



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZES-PRO-22-LED4-SO.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	9815
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	76
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	2200	2299	2193
55	2659	2744	2667
65	3548	3509	3561
75	5454	5082	5437
85	11424	9602	11301

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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	561.267	561.267	561.267	561.267	561.267
2.5	564.807	565.338	560.736	560.736	564.276
5.0	573.303	573.480	568.701	567.993	571.533
7.5	585.339	585.162	581.445	579.675	582.684
10.0	600.030	600.384	597.729	594.720	596.490
12.5	616.668	618.084	616.137	611.889	611.889
15.0	634.545	637.554	636.492	631.005	629.235
17.5	653.484	658.086	657.909	651.006	647.466
20.0	672.246	678.441	679.680	671.007	665.343
22.5	690.477	698.619	701.274	691.008	682.512
25.0	707.469	717.558	722.160	710.124	698.796
27.5	722.691	735.258	741.984	728.178	713.664
30.0	735.789	751.011	760.215	744.285	726.762
32.5	745.878	764.286	776.145	758.091	737.382
35.0	753.666	775.083	789.774	769.773	745.701
37.5	758.976	783.579	800.925	779.154	752.250
40.0	762.162	789.774	809.244	786.234	756.675
42.5	763.932	793.845	815.085	791.544	759.861
45.0	764.640	796.146	818.625	795.261	762.162
47.5	764.994	797.562	820.926	797.916	763.932
50.0	765.879	798.624	821.634	800.040	766.233
52.5	766.941	799.155	821.280	801.456	768.534
55.0	768.534	800.040	820.218	802.872	770.835
57.5	771.366	801.456	818.979	804.465	774.552
60.0	775.260	803.934	817.740	807.297	778.800
62.5	780.570	807.297	817.032	810.129	784.110
65.0	786.765	811.545	816.324	813.492	789.597
67.5	793.137	815.793	815.262	816.501	794.907
70.0	799.509	819.510	814.377	818.979	799.863
72.5	803.580	822.165	812.607	819.864	802.518
75.0	805.704	823.050	809.775	818.802	803.226
77.5	805.350	821.811	804.996	815.793	801.456
80.0	803.226	818.802	798.624	810.660	797.385
82.5	798.093	812.961	790.128	803.226	791.013
85.0	790.836	804.819	779.685	793.845	782.340
87.5	782.340	794.730	768.357	783.225	772.428
90.0	770.658	782.517	761.631	781.809	770.835
92.5	769.596	782.871	770.304	796.323	785.526
95.0	778.446	792.252	780.924	806.766	794.730
97.5	785.526	800.394	791.190	815.616	802.695
100.0	792.075	807.651	800.394	822.696	809.244
102.5	797.385	814.200	808.713	828.537	814.377
105.0	800.217	817.917	814.377	831.723	816.501
107.5	800.040	819.156	818.094	832.077	815.616
110.0	797.385	818.271	820.218	830.307	811.722
112.5	793.137	815.970	821.103	826.944	806.235
115.0	787.827	812.784	820.926	822.519	799.332
117.5	782.163	809.244	820.926	817.563	792.252
120.0	776.322	805.350	820.926	812.784	785.172
122.5	771.189	802.164	821.103	808.713	778.800
125.0	767.295	799.863	821.457	805.350	773.667
127.5	764.286	797.385	821.103	802.518	769.596
130.0	762.162	795.261	820.041	800.394	766.764
132.5	761.100	793.314	818.625	798.624	765.348

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CANDELA TABULATION - (Cont.)

135.0	759.684	791.190	815.970	796.146	763.755
137.5	757.737	787.650	811.722	792.606	761.808
140.0	754.905	782.694	805.527	787.650	758.799
142.5	750.834	776.145	797.031	780.924	754.728
145.0	744.816	767.295	786.057	771.897	748.710
147.5	735.966	755.967	772.959	760.215	739.683
150.0	724.638	740.922	756.675	746.586	728.178
152.5	712.071	724.107	736.497	730.479	715.434
155.0	698.265	707.292	715.434	711.186	700.743
157.5	681.804	690.654	697.203	692.070	684.105
160.0	665.343	672.246	678.795	675.255	667.290
162.5	648.705	652.068	657.024	655.785	650.298
165.0	631.005	632.598	636.138	635.784	631.890
167.5	614.013	614.190	616.314	617.022	614.544
170.0	598.260	597.375	598.260	599.676	598.614
172.5	584.985	583.215	582.861	584.985	584.985
175.0	573.834	572.241	570.825	573.657	573.834
177.5	566.400	564.984	563.922	566.577	566.754
180.0	563.745	563.745	563.745	563.745	563.745

