



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZES-PRO-44-LED4-LO-SAL.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	8373
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	61
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	1877	1962	1871
55	2268	2341	2275
65	3027	2993	3038
75	4653	4335	4639
85	9746	8191	9641

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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	478.821	478.821	478.821	478.821	478.821
2.5	481.841	482.294	478.368	478.368	481.388
5.0	489.089	489.240	485.163	484.559	487.579
7.5	499.357	499.206	496.035	494.525	497.092
10.0	511.890	512.192	509.927	507.360	508.870
12.5	526.084	527.292	525.631	522.007	522.007
15.0	541.335	543.902	542.996	538.315	536.805
17.5	557.492	561.418	561.267	555.378	552.358
20.0	573.498	578.783	579.840	572.441	567.609
22.5	589.051	595.997	598.262	589.504	582.256
25.0	603.547	612.154	616.080	605.812	596.148
27.5	616.533	627.254	632.992	621.214	608.832
30.0	627.707	640.693	648.545	634.955	620.006
32.5	636.314	652.018	662.135	646.733	629.066
35.0	642.958	661.229	673.762	656.699	636.163
37.5	647.488	668.477	683.275	664.702	641.750
40.0	650.206	673.762	690.372	670.742	645.525
42.5	651.716	677.235	695.355	675.272	648.243
45.0	652.320	679.198	698.375	678.443	650.206
47.5	652.622	680.406	700.338	680.708	651.716
50.0	653.377	681.312	700.942	682.520	653.679
52.5	654.283	681.765	700.640	683.728	655.642
55.0	655.642	682.520	699.734	684.936	657.605
57.5	658.058	683.728	698.677	686.295	660.776
60.0	661.380	685.842	697.620	688.711	664.400
62.5	665.910	688.711	697.016	691.127	668.930
65.0	671.195	692.335	696.412	693.996	673.611
67.5	676.631	695.959	695.506	696.563	678.141
70.0	682.067	699.130	694.751	698.677	682.369
72.5	685.540	701.395	693.241	699.432	684.634
75.0	687.352	702.150	690.825	698.526	685.238
77.5	687.050	701.093	686.748	695.959	683.728
80.0	685.238	698.526	681.312	691.580	680.255
82.5	680.859	693.543	674.064	685.238	674.819
85.0	674.668	686.597	665.155	677.235	667.420
87.5	667.420	677.990	655.491	668.175	658.964
90.0	657.454	667.571	649.753	666.967	657.605
92.5	656.548	667.873	657.152	679.349	670.138
95.0	664.098	675.876	666.212	688.258	677.990
97.5	670.138	682.822	674.970	695.808	684.785
100.0	675.725	689.013	682.822	701.848	690.372
102.5	680.255	694.600	689.919	706.831	694.751
105.0	682.671	697.771	694.751	709.549	696.563
107.5	682.520	698.828	697.922	709.851	695.808
110.0	680.255	698.073	699.734	708.341	692.486
112.5	676.631	696.110	700.489	705.472	687.805
115.0	672.101	693.392	700.338	701.697	681.916
117.5	667.269	690.372	700.338	697.469	675.876
120.0	662.286	687.050	700.338	693.392	669.836
122.5	657.907	684.332	700.489	689.919	664.400
125.0	654.585	682.369	700.791	687.050	660.021
127.5	652.018	680.255	700.489	684.634	656.548
130.0	650.206	678.443	699.583	682.822	654.132
132.5	649.300	676.782	698.375	681.312	652.924

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CANDELA TABULATION - (Cont.)

135.0	648.092	674.970	696.110	679.198	651.565
137.5	646.431	671.950	692.486	676.178	649.904
140.0	644.015	667.722	687.201	671.950	647.337
142.5	640.542	662.135	679.953	666.212	643.864
145.0	635.408	654.585	670.591	658.511	638.730
147.5	627.858	644.921	659.417	648.545	631.029
150.0	618.194	632.086	645.525	636.918	621.214
152.5	607.473	617.741	628.311	623.177	610.342
155.0	595.695	603.396	610.342	606.718	597.809
157.5	581.652	589.202	594.789	590.410	583.615
160.0	567.609	573.498	579.085	576.065	569.270
162.5	553.415	556.284	560.512	559.455	554.774
165.0	538.315	539.674	542.694	542.392	539.070
167.5	523.819	523.970	525.782	526.386	524.272
170.0	510.380	509.625	510.380	511.588	510.682
172.5	499.055	497.545	497.243	499.055	499.055
175.0	489.542	488.183	486.975	489.391	489.542
177.5	483.200	481.992	481.086	483.351	483.502
180.0	480.935	480.935	480.935	480.935	480.935

