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IES INDOOR REPORT

PHOTOMETRIC FILENAME : PNA 48 BOWL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLI-18210-4

[TESTLAB] LightLab International (www.LightLabInternational.com)

[MANUFAC] Justice Design Group, Los Angeles, CA 90071

[LUMCAT] Porcelina (PNA) 48" Bowl

[LUMINAIRE] Justice Design Group - Pendant mount luminaire. Product ID: PNA 48" Bowl

[MORE] Extruded base plate with resin bowl lens.

[MORE] 126 LEDs with 21 in each of six 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: Friday, August 17, 2018 1:06:24 PM

[ISSUEDATE] Friday, August 17, 2018 1:06:24 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3169
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	46
Total Luminaire Watts	68.2
Ballast Factor	1.00
CIE Type	Semi-Indirect
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)	1.22 m (Diameter)
Luminous Width (90-270)	1.22 m (Diameter)
Luminous Height	0.31 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	248	248	248
55	216	216	216
65	178	178	178
75	134	134	134
85	87	87	87

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CANDELA TABULATION

	<u>0</u>
0.0	409.136
0.5	409.099
1.0	409.063
1.5	408.972
2.0	408.818
2.5	408.664
3.0	408.500
3.5	408.200
4.0	407.937
4.5	407.619
5.0	407.274
5.5	406.893
6.0	406.448
6.5	405.976
7.0	405.531
7.5	404.968
8.0	404.378
8.5	403.806
9.0	403.107
9.5	402.426
10.0	401.699
10.5	400.909
11.0	400.119
11.5	399.284
12.0	398.430
12.5	397.522
13.0	396.623
13.5	395.579
14.0	394.599
14.5	393.600
15.0	392.483
15.5	391.384
16.0	390.204
16.5	389.014
17.0	387.770
17.5	386.508
18.0	385.174
18.5	383.930
19.0	382.577
19.5	381.133
20.0	379.744
20.5	378.282
21.0	376.802
21.5	375.249
22.0	373.651
22.5	372.053
23.0	370.464
23.5	368.766
24.0	367.068
24.5	365.379
25.0	363.609
25.5	361.784
26.0	359.977
26.5	358.097

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CANDELA TABULATION - (Cont.)

27.0	356.217
27.5	354.302
28.0	352.349
28.5	350.370
29.0	348.363
29.5	346.320
30.0	344.268
30.5	342.125
31.0	339.964
31.5	337.840
32.0	335.724
32.5	333.481
33.0	331.211
33.5	328.896
34.0	326.635
34.5	324.256
35.0	321.931
35.5	319.562
36.0	317.137
36.5	314.767
37.0	312.307
37.5	309.791
38.0	307.304
38.5	304.743
39.0	302.146
39.5	299.586
40.0	297.034
40.5	294.346
41.0	291.731
41.5	289.098
42.0	286.365
42.5	283.632
43.0	280.899
43.5	278.184
44.0	275.324
44.5	272.563
45.0	269.740
45.5	266.988
46.0	264.110
46.5	261.259
47.0	258.362
47.5	255.439
48.0	252.506
48.5	249.537
49.0	246.667
49.5	243.653
50.0	240.756
50.5	237.760
51.0	234.727
51.5	231.703
52.0	228.680
52.5	225.638
53.0	222.560
53.5	219.554
54.0	216.431
54.5	213.462

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CANDELA TABULATION - (Cont.)

55.0	210.338
55.5	207.224
56.0	204.155
56.5	201.049
57.0	197.935
57.5	194.802
58.0	191.742
58.5	188.610
59.0	185.541
59.5	182.372
60.0	179.239
60.5	176.188
61.0	173.001
61.5	169.841
62.0	166.727
62.5	163.631
63.0	160.498
63.5	157.465
64.0	154.287
64.5	151.191
65.0	148.122
65.5	145.017
66.0	141.902
66.5	138.797
67.0	135.737
67.5	132.622
68.0	129.681
68.5	126.584
69.0	123.561
69.5	120.591
70.0	117.568
70.5	114.626
71.0	111.611
71.5	108.660
72.0	105.782
72.5	102.913
73.0	100.025
73.5	97.174
74.0	94.359
74.5	91.526
75.0	88.793
75.5	86.006
76.0	83.300
76.5	80.594
77.0	78.006
77.5	75.473
78.0	72.803
78.5	70.252
79.0	67.737
79.5	65.285
80.0	62.861
80.5	60.491
81.0	58.139
81.5	55.869
82.0	53.617
82.5	51.393

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CANDELA TABULATION - (Cont.)

