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IES INDOOR REPORT PHOTOMETRIC FILENAME : FAL 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] LumenAria Faux Alabaster (FAL) 18" Bowl
 [LUMINAIRE] Justice Design Group - Pendant mount luminaire. Product ID: FAL 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	1825
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	47
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	935	935	935
55	850	850	850
65	763	763	763
75	677	677	677
85	613	613	613

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CANDELA TABULATION

	<u>0</u>
0.0	284.423
0.5	284.409
1.0	284.383
1.5	284.315
2.0	284.221
2.5	284.087
3.0	283.965
3.5	283.804
4.0	283.602
4.5	283.414
5.0	283.171
5.5	282.929
6.0	282.606
6.5	282.310
7.0	281.960
7.5	281.597
8.0	281.207
8.5	280.790
9.0	280.346
9.5	279.901
10.0	279.417
10.5	278.946
11.0	278.421
11.5	277.843
12.0	277.277
12.5	276.685
13.0	276.053
13.5	275.407
14.0	274.747
14.5	274.048
15.0	273.335
15.5	272.594
16.0	271.800
16.5	271.006
17.0	270.199
17.5	269.365
18.0	268.477
18.5	267.629
19.0	266.687
19.5	265.758
20.0	264.816
20.5	263.834
21.0	262.838
21.5	261.802
22.0	260.766
22.5	259.689
23.0	258.626
23.5	257.496
24.0	256.352
24.5	255.222
25.0	254.078
25.5	252.867
26.0	251.642
26.5	250.445

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAL 18 BOWL.IES

CANDELA TABULATION - (Cont.)

27.0	249.166
27.5	247.942
28.0	246.650
28.5	245.344
29.0	244.039
29.5	242.707
30.0	241.361
30.5	239.962
31.0	238.589
31.5	237.163
32.0	235.790
32.5	234.337
33.0	232.870
33.5	231.417
34.0	229.936
34.5	228.429
35.0	226.895
35.5	225.374
36.0	223.840
36.5	222.293
37.0	220.732
37.5	219.144
38.0	217.570
38.5	215.941
39.0	214.340
39.5	212.712
40.0	211.056
40.5	209.388
41.0	207.773
41.5	206.064
42.0	204.355
42.5	202.673
43.0	200.964
43.5	199.255
44.0	197.505
44.5	195.783
45.0	194.047
45.5	192.325
46.0	190.589
46.5	188.799
47.0	187.036
47.5	185.233
48.0	183.483
48.5	181.653
49.0	179.877
49.5	178.047
50.0	176.324
50.5	174.481
51.0	172.637
51.5	170.834
52.0	168.964
52.5	167.160
53.0	165.290
53.5	163.460
54.0	161.589
54.5	159.786

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAL 18 BOWL.IES

CANDELA TABULATION - (Cont.)

55.0	157.916
55.5	156.059
56.0	154.201
56.5	152.318
57.0	150.447
57.5	148.577
58.0	146.706
58.5	144.822
59.0	143.032
59.5	141.135
60.0	139.251
60.5	137.407
61.0	135.510
61.5	133.626
62.0	131.742
62.5	129.898
63.0	128.001
63.5	126.198
64.0	124.314
64.5	122.470
65.0	120.627
65.5	118.743
66.0	116.940
66.5	115.109
67.0	113.266
67.5	111.436
68.0	109.673
68.5	107.843
69.0	106.053
69.5	104.277
70.0	102.474
70.5	100.711
71.0	98.921
71.5	97.158
72.0	95.395
72.5	93.713
73.0	91.950
73.5	90.255
74.0	88.559
74.5	86.837
75.0	85.195
75.5	83.513
76.0	81.858
76.5	80.203
77.0	78.615
77.5	76.986
78.0	75.372
78.5	73.811
79.0	72.236
79.5	70.689
80.0	69.154
80.5	67.647
81.0	66.140
81.5	64.687
82.0	63.207
82.5	61.780

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PHOTOMETRIC FILENAME : FAL 18 BOWL.IES**

CANDELA TABULATION - (Cont.)

