

IES INDOOR REPORT

PHOTOMETRIC FILENAME : P3936-48-60-SO-D9.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 105127679LAX-005
[TESTLAB] Intertek
[ISSUE DATE]
[MANUFAC] Prudential Lighting
[LUMCAT] P39 or 4036-48-SO

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1975
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Circular
Luminous Length (0-180)	2.00 ft (Diameter)
Luminous Width (90-270)	2.00 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	10.432	9.943	9.943	9.128	8.802	9.128	9.943	9.943	10.432	9.943
95.0	25.428	24.776	24.450	23.635	23.472	23.635	24.450	24.776	25.428	24.776
97.5	44.825	44.010	43.521	43.032	42.706	43.032	43.521	44.010	44.825	44.010
100.0	66.667	66.178	66.015	65.852	66.178	65.852	66.015	66.178	66.667	66.178
102.5	91.117	90.628	91.117	90.954	91.280	90.954	91.117	90.628	91.117	90.628
105.0	115.893	115.567	116.056	116.056	116.056	116.056	116.056	115.567	115.893	115.567
107.5	141.158	140.995	141.810	141.810	142.136	141.810	141.810	140.995	141.158	140.995
110.0	167.727	167.727	168.379	168.705	168.705	168.705	168.379	167.727	167.727	167.727
112.5	195.763	195.437	196.089	196.578	196.904	196.578	196.089	195.437	195.763	195.437
115.0	224.940	224.451	225.103	225.592	226.244	225.592	225.103	224.451	224.940	224.451
117.5	254.769	254.280	255.095	255.258	256.073	255.258	255.095	254.280	254.769	254.280
120.0	284.924	284.272	285.250	285.413	286.228	285.413	285.250	284.272	284.924	284.272
122.5	315.405	314.916	315.405	316.220	316.709	316.220	315.405	314.916	315.405	314.916
125.0	346.375	346.212	346.212	347.353	347.516	347.353	346.212	346.212	346.375	346.212
127.5	377.834	377.671	377.508	378.649	378.812	378.649	377.508	377.671	377.834	377.671
130.0	409.619	409.130	409.293	409.945	410.271	409.945	409.293	409.130	409.619	409.130
132.5	440.915	440.589	440.589	441.078	441.404	441.078	440.589	440.589	440.915	440.589

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CANDELA TABULATION - (Cont.)

135.0	471.396	471.233	470.907	471.559	471.722	471.559	470.907	471.233	471.396	471.233
137.5	500.736	500.410	500.084	500.573	500.573	500.573	500.084	500.410	500.736	500.410
140.0	528.935	528.446	527.957	528.772	528.283	528.772	527.957	528.446	528.935	528.446
142.5	555.667	555.178	554.852	555.178	554.852	555.178	554.852	555.178	555.667	555.178
145.0	580.606	580.117	579.791	579.954	579.628	579.954	579.791	580.117	580.606	580.117
147.5	603.100	602.611	602.448	602.122	601.959	602.122	602.448	602.611	603.100	602.611
150.0	622.986	622.660	622.171	622.171	621.519	622.171	622.171	622.660	622.986	622.660
152.5	640.590	640.264	639.612	639.612	638.960	639.612	639.612	640.264	640.590	640.264
155.0	655.586	655.260	654.608	654.771	653.956	654.771	654.608	655.260	655.586	655.260
157.5	668.137	667.648	667.159	667.159	666.507	667.159	667.159	667.648	668.137	667.648
160.0	678.243	677.754	677.265	677.265	676.613	677.265	677.265	677.754	678.243	677.754
162.5	685.904	685.578	685.089	685.089	684.600	685.089	685.089	685.578	685.904	685.578
165.0	691.609	691.283	690.957	690.957	690.305	690.957	690.957	691.283	691.609	691.283
167.5	695.847	695.358	695.195	695.195	694.543	695.195	695.195	695.358	695.847	695.358
170.0	698.781	698.455	698.129	698.292	697.640	698.292	698.129	698.455	698.781	698.455
172.5	700.737	700.574	700.248	700.574	699.759	700.574	700.248	700.574	700.737	700.574
175.0	701.715	701.552	701.389	701.715	701.226	701.715	701.389	701.552	701.715	701.552
177.5	702.204	702.204	702.041	702.204	701.715	702.204	702.041	702.204	702.204	702.204
180.0	702.204	702.204	702.204	702.204	702.204	702.204	702.204	702.204	702.204	702.204