83.0	49.286
83.5	47.198
84.0	45.191
84.5	43.175
85.0	41.269
85.5	39.425
86.0	37.736
86.5	36.102
87.0	34.422
87.5	32.924
88.0	31.471
88.5	30.227
89.0	29.047
89.5	28.075
90.0	27.385
90.5	26.949
91.0	26.741
91.5	26.423
92.0	26.396
92.5	26.541
93.0	26.840
93.5	27.376
94.0	27.966
94.5	28.793
95.0	29.728
95.5	30.663
96.0	31.671
96.5	32.770
97.0	33.932
97.5	35.621
98.0	38.944
98.5	45.209
99.0	56.414
99.5	71.478
100.0	88.775
100.5	105.909
101.0	120.891
101.5	132.713
102.0	138.452
102.5	142.111
103.0	146.270
103.5	151.309
104.0	157.093
104.5	163.830
105.0	171.249
105.5	179.548
106.0	188.419
106.5	197.663
107.0	207.469
107.5	217.239
108.0	227.263
108.5	236.707
109.0	245.932
109.5	254.748
110.0	263.302
110.5	271.783

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CANDELA TABULATION - (Cont.)

111.0	280.336
111.5	288.463
112.0	296.171
112.5	303.699
113.0	310.690
113.5	317.709
114.0	324.510
114.5	331.293
115.0	337.858
115.5	344.177
116.0	350.243
116.5	355.854
117.0	361.202
117.5	366.124
118.0	371.227
118.5	376.239
119.0	381.324
119.5	386.381
120.0	391.357
120.5	396.288
121.0	401.036
121.5	405.458
122.0	409.508
122.5	413.412
123.0	416.945
123.5	420.431
124.0	423.573
124.5	426.587
125.0	429.439
125.5	431.963
126.0	434.460
126.5	436.639
127.0	438.773
127.5	440.625
128.0	442.496
128.5	444.148
129.0	445.692
129.5	447.244
130.0	448.597
130.5	449.860
131.0	451.049
131.5	452.102
132.0	453.201
132.5	454.182
133.0	455.071
133.5	455.925
134.0	456.715
134.5	457.487
135.0	458.268
135.5	458.967
136.0	459.593
136.5	460.311
137.0	460.992
137.5	461.600
138.0	462.172
138.5	462.690

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CANDELA TABULATION - (Cont.)

139.0	463.216
139.5	463.688
140.0	464.106
140.5	464.397
141.0	464.733
141.5	465.087
142.0	465.332
142.5	465.486
143.0	465.704
143.5	465.904
144.0	465.986
144.5	466.058
145.0	466.167
145.5	466.213
146.0	466.176
146.5	466.158
147.0	466.113
147.5	465.949
148.0	465.840
148.5	465.631
149.0	465.513
149.5	465.159
150.0	464.914
150.5	464.560
151.0	464.106
151.5	463.679
152.0	463.207
152.5	462.690
153.0	462.181
153.5	461.682
154.0	461.146
154.5	460.665
155.0	460.138
155.5	459.566
156.0	458.967
156.5	458.386
157.0	457.832
157.5	457.287
158.0	456.733
158.5	456.107
159.0	455.453
159.5	454.844
160.0	454.236
160.5	453.600
161.0	452.983
161.5	452.366
162.0	451.730
162.5	451.158
163.0	450.559
163.5	449.923
164.0	449.324
164.5	448.761
165.0	448.198
165.5	447.462
166.0	446.636
166.5	445.764

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CANDELA TABULATION - (Cont.)

