



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZES-44-LED4SO-SAL-.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]31978

[TESTLAB]LIGHTING SCIENCES, INC.

[ISSUE DATE] 8/ 8/2013

[MANUFACTURER]PRUDENTIAL LIGHTING - LED PENDANT LUMINAIRE

[LUMEN CATEGORY]ZES

[LUMINAIRE]WITH WHITE INTERIOR AND FROSTED WRAPPED PLASTIC LENSES

[LAMP]

[OTHER]FO

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14140
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	140
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	Rectangular w/Sides
Luminous Length (0-180)	2.23 ft
Luminous Width (90-270)	2.23 ft
Luminous Height	0.14 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3170	3313	3160
55	3831	3954	3842
65	5112	5055	5130
75	7857	7321	7833
85	16459	13833	16282

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	808.605	808.605	808.605	808.605	808.605
2.5	813.705	814.470	807.840	807.840	812.940
5.0	825.945	826.200	819.315	818.295	823.395
7.5	843.285	843.030	837.675	835.125	839.460
10.0	864.450	864.960	861.135	856.800	859.350
12.5	888.420	890.460	887.655	881.535	881.535
15.0	914.175	918.510	916.980	909.075	906.525
17.5	941.460	948.090	947.835	937.890	932.790
20.0	968.490	977.415	979.200	966.705	958.545
22.5	994.755	1006.485	1010.310	995.520	983.280
25.0	1019.235	1033.770	1040.400	1023.060	1006.740
27.5	1041.165	1059.270	1068.960	1049.070	1028.160
30.0	1060.035	1081.965	1095.225	1072.275	1047.030
32.5	1074.570	1101.090	1118.175	1092.165	1062.330
35.0	1085.790	1116.645	1137.810	1108.995	1074.315
37.5	1093.440	1128.885	1153.875	1122.510	1083.750
40.0	1098.030	1137.810	1165.860	1132.710	1090.125
42.5	1100.580	1143.675	1174.275	1140.360	1094.715
45.0	1101.600	1146.990	1179.375	1145.715	1098.030
47.5	1102.110	1149.030	1182.690	1149.540	1100.580
50.0	1103.385	1150.560	1183.710	1152.600	1103.895
52.5	1104.915	1151.325	1183.200	1154.640	1107.210
55.0	1107.210	1152.600	1181.670	1156.680	1110.525
57.5	1111.290	1154.640	1179.885	1158.975	1115.880
60.0	1116.900	1158.210	1178.100	1163.055	1122.000
62.5	1124.550	1163.055	1177.080	1167.135	1129.650
65.0	1133.475	1169.175	1176.060	1171.980	1137.555
67.5	1142.655	1175.295	1174.530	1176.315	1145.205
70.0	1151.835	1180.650	1173.255	1179.885	1152.345
72.5	1157.700	1184.475	1170.705	1181.160	1156.170
75.0	1160.760	1185.750	1166.625	1179.630	1157.190
77.5	1160.250	1183.965	1159.740	1175.295	1154.640
80.0	1157.190	1179.630	1150.560	1167.900	1148.775
82.5	1149.795	1171.215	1138.320	1157.190	1139.595
85.0	1139.340	1159.485	1123.275	1143.675	1127.100
87.5	1127.100	1144.950	1106.955	1128.375	1112.820
90.0	1110.270	1127.355	1097.265	1126.335	1110.525
92.5	1108.740	1127.865	1109.760	1147.245	1131.690
95.0	1121.490	1141.380	1125.060	1162.290	1144.950
97.5	1131.690	1153.110	1139.850	1175.040	1156.425
100.0	1141.125	1163.565	1153.110	1185.240	1165.860
102.5	1148.775	1173.000	1165.095	1193.655	1173.255
105.0	1152.855	1178.355	1173.255	1198.245	1176.315
107.5	1152.600	1180.140	1178.610	1198.755	1175.040
110.0	1148.775	1178.865	1181.670	1196.205	1169.430
112.5	1142.655	1175.550	1182.945	1191.360	1161.525
115.0	1135.005	1170.960	1182.690	1184.985	1151.580
117.5	1126.845	1165.860	1182.690	1177.845	1141.380
120.0	1118.430	1160.250	1182.690	1170.960	1131.180
122.5	1111.035	1155.660	1182.945	1165.095	1122.000
125.0	1105.425	1152.345	1183.455	1160.250	1114.605
127.5	1101.090	1148.775	1182.945	1156.170	1108.740
130.0	1098.030	1145.715	1181.415	1153.110	1104.660
132.5	1096.500	1142.910	1179.375	1150.560	1102.620

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CANDELA TABULATION - (Cont.)

