



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZES-PRO-33-LED4-HO.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	18576
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	150
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	4164	4352	4151
55	5033	5194	5048
65	6715	6641	6739
75	10322	9618	10291
85	21622	18172	21390

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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	1062.285	1062.285	1062.285	1062.285	1062.285
2.5	1068.985	1069.990	1061.280	1061.280	1067.980
5.0	1085.065	1085.400	1076.355	1075.015	1081.715
7.5	1107.845	1107.510	1100.475	1097.125	1102.820
10.0	1135.650	1136.320	1131.295	1125.600	1128.950
12.5	1167.140	1169.820	1166.135	1158.095	1158.095
15.0	1200.975	1206.670	1204.660	1194.275	1190.925
17.5	1236.820	1245.530	1245.195	1232.130	1225.430
20.0	1272.330	1284.055	1286.400	1269.985	1259.265
22.5	1306.835	1322.245	1327.270	1307.840	1291.760
25.0	1338.995	1358.090	1366.800	1344.020	1322.580
27.5	1367.805	1391.590	1404.320	1378.190	1350.720
30.0	1392.595	1421.405	1438.825	1408.675	1375.510
32.5	1411.690	1446.530	1468.975	1434.805	1395.610
35.0	1426.430	1466.965	1494.770	1456.915	1411.355
37.5	1436.480	1483.045	1515.875	1474.670	1423.750
40.0	1442.510	1494.770	1531.620	1488.070	1432.125
42.5	1445.860	1502.475	1542.675	1498.120	1438.155
45.0	1447.200	1506.830	1549.375	1505.155	1442.510
47.5	1447.870	1509.510	1553.730	1510.180	1445.860
50.0	1449.545	1511.520	1555.070	1514.200	1450.215
52.5	1451.555	1512.525	1554.400	1516.880	1454.570
55.0	1454.570	1514.200	1552.390	1519.560	1458.925
57.5	1459.930	1516.880	1550.045	1522.575	1465.960
60.0	1467.300	1521.570	1547.700	1527.935	1474.000
62.5	1477.350	1527.935	1546.360	1533.295	1484.050
65.0	1489.075	1535.975	1545.020	1539.660	1494.435
67.5	1501.135	1544.015	1543.010	1545.355	1504.485
70.0	1513.195	1551.050	1541.335	1550.045	1513.865
72.5	1520.900	1556.075	1537.985	1551.720	1518.890
75.0	1524.920	1557.750	1532.625	1549.710	1520.230
77.5	1524.250	1555.405	1523.580	1544.015	1516.880
80.0	1520.230	1549.710	1511.520	1534.300	1509.175
82.5	1510.515	1538.655	1495.440	1520.230	1497.115
85.0	1496.780	1523.245	1475.675	1502.475	1480.700
87.5	1480.700	1504.150	1454.235	1482.375	1461.940
90.0	1458.590	1481.035	1441.505	1479.695	1458.925
92.5	1456.580	1481.705	1457.920	1507.165	1486.730
95.0	1473.330	1499.460	1478.020	1526.930	1504.150
97.5	1486.730	1514.870	1497.450	1543.680	1519.225
100.0	1499.125	1528.605	1514.870	1557.080	1531.620
102.5	1509.175	1541.000	1530.615	1568.135	1541.335
105.0	1514.535	1548.035	1541.335	1574.165	1545.355
107.5	1514.200	1550.380	1548.370	1574.835	1543.680
110.0	1509.175	1548.705	1552.390	1571.485	1536.310
112.5	1501.135	1544.350	1554.065	1565.120	1525.925
115.0	1491.085	1538.320	1553.730	1556.745	1512.860
117.5	1480.365	1531.620	1553.730	1547.365	1499.460
120.0	1469.310	1524.250	1553.730	1538.320	1486.060
122.5	1459.595	1518.220	1554.065	1530.615	1474.000
125.0	1452.225	1513.865	1554.735	1524.250	1464.285
127.5	1446.530	1509.175	1554.065	1518.890	1456.580
130.0	1442.510	1505.155	1552.055	1514.870	1451.220
132.5	1440.500	1501.470	1549.375	1511.520	1448.540

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CANDELA TABULATION - (Cont.)

135.0	1437.820	1497.450	1544.350	1506.830	1445.525
137.5	1434.135	1490.750	1536.310	1500.130	1441.840
140.0	1428.775	1481.370	1524.585	1490.750	1436.145
142.5	1421.070	1468.975	1508.505	1478.020	1428.440
145.0	1409.680	1452.225	1487.735	1460.935	1417.050
147.5	1392.930	1430.785	1462.945	1438.825	1399.965
150.0	1371.490	1402.310	1432.125	1413.030	1378.190
152.5	1347.705	1370.485	1393.935	1382.545	1354.070
155.0	1321.575	1338.660	1354.070	1346.030	1326.265
157.5	1290.420	1307.170	1319.565	1309.850	1294.775
160.0	1259.265	1272.330	1284.725	1278.025	1262.950
162.5	1227.775	1234.140	1243.520	1241.175	1230.790
165.0	1194.275	1197.290	1203.990	1203.320	1195.950
167.5	1162.115	1162.450	1166.470	1167.810	1163.120
170.0	1132.300	1130.625	1132.300	1134.980	1132.970
172.5	1107.175	1103.825	1103.155	1107.175	1107.175
175.0	1086.070	1083.055	1080.375	1085.735	1086.070
177.5	1072.000	1069.320	1067.310	1072.335	1072.670
180.0	1066.975	1066.975	1066.975	1066.975	1066.975

