



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZES-22-LED4-LO.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	3826
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	34
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	858	896	855
55	1037	1070	1040
65	1383	1368	1388
75	2126	1981	2120
85	4454	3743	4406

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	218.799	218.799	218.799	218.799	218.799
2.5	220.179	220.386	218.592	218.592	219.972
5.0	223.491	223.560	221.697	221.421	222.801
7.5	228.183	228.114	226.665	225.975	227.148
10.0	233.910	234.048	233.013	231.840	232.530
12.5	240.396	240.948	240.189	238.533	238.533
15.0	247.365	248.538	248.124	245.985	245.295
17.5	254.748	256.542	256.473	253.782	252.402
20.0	262.062	264.477	264.960	261.579	259.371
22.5	269.169	272.343	273.378	269.376	266.064
25.0	275.793	279.726	281.520	276.828	272.412
27.5	281.727	286.626	289.248	283.866	278.208
30.0	286.833	292.767	296.355	290.145	283.314
32.5	290.766	297.942	302.565	295.527	287.454
35.0	293.802	302.151	307.878	300.081	290.697
37.5	295.872	305.463	312.225	303.738	293.250
40.0	297.114	307.878	315.468	306.498	294.975
42.5	297.804	309.465	317.745	308.568	296.217
45.0	298.080	310.362	319.125	310.017	297.114
47.5	298.218	310.914	320.022	311.052	297.804
50.0	298.563	311.328	320.298	311.880	298.701
52.5	298.977	311.535	320.160	312.432	299.598
55.0	299.598	311.880	319.746	312.984	300.495
57.5	300.702	312.432	319.263	313.605	301.944
60.0	302.220	313.398	318.780	314.709	303.600
62.5	304.290	314.709	318.504	315.813	305.670
65.0	306.705	316.365	318.228	317.124	307.809
67.5	309.189	318.021	317.814	318.297	309.879
70.0	311.673	319.470	317.469	319.263	311.811
72.5	313.260	320.505	316.779	319.608	312.846
75.0	314.088	320.850	315.675	319.194	313.122
77.5	313.950	320.367	313.812	318.021	312.432
80.0	313.122	319.194	311.328	316.020	310.845
82.5	311.121	316.917	308.016	313.122	308.361
85.0	308.292	313.743	303.945	309.465	304.980
87.5	304.980	309.810	299.529	305.325	301.116
90.0	300.426	305.049	296.907	304.773	300.495
92.5	300.012	305.187	300.288	310.431	306.222
95.0	303.462	308.844	304.428	314.502	309.810
97.5	306.222	312.018	308.430	317.952	312.915
100.0	308.775	314.847	312.018	320.712	315.468
102.5	310.845	317.400	315.261	322.989	317.469
105.0	311.949	318.849	317.469	324.231	318.297
107.5	311.880	319.332	318.918	324.369	317.952
110.0	310.845	318.987	319.746	323.679	316.434
112.5	309.189	318.090	320.091	322.368	314.295
115.0	307.119	316.848	320.022	320.643	311.604
117.5	304.911	315.468	320.022	318.711	308.844
120.0	302.634	313.950	320.022	316.848	306.084
122.5	300.633	312.708	320.091	315.261	303.600
125.0	299.115	311.811	320.229	313.950	301.599
127.5	297.942	310.845	320.091	312.846	300.012
130.0	297.114	310.017	319.677	312.018	298.908
132.5	296.700	309.258	319.125	311.328	298.356

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CANDELA TABULATION - (Cont.)

135.0	296.148	308.430	318.090	310.362	297.735
137.5	295.389	307.050	316.434	308.982	296.976
140.0	294.285	305.118	314.019	307.050	295.803
142.5	292.698	302.565	310.707	304.428	294.216
145.0	290.352	299.115	306.429	300.909	291.870
147.5	286.902	294.699	301.323	296.355	288.351
150.0	282.486	288.834	294.975	291.042	283.866
152.5	277.587	282.279	287.109	284.763	278.898
155.0	272.205	275.724	278.898	277.242	273.171
157.5	265.788	269.238	271.791	269.790	266.685
160.0	259.371	262.062	264.615	263.235	260.130
162.5	252.885	254.196	256.128	255.645	253.506
165.0	245.985	246.606	247.986	247.848	246.330
167.5	239.361	239.430	240.258	240.534	239.568
170.0	233.220	232.875	233.220	233.772	233.358
172.5	228.045	227.355	227.217	228.045	228.045
175.0	223.698	223.077	222.525	223.629	223.698
177.5	220.800	220.248	219.834	220.869	220.938
180.0	219.765	219.765	219.765	219.765	219.765

