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IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSN WEVE 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] Artisan Glass (FSN) - Weave Glass (WEVE) 18" Bowl

[LUMINAIRE] Justice Design Group - Pendant mount luminaire. Product ID: FSN WEVE 18" Bowl

[MORE] Extruded base plate with frosted glass 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	2250
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
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	1152	1152	1152
55	1048	1048	1048
65	940	940	940
75	835	835	835
85	756	756	756

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CANDELA TABULATION

	<u>0</u>
0.0	350.646
0.5	350.630
1.0	350.596
1.5	350.514
2.0	350.397
2.5	350.231
3.0	350.082
3.5	349.883
4.0	349.634
4.5	349.402
5.0	349.103
5.5	348.805
6.0	348.407
6.5	348.042
7.0	347.610
7.5	347.162
8.0	346.681
8.5	346.167
9.0	345.619
9.5	345.072
10.0	344.475
10.5	343.894
11.0	343.247
11.5	342.534
12.0	341.837
12.5	341.107
13.0	340.327
13.5	339.531
14.0	338.718
14.5	337.855
15.0	336.976
15.5	336.064
16.0	335.085
16.5	334.106
17.0	333.111
17.5	332.082
18.0	330.987
18.5	329.942
19.0	328.781
19.5	327.636
20.0	326.475
20.5	325.264
21.0	324.036
21.5	322.758
22.0	321.481
22.5	320.154
23.0	318.843
23.5	317.450
24.0	316.040
24.5	314.646
25.0	313.236
25.5	311.743
26.0	310.233
26.5	308.756

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CANDELA TABULATION - (Cont.)

27.0	307.180
27.5	305.671
28.0	304.078
28.5	302.469
29.0	300.860
29.5	299.217
30.0	297.558
30.5	295.833
31.0	294.141
31.5	292.382
32.0	290.690
32.5	288.898
33.0	287.090
33.5	285.298
34.0	283.473
34.5	281.615
35.0	279.724
35.5	277.849
36.0	275.958
36.5	274.050
37.0	272.126
37.5	270.168
38.0	268.227
38.5	266.220
39.0	264.246
39.5	262.238
40.0	260.198
40.5	258.140
41.0	256.150
41.5	254.043
42.0	251.936
42.5	249.862
43.0	247.755
43.5	245.648
44.0	243.491
44.5	241.368
45.0	239.228
45.5	237.104
46.0	234.964
46.5	232.758
47.0	230.584
47.5	228.361
48.0	226.205
48.5	223.948
49.0	221.759
49.5	219.502
50.0	217.379
50.5	215.106
51.0	212.833
51.5	210.610
52.0	208.304
52.5	206.081
53.0	203.775
53.5	201.519
54.0	199.213
54.5	196.990

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CANDELA TABULATION - (Cont.)

55.0	194.684
55.5	192.394
56.0	190.105
56.5	187.782
57.0	185.476
57.5	183.170
58.0	180.864
58.5	178.542
59.0	176.335
59.5	173.996
60.0	171.673
60.5	169.400
61.0	167.061
61.5	164.739
62.0	162.416
62.5	160.143
63.0	157.804
63.5	155.581
64.0	153.258
64.5	150.986
65.0	148.713
65.5	146.390
66.0	144.167
66.5	141.911
67.0	139.638
67.5	137.382
68.0	135.209
68.5	132.952
69.0	130.746
69.5	128.556
70.0	126.333
70.5	124.160
71.0	121.953
71.5	119.780
72.0	117.607
72.5	115.533
73.0	113.359
73.5	111.269
74.0	109.179
74.5	107.055
75.0	105.031
75.5	102.958
76.0	100.917
76.5	98.876
77.0	96.919
77.5	94.911
78.0	92.921
78.5	90.996
79.0	89.055
79.5	87.147
80.0	85.256
80.5	83.398
81.0	81.540
81.5	79.748
82.0	77.923
82.5	76.165

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CANDELA TABULATION - (Cont.)

