



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]31978

[TESTLAB]

[ISSUE DATE]

[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	10425
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	78
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	2337	2442	2329
55	2824	2915	2833
65	3769	3727	3782
75	5793	5398	5775
85	12134	10198	12004

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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	596.148	596.148	596.148	596.148	596.148
2.5	599.908	600.472	595.584	595.584	599.344
5.0	608.932	609.120	604.044	603.292	607.052
7.5	621.716	621.528	617.580	615.700	618.896
10.0	637.320	637.696	634.876	631.680	633.560
12.5	654.992	656.496	654.428	649.916	649.916
15.0	673.980	677.176	676.048	670.220	668.340
17.5	694.096	698.984	698.796	691.464	687.704
20.0	714.024	720.604	721.920	712.708	706.692
22.5	733.388	742.036	744.856	733.952	724.928
25.0	751.436	762.152	767.040	754.256	742.224
27.5	767.604	780.952	788.096	773.432	758.016
30.0	781.516	797.684	807.460	790.540	771.928
32.5	792.232	811.784	824.380	805.204	783.208
35.0	800.504	823.252	838.856	817.612	792.044
37.5	806.144	832.276	850.700	827.576	799.000
40.0	809.528	838.856	859.536	835.096	803.700
42.5	811.408	843.180	865.740	840.736	807.084
45.0	812.160	845.624	869.500	844.684	809.528
47.5	812.536	847.128	871.944	847.504	811.408
50.0	813.476	848.256	872.696	849.760	813.852
52.5	814.604	848.820	872.320	851.264	816.296
55.0	816.296	849.760	871.192	852.768	818.740
57.5	819.304	851.264	869.876	854.460	822.688
60.0	823.440	853.896	868.560	857.468	827.200
62.5	829.080	857.468	867.808	860.476	832.840
65.0	835.660	861.980	867.056	864.048	838.668
67.5	842.428	866.492	865.928	867.244	844.308
70.0	849.196	870.440	864.988	869.876	849.572
72.5	853.520	873.260	863.108	870.816	852.392
75.0	855.776	874.200	860.100	869.688	853.144
77.5	855.400	872.884	855.024	866.492	851.264
80.0	853.144	869.688	848.256	861.040	846.940
82.5	847.692	863.484	839.232	853.144	840.172
85.0	839.984	854.836	828.140	843.180	830.960
87.5	830.960	844.120	816.108	831.900	820.432
90.0	818.552	831.148	808.964	830.396	818.740
92.5	817.424	831.524	818.176	845.812	834.344
95.0	826.824	841.488	829.456	856.904	844.120
97.5	834.344	850.136	840.360	866.304	852.580
100.0	841.300	857.844	850.136	873.824	859.536
102.5	846.940	864.800	858.972	880.028	864.988
105.0	849.948	868.748	864.988	883.412	867.244
107.5	849.760	870.064	868.936	883.788	866.304
110.0	846.940	869.124	871.192	881.908	862.168
112.5	842.428	866.680	872.132	878.336	856.340
115.0	836.788	863.296	871.944	873.636	849.008
117.5	830.772	859.536	871.944	868.372	841.488
120.0	824.568	855.400	871.944	863.296	833.968
122.5	819.116	852.016	872.132	858.972	827.200
125.0	814.980	849.572	872.508	855.400	821.748
127.5	811.784	846.940	872.132	852.392	817.424
130.0	809.528	844.684	871.004	850.136	814.416
132.5	808.400	842.616	869.500	848.256	812.912

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CANDELA TABULATION - (Cont.)

135.0	806.896	840.360	866.680	845.624	811.220
137.5	804.828	836.600	862.168	841.864	809.152
140.0	801.820	831.336	855.588	836.600	805.956
142.5	797.496	824.380	846.564	829.456	801.632
145.0	791.104	814.980	834.908	819.868	795.240
147.5	781.704	802.948	820.996	807.460	785.652
150.0	769.672	786.968	803.700	792.984	773.432
152.5	756.324	769.108	782.268	775.876	759.896
155.0	741.660	751.248	759.896	755.384	744.292
157.5	724.176	733.576	740.532	735.080	726.620
160.0	706.692	714.024	720.980	717.220	708.760
162.5	689.020	692.592	697.856	696.540	690.712
165.0	670.220	671.912	675.672	675.296	671.160
167.5	652.172	652.360	654.616	655.368	652.736
170.0	635.440	634.500	635.440	636.944	635.816
172.5	621.340	619.460	619.084	621.340	621.340
175.0	609.496	607.804	606.300	609.308	609.496
177.5	601.600	600.096	598.968	601.788	601.976
180.0	598.780	598.780	598.780	598.780	598.780