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	447.52	N.A.	2.40
0-30	1073.36	N.A.	5.80
0-40	1988.99	N.A.	10.70
0-60	4507.00	N.A.	24.30
0-80	7650.67	N.A.	41.20
0-90	9283.5	N.A.	50.00
10-90	9178.75	N.A.	49.40
20-40	1541.48	N.A.	8.30
20-50	2703.49	N.A.	14.60
40-70	4034.85	N.A.	21.70
60-80	3143.68	N.A.	16.90
70-80	1626.83	N.A.	8.80
80-90	1632.82	N.A.	8.80
90-110	3267.9	N.A.	17.60
90-120	4793.91	N.A.	25.80
90-130	6151.63	N.A.	33.10
90-150	8222.25	N.A.	44.30
90-180	9292.16	N.A.	50.00
110-180	6024.26	N.A.	32.40
0-180	18575.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.74
10-20	342.77
20-30	625.84
30-40	915.64
40-50	1162.01
50-60	1355.99
60-70	1516.85
70-80	1626.83
80-90	1632.82
90-100	1633.72
100-110	1634.18
110-120	1526.01
120-130	1357.73
130-140	1158.82
140-150	911.79
150-160	622.29
160-170	342.58
170-180	105.03

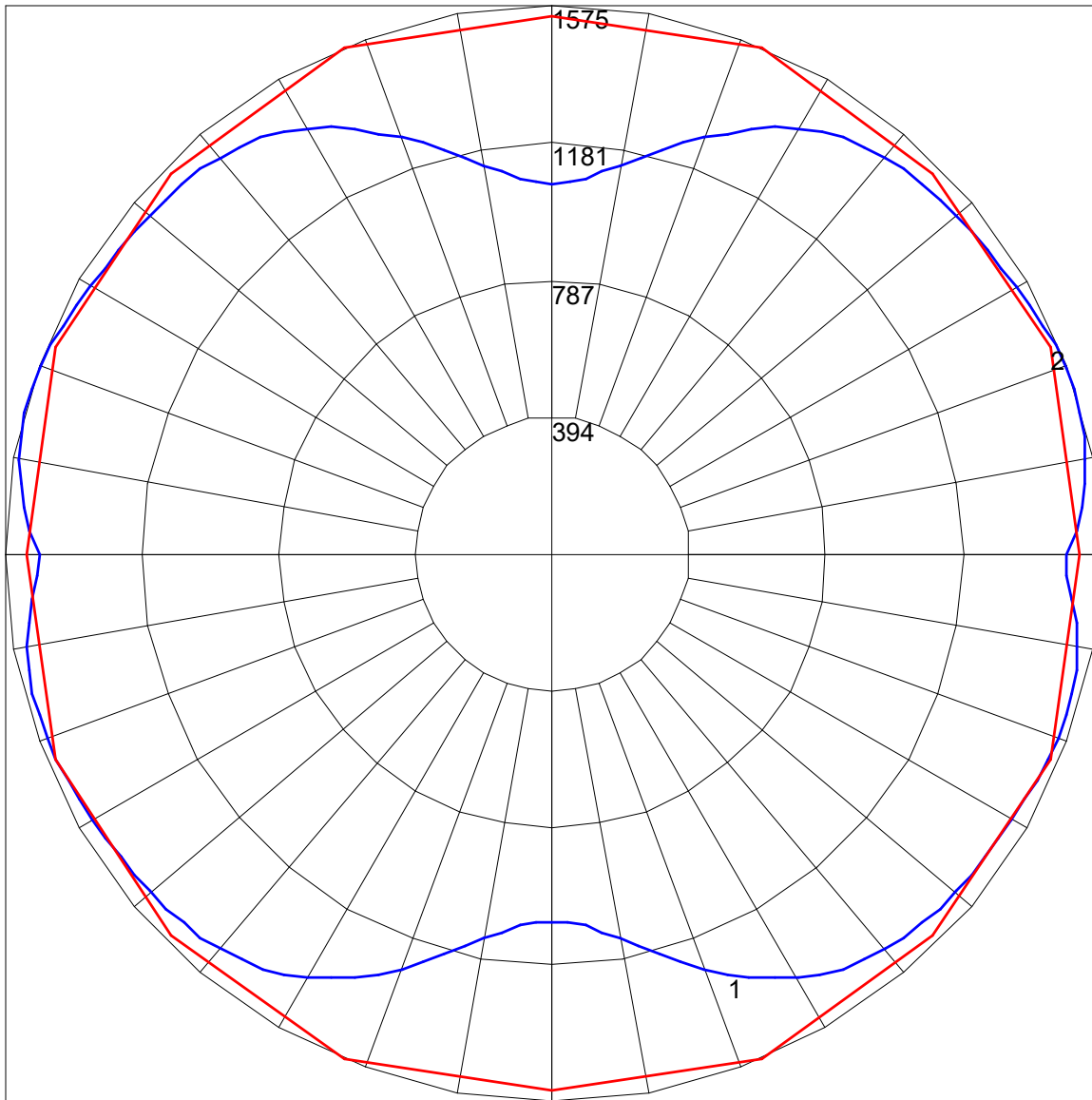
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1574.835 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.)