83.0	74.456
83.5	72.681
84.0	71.022
84.5	69.313
85.0	67.687
85.5	66.061
86.0	64.519
86.5	62.926
87.0	61.400
87.5	59.906
88.0	58.397
88.5	57.003
89.0	55.577
89.5	54.233
90.0	53.105
90.5	52.209
91.0	51.479
91.5	50.848
92.0	50.334
92.5	49.787
93.0	49.339
93.5	48.924
94.0	48.542
94.5	48.277
95.0	48.327
95.5	48.824
96.0	49.886
96.5	51.479
97.0	53.470
97.5	55.825
98.0	58.115
98.5	60.321
99.0	62.644
99.5	64.801
100.0	67.024
100.5	69.446
101.0	71.934
101.5	74.589
102.0	77.193
102.5	79.881
103.0	82.419
103.5	85.007
104.0	87.496
104.5	90.034
105.0	92.572
105.5	95.077
106.0	97.616
106.5	100.121
107.0	102.659
107.5	105.098
108.0	107.636
108.5	110.041
109.0	112.497
109.5	114.902
110.0	117.341
110.5	119.830

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CANDELA TABULATION - (Cont.)

111.0	122.384
111.5	125.006
112.0	127.594
112.5	130.348
113.0	133.019
113.5	135.856
114.0	138.792
114.5	141.745
115.0	144.781
115.5	147.817
116.0	150.936
116.5	154.055
117.0	157.356
117.5	160.541
118.0	163.826
118.5	167.211
119.0	170.595
119.5	173.996
120.0	177.380
120.5	180.848
121.0	184.265
121.5	187.766
122.0	191.167
122.5	194.667
123.0	198.118
123.5	201.486
124.0	204.903
124.5	208.271
125.0	211.605
125.5	214.841
126.0	218.042
126.5	221.078
127.0	224.114
127.5	227.117
128.0	230.020
128.5	232.807
129.0	235.611
129.5	238.299
130.0	240.903
130.5	243.425
131.0	245.797
131.5	248.220
132.0	250.526
132.5	252.699
133.0	254.839
133.5	256.863
134.0	258.854
134.5	260.745
135.0	262.520
135.5	264.246
136.0	265.871
136.5	267.481
137.0	268.974
137.5	270.400
138.0	271.761
138.5	273.105

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CANDELA TABULATION - (Cont.)

139.0	274.316
139.5	275.444
140.0	276.588
140.5	277.584
141.0	278.579
141.5	279.492
142.0	280.338
142.5	281.184
143.0	281.930
143.5	282.644
144.0	283.374
144.5	283.971
145.0	284.601
145.5	285.116
146.0	285.696
146.5	286.194
147.0	286.675
147.5	287.107
148.0	287.521
148.5	287.936
149.0	288.384
149.5	288.799
150.0	289.197
150.5	289.595
151.0	290.026
151.5	290.408
152.0	290.823
152.5	291.237
153.0	291.619
153.5	291.967
154.0	292.332
154.5	292.681
155.0	292.996
155.5	293.361
156.0	293.709
156.5	294.058
157.0	294.406
157.5	294.705
158.0	295.086
158.5	295.418
159.0	295.767
159.5	296.148
160.0	296.513
160.5	296.895
161.0	297.243
161.5	297.591
162.0	297.940
162.5	298.355
163.0	298.720
163.5	299.167
164.0	299.632
164.5	299.864
165.0	299.814
165.5	299.532
166.0	298.802
166.5	297.558

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CANDELA TABULATION - (Cont.)

167.0	295.982
167.5	293.693
168.0	290.972
168.5	288.002
169.0	284.452
169.5	280.587
170.0	276.389
170.5	271.894
171.0	267.066
171.5	262.271
172.0	257.211
172.5	252.085
173.0	246.892
173.5	241.235
174.0	235.064
174.5	228.129
175.0	220.780
175.5	212.634
176.0	204.007
176.5	194.252
177.0	183.303
177.5	171.823
178.0	158.451
178.5	143.885
179.0	129.253
179.5	115.865
180.0	104.733

