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IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSN WEVE 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] Artisan Glass (FSN) - Weave Glass (WEAVE) 14" Bowl

[LUMINAIRE] Justice Design Group - Pendant mount luminaire. Product ID: FSN WEVE 14" Bowl

[MORE] Extruded base plate with frosted glass 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	1501
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
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	1661	1661	1661
55	1495	1495	1495
65	1323	1323	1323
75	1152	1152	1152
85	1007	1007	1007

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CANDELA TABULATION

	<u>0</u>
0.0	233.976
0.5	233.964
1.0	233.942
1.5	233.887
2.0	233.809
2.5	233.699
3.0	233.599
3.5	233.466
4.0	233.300
4.5	233.145
5.0	232.946
5.5	232.747
6.0	232.481
6.5	232.238
7.0	231.950
7.5	231.651
8.0	231.330
8.5	230.987
9.0	230.621
9.5	230.256
10.0	229.857
10.5	229.470
11.0	229.038
11.5	228.562
12.0	228.097
12.5	227.610
13.0	227.090
13.5	226.559
14.0	226.016
14.5	225.441
15.0	224.854
15.5	224.245
16.0	223.592
16.5	222.939
17.0	222.275
17.5	221.588
18.0	220.858
18.5	220.160
19.0	219.385
19.5	218.621
20.0	217.847
20.5	217.038
21.0	216.219
21.5	215.367
22.0	214.514
22.5	213.629
23.0	212.754
23.5	211.824
24.0	210.883
24.5	209.954
25.0	209.013
25.5	208.016
26.0	207.009
26.5	206.024

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CANDELA TABULATION - (Cont.)

27.0	204.972
27.5	203.965
28.0	202.902
28.5	201.828
29.0	200.754
29.5	199.659
30.0	198.552
30.5	197.400
31.0	196.271
31.5	195.098
32.0	193.969
32.5	192.773
33.0	191.566
33.5	190.371
34.0	189.153
34.5	187.913
35.0	186.651
35.5	185.400
36.0	184.138
36.5	182.865
37.0	181.581
37.5	180.275
38.0	178.980
38.5	177.640
39.0	176.323
39.5	174.983
40.0	173.622
40.5	172.249
41.0	170.921
41.5	169.515
42.0	168.109
42.5	166.725
43.0	165.319
43.5	163.913
44.0	162.474
44.5	161.057
45.0	159.629
45.5	158.212
46.0	156.784
46.5	155.312
47.0	153.862
47.5	152.379
48.0	150.939
48.5	149.434
49.0	147.973
49.5	146.467
50.0	145.050
50.5	143.534
51.0	142.017
51.5	140.534
52.0	138.995
52.5	137.512
53.0	135.973
53.5	134.467
54.0	132.929
54.5	131.445

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CANDELA TABULATION - (Cont.)

55.0	129.906
55.5	128.379
56.0	126.851
56.5	125.301
57.0	123.763
57.5	122.224
58.0	120.685
58.5	119.135
59.0	117.663
59.5	116.102
60.0	114.552
60.5	113.036
61.0	111.475
61.5	109.925
62.0	108.375
62.5	106.859
63.0	105.298
63.5	103.814
64.0	102.265
64.5	100.748
65.0	99.231
65.5	97.682
66.0	96.198
66.5	94.693
67.0	93.176
67.5	91.671
68.0	90.220
68.5	88.715
69.0	87.243
69.5	85.781
70.0	84.298
70.5	82.848
71.0	81.376
71.5	79.925
72.0	78.475
72.5	77.091
73.0	75.641
73.5	74.246
74.0	72.852
74.5	71.435
75.0	70.084
75.5	68.700
76.0	67.339
76.5	65.977
77.0	64.671
77.5	63.331
78.0	62.003
78.5	60.719
79.0	59.424
79.5	58.151
80.0	56.889
80.5	55.649
81.0	54.409
81.5	53.213
82.0	51.996
82.5	50.822

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CANDELA TABULATION - (Cont.)

83.0	49.682
83.5	48.498
84.0	47.391
84.5	46.250
85.0	45.166
85.5	44.081
86.0	43.051
86.5	41.989
87.0	40.970
87.5	39.974
88.0	38.966
88.5	38.037
89.0	37.084
89.5	36.188
90.0	35.435
90.5	34.837
91.0	34.350
91.5	33.930
92.0	33.586
92.5	33.221
93.0	32.922
93.5	32.645
94.0	32.391
94.5	32.214
95.0	32.247
95.5	32.579
96.0	33.287
96.5	34.350
97.0	35.679
97.5	37.251
98.0	38.778
98.5	40.251
99.0	41.800
99.5	43.239
100.0	44.723
100.5	46.339
101.0	48.000
101.5	49.771
102.0	51.509
102.5	53.302
103.0	54.996
103.5	56.723
104.0	58.383
104.5	60.077
105.0	61.771
105.5	63.442
106.0	65.136
106.5	66.807
107.0	68.501
107.5	70.128
108.0	71.822
108.5	73.427
109.0	75.066
109.5	76.671
110.0	78.298
110.5	79.959

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CANDELA TABULATION - (Cont.)

