



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZES-PRO-33-LED4-SO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]31978
 [TESTLAB]
 [ISSUE DATE]
 [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	14971
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	114
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	3356	3508	3346
55	4056	4186	4068
65	5412	5353	5432
75	8320	7752	8294
85	17427	14646	17240

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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	856.17	856.17	856.17	856.17	856.17
2.5	861.57	862.38	855.36	855.36	860.76
5.0	874.53	874.80	867.51	866.43	871.83
7.5	892.89	892.62	886.95	884.25	888.84
10.0	915.30	915.84	911.79	907.20	909.90
12.5	940.68	942.84	939.87	933.39	933.39
15.0	967.95	972.54	970.92	962.55	959.85
17.5	996.84	1003.86	1003.59	993.06	987.66
20.0	1025.46	1034.91	1036.80	1023.57	1014.93
22.5	1053.27	1065.69	1069.74	1054.08	1041.12
25.0	1079.19	1094.58	1101.60	1083.24	1065.96
27.5	1102.41	1121.58	1131.84	1110.78	1088.64
30.0	1122.39	1145.61	1159.65	1135.35	1108.62
32.5	1137.78	1165.86	1183.95	1156.41	1124.82
35.0	1149.66	1182.33	1204.74	1174.23	1137.51
37.5	1157.76	1195.29	1221.75	1188.54	1147.50
40.0	1162.62	1204.74	1234.44	1199.34	1154.25
42.5	1165.32	1210.95	1243.35	1207.44	1159.11
45.0	1166.40	1214.46	1248.75	1213.11	1162.62
47.5	1166.94	1216.62	1252.26	1217.16	1165.32
50.0	1168.29	1218.24	1253.34	1220.40	1168.83
52.5	1169.91	1219.05	1252.80	1222.56	1172.34
55.0	1172.34	1220.40	1251.18	1224.72	1175.85
57.5	1176.66	1222.56	1249.29	1227.15	1181.52
60.0	1182.60	1226.34	1247.40	1231.47	1188.00
62.5	1190.70	1231.47	1246.32	1235.79	1196.10
65.0	1200.15	1237.95	1245.24	1240.92	1204.47
67.5	1209.87	1244.43	1243.62	1245.51	1212.57
70.0	1219.59	1250.10	1242.27	1249.29	1220.13
72.5	1225.80	1254.15	1239.57	1250.64	1224.18
75.0	1229.04	1255.50	1235.25	1249.02	1225.26
77.5	1228.50	1253.61	1227.96	1244.43	1222.56
80.0	1225.26	1249.02	1218.24	1236.60	1216.35
82.5	1217.43	1240.11	1205.28	1225.26	1206.63
85.0	1206.36	1227.69	1189.35	1210.95	1193.40
87.5	1193.40	1212.30	1172.07	1194.75	1178.28
90.0	1175.58	1193.67	1161.81	1192.59	1175.85
92.5	1173.96	1194.21	1175.04	1214.73	1198.26
95.0	1187.46	1208.52	1191.24	1230.66	1212.30
97.5	1198.26	1220.94	1206.90	1244.16	1224.45
100.0	1208.25	1232.01	1220.94	1254.96	1234.44
102.5	1216.35	1242.00	1233.63	1263.87	1242.27
105.0	1220.67	1247.67	1242.27	1268.73	1245.51
107.5	1220.40	1249.56	1247.94	1269.27	1244.16
110.0	1216.35	1248.21	1251.18	1266.57	1238.22
112.5	1209.87	1244.70	1252.53	1261.44	1229.85
115.0	1201.77	1239.84	1252.26	1254.69	1219.32
117.5	1193.13	1234.44	1252.26	1247.13	1208.52
120.0	1184.22	1228.50	1252.26	1239.84	1197.72
122.5	1176.39	1223.64	1252.53	1233.63	1188.00
125.0	1170.45	1220.13	1253.07	1228.50	1180.17
127.5	1165.86	1216.35	1252.53	1224.18	1173.96
130.0	1162.62	1213.11	1250.91	1220.94	1169.64
132.5	1161.00	1210.14	1248.75	1218.24	1167.48

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CANDELA TABULATION - (Cont.)

135.0	1158.84	1206.90	1244.70	1214.46	1165.05
137.5	1155.87	1201.50	1238.22	1209.06	1162.08
140.0	1151.55	1193.94	1228.77	1201.50	1157.49
142.5	1145.34	1183.95	1215.81	1191.24	1151.28
145.0	1136.16	1170.45	1199.07	1177.47	1142.10
147.5	1122.66	1153.17	1179.09	1159.65	1128.33
150.0	1105.38	1130.22	1154.25	1138.86	1110.78
152.5	1086.21	1104.57	1123.47	1114.29	1091.34
155.0	1065.15	1078.92	1091.34	1084.86	1068.93
157.5	1040.04	1053.54	1063.53	1055.70	1043.55
160.0	1014.93	1025.46	1035.45	1030.05	1017.90
162.5	989.55	994.68	1002.24	1000.35	991.98
165.0	962.55	964.98	970.38	969.84	963.90
167.5	936.63	936.90	940.14	941.22	937.44
170.0	912.60	911.25	912.60	914.76	913.14
172.5	892.35	889.65	889.11	892.35	892.35
175.0	875.34	872.91	870.75	875.07	875.34
177.5	864.00	861.84	860.22	864.27	864.54
180.0	859.95	859.95	859.95	859.95	859.95