167.0	444.838
167.5	443.749
168.0	442.659
168.5	441.633
169.0	440.444
169.5	439.318
170.0	438.192
170.5	437.093
171.0	436.058
171.5	435.032
172.0	434.060
172.5	433.134
173.0	432.253
173.5	431.518
174.0	430.728
174.5	429.938
175.0	429.166
175.5	428.331
176.0	427.459
176.5	426.542
177.0	425.607
177.5	424.726
178.0	423.791
178.5	422.837
179.0	421.884
179.5	420.903
180.0	419.977

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	149.45	N.A.	4.70
0-30	316.98	N.A.	10.00
0-40	518.33	N.A.	16.40
0-60	914.42	N.A.	28.90
0-80	1155.3	N.A.	36.50
0-90	1201.63	N.A.	37.90
10-90	1162.93	N.A.	36.70
20-40	368.89	N.A.	11.60
20-50	576.94	N.A.	18.20
40-70	542.77	N.A.	17.10
60-80	240.88	N.A.	7.60
70-80	94.20	N.A.	3.00
80-90	46.33	N.A.	1.50
90-110	226.29	N.A.	7.10
90-120	557.11	N.A.	17.60
90-130	939.00	N.A.	29.60
90-150	1585.76	N.A.	50.00
90-180	1967.08	N.A.	62.10
110-180	1740.79	N.A.	54.90
0-180	3168.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	38.70
10-20	110.75
20-30	167.53
30-40	201.35
40-50	208.05
50-60	188.03
60-70	146.68
70-80	94.20
80-90	46.33
90-100	38.59
100-110	187.70
110-120	330.82
120-130	381.90
130-140	354.27
140-150	292.48
150-160	213.05
160-170	127.05
170-180	41.23

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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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38	0
1	95	90	86	83	86	82	79	75	66	64	62	52	51	49	39	38	37	31	0
2	86	78	72	67	78	71	66	62	58	54	51	46	43	41	34	32	31	26	0
3	78	69	61	56	71	63	56	51	51	46	42	40	37	34	30	28	26	21	0
4	71	61	53	47	64	55	48	43	45	40	36	36	32	29	27	24	22	18	0
5	65	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19	16	0
6	60	48	40	34	54	44	37	32	36	31	27	29	25	22	22	19	17	14	0
7	56	43	36	30	50	40	33	28	33	27	23	26	22	19	20	17	15	12	0
8	51	39	32	26	47	36	29	24	30	24	21	24	20	17	18	15	13	11	0
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	17	14	12	10	0
10	45	33	26	21	40	30	24	19	25	20	17	20	16	14	15	13	11	9	0

