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IES INDOOR REPORT

PHOTOMETRIC FILENAME : FAL 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] LumenAria Faux Alabaster (FAL) 14" Bowl

[LUMINAIRE] Justice Design Group - Pendant mount luminaire. Product ID: FAL 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	1216
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	54
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	1346	1346	1346
55	1212	1212	1212
65	1072	1072	1072
75	933	933	933
85	816	816	816

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CANDELA TABULATION

	<u>0</u>
0.0	189.590
0.5	189.581
1.0	189.563
1.5	189.518
2.0	189.455
2.5	189.366
3.0	189.285
3.5	189.177
4.0	189.043
4.5	188.917
5.0	188.756
5.5	188.594
6.0	188.379
6.5	188.182
7.0	187.948
7.5	187.706
8.0	187.446
8.5	187.168
9.0	186.872
9.5	186.576
10.0	186.253
10.5	185.939
11.0	185.589
11.5	185.204
12.0	184.827
12.5	184.432
13.0	184.011
13.5	183.580
14.0	183.140
14.5	182.674
15.0	182.199
15.5	181.705
16.0	181.176
16.5	180.647
17.0	180.109
17.5	179.552
18.0	178.960
18.5	178.395
19.0	177.767
19.5	177.149
20.0	176.521
20.5	175.866
21.0	175.202
21.5	174.511
22.0	173.821
22.5	173.103
23.0	172.394
23.5	171.641
24.0	170.879
24.5	170.125
25.0	169.363
25.5	168.555
26.0	167.739
26.5	166.941

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CANDELA TABULATION - (Cont.)

27.0	166.089
27.5	165.272
28.0	164.411
28.5	163.541
29.0	162.671
29.5	161.783
30.0	160.886
30.5	159.953
31.0	159.038
31.5	158.087
32.0	157.172
32.5	156.204
33.0	155.226
33.5	154.257
34.0	153.270
34.5	152.266
35.0	151.243
35.5	150.230
36.0	149.207
36.5	148.175
37.0	147.135
37.5	146.076
38.0	145.027
38.5	143.942
39.0	142.874
39.5	141.789
40.0	140.685
40.5	139.573
41.0	138.497
41.5	137.358
42.0	136.218
42.5	135.097
43.0	133.958
43.5	132.819
44.0	131.653
44.5	130.505
45.0	129.347
45.5	128.199
46.0	127.042
46.5	125.849
47.0	124.674
47.5	123.472
48.0	122.306
48.5	121.086
49.0	119.902
49.5	118.682
50.0	117.534
50.5	116.305
51.0	115.076
51.5	113.874
52.0	112.627
52.5	111.425
53.0	110.179
53.5	108.959
54.0	107.712
54.5	106.510

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CANDELA TABULATION - (Cont.)

55.0	105.263
55.5	104.025
56.0	102.787
56.5	101.531
57.0	100.285
57.5	99.038
58.0	97.791
58.5	96.535
59.0	95.342
59.5	94.077
60.0	92.822
60.5	91.593
61.0	90.328
61.5	89.072
62.0	87.816
62.5	86.587
63.0	85.323
63.5	84.121
64.0	82.865
64.5	81.636
65.0	80.407
65.5	79.151
66.0	77.949
66.5	76.729
67.0	75.500
67.5	74.281
68.0	73.106
68.5	71.886
69.0	70.693
69.5	69.509
70.0	68.307
70.5	67.131
71.0	65.938
71.5	64.763
72.0	63.588
72.5	62.467
73.0	61.292
73.5	60.162
74.0	59.032
74.5	57.883
75.0	56.789
75.5	55.668
76.0	54.565
76.5	53.461
77.0	52.403
77.5	51.317
78.0	50.241
78.5	49.200
79.0	48.151
79.5	47.119
80.0	46.097
80.5	45.092
81.0	44.088
81.5	43.119
82.0	42.132
82.5	41.181

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CANDELA TABULATION - (Cont.)

83.0	40.257
83.5	39.298
84.0	38.401
84.5	37.477
85.0	36.598
85.5	35.719
86.0	34.884
86.5	34.023
87.0	33.198
87.5	32.391
88.0	31.574
88.5	30.821
89.0	30.050
89.5	29.323
90.0	28.713
90.5	28.229
91.0	27.834
91.5	27.493
92.0	27.215
92.5	26.919
93.0	26.677
93.5	26.453
94.0	26.246
94.5	26.103
95.0	26.130
95.5	26.399
96.0	26.973
96.5	27.834
97.0	28.910
97.5	30.184
98.0	31.422
98.5	32.615
99.0	33.871
99.5	35.037
100.0	36.239
100.5	37.548
101.0	38.894
101.5	40.329
102.0	41.737
102.5	43.191
103.0	44.563
103.5	45.962
104.0	47.308
104.5	48.680
105.0	50.053
105.5	51.407
106.0	52.779
106.5	54.134
107.0	55.506
107.5	56.825
108.0	58.197
108.5	59.498
109.0	60.826
109.5	62.126
110.0	63.445
110.5	64.790

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CANDELA TABULATION - (Cont.)

