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IES INDOOR REPORT PHOTOMETRIC FILENAME : FSN MROR 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) - Mercury Glass (MROR) 18" Bowl
 [LUMINAIRE] Justice Design Group - Pendant mount luminaire. Product ID: FSN MROR 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	1695
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	43
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	868	868	868
55	790	790	790
65	708	708	708
75	629	629	629
85	569	569	569

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CANDELA TABULATION

	<u>0</u>
0.0	264.107
0.5	264.095
1.0	264.070
1.5	264.007
2.0	263.920
2.5	263.795
3.0	263.682
3.5	263.532
4.0	263.345
4.5	263.170
5.0	262.945
5.5	262.720
6.0	262.420
6.5	262.145
7.0	261.820
7.5	261.483
8.0	261.121
8.5	260.733
9.0	260.321
9.5	259.908
10.0	259.459
10.5	259.021
11.0	258.534
11.5	257.997
12.0	257.472
12.5	256.922
13.0	256.335
13.5	255.735
14.0	255.123
14.5	254.473
15.0	253.811
15.5	253.123
16.0	252.386
16.5	251.649
17.0	250.899
17.5	250.124
18.0	249.300
18.5	248.512
19.0	247.638
19.5	246.776
20.0	245.901
20.5	244.989
21.0	244.064
21.5	243.102
22.0	242.140
22.5	241.140
23.0	240.153
23.5	239.103
24.0	238.041
24.5	236.992
25.0	235.929
25.5	234.805
26.0	233.668
26.5	232.556

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CANDELA TABULATION - (Cont.)

27.0	231.369
27.5	230.231
28.0	229.032
28.5	227.820
29.0	226.608
29.5	225.371
30.0	224.121
30.5	222.822
31.0	221.547
31.5	220.222
32.0	218.948
32.5	217.598
33.0	216.236
33.5	214.887
34.0	213.512
34.5	212.113
35.0	210.688
35.5	209.276
36.0	207.852
36.5	206.415
37.0	204.965
37.5	203.491
38.0	202.029
38.5	200.517
39.0	199.030
39.5	197.518
40.0	195.981
40.5	194.432
41.0	192.932
41.5	191.345
42.0	189.758
42.5	188.196
43.0	186.609
43.5	185.022
44.0	183.398
44.5	181.798
45.0	180.187
45.5	178.587
46.0	176.975
46.5	175.313
47.0	173.676
47.5	172.002
48.0	170.378
48.5	168.678
49.0	167.029
49.5	165.329
50.0	163.730
50.5	162.018
51.0	160.306
51.5	158.632
52.0	156.895
52.5	155.220
53.0	153.483
53.5	151.784
54.0	150.047
54.5	148.373

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CANDELA TABULATION - (Cont.)

55.0	146.636
55.5	144.911
56.0	143.187
56.5	141.438
57.0	139.701
57.5	137.964
58.0	136.227
58.5	134.478
59.0	132.816
59.5	131.054
60.0	129.304
60.5	127.593
61.0	125.831
61.5	124.081
62.0	122.332
62.5	120.620
63.0	118.858
63.5	117.184
64.0	115.434
64.5	113.722
65.0	112.011
65.5	110.261
66.0	108.587
66.5	106.887
67.0	105.175
67.5	103.476
68.0	101.839
68.5	100.140
69.0	98.478
69.5	96.828
70.0	95.154
70.5	93.517
71.0	91.855
71.5	90.218
72.0	88.581
72.5	87.019
73.0	85.382
73.5	83.808
74.0	82.234
74.5	80.634
75.0	79.110
75.5	77.548
76.0	76.011
76.5	74.474
77.0	72.999
77.5	71.487
78.0	69.988
78.5	68.538
79.0	67.076
79.5	65.639
80.0	64.215
80.5	62.815
81.0	61.416
81.5	60.066
82.0	58.692
82.5	57.367

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CANDELA TABULATION - (Cont.)

83.0	56.080
83.5	54.743
84.0	53.494
84.5	52.207
85.0	50.982
85.5	49.757
86.0	48.595
86.5	47.396
87.0	46.246
87.5	45.122
88.0	43.985
88.5	42.935
89.0	41.860
89.5	40.848
90.0	39.998
90.5	39.324
91.0	38.774
91.5	38.299
92.0	37.912
92.5	37.499
93.0	37.162
93.5	36.850
94.0	36.562
94.5	36.362
95.0	36.400
95.5	36.775
96.0	37.574
96.5	38.774
97.0	40.273
97.5	42.048
98.0	43.772
98.5	45.434
99.0	47.183
99.5	48.808
100.0	50.482
100.5	52.307
101.0	54.181
101.5	56.180
102.0	58.142
102.5	60.166
103.0	62.078
103.5	64.027
104.0	65.902
104.5	67.814
105.0	69.725
105.5	71.612
106.0	73.524
106.5	75.411
107.0	77.323
107.5	79.160
108.0	81.071
108.5	82.883
109.0	84.733
109.5	86.545
110.0	88.381
110.5	90.256

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CANDELA TABULATION - (Cont.)

