



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZES-44-LED4LO-SAL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]31978

[TESTLAB]LIGHTING SCIENCES, INC.

[ISSUE DATE] 8/ 8/2013

[MANUFACTURER]PRUDENTIAL LIGHTING - LED PENDANT LUMINAIRE

[LUMEN CATEGORY]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	7708
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	67
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	1728	1806	1722
55	2088	2155	2094
65	2786	2756	2796
75	4283	3991	4270
85	8972	7540	8875

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	440.769	440.769	440.769	440.769	440.769
2.5	443.549	443.966	440.352	440.352	443.132
5.0	450.221	450.360	446.607	446.051	448.831
7.5	459.673	459.534	456.615	455.225	457.588
10.0	471.210	471.488	469.403	467.040	468.430
12.5	484.276	485.388	483.859	480.523	480.523
15.0	498.315	500.678	499.844	495.535	494.145
17.5	513.188	516.802	516.663	511.242	508.462
20.0	527.922	532.787	533.760	526.949	522.501
22.5	542.239	548.633	550.718	542.656	535.984
25.0	555.583	563.506	567.120	557.668	548.772
27.5	567.537	577.406	582.688	571.846	560.448
30.0	577.823	589.777	597.005	584.495	570.734
32.5	585.746	600.202	609.515	595.337	579.074
35.0	591.862	608.681	620.218	604.511	585.607
37.5	596.032	615.353	628.975	611.878	590.750
40.0	598.534	620.218	635.508	617.438	594.225
42.5	599.924	623.415	640.095	621.608	596.727
45.0	600.480	625.222	642.875	624.527	598.534
47.5	600.758	626.334	644.682	626.612	599.924
50.0	601.453	627.168	645.238	628.280	601.731
52.5	602.287	627.585	644.960	629.392	603.538
55.0	603.538	628.280	644.126	630.504	605.345
57.5	605.762	629.392	643.153	631.755	608.264
60.0	608.820	631.338	642.180	633.979	611.600
62.5	612.990	633.979	641.624	636.203	615.770
65.0	617.855	637.315	641.068	638.844	620.079
67.5	622.859	640.651	640.234	641.207	624.249
70.0	627.863	643.570	639.539	643.153	628.141
72.5	631.060	645.655	638.149	643.848	630.226
75.0	632.728	646.350	635.925	643.014	630.782
77.5	632.450	645.377	632.172	640.651	629.392
80.0	630.782	643.014	627.168	636.620	626.195
82.5	626.751	638.427	620.496	630.782	621.191
85.0	621.052	632.033	612.295	623.415	614.380
87.5	614.380	624.110	603.399	615.075	606.596
90.0	605.206	614.519	598.117	613.963	605.345
92.5	604.372	614.797	604.928	625.361	616.882
95.0	611.322	622.164	613.268	633.562	624.110
97.5	616.882	628.558	621.330	640.512	630.365
100.0	622.025	634.257	628.558	646.072	635.508
102.5	626.195	639.400	635.091	650.659	639.539
105.0	628.419	642.319	639.539	653.161	641.207
107.5	628.280	643.292	642.458	653.439	640.512
110.0	626.195	642.597	644.126	652.049	637.454
112.5	622.859	640.790	644.821	649.408	633.145
115.0	618.689	638.288	644.682	645.933	627.724
117.5	614.241	635.508	644.682	642.041	622.164
120.0	609.654	632.450	644.682	638.288	616.604
122.5	605.623	629.948	644.821	635.091	611.600
125.0	602.565	628.141	645.099	632.450	607.569
127.5	600.202	626.195	644.821	630.226	604.372
130.0	598.534	624.527	643.987	628.558	602.148
132.5	597.700	622.998	642.875	627.168	601.036

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CANDELA TABULATION - (Cont.)

135.0	596.588	621.330	640.790	625.222	599.785
137.5	595.059	618.550	637.454	622.442	598.256
140.0	592.835	614.658	632.589	618.550	595.893
142.5	589.638	609.515	625.917	613.268	592.696
145.0	584.912	602.565	617.299	606.179	587.970
147.5	577.962	593.669	607.013	597.005	580.881
150.0	569.066	581.854	594.225	586.302	571.846
152.5	559.197	568.649	578.379	573.653	561.838
155.0	548.355	555.444	561.838	558.502	550.301
157.5	535.428	542.378	547.521	543.490	537.235
160.0	522.501	527.922	533.065	530.285	524.030
162.5	509.435	512.076	515.968	514.995	510.686
165.0	495.535	496.786	499.566	499.288	496.230
167.5	482.191	482.330	483.998	484.554	482.608
170.0	469.820	469.125	469.820	470.932	470.098
172.5	459.395	458.005	457.727	459.395	459.395
175.0	450.638	449.387	448.275	450.499	450.638
177.5	444.800	443.688	442.854	444.939	445.078
180.0	442.715	442.715	442.715	442.715	442.715