111.0	81.663
111.5	83.412
112.0	85.139
112.5	86.977
113.0	88.759
113.5	90.652
114.0	92.612
114.5	94.582
115.0	96.608
115.5	98.634
116.0	100.715
116.5	102.796
117.0	104.999
117.5	107.124
118.0	109.316
118.5	111.575
119.0	113.833
119.5	116.102
120.0	118.360
120.5	120.674
121.0	122.954
121.5	125.290
122.0	127.560
122.5	129.895
123.0	132.198
123.5	134.445
124.0	136.726
124.5	138.973
125.0	141.198
125.5	143.356
126.0	145.493
126.5	147.519
127.0	149.545
127.5	151.548
128.0	153.486
128.5	155.345
129.0	157.216
129.5	159.009
130.0	160.747
130.5	162.430
131.0	164.013
131.5	165.629
132.0	167.168
132.5	168.618
133.0	170.046
133.5	171.397
134.0	172.725
134.5	173.987
135.0	175.172
135.5	176.323
136.0	177.408
136.5	178.482
137.0	179.478
137.5	180.430
138.0	181.338
138.5	182.234

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CANDELA TABULATION - (Cont.)

139.0	183.042
139.5	183.795
140.0	184.559
140.5	185.223
141.0	185.887
141.5	186.496
142.0	187.061
142.5	187.625
143.0	188.124
143.5	188.600
144.0	189.087
144.5	189.485
145.0	189.906
145.5	190.249
146.0	190.636
146.5	190.969
147.0	191.290
147.5	191.577
148.0	191.854
148.5	192.131
149.0	192.430
149.5	192.707
150.0	192.972
150.5	193.238
151.0	193.526
151.5	193.780
152.0	194.057
152.5	194.334
153.0	194.588
153.5	194.821
154.0	195.064
154.5	195.297
155.0	195.507
155.5	195.751
156.0	195.983
156.5	196.216
157.0	196.448
157.5	196.647
158.0	196.902
158.5	197.123
159.0	197.356
159.5	197.611
160.0	197.854
160.5	198.109
161.0	198.341
161.5	198.574
162.0	198.806
162.5	199.083
163.0	199.326
163.5	199.625
164.0	199.935
164.5	200.090
165.0	200.057
165.5	199.869
166.0	199.382
166.5	198.552

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CANDELA TABULATION - (Cont.)

167.0	197.500
167.5	195.972
168.0	194.157
168.5	192.175
169.0	189.806
169.5	187.227
170.0	184.426
170.5	181.426
171.0	178.205
171.5	175.006
172.0	171.629
172.5	168.209
173.0	164.744
173.5	160.969
174.0	156.851
174.5	152.224
175.0	147.320
175.5	141.884
176.0	136.128
176.5	129.619
177.0	122.312
177.5	114.652
178.0	105.730
178.5	96.010
179.0	86.246
179.5	77.313
180.0	69.885

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	85.59	N.A.	5.70
0-30	181.93	N.A.	12.10
0-40	298.74	N.A.	19.90
0-60	538.20	N.A.	35.80
0-80	710.75	N.A.	47.30
0-90	760.34	N.A.	50.60
10-90	738.20	N.A.	49.20
20-40	213.15	N.A.	14.20
20-50	336.38	N.A.	22.40
40-70	337.81	N.A.	22.50
60-80	172.55	N.A.	11.50
70-80	74.20	N.A.	4.90
80-90	49.59	N.A.	3.30
90-110	103.80	N.A.	6.90
90-120	200.00	N.A.	13.30
90-130	325.75	N.A.	21.70
90-150	579.43	N.A.	38.60
90-180	740.92	N.A.	49.40
110-180	637.12	N.A.	42.40
0-180	1501.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	22.14
10-20	63.46
20-30	96.33
30-40	116.82
40-50	123.23
50-60	116.23
60-70	98.35
70-80	74.20
80-90	49.59
90-100	38.70
100-110	65.10
110-120	96.20
120-130	125.75
130-140	134.73
140-150	118.94
150-160	90.41
160-170	55.96
170-180	15.12

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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	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	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	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

