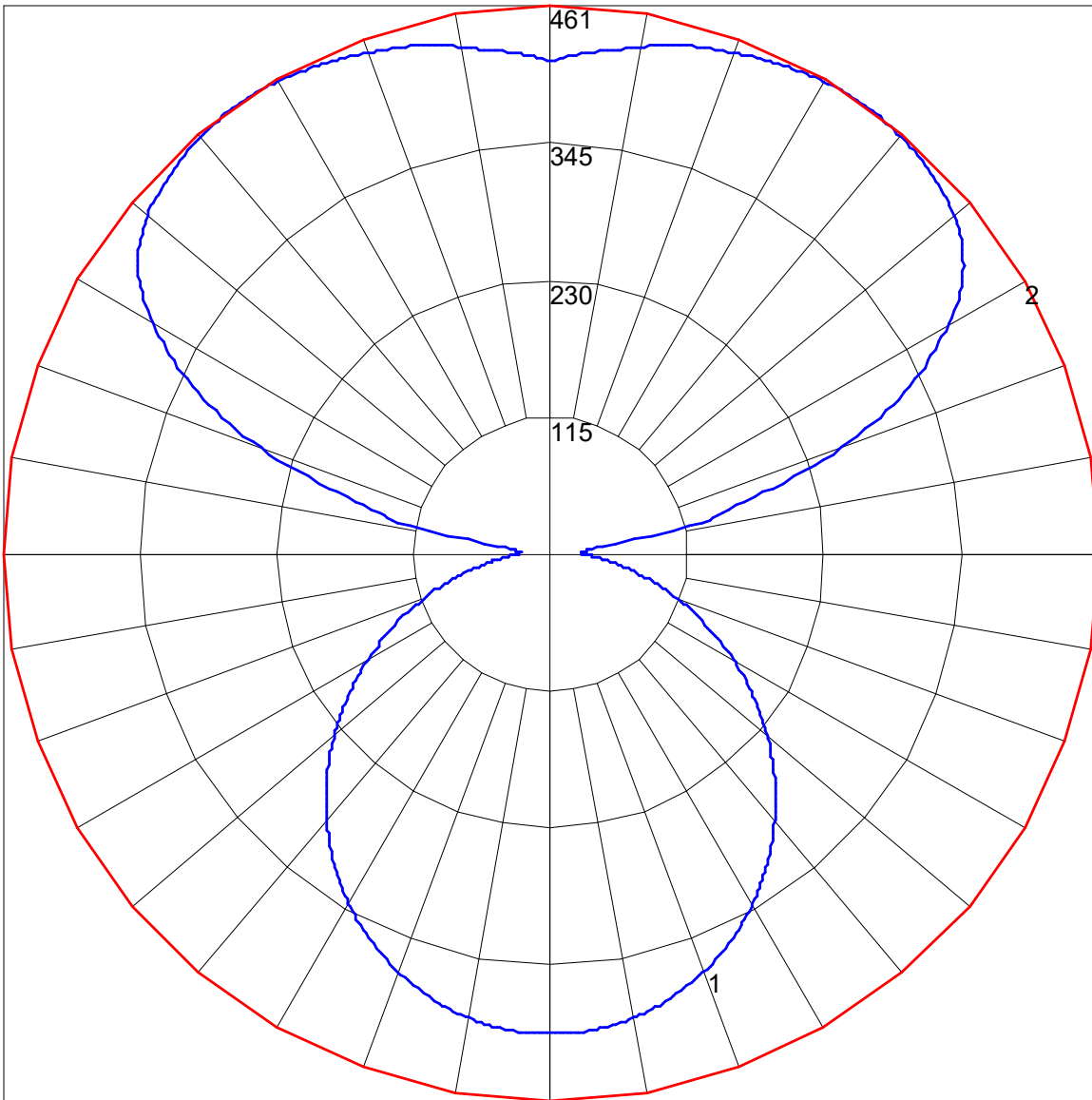
Reflectances

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	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	3H	4.0	4.0	4.0	4.2	5.6	4.0	4.0	4.0	4.2	5.6
	4H	4.0	4.0	4.1	4.8	6.2	4.0	4.0	4.1	4.8	6.2
	6H	4.0	4.1	4.6	5.2	6.7	4.0	4.1	4.6	5.2	6.7
	8H	4.0	4.3	4.8	5.3	6.8	4.0	4.3	4.8	5.3	6.8
	12H	4.0	4.4	4.9	5.4	6.9	4.0	4.4	4.9	5.4	6.9
4H	2H	4.0	4.0	4.0	4.0	4.4	4.0	4.0	4.0	4.0	4.4
	3H	4.0	4.0	4.1	4.7	6.2	4.0	4.0	4.1	4.7	6.2
	4H	4.0	4.3	4.9	5.4	6.9	4.0	4.3	4.9	5.4	6.9
	6H	4.4	4.9	5.5	6.0	7.4	4.4	4.9	5.5	6.0	7.4
	8H	4.6	5.1	5.7	6.2	7.7	4.6	5.1	5.7	6.2	7.7
	12H	4.8	5.2	5.9	6.3	7.8	4.8	5.2	5.9	6.3	7.8
8H	4H	4.0	4.4	5.1	5.5	7.0	4.0	4.4	5.1	5.5	7.0
	6H	4.8	5.1	5.9	6.2	7.7	4.8	5.1	5.9	6.2	7.7
	8H	5.1	5.4	6.2	6.5	8.0	5.1	5.4	6.2	6.5	8.0
	12H	5.4	5.6	6.5	6.7	8.3	5.4	5.6	6.5	6.7	8.3
12H	4H	4.0	4.4	5.1	5.5	7.0	4.0	4.4	5.1	5.5	7.0
	6H	4.8	5.1	5.9	6.2	7.8	4.8	5.1	5.9	6.2	7.8
	8H	5.2	5.4	6.3	6.5	8.1	5.2	5.4	6.3	6.5	8.1

Maximum UGR = 8.3

POLAR GRAPH



Maximum Candela = 460.565 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.)