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	251.14	N.A.	2.40
0-30	602.36	N.A.	5.80
0-40	1116.21	N.A.	10.70
0-60	2529.3	N.A.	24.30
0-80	4293.51	N.A.	41.20
0-90	5209.84	N.A.	50.00
10-90	5151.06	N.A.	49.40
20-40	865.07	N.A.	8.30
20-50	1517.18	N.A.	14.60
40-70	2264.34	N.A.	21.70
60-80	1764.21	N.A.	16.90
70-80	912.97	N.A.	8.80
80-90	916.33	N.A.	8.80
90-110	1833.92	N.A.	17.60
90-120	2690.31	N.A.	25.80
90-130	3452.26	N.A.	33.10
90-150	4614.28	N.A.	44.30
90-180	5214.7	N.A.	50.00
110-180	3380.78	N.A.	32.40
0-180	10424.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.78
10-20	192.36
20-30	351.22
30-40	513.85
40-50	652.11
50-60	760.97
60-70	851.25
70-80	912.97
80-90	916.33
90-100	916.83
100-110	917.09
110-120	856.39
120-130	761.95
130-140	650.32
140-150	511.69
150-160	349.23
160-170	192.25
170-180	58.94

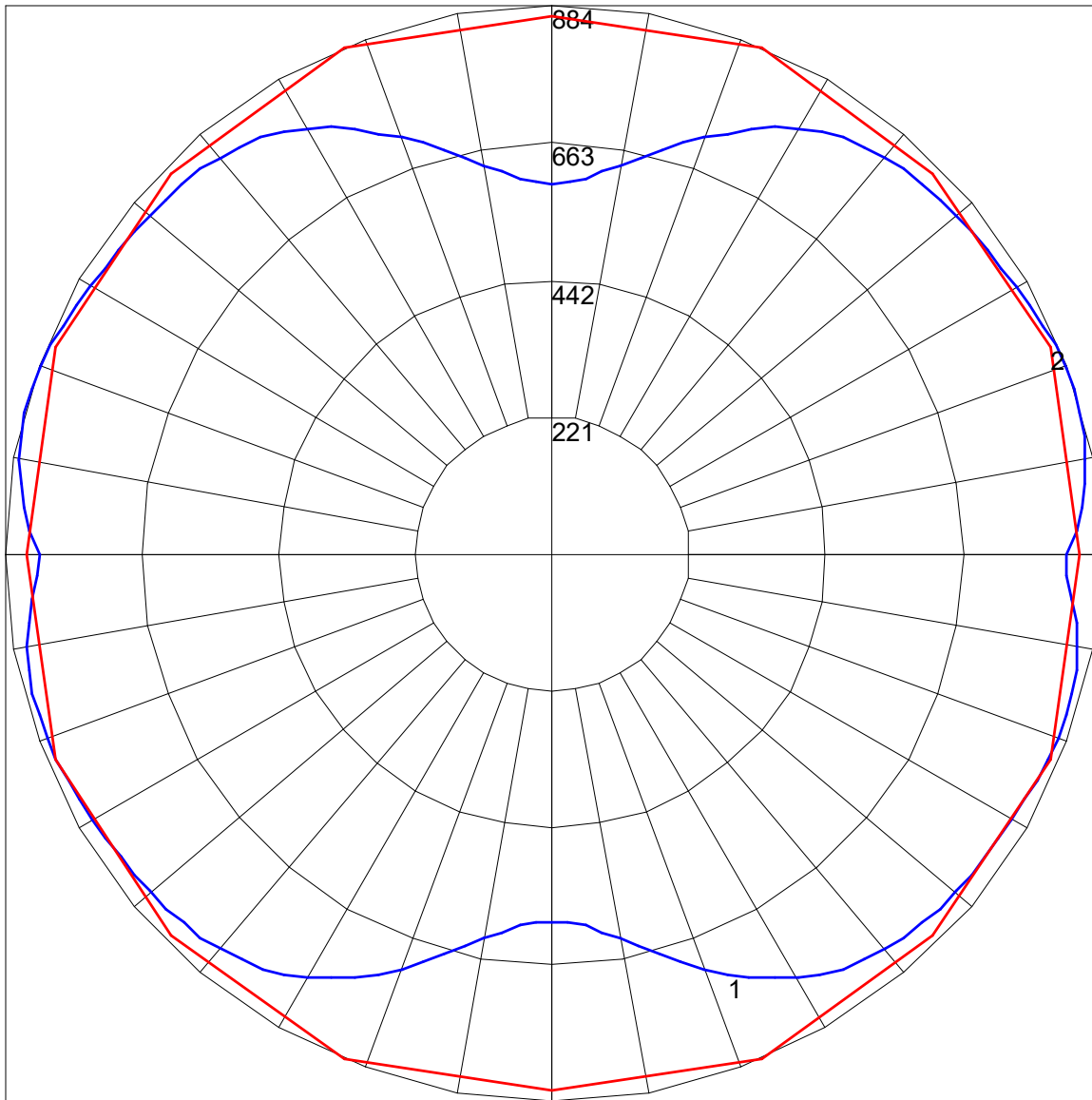
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 883.788 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.)