83.0	60.394
83.5	58.954
84.0	57.609
84.5	56.223
85.0	54.904
85.5	53.585
86.0	52.333
86.5	51.042
87.0	49.804
87.5	48.593
88.0	47.368
88.5	46.238
89.0	45.080
89.5	43.990
90.0	43.075
90.5	42.349
91.0	41.756
91.5	41.245
92.0	40.828
92.5	40.384
93.0	40.021
93.5	39.684
94.0	39.375
94.5	39.159
95.0	39.200
95.5	39.603
96.0	40.465
96.5	41.756
97.0	43.371
97.5	45.282
98.0	47.139
98.5	48.929
99.0	50.813
99.5	52.562
100.0	54.365
100.5	56.330
101.0	58.349
101.5	60.502
102.0	62.614
102.5	64.794
103.0	66.853
103.5	68.953
104.0	70.971
104.5	73.030
105.0	75.089
105.5	77.121
106.0	79.180
106.5	81.212
107.0	83.271
107.5	85.249
108.0	87.308
108.5	89.259
109.0	91.251
109.5	93.202
110.0	95.180
110.5	97.198

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAL 18 BOWL.IES

CANDELA TABULATION - (Cont.)

111.0	99.271
111.5	101.397
112.0	103.496
112.5	105.730
113.0	107.897
113.5	110.198
114.0	112.580
114.5	114.975
115.0	117.437
115.5	119.900
116.0	122.430
116.5	124.960
117.0	127.638
117.5	130.221
118.0	132.886
118.5	135.631
119.0	138.376
119.5	141.135
120.0	143.880
120.5	146.693
121.0	149.465
121.5	152.304
122.0	155.063
122.5	157.902
123.0	160.701
123.5	163.433
124.0	166.205
124.5	168.937
125.0	171.641
125.5	174.266
126.0	176.863
126.5	179.325
127.0	181.788
127.5	184.224
128.0	186.579
128.5	188.839
129.0	191.113
129.5	193.293
130.0	195.406
130.5	197.452
131.0	199.376
131.5	201.341
132.0	203.211
132.5	204.974
133.0	206.710
133.5	208.352
134.0	209.966
134.5	211.501
135.0	212.940
135.5	214.340
136.0	215.659
136.5	216.964
137.0	218.175
137.5	219.332
138.0	220.436
138.5	221.526

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

CANDELA TABULATION - (Cont.)

139.0	222.508
139.5	223.423
140.0	224.352
140.5	225.159
141.0	225.967
141.5	226.707
142.0	227.393
142.5	228.079
143.0	228.685
143.5	229.264
144.0	229.856
144.5	230.340
145.0	230.851
145.5	231.269
146.0	231.740
146.5	232.143
147.0	232.534
147.5	232.883
148.0	233.220
148.5	233.556
149.0	233.920
149.5	234.256
150.0	234.579
150.5	234.902
151.0	235.252
151.5	235.561
152.0	235.898
152.5	236.234
153.0	236.544
153.5	236.826
154.0	237.122
154.5	237.405
155.0	237.661
155.5	237.957
156.0	238.239
156.5	238.522
157.0	238.804
157.5	239.047
158.0	239.356
158.5	239.625
159.0	239.908
159.5	240.217
160.0	240.513
160.5	240.823
161.0	241.105
161.5	241.388
162.0	241.671
162.5	242.007
163.0	242.303
163.5	242.666
164.0	243.043
164.5	243.232
165.0	243.191
165.5	242.963
166.0	242.370
166.5	241.361

