



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZES-33-LED4-SO.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	10591
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	108
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	2374	2481	2367
55	2869	2961	2878
65	3829	3786	3843
75	5885	5484	5867
85	12328	10361	12195

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	605.661	605.661	605.661	605.661	605.661
2.5	609.481	610.054	605.088	605.088	608.908
5.0	618.649	618.840	613.683	612.919	616.739
7.5	631.637	631.446	627.435	625.525	628.772
10.0	647.490	647.872	645.007	641.760	643.670
12.5	665.444	666.972	664.871	660.287	660.287
15.0	684.735	687.982	686.836	680.915	679.005
17.5	705.172	710.138	709.947	702.498	698.678
20.0	725.418	732.103	733.440	724.081	717.969
22.5	745.091	753.877	756.742	745.664	736.496
25.0	763.427	774.314	779.280	766.292	754.068
27.5	779.853	793.414	800.672	785.774	770.112
30.0	793.987	810.413	820.345	803.155	784.246
32.5	804.874	824.738	837.535	818.053	795.706
35.0	813.278	836.389	852.242	830.659	804.683
37.5	819.008	845.557	864.275	840.782	811.750
40.0	822.446	852.242	873.252	848.422	816.525
42.5	824.356	856.635	879.555	854.152	819.963
45.0	825.120	859.118	883.375	858.163	822.446
47.5	825.502	860.646	885.858	861.028	824.356
50.0	826.457	861.792	886.622	863.320	826.839
52.5	827.603	862.365	886.240	864.848	829.322
55.0	829.322	863.320	885.094	866.376	831.805
57.5	832.378	864.848	883.757	868.095	835.816
60.0	836.580	867.522	882.420	871.151	840.400
62.5	842.310	871.151	881.656	874.207	846.130
65.0	848.995	875.735	880.892	877.836	852.051
67.5	855.871	880.319	879.746	881.083	857.781
70.0	862.747	884.330	878.791	883.757	863.129
72.5	867.140	887.195	876.881	884.712	865.994
75.0	869.432	888.150	873.825	883.566	866.758
77.5	869.050	886.813	868.668	880.319	864.848
80.0	866.758	883.566	861.792	874.780	860.455
82.5	861.219	877.263	852.624	866.758	853.579
85.0	853.388	868.477	841.355	856.635	844.220
87.5	844.220	857.590	829.131	845.175	833.524
90.0	831.614	844.411	821.873	843.647	831.805
92.5	830.468	844.793	831.232	859.309	847.658
95.0	840.018	854.916	842.692	870.578	857.590
97.5	847.658	863.702	853.770	880.128	866.185
100.0	854.725	871.533	863.702	887.768	873.252
102.5	860.455	878.600	872.679	894.071	878.791
105.0	863.511	882.611	878.791	897.509	881.083
107.5	863.320	883.948	882.802	897.891	880.128
110.0	860.455	882.993	885.094	895.981	875.926
112.5	855.871	880.510	886.049	892.352	870.005
115.0	850.141	877.072	885.858	887.577	862.556
117.5	844.029	873.252	885.858	882.229	854.916
120.0	837.726	869.050	885.858	877.072	847.276
122.5	832.187	865.612	886.049	872.679	840.400
125.0	827.985	863.129	886.431	869.050	834.861
127.5	824.738	860.455	886.049	865.994	830.468
130.0	822.446	858.163	884.903	863.702	827.412
132.5	821.300	856.062	883.375	861.792	825.884

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CANDELA TABULATION - (Cont.)

135.0	819.772	853.770	880.510	859.118	824.165
137.5	817.671	849.950	875.926	855.298	822.064
140.0	814.615	844.602	869.241	849.950	818.817
142.5	810.222	837.535	860.073	842.692	814.424
145.0	803.728	827.985	848.231	832.951	807.930
147.5	794.178	815.761	834.097	820.345	798.189
150.0	781.954	799.526	816.525	805.638	785.774
152.5	768.393	781.381	794.751	788.257	772.022
155.0	753.495	763.236	772.022	767.438	756.169
157.5	735.732	745.282	752.349	746.810	738.215
160.0	717.969	725.418	732.485	728.665	720.070
162.5	700.015	703.644	708.992	707.655	701.734
165.0	680.915	682.634	686.454	686.072	681.870
167.5	662.579	662.770	665.062	665.826	663.152
170.0	645.580	644.625	645.580	647.108	645.962
172.5	631.255	629.345	628.963	631.255	631.255
175.0	619.222	617.503	615.975	619.031	619.222
177.5	611.200	609.672	608.526	611.391	611.582
180.0	608.335	608.335	608.335	608.335	608.335

