



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZES-PRO-22-LED4-LO.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	4270
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	31
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	957	1000	954
55	1157	1194	1160
65	1544	1526	1549
75	2373	2211	2365
85	4970	4177	4916

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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	244.167	244.167	244.167	244.167	244.167
2.5	245.707	245.938	243.936	243.936	245.476
5.0	249.403	249.480	247.401	247.093	248.633
7.5	254.639	254.562	252.945	252.175	253.484
10.0	261.030	261.184	260.029	258.720	259.490
12.5	268.268	268.884	268.037	266.189	266.189
15.0	276.045	277.354	276.892	274.505	273.735
17.5	284.284	286.286	286.209	283.206	281.666
20.0	292.446	295.141	295.680	291.907	289.443
22.5	300.377	303.919	305.074	300.608	296.912
25.0	307.769	312.158	314.160	308.924	303.996
27.5	314.391	319.858	322.784	316.778	310.464
30.0	320.089	326.711	330.715	323.785	316.162
32.5	324.478	332.486	337.645	329.791	320.782
35.0	327.866	337.183	343.574	334.873	324.401
37.5	330.176	340.879	348.425	338.954	327.250
40.0	331.562	343.574	352.044	342.034	329.175
42.5	332.332	345.345	354.585	344.344	330.561
45.0	332.640	346.346	356.125	345.961	331.562
47.5	332.794	346.962	357.126	347.116	332.332
50.0	333.179	347.424	357.434	348.040	333.333
52.5	333.641	347.655	357.280	348.656	334.334
55.0	334.334	348.040	356.818	349.272	335.335
57.5	335.566	348.656	356.279	349.965	336.952
60.0	337.260	349.734	355.740	351.197	338.800
62.5	339.570	351.197	355.432	352.429	341.110
65.0	342.265	353.045	355.124	353.892	343.497
67.5	345.037	354.893	354.662	355.201	345.807
70.0	347.809	356.510	354.277	356.279	347.963
72.5	349.580	357.665	353.507	356.664	349.118
75.0	350.504	358.050	352.275	356.202	349.426
77.5	350.350	357.511	350.196	354.893	348.656
80.0	349.426	356.202	347.424	352.660	346.885
82.5	347.193	353.661	343.728	349.426	344.113
85.0	344.036	350.119	339.185	345.345	340.340
87.5	340.340	345.730	334.257	340.725	336.028
90.0	335.258	340.417	331.331	340.109	335.335
92.5	334.796	340.571	335.104	346.423	341.726
95.0	338.646	344.652	339.724	350.966	345.730
97.5	341.726	348.194	344.190	354.816	349.195
100.0	344.575	351.351	348.194	357.896	352.044
102.5	346.885	354.200	351.813	360.437	354.277
105.0	348.117	355.817	354.277	361.823	355.201
107.5	348.040	356.356	355.894	361.977	354.816
110.0	346.885	355.971	356.818	361.207	353.122
112.5	345.037	354.970	357.203	359.744	350.735
115.0	342.727	353.584	357.126	357.819	347.732
117.5	340.263	352.044	357.126	355.663	344.652
120.0	337.722	350.350	357.126	353.584	341.572
122.5	335.489	348.964	357.203	351.813	338.800
125.0	333.795	347.963	357.357	350.350	336.567
127.5	332.486	346.885	357.203	349.118	334.796
130.0	331.562	345.961	356.741	348.194	333.564
132.5	331.100	345.114	356.125	347.424	332.948

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CANDELA TABULATION - (Cont.)

135.0	330.484	344.190	354.970	346.346	332.255
137.5	329.637	342.650	353.122	344.806	331.408
140.0	328.405	340.494	350.427	342.650	330.099
142.5	326.634	337.645	346.731	339.724	328.328
145.0	324.016	333.795	341.957	335.797	325.710
147.5	320.166	328.867	336.259	330.715	321.783
150.0	315.238	322.322	329.175	324.786	316.778
152.5	309.771	315.007	320.397	317.779	311.234
155.0	303.765	307.692	311.234	309.386	304.843
157.5	296.604	300.454	303.303	301.070	297.605
160.0	289.443	292.446	295.295	293.755	290.290
162.5	282.205	283.668	285.824	285.285	282.898
165.0	274.505	275.198	276.738	276.584	274.890
167.5	267.113	267.190	268.114	268.422	267.344
170.0	260.260	259.875	260.260	260.876	260.414
172.5	254.485	253.715	253.561	254.485	254.485
175.0	249.634	248.941	248.325	249.557	249.634
177.5	246.400	245.784	245.322	246.477	246.554
180.0	245.245	245.245	245.245	245.245	245.245