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

167.0	240.083
167.5	238.226
168.0	236.019
168.5	233.610
169.0	230.730
169.5	227.595
170.0	224.190
170.5	220.543
171.0	216.628
171.5	212.739
172.0	208.634
172.5	204.476
173.0	200.264
173.5	195.675
174.0	190.669
174.5	185.044
175.0	179.083
175.5	172.476
176.0	165.478
176.5	157.566
177.0	148.684
177.5	139.372
178.0	128.526
178.5	116.711
179.0	104.842
179.5	93.982
180.0	84.953

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	104.05	N.A.	5.70
0-30	221.15	N.A.	12.10
0-40	363.16	N.A.	19.90
0-60	654.24	N.A.	35.80
0-80	864.00	N.A.	47.30
0-90	924.28	N.A.	50.60
10-90	897.37	N.A.	49.20
20-40	259.11	N.A.	14.20
20-50	408.90	N.A.	22.40
40-70	410.64	N.A.	22.50
60-80	209.76	N.A.	11.50
70-80	90.20	N.A.	4.90
80-90	60.28	N.A.	3.30
90-110	126.18	N.A.	6.90
90-120	243.12	N.A.	13.30
90-130	395.99	N.A.	21.70
90-150	704.36	N.A.	38.60
90-180	900.67	N.A.	49.40
110-180	774.49	N.A.	42.40
0-180	1824.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	26.91
10-20	77.14
20-30	117.10
30-40	142.00
40-50	149.79
50-60	141.29
60-70	119.56
70-80	90.20
80-90	60.28
90-100	47.04
100-110	79.14
110-120	116.94
120-130	152.86
130-140	163.78
140-150	144.59
150-160	109.91
160-170	68.03
170-180	18.38

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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	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