Vert. Angles	Horizontal Angles						
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	9.943	9.128	8.802	9.128	9.943	9.943	10.432
95.0	24.450	23.635	23.472	23.635	24.450	24.776	25.428
97.5	43.521	43.032	42.706	43.032	43.521	44.010	44.825
100.0	66.015	65.852	66.178	65.852	66.015	66.178	66.667
102.5	91.117	90.954	91.280	90.954	91.117	90.628	91.117
105.0	116.056	116.056	116.056	116.056	116.056	115.567	115.893
107.5	141.810	141.810	142.136	141.810	141.810	140.995	141.158
110.0	168.379	168.705	168.705	168.705	168.379	167.727	167.727
112.5	196.089	196.578	196.904	196.578	196.089	195.437	195.763
115.0	225.103	225.592	226.244	225.592	225.103	224.451	224.940
117.5	255.095	255.258	256.073	255.258	255.095	254.280	254.769
120.0	285.250	285.413	286.228	285.413	285.250	284.272	284.924
122.5	315.405	316.220	316.709	316.220	315.405	314.916	315.405
125.0	346.212	347.353	347.516	347.353	346.212	346.212	346.375
127.5	377.508	378.649	378.812	378.649	377.508	377.671	377.834
130.0	409.293	409.945	410.271	409.945	409.293	409.130	409.619
132.5	440.589	441.078	441.404	441.078	440.589	440.589	440.915
135.0	470.907	471.559	471.722	471.559	470.907	471.233	471.396
137.5	500.084	500.573	500.573	500.573	500.084	500.410	500.736
140.0	527.957	528.772	528.283	528.772	527.957	528.446	528.935
142.5	554.852	555.178	554.852	555.178	554.852	555.178	555.667
145.0	579.791	579.954	579.628	579.954	579.791	580.117	580.606
147.5	602.448	602.122	601.959	602.122	602.448	602.611	603.100
150.0	622.171	622.171	621.519	622.171	622.171	622.660	622.986
152.5	639.612	639.612	638.960	639.612	639.612	640.264	640.590
155.0	654.608	654.771	653.956	654.771	654.608	655.260	655.586
157.5	667.159	667.159	666.507	667.159	667.159	667.648	668.137
160.0	677.265	677.265	676.613	677.265	677.265	677.754	678.243
162.5	685.089	685.089	684.600	685.089	685.089	685.578	685.904
165.0	690.957	690.957	690.305	690.957	690.957	691.283	691.609
167.5	695.195	695.195	694.543	695.195	695.195	695.358	695.847
170.0	698.129	698.292	697.640	698.292	698.129	698.455	698.781
172.5	700.248	700.574	699.759	700.574	700.248	700.574	700.737
175.0	701.389	701.715	701.226	701.715	701.389	701.552	701.715
177.5	702.041	702.204	701.715	702.204	702.041	702.204	702.204
180.0	702.204	702.204	702.204	702.204	702.204	702.204	702.204

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	152.84	N.A.	7.70
90-120	376.19	N.A.	19.00
90-130	686.37	N.A.	34.80
90-150	1411.51	N.A.	71.50
90-180	1975.11	N.A.	100.00
110-180	1822.27	N.A.	92.30
0-180	1975.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	30.09
100-110	122.76
110-120	223.34
120-130	310.18
130-140	363.04
140-150	362.09
150-160	301.49
160-170	195.25
170-180	66.87

