



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZES-PRO-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	6488
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	47
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	1454	1520	1450
55	1758	1814	1763
65	2345	2319	2354
75	3605	3359	3594
85	7552	6347	7470

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZES-PRO-33-LED4-LO.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	371.007	371.007	371.007	371.007	371.007
2.5	373.347	373.698	370.656	370.656	372.996
5.0	378.963	379.080	375.921	375.453	377.793
7.5	386.919	386.802	384.345	383.175	385.164
10.0	396.630	396.864	395.109	393.120	394.290
12.5	407.628	408.564	407.277	404.469	404.469
15.0	419.445	421.434	420.732	417.105	415.935
17.5	431.964	435.006	434.889	430.326	427.986
20.0	444.366	448.461	449.280	443.547	439.803
22.5	456.417	461.799	463.554	456.768	451.152
25.0	467.649	474.318	477.360	469.404	461.916
27.5	477.711	486.018	490.464	481.338	471.744
30.0	486.369	496.431	502.515	491.985	480.402
32.5	493.038	505.206	513.045	501.111	487.422
35.0	498.186	512.343	522.054	508.833	492.921
37.5	501.696	517.959	529.425	515.034	497.250
40.0	503.802	522.054	534.924	519.714	500.175
42.5	504.972	524.745	538.785	523.224	502.281
45.0	505.440	526.266	541.125	525.681	503.802
47.5	505.674	527.202	542.646	527.436	504.972
50.0	506.259	527.904	543.114	528.840	506.493
52.5	506.961	528.255	542.880	529.776	508.014
55.0	508.014	528.840	542.178	530.712	509.535
57.5	509.886	529.776	541.359	531.765	511.992
60.0	512.460	531.414	540.540	533.637	514.800
62.5	515.970	533.637	540.072	535.509	518.310
65.0	520.065	536.445	539.604	537.732	521.937
67.5	524.277	539.253	538.902	539.721	525.447
70.0	528.489	541.710	538.317	541.359	528.723
72.5	531.180	543.465	537.147	541.944	530.478
75.0	532.584	544.050	535.275	541.242	530.946
77.5	532.350	543.231	532.116	539.253	529.776
80.0	530.946	541.242	527.904	535.860	527.085
82.5	527.553	537.381	522.288	530.946	522.873
85.0	522.756	531.999	515.385	524.745	517.140
87.5	517.140	525.330	507.897	517.725	510.588
90.0	509.418	517.257	503.451	516.789	509.535
92.5	508.716	517.491	509.184	526.383	519.246
95.0	514.566	523.692	516.204	533.286	525.330
97.5	519.246	529.074	522.990	539.136	530.595
100.0	523.575	533.871	529.074	543.816	534.924
102.5	527.085	538.200	534.573	547.677	538.317
105.0	528.957	540.657	538.317	549.783	539.721
107.5	528.840	541.476	540.774	550.017	539.136
110.0	527.085	540.891	542.178	548.847	536.562
112.5	524.277	539.370	542.763	546.624	532.935
115.0	520.767	537.264	542.646	543.699	528.372
117.5	517.023	534.924	542.646	540.423	523.692
120.0	513.162	532.350	542.646	537.264	519.012
122.5	509.769	530.244	542.763	534.573	514.800
125.0	507.195	528.723	542.997	532.350	511.407
127.5	505.206	527.085	542.763	530.478	508.716
130.0	503.802	525.681	542.061	529.074	506.844
132.5	503.100	524.394	541.125	527.904	505.908

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZES-PRO-33-LED4-LO.IES

CANDELA TABULATION - (Cont.)

135.0	502.164	522.990	539.370	526.266	504.855
137.5	500.877	520.650	536.562	523.926	503.568
140.0	499.005	517.374	532.467	520.650	501.579
142.5	496.314	513.045	526.851	516.204	498.888
145.0	492.336	507.195	519.597	510.237	494.910
147.5	486.486	499.707	510.939	502.515	488.943
150.0	478.998	489.762	500.175	493.506	481.338
152.5	470.691	478.647	486.837	482.859	472.914
155.0	461.565	467.532	472.914	470.106	463.203
157.5	450.684	456.534	460.863	457.470	452.205
160.0	439.803	444.366	448.695	446.355	441.090
162.5	428.805	431.028	434.304	433.485	429.858
165.0	417.105	418.158	420.498	420.264	417.690
167.5	405.873	405.990	407.394	407.862	406.224
170.0	395.460	394.875	395.460	396.396	395.694
172.5	386.685	385.515	385.281	386.685	386.685
175.0	379.314	378.261	377.325	379.197	379.314
177.5	374.400	373.464	372.762	374.517	374.634
180.0	372.645	372.645	372.645	372.645	372.645