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	255.15	N.A.	2.40
0-30	611.97	N.A.	5.80
0-40	1134.02	N.A.	10.70
0-60	2569.66	N.A.	24.30
0-80	4362.03	N.A.	41.20
0-90	5292.98	N.A.	50.00
10-90	5233.26	N.A.	49.40
20-40	878.87	N.A.	8.30
20-50	1541.39	N.A.	14.60
40-70	2300.47	N.A.	21.70
60-80	1792.37	N.A.	16.90
70-80	927.54	N.A.	8.80
80-90	930.95	N.A.	8.80
90-110	1863.19	N.A.	17.60
90-120	2733.24	N.A.	25.80
90-130	3507.35	N.A.	33.10
90-150	4687.91	N.A.	44.30
90-180	5297.92	N.A.	50.00
110-180	3434.73	N.A.	32.40
0-180	10590.9	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	59.72
10-20	195.43
20-30	356.82
30-40	522.05
40-50	662.52
50-60	773.12
60-70	864.83
70-80	927.54
80-90	930.95
90-100	931.46
100-110	931.73
110-120	870.05
120-130	774.11
130-140	660.70
140-150	519.86
150-160	354.80
160-170	195.32
170-180	59.88

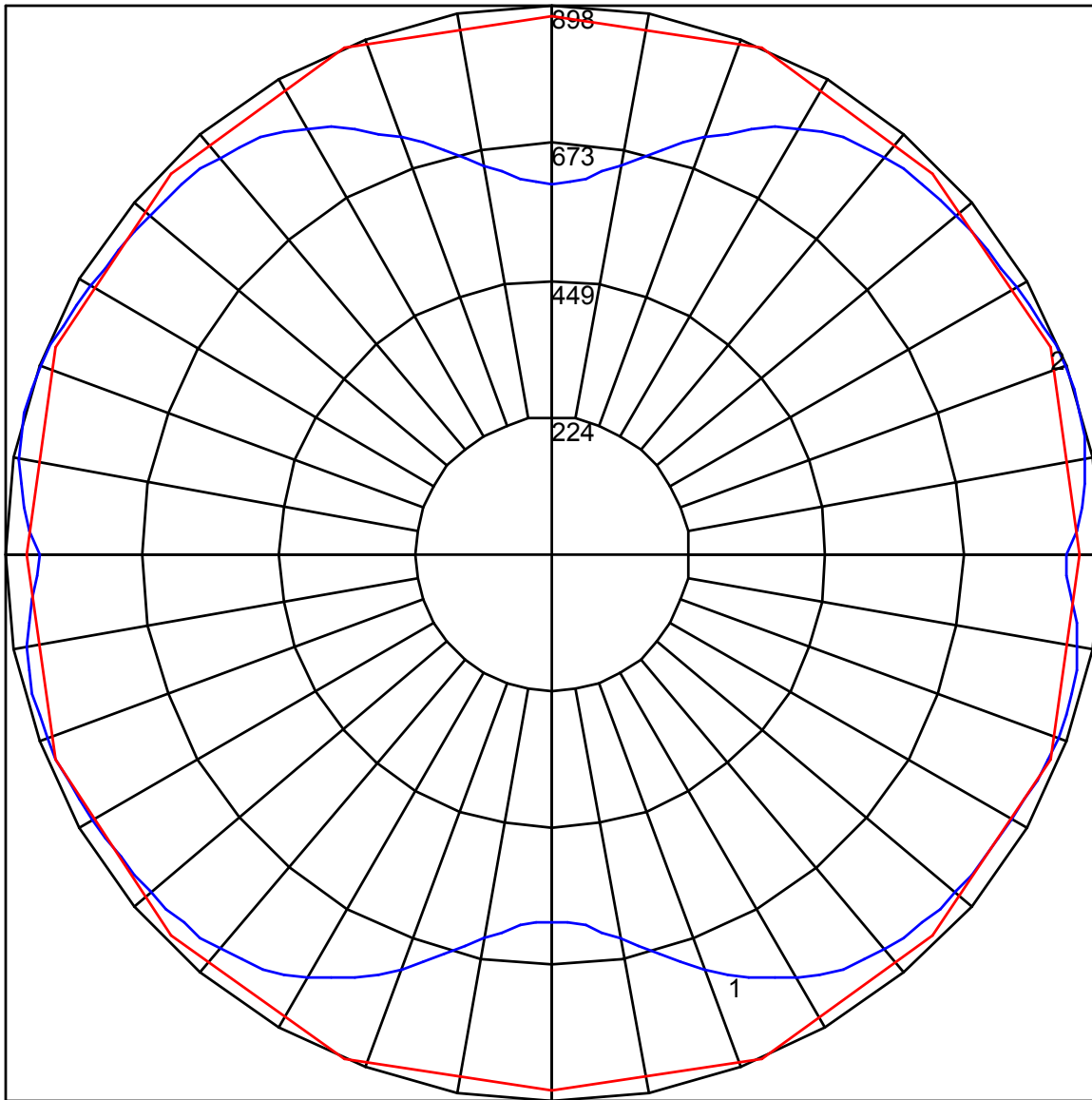
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 897.891 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.)