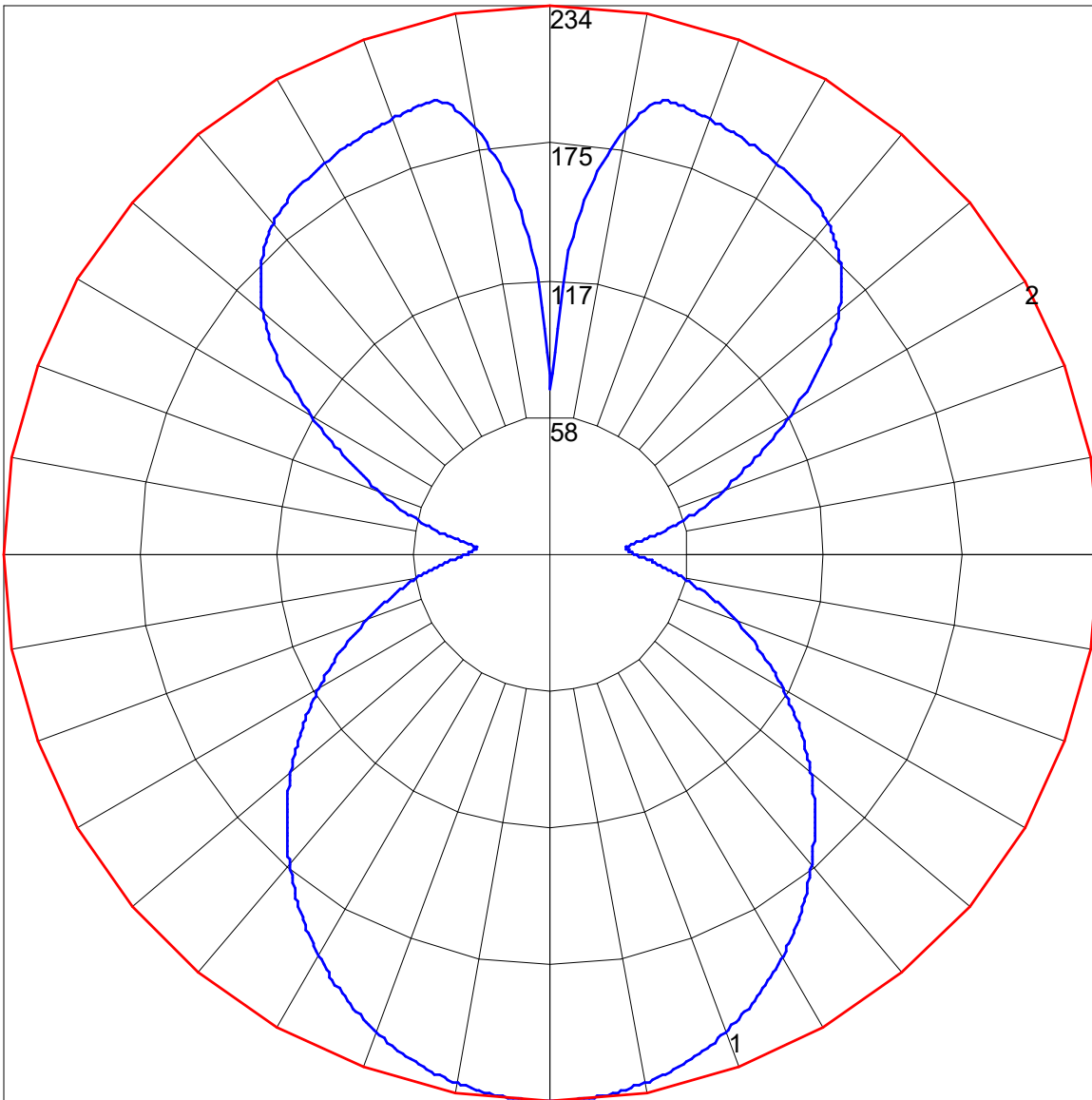
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UGR TABLE - CORRECTED

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	8.8	9.7	9.7	10.6	11.9	8.8	9.7	9.7	10.6	11.9
	3H	10.7	11.6	11.7	12.5	13.8	10.7	11.6	11.7	12.5	13.8
	4H	11.6	12.4	12.6	13.4	14.6	11.6	12.4	12.6	13.4	14.6
	6H	12.4	13.1	13.3	14.1	15.4	12.4	13.1	13.3	14.1	15.4
	8H	12.7	13.4	13.7	14.4	15.7	12.7	13.4	13.7	14.4	15.7
	12H	13.0	13.7	14.0	14.7	16.0	13.0	13.7	14.0	14.7	16.0
4H	2H	9.3	10.1	10.3	11.1	12.4	9.3	10.1	10.3	11.1	12.4
	3H	11.5	12.2	12.5	13.2	14.5	11.5	12.2	12.5	13.2	14.5
	4H	12.5	13.1	13.5	14.1	15.4	12.5	13.1	13.5	14.1	15.4
	6H	13.4	14.0	14.4	15.0	16.3	13.4	14.0	14.4	15.0	16.3
	8H	13.9	14.4	14.9	15.4	16.7	13.9	14.4	14.9	15.4	16.7
	12H	14.3	14.7	15.3	15.7	17.1	14.3	14.7	15.3	15.7	17.1
8H	4H	12.8	13.3	13.8	14.3	15.7	12.8	13.3	13.8	14.3	15.7
	6H	13.9	14.4	15.0	15.4	16.7	13.9	14.4	15.0	15.4	16.7
	8H	14.5	14.9	15.5	15.9	17.2	14.5	14.9	15.5	15.9	17.2
	12H	15.0	15.4	16.1	16.4	17.8	15.0	15.4	16.1	16.4	17.8
12H	4H	12.9	13.3	13.9	14.3	15.7	12.9	13.3	13.9	14.3	15.7
	6H	14.0	14.4	15.1	15.4	16.8	14.0	14.4	15.1	15.4	16.8
	8H	14.6	15.0	15.7	16.0	17.4	14.6	15.0	15.7	16.0	17.4

Maximum UGR = 17.8

POLAR GRAPH



Maximum Candela = 233.976 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.)