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IES INDOOR REPORT PHOTOMETRIC FILENAME : PNA 36 BOWL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]BALLABS TEST NO. 15395.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] APR-2010
 [MANUFAC] Justice Design Group, Los Angeles, CA 90071
 [LUMCAT] Porcelina (PNA) 36" Bowl
 [LUMINAIRE] Justice Design Group - Pendant mount luminaire. Product ID: PNA 36" Bowl
 [MORE] Extruded base plate with resin bowl lens.
 [LAMP CAT] 6-13W LED-3K 1000L EACH 6000 TOTAL LUMENS,
 [MORE] 78W AT 120.0 VOLTS

CHARACTERISTICS

Lumens Per Lamp	1000 (6 lamps)
Total Lamp Lumens	6000
Luminaire Lumens	3222
Total Luminaire Efficiency	54 %
Luminaire Efficacy Rating (LER)	41
Total Luminaire Watts	78
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Sphere
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.13 ft (Diameter)
Luminous Height	0.42 ft (Diameter)

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5621	5723	5860
55	4867	5038	5209
65	4044	4284	4490
75	3290	3530	3736
85	2536	2776	2982

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PNA 36 BOWL.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	696.930	696.930	696.930	696.930	696.930
2.5	696.930	693.762	696.930	693.762	696.930
5.0	693.762	690.595	693.762	693.762	696.930
7.5	690.595	687.427	690.595	690.595	690.595
10.0	687.427	684.259	687.427	687.427	690.595
12.5	681.091	681.091	681.091	684.259	684.259
15.0	674.755	674.755	674.755	677.923	677.923
17.5	665.252	668.420	668.420	671.587	668.420
20.0	655.748	658.916	658.916	662.084	658.916
22.5	646.244	649.412	646.244	652.580	649.412
25.0	636.741	639.909	636.741	643.077	639.909
27.5	624.069	627.237	627.237	633.573	630.405
30.0	611.398	614.566	614.566	624.069	617.734
32.5	598.726	601.894	601.894	611.398	608.230
35.0	586.055	589.223	589.223	598.726	595.559
37.5	570.216	576.551	576.551	586.055	582.887
40.0	554.376	560.712	560.712	573.384	570.216
42.5	538.537	544.873	544.873	557.544	554.376
45.0	519.530	529.033	529.033	544.873	541.705
47.5	503.691	513.194	513.194	529.033	525.866
50.0	487.851	497.355	500.523	516.362	513.194
52.5	468.844	478.348	481.515	500.523	497.355
55.0	449.837	462.508	465.676	481.515	481.515
57.5	430.830	443.501	446.669	465.676	462.508
60.0	411.822	427.662	430.830	449.837	446.669
62.5	392.815	405.487	411.822	430.830	430.830
65.0	373.808	389.647	395.983	414.990	414.990
67.5	354.801	370.640	376.976	395.983	395.983
70.0	338.962	354.801	361.137	380.144	380.144
72.5	319.954	335.794	342.129	364.304	361.137
75.0	304.115	319.954	326.290	348.465	345.297
77.5	285.108	300.947	307.283	329.458	326.290
80.0	266.101	285.108	291.444	313.619	310.451
82.5	250.261	266.101	272.436	294.611	291.444
85.0	234.422	250.261	256.597	278.772	275.604
87.5	215.415	234.422	237.590	259.765	256.597
90.0	202.743	212.247	221.751	237.590	243.926
92.5	190.072	186.904	205.911	215.415	228.086
95.0	174.233	171.065	193.240	196.408	212.247
97.5	158.393	155.225	174.233	177.400	190.072
100.0	142.554	139.386	158.393	161.561	174.233
102.5	126.715	123.547	142.554	145.722	158.393
105.0	114.043	110.875	126.715	129.882	142.554
107.5	98.204	98.204	110.875	114.043	126.715
110.0	88.700	85.532	98.204	101.372	110.875
112.5	72.861	72.861	85.532	85.532	95.036
115.0	63.357	60.189	72.861	72.861	82.364
117.5	53.854	50.686	60.189	60.189	69.693
120.0	44.350	41.182	50.686	50.686	57.022
122.5	34.847	34.847	41.182	41.182	47.518
125.0	28.511	25.343	31.679	31.679	38.014
127.5	22.175	19.007	25.343	22.175	28.511
130.0	15.839	12.671	19.007	15.839	19.007
132.5	9.504	9.504	12.671	9.504	12.671

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PNA 36 BOWL.IES

CANDELA TABULATION - (Cont.)