135.0	1094.460	1139.850	1175.550	1146.990	1100.325
137.5	1091.655	1134.750	1169.430	1141.890	1097.520
140.0	1087.575	1127.610	1160.505	1134.750	1093.185
142.5	1081.710	1118.175	1148.265	1125.060	1087.320
145.0	1073.040	1105.425	1132.455	1112.055	1078.650
147.5	1060.290	1089.105	1113.585	1095.225	1065.645
150.0	1043.970	1067.430	1090.125	1075.590	1049.070
152.5	1025.865	1043.205	1061.055	1052.385	1030.710
155.0	1005.975	1018.980	1030.710	1024.590	1009.545
157.5	982.260	995.010	1004.445	997.050	985.575
160.0	958.545	968.490	977.925	972.825	961.350
162.5	934.575	939.420	946.560	944.775	936.870
165.0	909.075	911.370	916.470	915.960	910.350
167.5	884.595	884.850	887.910	888.930	885.360
170.0	861.900	860.625	861.900	863.940	862.410
172.5	842.775	840.225	839.715	842.775	842.775
175.0	826.710	824.415	822.375	826.455	826.710
177.5	816.000	813.960	812.430	816.255	816.510
180.0	812.175	812.175	812.175	812.175	812.175

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	340.65	N.A.	2.40
0-30	817.03	N.A.	5.80
0-40	1514.01	N.A.	10.70
0-60	3430.7	N.A.	24.30
0-80	5823.65	N.A.	41.20
0-90	7066.54	N.A.	50.00
10-90	6986.81	N.A.	49.40
20-40	1173.36	N.A.	8.30
20-50	2057.88	N.A.	14.60
40-70	3071.31	N.A.	21.70
60-80	2392.95	N.A.	16.90
70-80	1238.33	N.A.	8.80
80-90	1242.9	N.A.	8.80
90-110	2487.5	N.A.	17.60
90-120	3649.09	N.A.	25.80
90-130	4682.59	N.A.	33.10
90-150	6258.73	N.A.	44.30
90-180	7073.14	N.A.	50.00
110-180	4585.63	N.A.	32.40
0-180	14139.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	79.73
10-20	260.92
20-30	476.39
30-40	696.98
40-50	884.52
50-60	1032.17
60-70	1154.62
70-80	1238.33
80-90	1242.9
90-100	1243.57
100-110	1243.93
110-120	1161.59
120-130	1033.49
130-140	882.09
140-150	694.05
150-160	473.69
160-170	260.77
170-180	79.95

