



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZES-PRO-44-LED4-MO-SAL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]31978

[TESTLAB]LIGHTING SCIENCES, INC.

[ISSUEDATE] 8/ 8/2013

[MANUFAC]PRUDENTIAL LIGHTING - LED PENDANT LUMINAIRE

[LUMCAT]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	14084
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	104
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	3157	3300	3147
55	3816	3938	3827
65	5092	5035	5110
75	7827	7293	7803
85	16394	13779	16218

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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>
0.0	805.434	805.434	805.434	805.434	805.434
2.5	810.514	811.276	804.672	804.672	809.752
5.0	822.706	822.960	816.102	815.086	820.166
7.5	839.978	839.724	834.390	831.850	836.168
10.0	861.060	861.568	857.758	853.440	855.980
12.5	884.936	886.968	884.174	878.078	878.078
15.0	910.590	914.908	913.384	905.510	902.970
17.5	937.768	944.372	944.118	934.212	929.132
20.0	964.692	973.582	975.360	962.914	954.786
22.5	990.854	1002.538	1006.348	991.616	979.424
25.0	1015.238	1029.716	1036.320	1019.048	1002.792
27.5	1037.082	1055.116	1064.768	1044.956	1024.128
30.0	1055.878	1077.722	1090.930	1068.070	1042.924
32.5	1070.356	1096.772	1113.790	1087.882	1058.164
35.0	1081.532	1112.266	1133.348	1104.646	1070.102
37.5	1089.152	1124.458	1149.350	1118.108	1079.500
40.0	1093.724	1133.348	1161.288	1128.268	1085.850
42.5	1096.264	1139.190	1169.670	1135.888	1090.422
45.0	1097.280	1142.492	1174.750	1141.222	1093.724
47.5	1097.788	1144.524	1178.052	1145.032	1096.264
50.0	1099.058	1146.048	1179.068	1148.080	1099.566
52.5	1100.582	1146.810	1178.560	1150.112	1102.868
55.0	1102.868	1148.080	1177.036	1152.144	1106.170
57.5	1106.932	1150.112	1175.258	1154.430	1111.504
60.0	1112.520	1153.668	1173.480	1158.494	1117.600
62.5	1120.140	1158.494	1172.464	1162.558	1125.220
65.0	1129.030	1164.590	1171.448	1167.384	1133.094
67.5	1138.174	1170.686	1169.924	1171.702	1140.714
70.0	1147.318	1176.020	1168.654	1175.258	1147.826
72.5	1153.160	1179.830	1166.114	1176.528	1151.636
75.0	1156.208	1181.100	1162.050	1175.004	1152.652
77.5	1155.700	1179.322	1155.192	1170.686	1150.112
80.0	1152.652	1175.004	1146.048	1163.320	1144.270
82.5	1145.286	1166.622	1133.856	1152.652	1135.126
85.0	1134.872	1154.938	1118.870	1139.190	1122.680
87.5	1122.680	1140.460	1102.614	1123.950	1108.456
90.0	1105.916	1122.934	1092.962	1121.918	1106.170
92.5	1104.392	1123.442	1105.408	1142.746	1127.252
95.0	1117.092	1136.904	1120.648	1157.732	1140.460
97.5	1127.252	1148.588	1135.380	1170.432	1151.890
100.0	1136.650	1159.002	1148.588	1180.592	1161.288
102.5	1144.270	1168.400	1160.526	1188.974	1168.654
105.0	1148.334	1173.734	1168.654	1193.546	1171.702
107.5	1148.080	1175.512	1173.988	1194.054	1170.432
110.0	1144.270	1174.242	1177.036	1191.514	1164.844
112.5	1138.174	1170.940	1178.306	1186.688	1156.970
115.0	1130.554	1166.368	1178.052	1180.338	1147.064
117.5	1122.426	1161.288	1178.052	1173.226	1136.904
120.0	1114.044	1155.700	1178.052	1166.368	1126.744
122.5	1106.678	1151.128	1178.306	1160.526	1117.600
125.0	1101.090	1147.826	1178.814	1155.700	1110.234
127.5	1096.772	1144.270	1178.306	1151.636	1104.392
130.0	1093.724	1141.222	1176.782	1148.588	1100.328
132.5	1092.200	1138.428	1174.750	1146.048	1098.296

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CANDELA TABULATION - (Cont.)

135.0	1090.168	1135.380	1170.940	1142.492	1096.010
137.5	1087.374	1130.300	1164.844	1137.412	1093.216
140.0	1083.310	1123.188	1155.954	1130.300	1088.898
142.5	1077.468	1113.790	1143.762	1120.648	1083.056
145.0	1068.832	1101.090	1128.014	1107.694	1074.420
147.5	1056.132	1084.834	1109.218	1090.930	1061.466
150.0	1039.876	1063.244	1085.850	1071.372	1044.956
152.5	1021.842	1039.114	1056.894	1048.258	1026.668
155.0	1002.030	1014.984	1026.668	1020.572	1005.586
157.5	978.408	991.108	1000.506	993.140	981.710
160.0	954.786	964.692	974.090	969.010	957.580
162.5	930.910	935.736	942.848	941.070	933.196
165.0	905.510	907.796	912.876	912.368	906.780
167.5	881.126	881.380	884.428	885.444	881.888
170.0	858.520	857.250	858.520	860.552	859.028
172.5	839.470	836.930	836.422	839.470	839.470
175.0	823.468	821.182	819.150	823.214	823.468
177.5	812.800	810.768	809.244	813.054	813.308
180.0	808.990	808.990	808.990	808.990	808.990