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UGR TABLE - CORRECTED

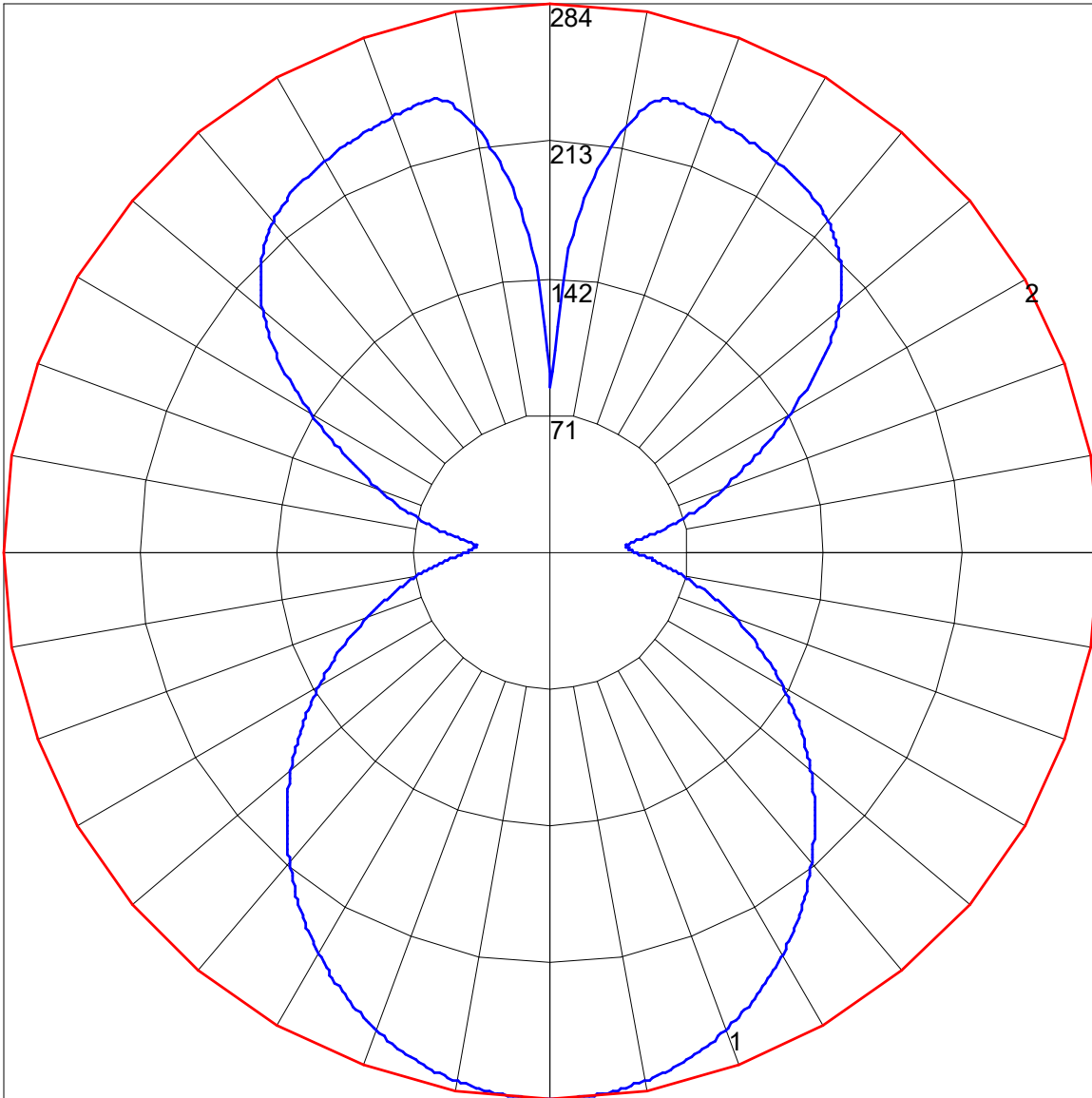
Reflectances

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	6.8	7.7	7.8	8.7	10.0	6.8	7.7	7.8	8.7	10.0
	3H	8.8	9.7	9.8	10.6	11.9	8.8	9.7	9.8	10.6	11.9
	4H	9.7	10.5	10.7	11.5	12.7	9.7	10.5	10.7	11.5	12.7
	6H	10.5	11.2	11.5	12.2	13.5	10.5	11.2	11.5	12.2	13.5
	8H	10.8	11.5	11.8	12.5	13.8	10.8	11.5	11.8	12.5	13.8
	12H	11.2	11.8	12.2	12.8	14.1	11.2	11.8	12.2	12.8	14.1
4H	2H	7.4	8.2	8.4	9.2	10.4	7.4	8.2	8.4	9.2	10.4
	3H	9.6	10.3	10.6	11.3	12.6	9.6	10.3	10.6	11.3	12.6
	4H	10.6	11.2	11.6	12.2	13.6	10.6	11.2	11.6	12.2	13.6
	6H	11.6	12.1	12.6	13.1	14.4	11.6	12.1	12.6	13.1	14.4
	8H	12.0	12.5	13.0	13.5	14.9	12.0	12.5	13.0	13.5	14.9
	12H	12.4	12.9	13.4	13.9	15.2	12.4	12.9	13.4	13.9	15.2
8H	4H	11.0	11.5	12.0	12.5	13.8	11.0	11.5	12.0	12.5	13.8
	6H	12.1	12.5	13.1	13.6	14.9	12.1	12.5	13.1	13.6	14.9
	8H	12.7	13.0	13.7	14.1	15.4	12.7	13.0	13.7	14.1	15.4
	12H	13.2	13.5	14.2	14.6	16.0	13.2	13.5	14.2	14.6	16.0
12H	4H	11.0	11.5	12.0	12.5	13.8	11.0	11.5	12.0	12.5	13.8
	6H	12.2	12.6	13.2	13.6	15.0	12.2	12.6	13.2	13.6	15.0
	8H	12.8	13.1	13.8	14.2	15.6	12.8	13.1	13.8	14.2	15.6

Maximum UGR = 16.0

POLAR GRAPH



Maximum Candela = 284.423 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.)