111.0	92.180
111.5	94.154
112.0	96.104
112.5	98.178
113.0	100.190
113.5	102.326
114.0	104.538
114.5	106.762
115.0	109.049
115.5	111.336
116.0	113.685
116.5	116.034
117.0	118.521
117.5	120.920
118.0	123.394
118.5	125.943
119.0	128.492
119.5	131.054
120.0	133.603
120.5	136.215
121.0	138.789
121.5	141.425
122.0	143.987
122.5	146.623
123.0	149.222
123.5	151.759
124.0	154.333
124.5	156.870
125.0	159.381
125.5	161.818
126.0	164.230
126.5	166.516
127.0	168.803
127.5	171.065
128.0	173.251
128.5	175.351
129.0	177.463
129.5	179.487
130.0	181.449
130.5	183.348
131.0	185.135
131.5	186.959
132.0	188.696
132.5	190.333
133.0	191.945
133.5	193.469
134.0	194.969
134.5	196.393
135.0	197.730
135.5	199.030
136.0	200.254
136.5	201.467
137.0	202.591
137.5	203.666
138.0	204.690
138.5	205.703

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CANDELA TABULATION - (Cont.)

139.0	206.615
139.5	207.464
140.0	208.327
140.5	209.076
141.0	209.826
141.5	210.513
142.0	211.151
142.5	211.788
143.0	212.350
143.5	212.888
144.0	213.437
144.5	213.887
145.0	214.362
145.5	214.749
146.0	215.187
146.5	215.562
147.0	215.924
147.5	216.249
148.0	216.561
148.5	216.874
149.0	217.211
149.5	217.523
150.0	217.823
150.5	218.123
151.0	218.448
151.5	218.735
152.0	219.048
152.5	219.360
153.0	219.648
153.5	219.910
154.0	220.185
154.5	220.447
155.0	220.685
155.5	220.960
156.0	221.222
156.5	221.485
157.0	221.747
157.5	221.972
158.0	222.259
158.5	222.509
159.0	222.772
159.5	223.059
160.0	223.334
160.5	223.621
161.0	223.884
161.5	224.146
162.0	224.408
162.5	224.721
163.0	224.996
163.5	225.333
164.0	225.683
164.5	225.858
165.0	225.820
165.5	225.608
166.0	225.058
166.5	224.121

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CANDELA TABULATION - (Cont.)

167.0	222.934
167.5	221.210
168.0	219.160
168.5	216.924
169.0	214.250
169.5	211.338
170.0	208.177
170.5	204.790
171.0	201.154
171.5	197.543
172.0	193.732
172.5	189.871
173.0	185.960
173.5	181.699
174.0	177.050
174.5	171.827
175.0	166.291
175.5	160.156
176.0	153.658
176.5	146.311
177.0	138.064
177.5	129.417
178.0	119.345
178.5	108.374
179.0	97.353
179.5	87.269
180.0	78.885

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	96.62	N.A.	5.70
0-30	205.36	N.A.	12.10
0-40	337.22	N.A.	19.90
0-60	607.51	N.A.	35.80
0-80	802.28	N.A.	47.30
0-90	858.26	N.A.	50.60
10-90	833.27	N.A.	49.20
20-40	240.60	N.A.	14.20
20-50	379.69	N.A.	22.40
40-70	381.31	N.A.	22.50
60-80	194.78	N.A.	11.50
70-80	83.75	N.A.	4.90
80-90	55.98	N.A.	3.30
90-110	117.17	N.A.	6.90
90-120	225.76	N.A.	13.30
90-130	367.70	N.A.	21.70
90-150	654.04	N.A.	38.60
90-180	836.34	N.A.	49.40
110-180	719.17	N.A.	42.40
0-180	1694.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	24.99
10-20	71.63
20-30	108.74
30-40	131.86
40-50	139.09
50-60	131.20
60-70	111.02
70-80	83.75
80-90	55.98
90-100	43.68
100-110	73.49
110-120	108.59
120-130	141.94
130-140	152.09
140-150	134.26
150-160	102.06
160-170	63.17
170-180	17.07

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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	72	61	53	46	66	56	49	43	48	42	38	40	35	32	32	29	26	23
5	66	54	46	39	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	35	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