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	339.31	N.A.	2.40
0-30	813.83	N.A.	5.80
0-40	1508.07	N.A.	10.70
0-60	3417.25	N.A.	24.30
0-80	5800.81	N.A.	41.20
0-90	7038.83	N.A.	50.00
10-90	6959.41	N.A.	49.40
20-40	1168.76	N.A.	8.30
20-50	2049.81	N.A.	14.60
40-70	3059.26	N.A.	21.70
60-80	2383.56	N.A.	16.90
70-80	1233.48	N.A.	8.80
80-90	1238.02	N.A.	8.80
90-110	2477.75	N.A.	17.60
90-120	3634.78	N.A.	25.80
90-130	4664.22	N.A.	33.10
90-150	6234.18	N.A.	44.30
90-180	7045.4	N.A.	50.00
110-180	4567.65	N.A.	32.40
0-180	14084.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	79.42
10-20	259.89
20-30	474.52
30-40	694.24
40-50	881.05
50-60	1028.12
60-70	1150.09
70-80	1233.48
80-90	1238.02
90-100	1238.7
100-110	1239.05
110-120	1157.03
120-130	1029.44
130-140	878.63
140-150	691.33
150-160	471.83
160-170	259.75
170-180	79.64

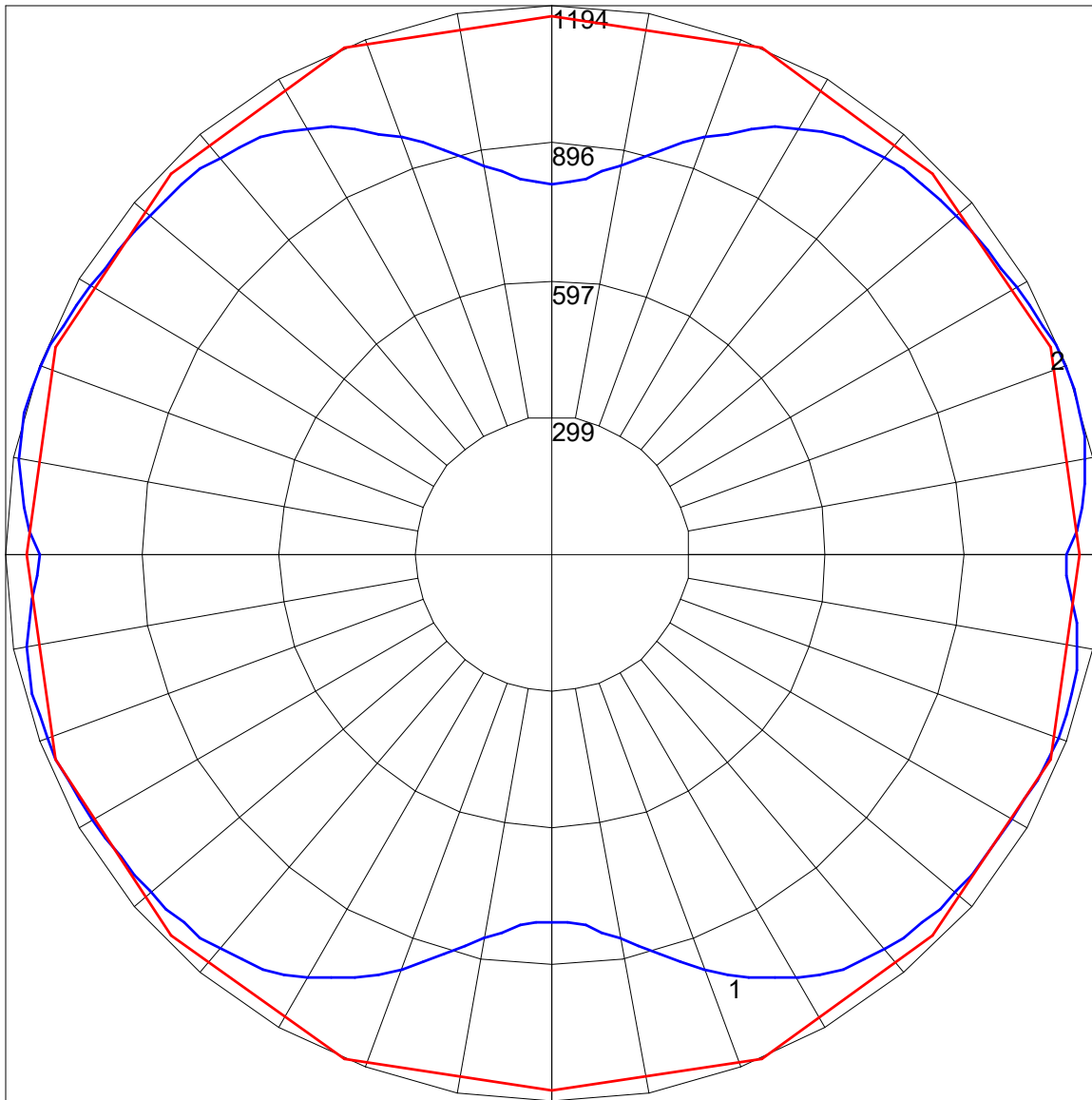
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1194.054 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.)