



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZES-33-LED4-MO.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	7486
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	66
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	1678	1754	1673
55	2028	2093	2034
65	2706	2676	2716
75	4160	3876	4147
85	8713	7323	8620

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	428.085	428.085	428.085	428.085	428.085
2.5	430.785	431.190	427.680	427.680	430.380
5.0	437.265	437.400	433.755	433.215	435.915
7.5	446.445	446.310	443.475	442.125	444.420
10.0	457.650	457.920	455.895	453.600	454.950
12.5	470.340	471.420	469.935	466.695	466.695
15.0	483.975	486.270	485.460	481.275	479.925
17.5	498.420	501.930	501.795	496.530	493.830
20.0	512.730	517.455	518.400	511.785	507.465
22.5	526.635	532.845	534.870	527.040	520.560
25.0	539.595	547.290	550.800	541.620	532.980
27.5	551.205	560.790	565.920	555.390	544.320
30.0	561.195	572.805	579.825	567.675	554.310
32.5	568.890	582.930	591.975	578.205	562.410
35.0	574.830	591.165	602.370	587.115	568.755
37.5	578.880	597.645	610.875	594.270	573.750
40.0	581.310	602.370	617.220	599.670	577.125
42.5	582.660	605.475	621.675	603.720	579.555
45.0	583.200	607.230	624.375	606.555	581.310
47.5	583.470	608.310	626.130	608.580	582.660
50.0	584.145	609.120	626.670	610.200	584.415
52.5	584.955	609.525	626.400	611.280	586.170
55.0	586.170	610.200	625.590	612.360	587.925
57.5	588.330	611.280	624.645	613.575	590.760
60.0	591.300	613.170	623.700	615.735	594.000
62.5	595.350	615.735	623.160	617.895	598.050
65.0	600.075	618.975	622.620	620.460	602.235
67.5	604.935	622.215	621.810	622.755	606.285
70.0	609.795	625.050	621.135	624.645	610.065
72.5	612.900	627.075	619.785	625.320	612.090
75.0	614.520	627.750	617.625	624.510	612.630
77.5	614.250	626.805	613.980	622.215	611.280
80.0	612.630	624.510	609.120	618.300	608.175
82.5	608.715	620.055	602.640	612.630	603.315
85.0	603.180	613.845	594.675	605.475	596.700
87.5	596.700	606.150	586.035	597.375	589.140
90.0	587.790	596.835	580.905	596.295	587.925
92.5	586.980	597.105	587.520	607.365	599.130
95.0	593.730	604.260	595.620	615.330	606.150
97.5	599.130	610.470	603.450	622.080	612.225
100.0	604.125	616.005	610.470	627.480	617.220
102.5	608.175	621.000	616.815	631.935	621.135
105.0	610.335	623.835	621.135	634.365	622.755
107.5	610.200	624.780	623.970	634.635	622.080
110.0	608.175	624.105	625.590	633.285	619.110
112.5	604.935	622.350	626.265	630.720	614.925
115.0	600.885	619.920	626.130	627.345	609.660
117.5	596.565	617.220	626.130	623.565	604.260
120.0	592.110	614.250	626.130	619.920	598.860
122.5	588.195	611.820	626.265	616.815	594.000
125.0	585.225	610.065	626.535	614.250	590.085
127.5	582.930	608.175	626.265	612.090	586.980
130.0	581.310	606.555	625.455	610.470	584.820
132.5	580.500	605.070	624.375	609.120	583.740

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CANDELA TABULATION - (Cont.)

135.0	579.420	603.450	622.350	607.230	582.525
137.5	577.935	600.750	619.110	604.530	581.040
140.0	575.775	596.970	614.385	600.750	578.745
142.5	572.670	591.975	607.905	595.620	575.640
145.0	568.080	585.225	599.535	588.735	571.050
147.5	561.330	576.585	589.545	579.825	564.165
150.0	552.690	565.110	577.125	569.430	555.390
152.5	543.105	552.285	561.735	557.145	545.670
155.0	532.575	539.460	545.670	542.430	534.465
157.5	520.020	526.770	531.765	527.850	521.775
160.0	507.465	512.730	517.725	515.025	508.950
162.5	494.775	497.340	501.120	500.175	495.990
165.0	481.275	482.490	485.190	484.920	481.950
167.5	468.315	468.450	470.070	470.610	468.720
170.0	456.300	455.625	456.300	457.380	456.570
172.5	446.175	444.825	444.555	446.175	446.175
175.0	437.670	436.455	435.375	437.535	437.670
177.5	432.000	430.920	430.110	432.135	432.270
180.0	429.975	429.975	429.975	429.975	429.975