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZES-PRO-33-LED4-LO.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	156.30	N.A.	2.40
0-30	374.87	N.A.	5.80
0-40	694.66	N.A.	10.70
0-60	1574.09	N.A.	24.30
0-80	2672.03	N.A.	41.20
0-90	3242.3	N.A.	50.00
10-90	3205.71	N.A.	49.40
20-40	538.37	N.A.	8.30
20-50	944.20	N.A.	14.60
40-70	1409.19	N.A.	21.70
60-80	1097.94	N.A.	16.90
70-80	568.18	N.A.	8.80
80-90	570.27	N.A.	8.80
90-110	1141.32	N.A.	17.60
90-120	1674.29	N.A.	25.80
90-130	2148.48	N.A.	33.10
90-150	2871.65	N.A.	44.30
90-180	3245.32	N.A.	50.00
110-180	2104.00	N.A.	32.40
0-180	6487.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	36.58
10-20	119.71
20-30	218.58
30-40	319.79
40-50	405.84
50-60	473.59
60-70	529.76
70-80	568.18
80-90	570.27
90-100	570.58
100-110	570.74
110-120	532.96
120-130	474.19
130-140	404.72
140-150	318.45
150-160	217.34
160-170	119.65
170-180	36.68

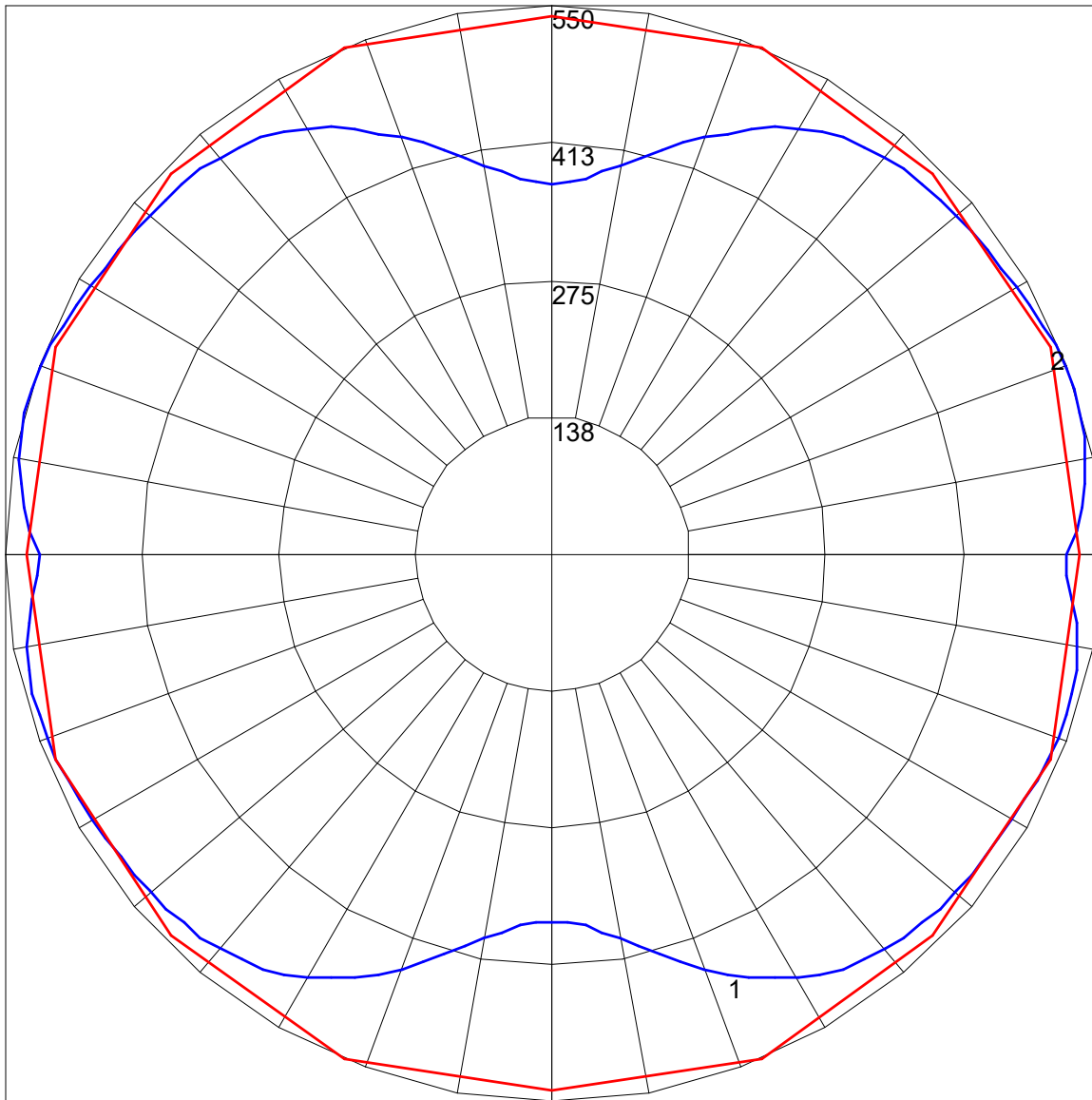
IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZES-PRO-33-LED4-LO.IES

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 = 550.017 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.)