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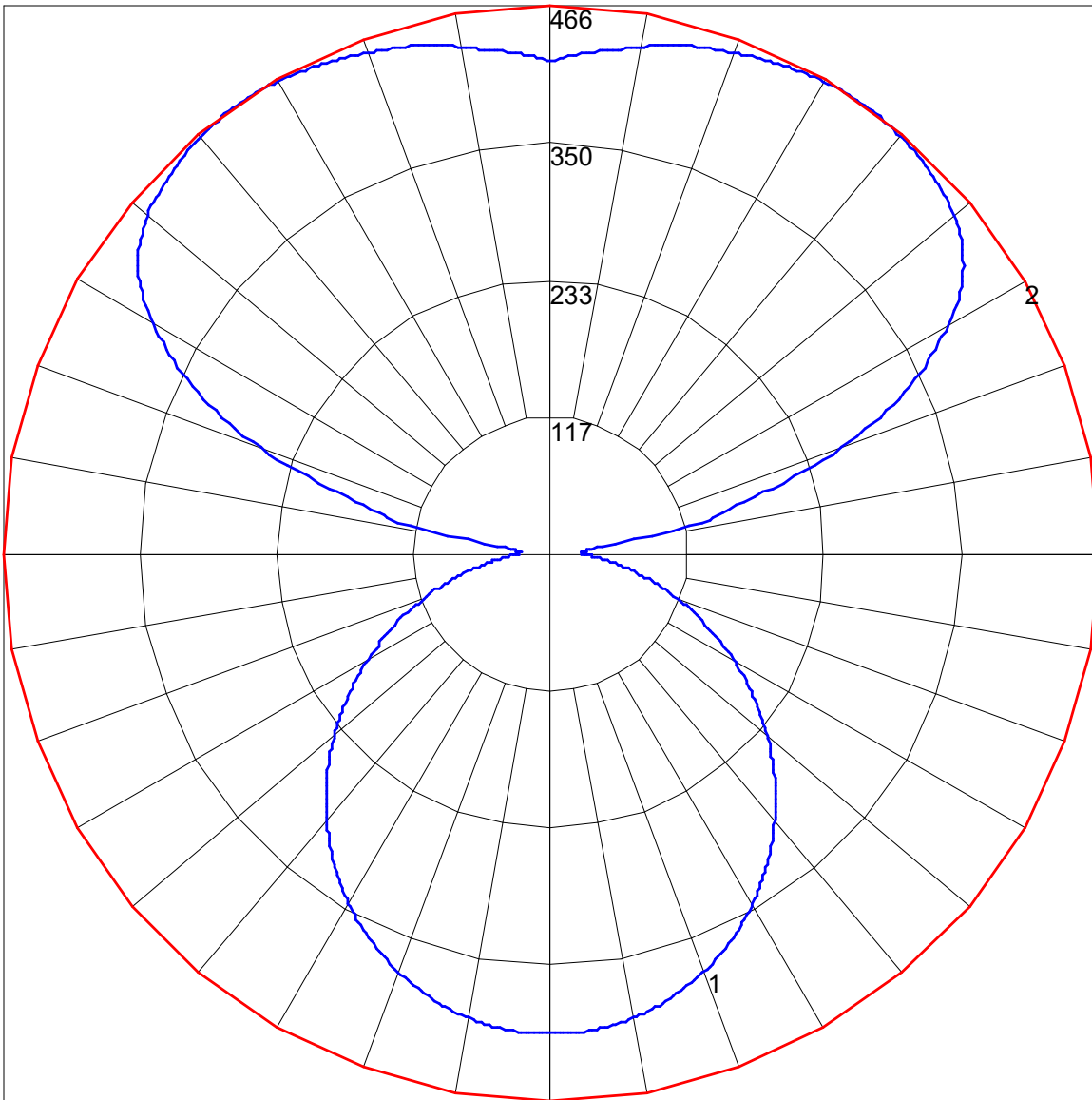
UGR TABLE - CORRECTED

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	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	3H	4.0	4.0	4.0	4.2	5.6	4.0	4.0	4.0	4.2	5.6
	4H	4.0	4.0	4.1	4.8	6.2	4.0	4.0	4.1	4.8	6.2
	6H	4.0	4.1	4.6	5.2	6.7	4.0	4.1	4.6	5.2	6.7
	8H	4.0	4.3	4.8	5.3	6.8	4.0	4.3	4.8	5.3	6.8
	12H	4.0	4.4	4.9	5.4	6.9	4.0	4.4	4.9	5.4	6.9
4H	2H	4.0	4.0	4.0	4.0	4.4	4.0	4.0	4.0	4.0	4.4
	3H	4.0	4.0	4.1	4.7	6.2	4.0	4.0	4.1	4.7	6.2
	4H	4.0	4.3	4.9	5.4	6.9	4.0	4.3	4.9	5.4	6.9
	6H	4.4	4.9	5.5	6.0	7.4	4.4	4.9	5.5	6.0	7.4
	8H	4.6	5.1	5.7	6.2	7.7	4.6	5.1	5.7	6.2	7.7
	12H	4.8	5.2	5.9	6.3	7.8	4.8	5.2	5.9	6.3	7.8
8H	4H	4.0	4.4	5.1	5.5	7.0	4.0	4.4	5.1	5.5	7.0
	6H	4.8	5.1	5.9	6.2	7.7	4.8	5.1	5.9	6.2	7.7
	8H	5.1	5.4	6.2	6.5	8.0	5.1	5.4	6.2	6.5	8.0
	12H	5.4	5.6	6.5	6.7	8.3	5.4	5.6	6.5	6.7	8.3
12H	4H	4.0	4.4	5.1	5.5	7.0	4.0	4.4	5.1	5.5	7.0
	6H	4.8	5.1	5.9	6.2	7.8	4.8	5.1	5.9	6.2	7.8
	8H	5.2	5.4	6.3	6.5	8.1	5.2	5.4	6.3	6.5	8.1

Maximum UGR = 8.3

POLAR GRAPH



Maximum Candela = 466.213 Located At Horizontal Angle = 0, Vertical Angle = 145.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (145.5) (Through Max. Cd.)