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	236.45	N.A.	2.40
0-30	567.12	N.A.	5.80
0-40	1050.9	N.A.	10.70
0-60	2381.31	N.A.	24.30
0-80	4042.3	N.A.	41.20
0-90	4905.01	N.A.	50.00
10-90	4849.67	N.A.	49.40
20-40	814.45	N.A.	8.30
20-50	1428.41	N.A.	14.60
40-70	2131.85	N.A.	21.70
60-80	1660.99	N.A.	16.90
70-80	859.55	N.A.	8.80
80-90	862.72	N.A.	8.80
90-110	1726.62	N.A.	17.60
90-120	2532.9	N.A.	25.80
90-130	3250.27	N.A.	33.10
90-150	4344.29	N.A.	44.30
90-180	4909.59	N.A.	50.00
110-180	3182.97	N.A.	32.40
0-180	9814.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.34
10-20	181.11
20-30	330.67
30-40	483.78
40-50	613.96
50-60	716.45
60-70	801.44
70-80	859.55
80-90	862.72
90-100	863.19
100-110	863.43
110-120	806.28
120-130	717.37
130-140	612.27
140-150	481.75
150-160	328.79
160-170	181.01
170-180	55.49

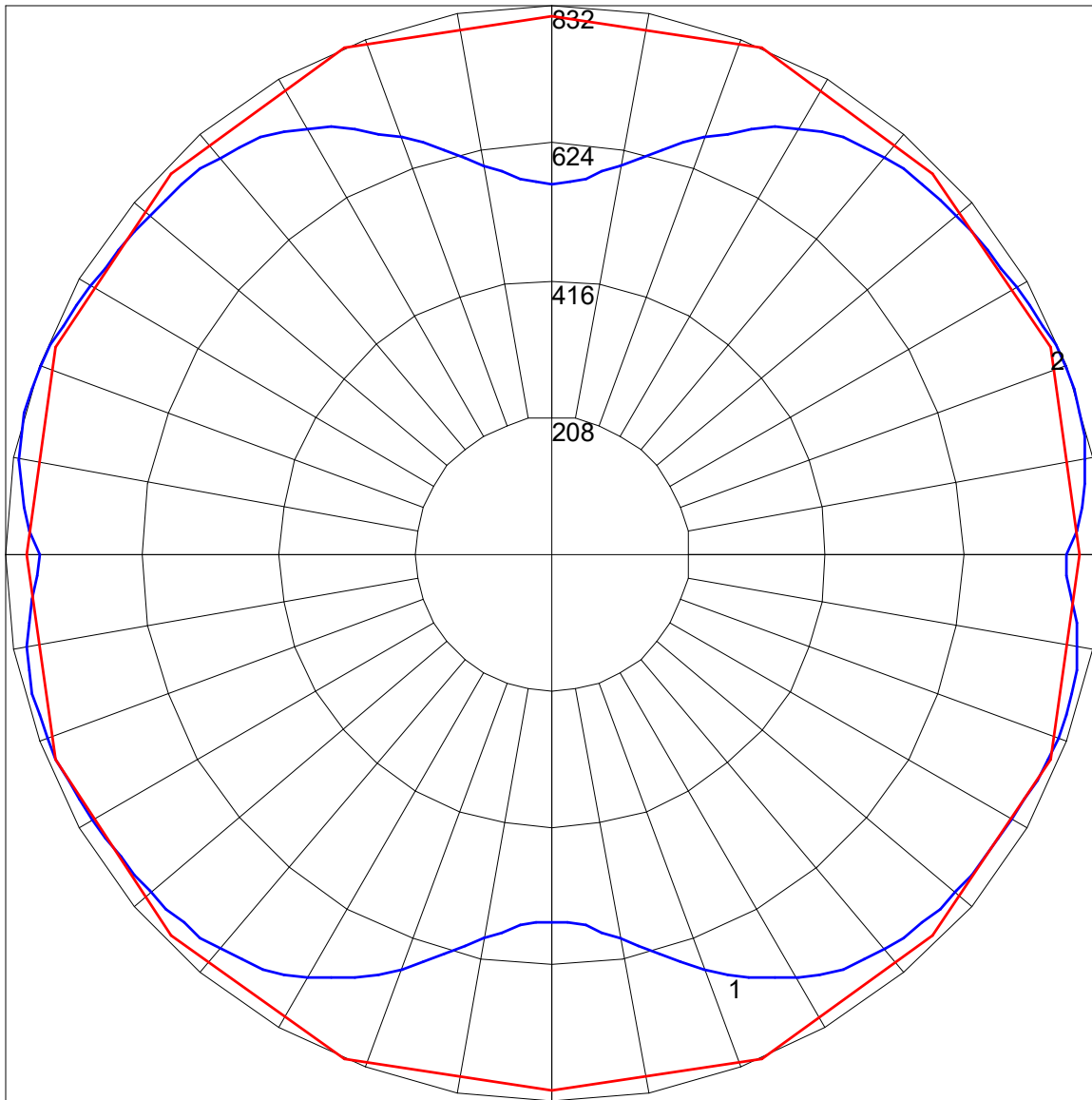
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 832.077 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.)