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	201.72	N.A.	2.40
0-30	483.81	N.A.	5.80
0-40	896.53	N.A.	10.70
0-60	2031.51	N.A.	24.30
0-80	3448.51	N.A.	41.20
0-90	4184.5	N.A.	50.00
10-90	4137.29	N.A.	49.40
20-40	694.81	N.A.	8.30
20-50	1218.59	N.A.	14.60
40-70	1818.69	N.A.	21.70
60-80	1417.00	N.A.	16.90
70-80	733.29	N.A.	8.80
80-90	735.99	N.A.	8.80
90-110	1472.99	N.A.	17.60
90-120	2160.83	N.A.	25.80
90-130	2772.83	N.A.	33.10
90-150	3706.15	N.A.	44.30
90-180	4188.41	N.A.	50.00
110-180	2715.41	N.A.	32.40
0-180	8372.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.21
10-20	154.50
20-30	282.10
30-40	412.72
40-50	523.77
50-60	611.21
60-70	683.71
70-80	733.29
80-90	735.99
90-100	736.39
100-110	736.60
110-120	687.84
120-130	611.99
130-140	522.33
140-150	410.99
150-160	280.50
160-170	154.42
170-180	47.34

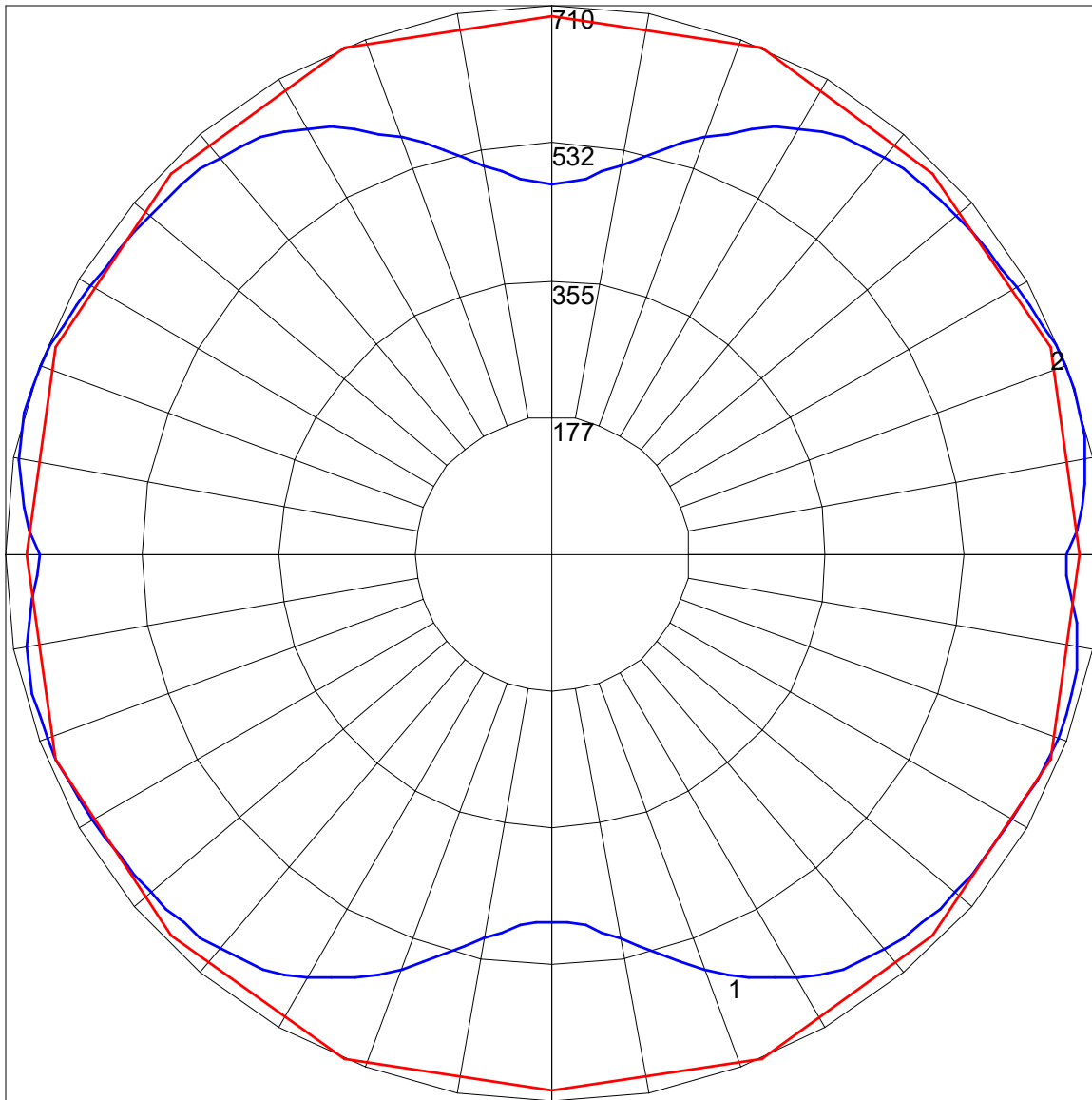
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 709.851 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.)