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	185.69	N.A.	2.40
0-30	445.36	N.A.	5.80
0-40	825.28	N.A.	10.70
0-60	1870.07	N.A.	24.30
0-80	3174.46	N.A.	41.20
0-90	3851.96	N.A.	50.00
10-90	3808.5	N.A.	49.40
20-40	639.60	N.A.	8.30
20-50	1121.75	N.A.	14.60
40-70	1674.16	N.A.	21.70
60-80	1304.39	N.A.	16.90
70-80	675.01	N.A.	8.80
80-90	677.50	N.A.	8.80
90-110	1355.93	N.A.	17.60
90-120	1989.11	N.A.	25.80
90-130	2552.47	N.A.	33.10
90-150	3411.62	N.A.	44.30
90-180	3855.55	N.A.	50.00
110-180	2499.62	N.A.	32.40
0-180	7707.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	43.46
10-20	142.23
20-30	259.68
30-40	379.92
40-50	482.15
50-60	562.64
60-70	629.38
70-80	675.01
80-90	677.50
90-100	677.87
100-110	678.06
110-120	633.18
120-130	563.36
130-140	480.82
140-150	378.33
150-160	258.21
160-170	142.15
170-180	43.58

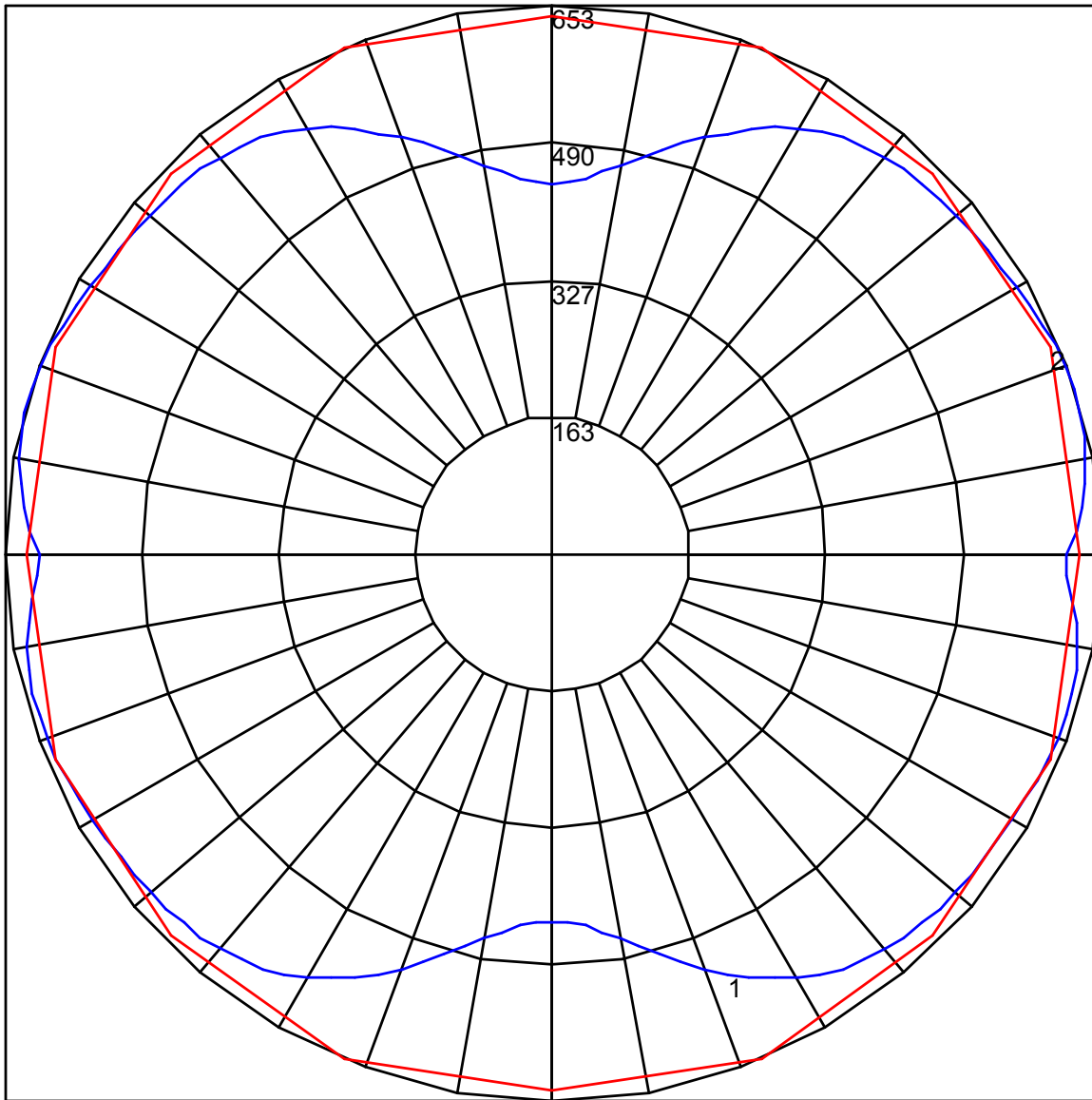
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 653.439 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.)