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	102.86	N.A.	2.40
0-30	246.71	N.A.	5.80
0-40	457.17	N.A.	10.70
0-60	1035.94	N.A.	24.30
0-80	1758.51	N.A.	41.20
0-90	2133.82	N.A.	50.00
10-90	2109.74	N.A.	49.40
20-40	354.31	N.A.	8.30
20-50	621.40	N.A.	14.60
40-70	927.41	N.A.	21.70
60-80	722.58	N.A.	16.90
70-80	373.93	N.A.	8.80
80-90	375.31	N.A.	8.80
90-110	751.13	N.A.	17.60
90-120	1101.88	N.A.	25.80
90-130	1413.96	N.A.	33.10
90-150	1889.89	N.A.	44.30
90-180	2135.81	N.A.	50.00
110-180	1384.68	N.A.	32.40
0-180	4269.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	24.08
10-20	78.79
20-30	143.85
30-40	210.46
40-50	267.09
50-60	311.68
60-70	348.65
70-80	373.93
80-90	375.31
90-100	375.51
100-110	375.62
110-120	350.75
120-130	312.07
130-140	266.36
140-150	209.58
150-160	143.03
160-170	78.74
170-180	24.14

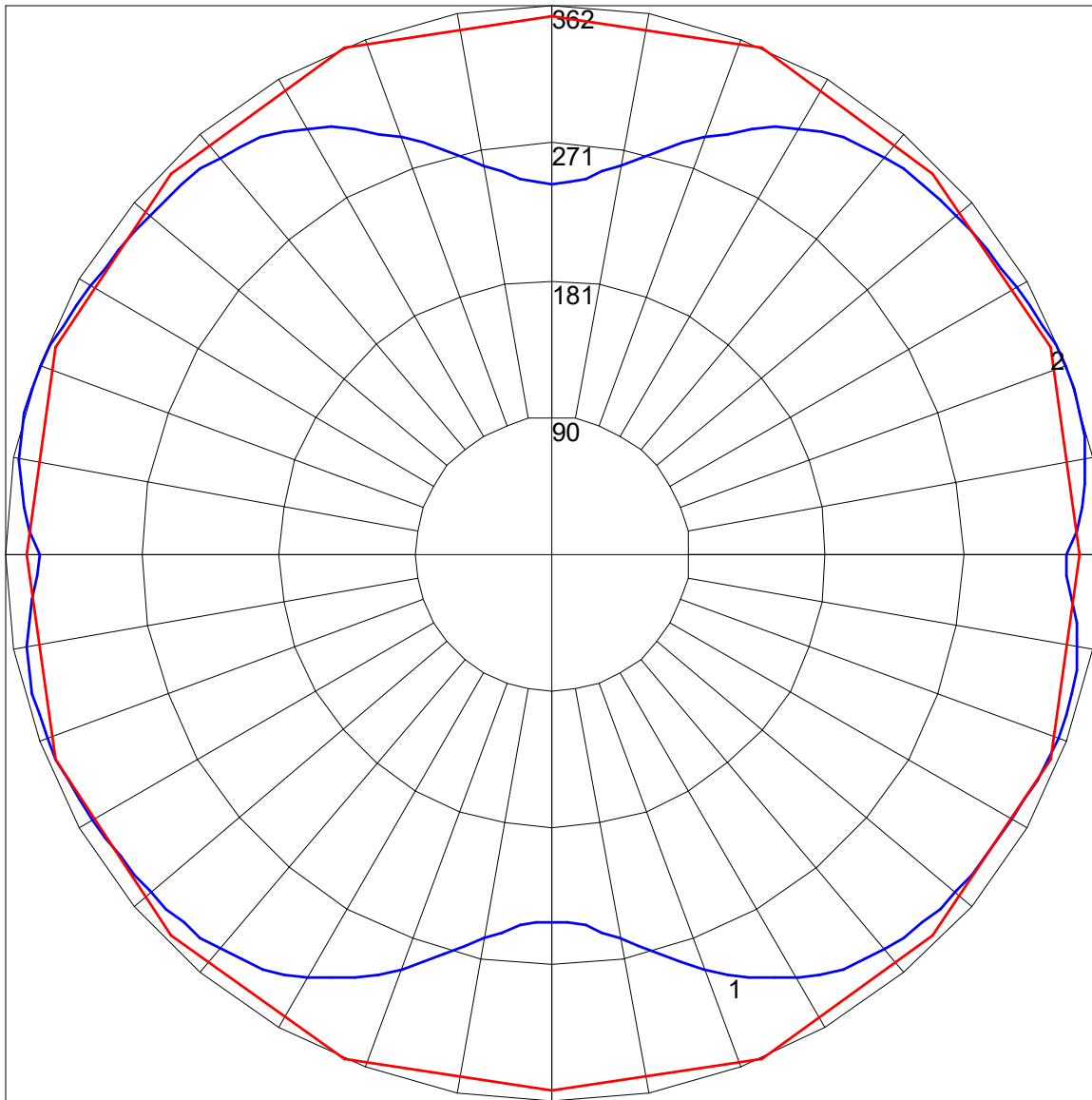
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	66	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	28	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 = 361.977 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.)