135.0	6.336	6.336	9.504	6.336	6.336
137.5	3.168	3.168	3.168	3.168	3.168
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PNA 36 BOWL.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	256.92	4.30	8.00
0-30	552.07	9.20	17.10
0-40	923.04	15.40	28.60
0-60	1755.24	29.30	54.50
0-80	2497.71	41.60	77.50
0-90	2780.56	46.30	86.30
10-90	2714.6	45.20	84.30
20-40	666.12	11.10	20.70
20-50	1078.52	18.00	33.50
40-70	1226.98	20.40	38.10
60-80	742.47	12.40	23.00
70-80	347.69	5.80	10.80
80-90	282.84	4.70	8.80
90-110	336.86	5.60	10.50
90-120	407.18	6.80	12.60
90-130	435.57	7.30	13.50
90-150	441.37	7.40	13.70
90-180	441.37	7.40	13.70
110-180	104.50	1.70	3.20
0-180	3221.93	53.70	100.00

Total Luminaire Efficiency = 53.70%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	65.96
10-20	190.96
20-30	295.15
30-40	370.97
40-50	412.40
50-60	419.81
60-70	394.78
70-80	347.69
80-90	282.84
90-100	205.26
100-110	131.61
110-120	70.31
120-130	28.39
130-140	5.80
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT
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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	62	62	62	62	60	60	60	60	56	56	56	52	52	52	48	48	48	46
1	55	51	48	46	52	49	47	44	46	43	41	42	40	39	39	38	36	35
2	49	44	39	36	47	42	38	35	39	35	33	36	33	31	33	31	29	27
3	44	38	33	29	42	36	32	28	34	30	27	31	28	25	29	26	24	22
4	40	33	28	24	38	32	27	23	30	25	22	27	24	21	25	22	20	18
5	37	29	24	20	35	28	23	20	26	22	19	24	21	18	23	20	17	16
6	34	26	21	17	32	25	21	17	24	19	16	22	18	16	20	17	15	14
7	31	24	19	15	30	23	18	15	21	17	14	20	16	14	19	15	13	12
8	29	21	17	13	28	21	16	13	19	15	13	18	15	12	17	14	12	10
9	27	20	15	12	26	19	15	12	18	14	11	17	13	11	16	13	10	9
10	25	18	14	11	24	18	13	11	16	13	10	15	12	10	15	12	9	8