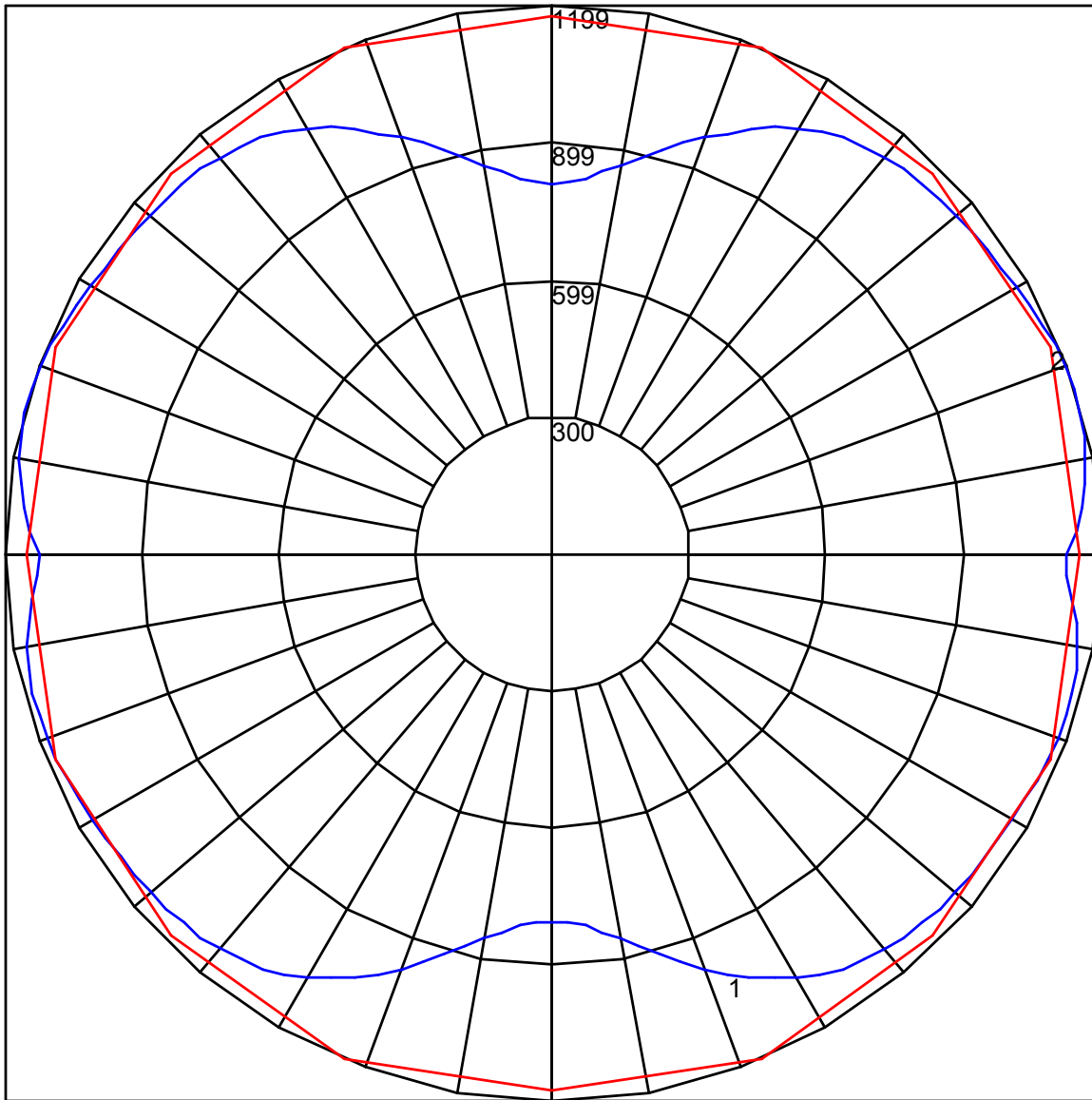
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	93	87	82	77	85	80	75	71	67	63	59	54	51	49	43	41	39	33
2	83	74	66	59	76	68	61	55	56	50	46	45	41	37	35	32	29	24
3	75	63	55	47	68	58	50	44	48	42	37	39	34	30	30	26	23	19
4	68	55	46	39	62	51	42	36	42	35	30	34	29	24	26	22	19	15
5	62	49	39	33	56	45	36	30	37	30	25	30	24	20	23	19	16	12
6	57	43	34	28	52	40	31	26	33	26	21	26	21	17	20	16	13	10
7	52	39	30	24	48	36	28	22	30	23	18	24	19	15	18	15	12	9
8	48	35	26	21	44	32	24	19	27	20	16	22	17	13	17	13	10	8
9	45	32	24	18	41	29	22	17	24	18	14	20	15	11	15	12	9	7
10	42	29	21	16	38	27	20	15	22	17	13	18	13	10	14	11	8	6

POLAR GRAPH



Maximum Candela = 1198.755 Located At Horizontal Angle = 67.5, Vertical Angle = 107.5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (107.5) (Through Max. Cd.)