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	92.18	N.A.	2.40
0-30	221.08	N.A.	5.80
0-40	409.67	N.A.	10.70
0-60	928.31	N.A.	24.30
0-80	1575.81	N.A.	41.20
0-90	1912.12	N.A.	50.00
10-90	1890.55	N.A.	49.40
20-40	317.50	N.A.	8.30
20-50	556.84	N.A.	14.60
40-70	831.06	N.A.	21.70
60-80	647.50	N.A.	16.90
70-80	335.08	N.A.	8.80
80-90	336.31	N.A.	8.80
90-110	673.09	N.A.	17.60
90-120	987.40	N.A.	25.80
90-130	1267.05	N.A.	33.10
90-150	1693.54	N.A.	44.30
90-180	1913.91	N.A.	50.00
110-180	1240.82	N.A.	32.40
0-180	3826.03	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	21.57
10-20	70.60
20-30	128.90
30-40	188.59
40-50	239.34
50-60	279.29
60-70	312.43
70-80	335.08
80-90	336.31
90-100	336.50
100-110	336.59
110-120	314.31
120-130	279.65
130-140	238.68
140-150	187.80
150-160	128.17
160-170	70.56
170-180	21.63

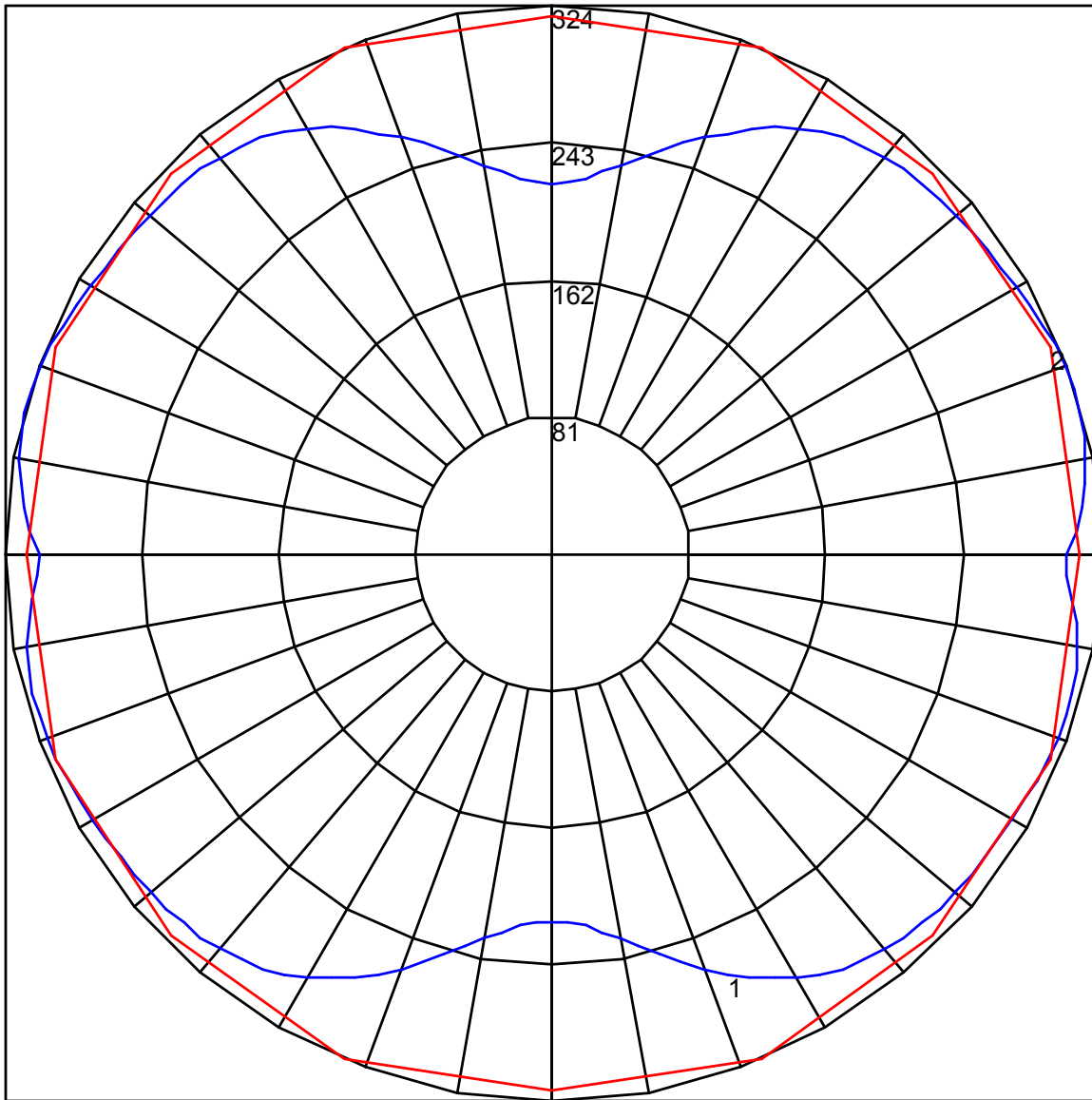
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 324.369 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.)