111.0	66.172
111.5	67.589
112.0	68.988
112.5	70.477
113.0	71.921
113.5	73.455
114.0	75.043
114.5	76.640
115.0	78.281
115.5	79.923
116.0	81.609
116.5	83.295
117.0	85.080
117.5	86.803
118.0	88.579
118.5	90.409
119.0	92.239
119.5	94.077
120.0	95.907
120.5	97.782
121.0	99.630
121.5	101.522
122.0	103.361
122.5	105.254
123.0	107.120
123.5	108.941
124.0	110.788
124.5	112.609
125.0	114.412
125.5	116.162
126.0	117.893
126.5	119.534
127.0	121.176
127.5	122.799
128.0	124.369
128.5	125.876
129.0	127.392
129.5	128.845
130.0	130.253
130.5	131.617
131.0	132.900
131.5	134.209
132.0	135.456
132.5	136.631
133.0	137.788
133.5	138.883
134.0	139.959
134.5	140.981
135.0	141.941
135.5	142.874
136.0	143.753
136.5	144.623
137.0	145.431
137.5	146.202
138.0	146.938
138.5	147.664

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CANDELA TABULATION - (Cont.)

139.0	148.319
139.5	148.929
140.0	149.548
140.5	150.086
141.0	150.624
141.5	151.118
142.0	151.575
142.5	152.033
143.0	152.436
143.5	152.822
144.0	153.217
144.5	153.539
145.0	153.880
145.5	154.158
146.0	154.472
146.5	154.741
147.0	155.002
147.5	155.235
148.0	155.459
148.5	155.683
149.0	155.926
149.5	156.150
150.0	156.365
150.5	156.580
151.0	156.814
151.5	157.020
152.0	157.244
152.5	157.468
153.0	157.675
153.5	157.863
154.0	158.060
154.5	158.249
155.0	158.419
155.5	158.617
156.0	158.805
156.5	158.993
157.0	159.182
157.5	159.343
158.0	159.549
158.5	159.729
159.0	159.917
159.5	160.123
160.0	160.321
160.5	160.527
161.0	160.715
161.5	160.904
162.0	161.092
162.5	161.316
163.0	161.514
163.5	161.756
164.0	162.007
164.5	162.133
165.0	162.106
165.5	161.953
166.0	161.559
166.5	160.886

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CANDELA TABULATION - (Cont.)

167.0	160.034
167.5	158.796
168.0	157.325
168.5	155.719
169.0	153.800
169.5	151.710
170.0	149.440
170.5	147.009
171.0	144.399
171.5	141.807
172.0	139.071
172.5	136.299
173.0	133.492
173.5	130.433
174.0	127.096
174.5	123.346
175.0	119.373
175.5	114.968
176.0	110.304
176.5	105.030
177.0	99.110
177.5	92.902
178.0	85.672
178.5	77.797
179.0	69.885
179.5	62.646
180.0	56.628

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	69.36	N.A.	5.70
0-30	147.42	N.A.	12.10
0-40	242.07	N.A.	19.90
0-60	436.10	N.A.	35.80
0-80	575.92	N.A.	47.30
0-90	616.10	N.A.	50.60
10-90	598.17	N.A.	49.20
20-40	172.72	N.A.	14.20
20-50	272.56	N.A.	22.40
40-70	273.73	N.A.	22.50
60-80	139.82	N.A.	11.50
70-80	60.12	N.A.	4.90
80-90	40.18	N.A.	3.30
90-110	84.11	N.A.	6.90
90-120	162.06	N.A.	13.30
90-130	263.95	N.A.	21.70
90-150	469.51	N.A.	38.60
90-180	600.37	N.A.	49.40
110-180	516.26	N.A.	42.40
0-180	1216.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	17.94
10-20	51.42
20-30	78.06
30-40	94.66
40-50	99.85
50-60	94.18
60-70	79.70
70-80	60.12
80-90	40.18
90-100	31.36
100-110	52.75
110-120	77.95
120-130	101.89
130-140	109.17
140-150	96.38
150-160	73.26
160-170	45.35
170-180	12.25

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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	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	62	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	38	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