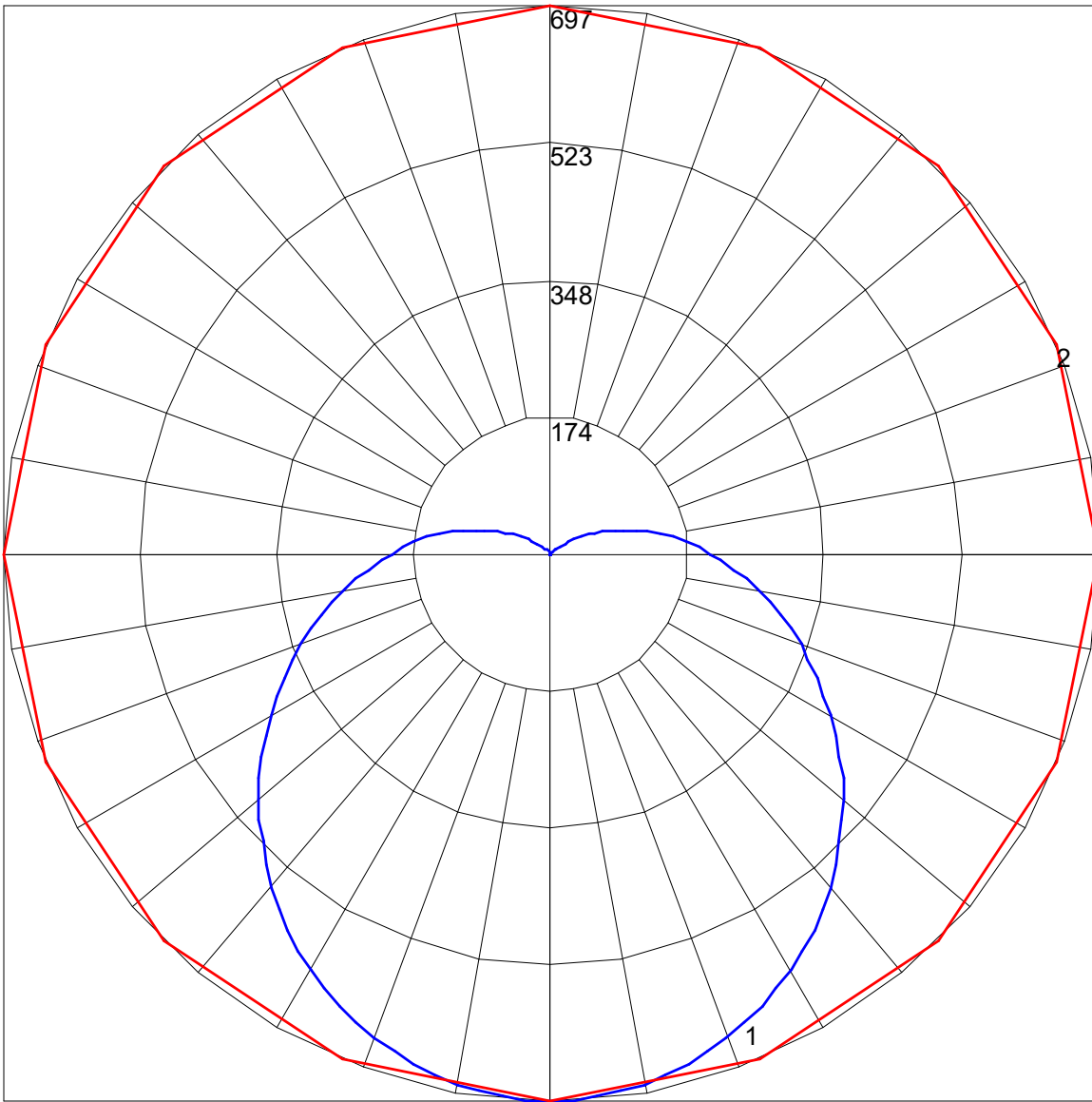
IES INDOOR REPORT
PHOTOMETRIC FILENAME : PNA 36 BOWL.IES

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	13.8	15.2	14.4	15.8	16.5	14.2	15.6	14.7	16.2	16.9
	3H	15.9	17.3	16.5	17.9	18.6	16.4	17.8	17.0	18.4	19.1
	4H	16.9	18.2	17.5	18.8	19.5	17.5	18.8	18.1	19.4	20.1
	6H	17.8	19.0	18.4	19.6	20.4	18.5	19.7	19.1	20.3	21.0
	8H	18.3	19.4	18.9	20.0	20.8	18.9	20.1	19.6	20.7	21.5
	12H	18.7	19.8	19.3	20.4	21.1	19.4	20.5	20.0	21.1	21.9
4H	2H	14.4	15.7	15.0	16.3	17.0	14.7	16.0	15.3	16.6	17.3
	3H	16.8	17.9	17.4	18.6	19.3	17.2	18.3	17.9	19.0	19.7
	4H	18.0	19.0	18.6	19.6	20.4	18.5	19.5	19.1	20.1	20.9
	6H	19.1	20.0	19.7	20.6	21.4	19.7	20.6	20.3	21.2	22.0
	8H	19.6	20.4	20.2	21.1	21.9	20.2	21.1	20.9	21.7	22.5
	12H	20.0	20.8	20.7	21.5	22.3	20.7	21.5	21.4	22.2	23.0
8H	4H	18.4	19.3	19.1	19.9	20.7	18.8	19.7	19.5	20.4	21.1
	6H	19.7	20.4	20.4	21.1	21.9	20.2	20.9	20.9	21.7	22.4
	8H	20.3	21.0	21.0	21.7	22.5	20.9	21.6	21.6	22.3	23.1
	12H	21.0	21.6	21.7	22.3	23.1	21.6	22.2	22.3	22.9	23.8
12H	4H	18.5	19.3	19.2	20.0	20.8	18.9	19.7	19.6	20.4	21.2
	6H	19.8	20.5	20.5	21.2	22.0	20.3	21.0	21.0	21.7	22.5
	8H	20.6	21.1	21.3	21.9	22.7	21.1	21.7	21.8	22.4	23.3

Maximum UGR = 23.8

POLAR GRAPH



Maximum Candela = 696.93 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.)