



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZES-33-LED4-LO.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	5711
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	50
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	1280	1338	1276
55	1547	1597	1552
65	2065	2042	2072
75	3174	2957	3164
85	6648	5587	6577

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	326.613	326.613	326.613	326.613	326.613
2.5	328.673	328.982	326.304	326.304	328.364
5.0	333.617	333.720	330.939	330.527	332.587
7.5	340.621	340.518	338.355	337.325	339.076
10.0	349.170	349.376	347.831	346.080	347.110
12.5	358.852	359.676	358.543	356.071	356.071
15.0	369.255	371.006	370.388	367.195	366.165
17.5	380.276	382.954	382.851	378.834	376.774
20.0	391.194	394.799	395.520	390.473	387.177
22.5	401.803	406.541	408.086	402.112	397.168
25.0	411.691	417.562	420.240	413.236	406.644
27.5	420.549	427.862	431.776	423.742	415.296
30.0	428.171	437.029	442.385	433.115	422.918
32.5	434.042	444.754	451.655	441.149	429.098
35.0	438.574	451.037	459.586	447.947	433.939
37.5	441.664	455.981	466.075	453.406	437.750
40.0	443.518	459.586	470.916	457.526	440.325
42.5	444.548	461.955	474.315	460.616	442.179
45.0	444.960	463.294	476.375	462.779	443.518
47.5	445.166	464.118	477.714	464.324	444.548
50.0	445.681	464.736	478.126	465.560	445.887
52.5	446.299	465.045	477.920	466.384	447.226
55.0	447.226	465.560	477.302	467.208	448.565
57.5	448.874	466.384	476.581	468.135	450.728
60.0	451.140	467.826	475.860	469.783	453.200
62.5	454.230	469.783	475.448	471.431	456.290
65.0	457.835	472.255	475.036	473.388	459.483
67.5	461.543	474.727	474.418	475.139	462.573
70.0	465.251	476.890	473.903	476.581	465.457
72.5	467.620	478.435	472.873	477.096	467.002
75.0	468.856	478.950	471.225	476.478	467.414
77.5	468.650	478.229	468.444	474.727	466.384
80.0	467.414	476.478	464.736	471.740	464.015
82.5	464.427	473.079	459.792	467.414	460.307
85.0	460.204	468.341	453.715	461.955	455.260
87.5	455.260	462.470	447.123	455.775	449.492
90.0	448.462	455.363	443.209	454.951	448.565
92.5	447.844	455.569	448.256	463.397	457.114
95.0	452.994	461.028	454.436	469.474	462.470
97.5	457.114	465.766	460.410	474.624	467.105
100.0	460.925	469.989	465.766	478.744	470.916
102.5	464.015	473.800	470.607	482.143	473.903
105.0	465.663	475.963	473.903	483.997	475.139
107.5	465.560	476.684	476.066	484.203	474.624
110.0	464.015	476.169	477.302	483.173	472.358
112.5	461.543	474.830	477.817	481.216	469.165
115.0	458.453	472.976	477.714	478.641	465.148
117.5	455.157	470.916	477.714	475.757	461.028
120.0	451.758	468.650	477.714	472.976	456.908
122.5	448.771	466.796	477.817	470.607	453.200
125.0	446.505	465.457	478.023	468.650	450.213
127.5	444.754	464.015	477.817	467.002	447.844
130.0	443.518	462.779	477.199	465.766	446.196
132.5	442.900	461.646	476.375	464.736	445.372

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CANDELA TABULATION - (Cont.)

135.0	442.076	460.410	474.830	463.294	444.445
137.5	440.943	458.350	472.358	461.234	443.312
140.0	439.295	455.466	468.753	458.350	441.561
142.5	436.926	451.655	463.809	454.436	439.192
145.0	433.424	446.505	457.423	449.183	435.690
147.5	428.274	439.913	449.801	442.385	430.437
150.0	421.682	431.158	440.325	434.454	423.742
152.5	414.369	421.373	428.583	425.081	416.326
155.0	406.335	411.588	416.326	413.854	407.777
157.5	396.756	401.906	405.717	402.730	398.095
160.0	387.177	391.194	395.005	392.945	388.310
162.5	377.495	379.452	382.336	381.615	378.422
165.0	367.195	368.122	370.182	369.976	367.710
167.5	357.307	357.410	358.646	359.058	357.616
170.0	348.140	347.625	348.140	348.964	348.346
172.5	340.415	339.385	339.179	340.415	340.415
175.0	333.926	332.999	332.175	333.823	333.926
177.5	329.600	328.776	328.158	329.703	329.806
180.0	328.055	328.055	328.055	328.055	328.055