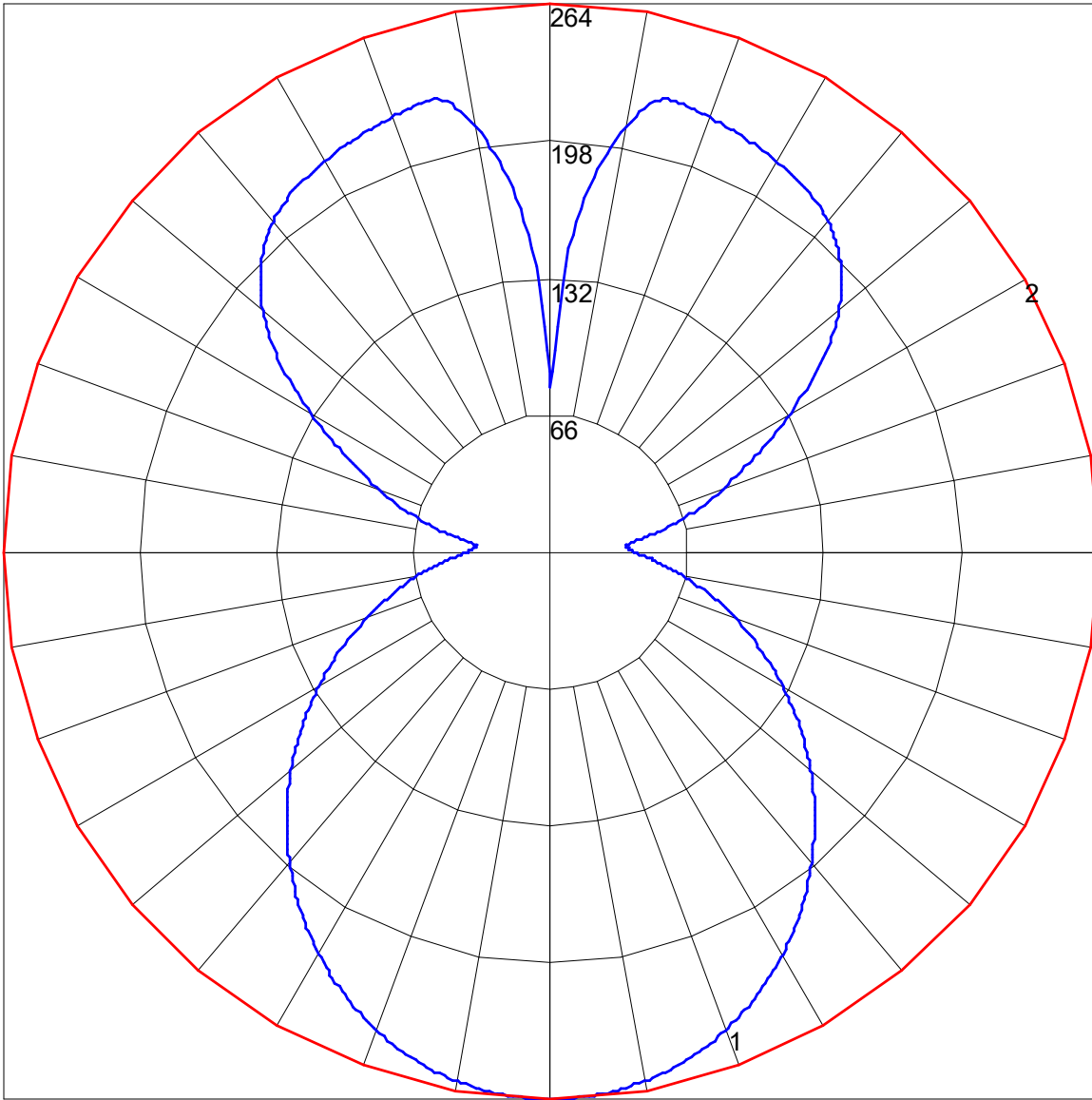
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	6.5	7.4	7.5	8.4	9.7	6.5	7.4	7.5	8.4	9.7
	3H	8.5	9.4	9.5	10.3	11.6	8.5	9.4	9.5	10.3	11.6
	4H	9.4	10.2	10.4	11.2	12.4	9.4	10.2	10.4	11.2	12.4
	6H	10.2	10.9	11.2	11.9	13.2	10.2	10.9	11.2	11.9	13.2
	8H	10.5	11.2	11.5	12.2	13.5	10.5	11.2	11.5	12.2	13.5
	12H	10.9	11.5	11.9	12.5	13.8	10.9	11.5	11.9	12.5	13.8
4H	2H	7.1	7.9	8.1	8.9	10.1	7.1	7.9	8.1	8.9	10.1
	3H	9.3	10.0	10.3	11.0	12.3	9.3	10.0	10.3	11.0	12.3
	4H	10.3	10.9	11.3	11.9	13.3	10.3	10.9	11.3	11.9	13.3
	6H	11.3	11.8	12.3	12.8	14.1	11.3	11.8	12.3	12.8	14.1
	8H	11.7	12.2	12.7	13.2	14.6	11.7	12.2	12.7	13.2	14.6
	12H	12.1	12.6	13.1	13.6	14.9	12.1	12.6	13.1	13.6	14.9
8H	4H	10.7	11.2	11.7	12.2	13.5	10.7	11.2	11.7	12.2	13.5
	6H	11.8	12.2	12.8	13.3	14.6	11.8	12.2	12.8	13.3	14.6
	8H	12.4	12.7	13.4	13.8	15.1	12.4	12.7	13.4	13.8	15.1
	12H	12.9	13.2	13.9	14.3	15.7	12.9	13.2	13.9	14.3	15.7
12H	4H	10.7	11.2	11.7	12.2	13.5	10.7	11.2	11.7	12.2	13.5
	6H	11.9	12.3	12.9	13.3	14.7	11.9	12.3	12.9	13.3	14.7
	8H	12.5	12.8	13.5	13.9	15.3	12.5	12.8	13.5	13.9	15.3

Maximum UGR = 15.7

POLAR GRAPH



Maximum Candela = 264.107 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.)