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	128.28	N.A.	5.70
0-30	272.65	N.A.	12.10
0-40	447.71	N.A.	19.90
0-60	806.57	N.A.	35.80
0-80	1065.17	N.A.	47.30
0-90	1139.48	N.A.	50.60
10-90	1106.31	N.A.	49.20
20-40	319.44	N.A.	14.20
20-50	504.11	N.A.	22.40
40-70	506.26	N.A.	22.50
60-80	258.60	N.A.	11.50
70-80	111.20	N.A.	4.90
80-90	74.32	N.A.	3.30
90-110	155.56	N.A.	6.90
90-120	299.73	N.A.	13.30
90-130	488.18	N.A.	21.70
90-150	868.35	N.A.	38.60
90-180	1110.38	N.A.	49.40
110-180	954.82	N.A.	42.40
0-180	2249.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	33.18
10-20	95.10
20-30	144.37
30-40	175.07
40-50	184.67
50-60	174.18
60-70	147.40
70-80	111.20
80-90	74.32
90-100	57.99
100-110	97.56
110-120	144.17
120-130	188.45
130-140	201.92
140-150	178.25
150-160	135.50
160-170	83.87
170-180	22.66

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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
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51	51
1	97	92	87	83	89	85	81	77	71	69	66	59	57	55	48	47	45	40	40
2	87	79	73	67	80	73	67	62	62	57	54	51	48	45	42	39	37	32	32
3	79	69	61	55	73	64	57	52	54	49	44	45	41	38	36	34	31	27	27
4	73	61	53	46	66	57	49	43	48	42	38	40	35	32	32	29	26	23	23
5	66	54	46	40	61	50	43	37	43	37	32	36	31	27	29	26	23	20	20
6	61	49	40	34	56	45	37	32	38	32	28	32	27	24	26	23	20	17	17
7	56	44	36	30	52	41	33	28	35	29	24	29	24	21	24	20	18	15	15
8	52	40	32	26	48	37	30	25	32	26	22	27	22	19	22	18	16	13	13
9	49	36	28	23	45	34	27	22	29	23	19	24	20	17	20	17	14	12	12
10	45	33	26	21	42	31	24	20	27	21	17	23	18	15	19	15	13	11	11