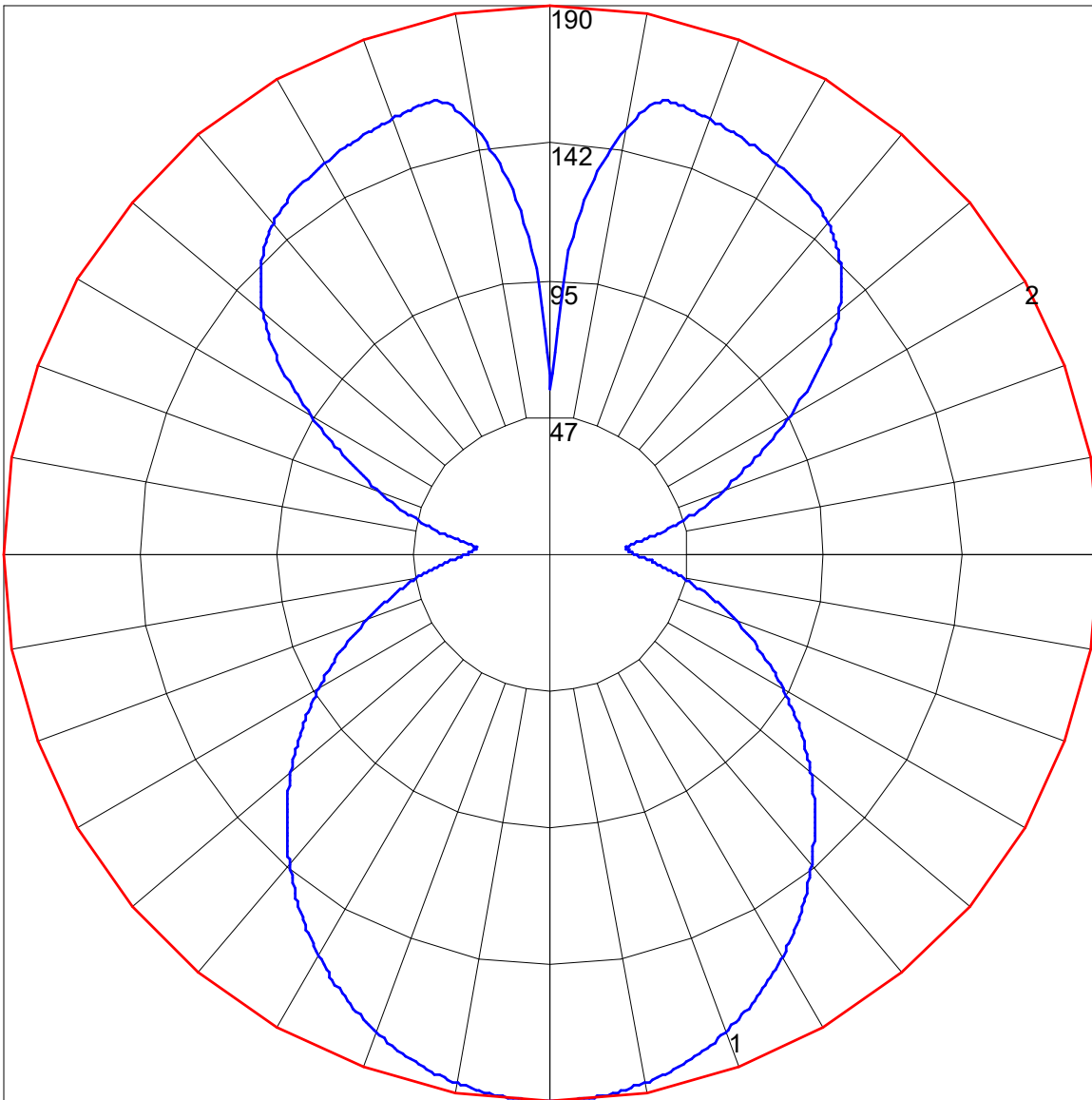
Reflectances

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	8.0	9.0	9.0	9.9	11.2	8.0	9.0	9.0	9.9	11.2
	3H	10.0	10.9	11.0	11.8	13.1	10.0	10.9	11.0	11.8	13.1
	4H	10.9	11.7	11.9	12.7	13.9	10.9	11.7	11.9	12.7	13.9
	6H	11.7	12.4	12.6	13.4	14.7	11.7	12.4	12.6	13.4	14.7
	8H	12.0	12.7	13.0	13.7	15.0	12.0	12.7	13.0	13.7	15.0
	12H	12.3	13.0	13.3	14.0	15.3	12.3	13.0	13.3	14.0	15.3
4H	2H	8.6	9.4	9.6	10.4	11.7	8.6	9.4	9.6	10.4	11.7
	3H	10.8	11.5	11.8	12.5	13.8	10.8	11.5	11.8	12.5	13.8
	4H	11.8	12.4	12.8	13.4	14.7	11.8	12.4	12.8	13.4	14.7
	6H	12.7	13.3	13.7	14.3	15.6	12.7	13.3	13.7	14.3	15.6
	8H	13.2	13.7	14.2	14.7	16.0	13.2	13.7	14.2	14.7	16.0
	12H	13.6	14.0	14.6	15.0	16.4	13.6	14.0	14.6	15.0	16.4
8H	4H	12.1	12.6	13.1	13.6	15.0	12.1	12.6	13.1	13.6	15.0
	6H	13.2	13.7	14.2	14.7	16.0	13.2	13.7	14.2	14.7	16.0
	8H	13.8	14.2	14.8	15.2	16.5	13.8	14.2	14.8	15.2	16.5
	12H	14.3	14.7	15.3	15.7	17.1	14.3	14.7	15.3	15.7	17.1
12H	4H	12.2	12.6	13.2	13.6	15.0	12.2	12.6	13.2	13.6	15.0
	6H	13.3	13.7	14.4	14.7	16.1	13.3	13.7	14.4	14.7	16.1
	8H	13.9	14.3	15.0	15.3	16.7	13.9	14.3	15.0	15.3	16.7

Maximum UGR = 17.1

POLAR GRAPH



Maximum Candela = 189.59 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.)