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	180.34	N.A.	2.40
0-30	432.55	N.A.	5.80
0-40	801.53	N.A.	10.70
0-60	1816.25	N.A.	24.30
0-80	3083.11	N.A.	41.20
0-90	3741.11	N.A.	50.00
10-90	3698.9	N.A.	49.40
20-40	621.19	N.A.	8.30
20-50	1089.47	N.A.	14.60
40-70	1625.99	N.A.	21.70
60-80	1266.85	N.A.	16.90
70-80	655.59	N.A.	8.80
80-90	658.00	N.A.	8.80
90-110	1316.91	N.A.	17.60
90-120	1931.87	N.A.	25.80
90-130	2479.02	N.A.	33.10
90-150	3313.44	N.A.	44.30
90-180	3744.6	N.A.	50.00
110-180	2427.69	N.A.	32.40
0-180	7485.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.21
10-20	138.13
20-30	252.20
30-40	368.99
40-50	468.27
50-60	546.44
60-70	611.27
70-80	655.59
80-90	658.00
90-100	658.36
100-110	658.55
110-120	614.96
120-130	547.14
130-140	466.99
140-150	367.44
150-160	250.78
160-170	138.06
170-180	42.33

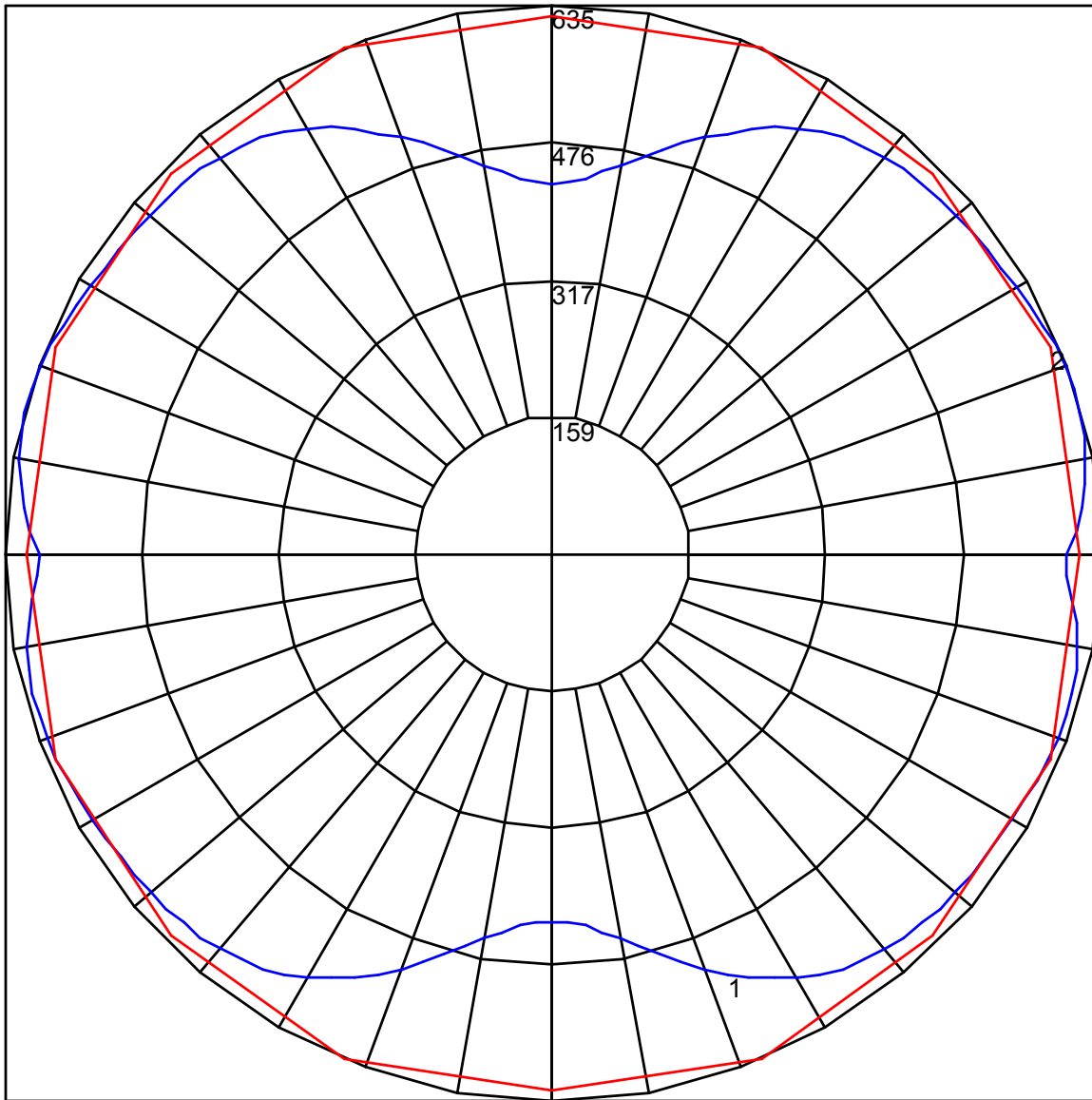
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 634.635 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.)