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UGR TABLE - CORRECTED

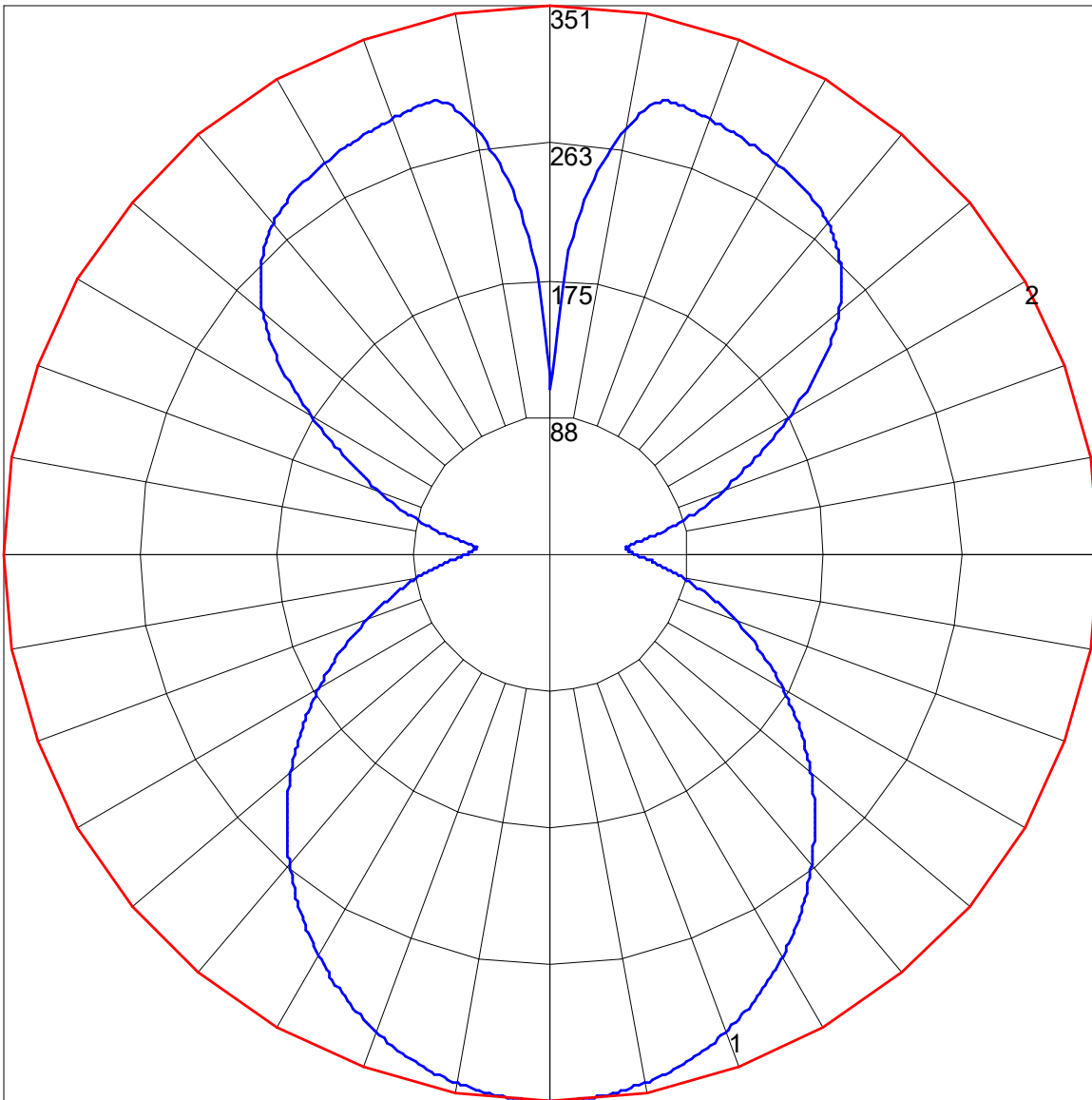
Reflectances

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	7.5	8.4	8.5	9.4	10.7	7.5	8.4	8.5	9.4	10.7
	3H	9.5	10.4	10.5	11.3	12.6	9.5	10.4	10.5	11.3	12.6
	4H	10.4	11.2	11.4	12.2	13.4	10.4	11.2	11.4	12.2	13.4
	6H	11.2	11.9	12.2	12.9	14.2	11.2	11.9	12.2	12.9	14.2
	8H	11.5	12.2	12.5	13.2	14.5	11.5	12.2	12.5	13.2	14.5
	12H	11.9	12.5	12.9	13.5	14.8	11.9	12.5	12.9	13.5	14.8
4H	2H	8.1	8.9	9.1	9.9	11.1	8.1	8.9	9.1	9.9	11.1
	3H	10.3	11.0	11.3	12.0	13.3	10.3	11.0	11.3	12.0	13.3
	4H	11.3	11.9	12.3	12.9	14.3	11.3	11.9	12.3	12.9	14.3
	6H	12.3	12.8	13.3	13.8	15.1	12.3	12.8	13.3	13.8	15.1
	8H	12.7	13.2	13.7	14.2	15.6	12.7	13.2	13.7	14.2	15.6
	12H	13.1	13.6	14.1	14.6	15.9	13.1	13.6	14.1	14.6	15.9
8H	4H	11.7	12.2	12.7	13.2	14.5	11.7	12.2	12.7	13.2	14.5
	6H	12.8	13.2	13.8	14.3	15.6	12.8	13.2	13.8	14.3	15.6
	8H	13.4	13.7	14.4	14.8	16.1	13.4	13.7	14.4	14.8	16.1
	12H	13.9	14.2	14.9	15.3	16.7	13.9	14.2	14.9	15.3	16.7
12H	4H	11.7	12.2	12.7	13.2	14.5	11.7	12.2	12.7	13.2	14.5
	6H	12.9	13.3	13.9	14.3	15.7	12.9	13.3	13.9	14.3	15.7
	8H	13.5	13.8	14.5	14.9	16.3	13.5	13.8	14.5	14.9	16.3

Maximum UGR = 16.7

POLAR GRAPH



Maximum Candela = 350.646 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.)