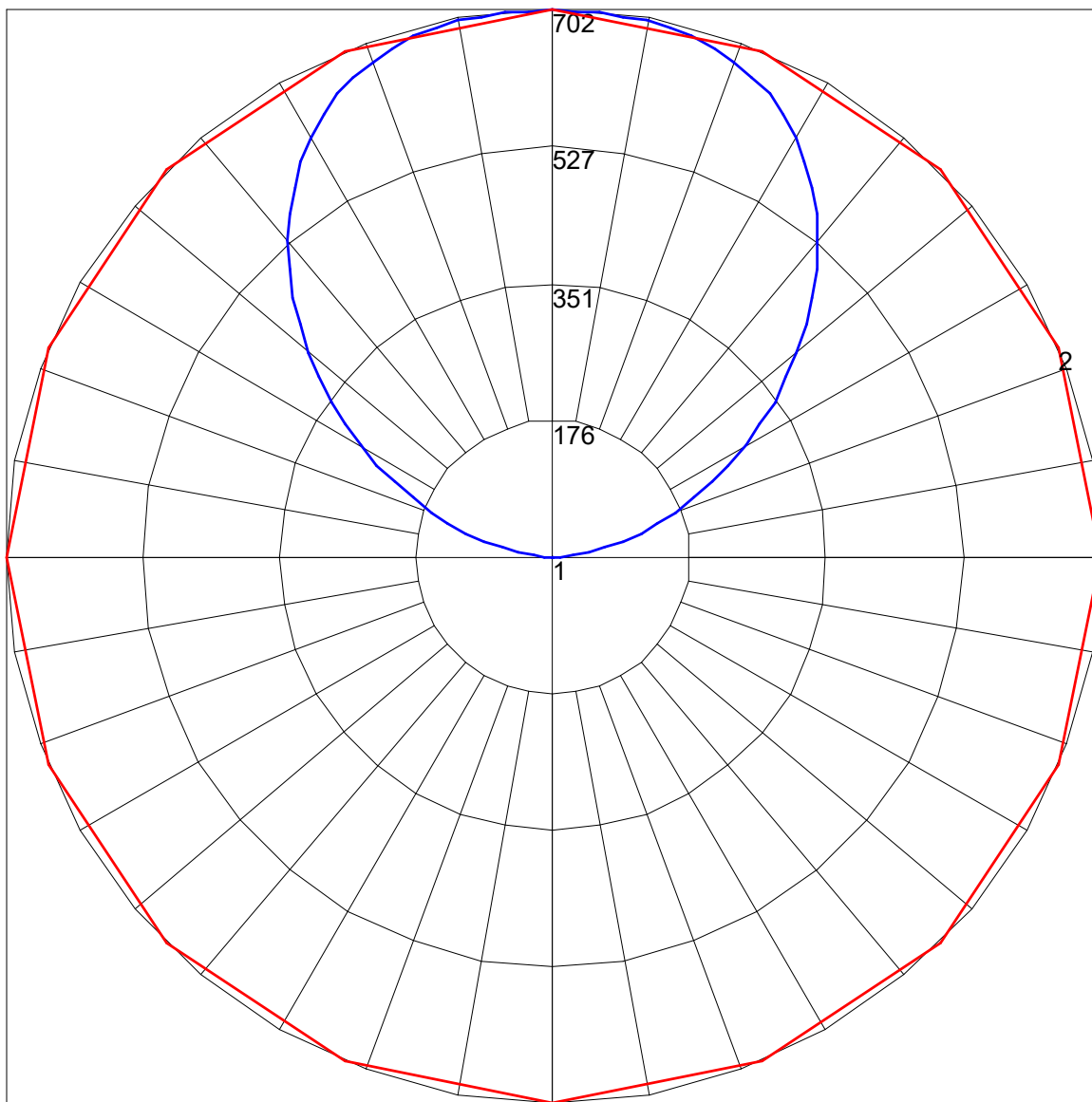
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 702.204 Located At Horizontal Angle = 0, Vertical Angle = 177.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (177.5) (Through Max. Cd.)