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	360.69	N.A.	2.40
0-30	865.09	N.A.	5.80
0-40	1603.07	N.A.	10.70
0-60	3632.51	N.A.	24.30
0-80	6166.22	N.A.	41.20
0-90	7482.22	N.A.	50.00
10-90	7397.8	N.A.	49.40
20-40	1242.38	N.A.	8.30
20-50	2178.93	N.A.	14.60
40-70	3251.97	N.A.	21.70
60-80	2533.71	N.A.	16.90
70-80	1311.18	N.A.	8.80
80-90	1316.01	N.A.	8.80
90-110	2633.83	N.A.	17.60
90-120	3863.74	N.A.	25.80
90-130	4958.03	N.A.	33.10
90-150	6626.89	N.A.	44.30
90-180	7489.2	N.A.	50.00
110-180	4855.38	N.A.	32.40
0-180	14971.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	84.42
10-20	276.26
20-30	504.41
30-40	737.98
40-50	936.55
50-60	1092.89
60-70	1222.53
70-80	1311.18
80-90	1316.01
90-100	1316.73
100-110	1317.1
110-120	1229.92
120-130	1094.29
130-140	933.98
140-150	734.88
150-160	501.55
160-170	276.11
170-180	84.65

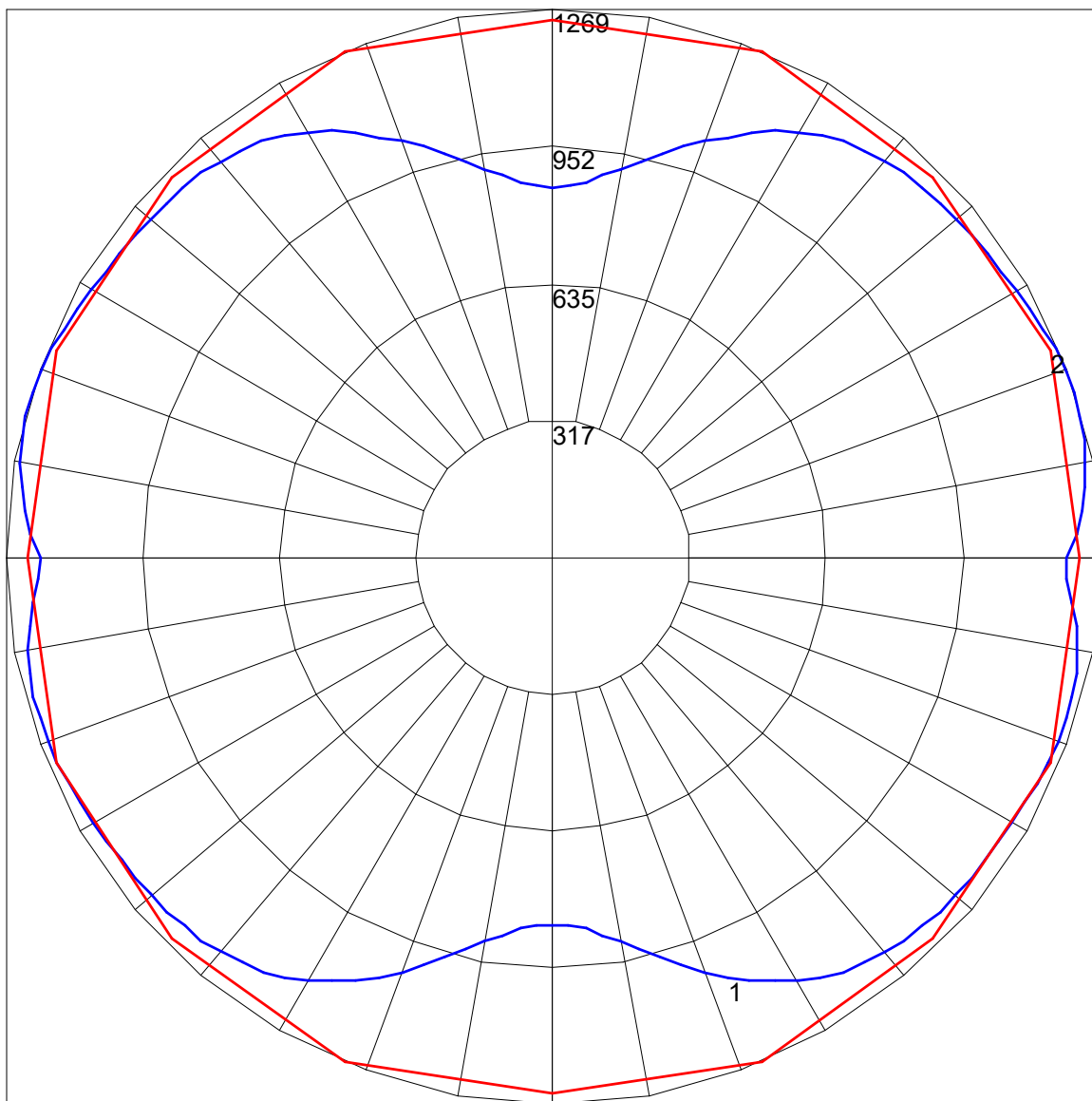
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1269.27 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.)