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	137.59	N.A.	2.40
0-30	330.02	N.A.	5.80
0-40	611.54	N.A.	10.70
0-60	1385.73	N.A.	24.30
0-80	2352.3	N.A.	41.20
0-90	2854.33	N.A.	50.00
10-90	2822.13	N.A.	49.40
20-40	473.95	N.A.	8.30
20-50	831.22	N.A.	14.60
40-70	1240.57	N.A.	21.70
60-80	966.56	N.A.	16.90
70-80	500.19	N.A.	8.80
80-90	502.03	N.A.	8.80
90-110	1004.76	N.A.	17.60
90-120	1473.95	N.A.	25.80
90-130	1891.4	N.A.	33.10
90-150	2528.03	N.A.	44.30
90-180	2856.99	N.A.	50.00
110-180	1852.24	N.A.	32.40
0-180	5711.32	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	32.20
10-20	105.39
20-30	192.42
30-40	281.52
40-50	357.28
50-60	416.92
60-70	466.37
70-80	500.19
80-90	502.03
90-100	502.31
100-110	502.45
110-120	469.19
120-130	417.45
130-140	356.29
140-150	280.34
150-160	191.33
160-170	105.33
170-180	32.29

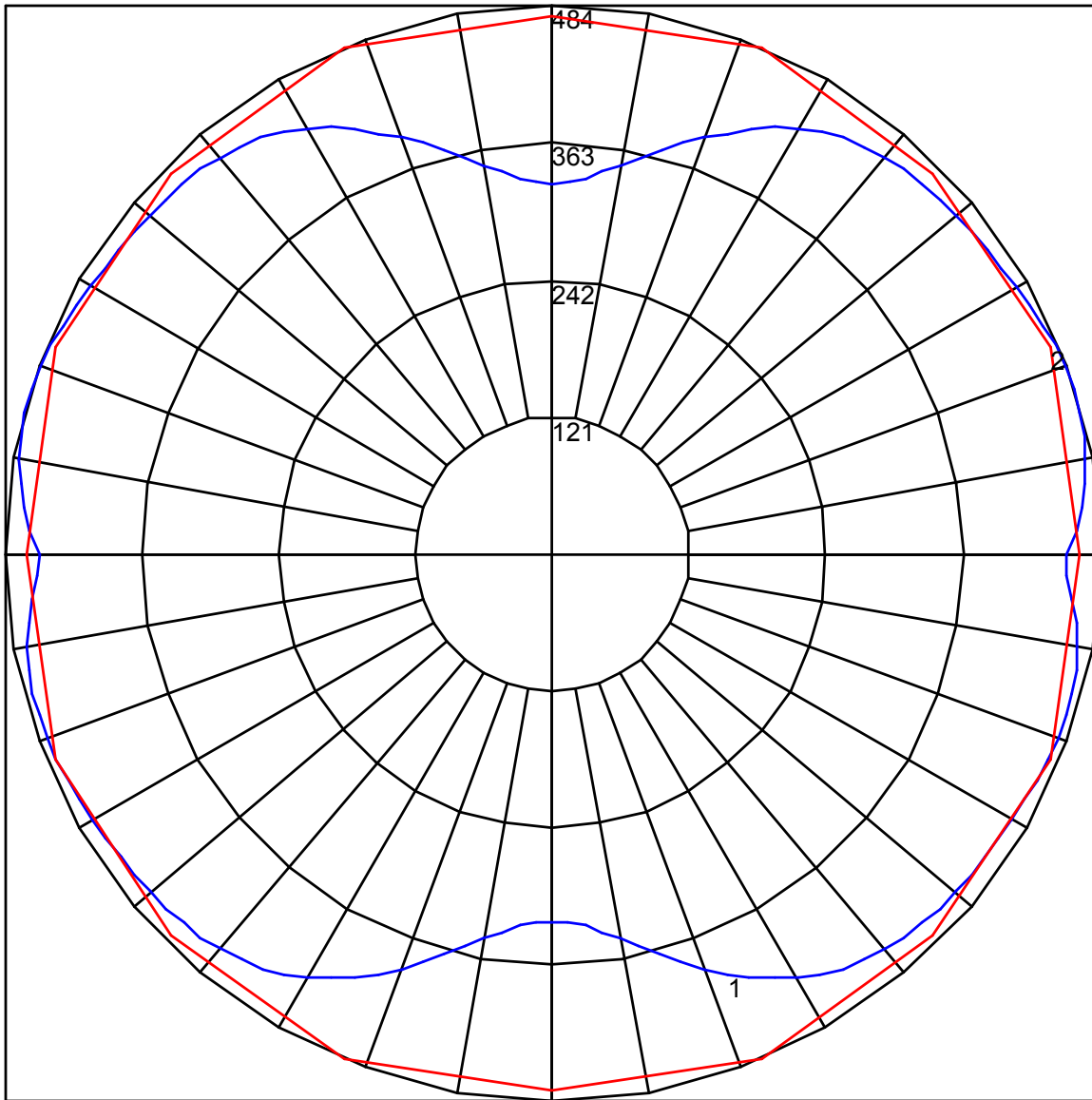
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 484.203 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.)