



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZES-PRO-44-LED4-SO-SAL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]31978  
 [TESTLAB]  
 [ISSUE DATE]  
 [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	19407
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	152
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	4351	4547	4337
55	5258	5427	5274
65	7016	6939	7041
75	10785	10049	10752
85	22590	18986	22348

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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>
<b>0.0</b>	1109.85	1109.85	1109.85	1109.85	1109.85
<b>2.5</b>	1116.85	1117.90	1108.80	1108.80	1115.80
<b>5.0</b>	1133.65	1134.00	1124.55	1123.15	1130.15
<b>7.5</b>	1157.45	1157.10	1149.75	1146.25	1152.20
<b>10.0</b>	1186.50	1187.20	1181.95	1176.00	1179.50
<b>12.5</b>	1219.40	1222.20	1218.35	1209.95	1209.95
<b>15.0</b>	1254.75	1260.70	1258.60	1247.75	1244.25
<b>17.5</b>	1292.20	1301.30	1300.95	1287.30	1280.30
<b>20.0</b>	1329.30	1341.55	1344.00	1326.85	1315.65
<b>22.5</b>	1365.35	1381.45	1386.70	1366.40	1349.60
<b>25.0</b>	1398.95	1418.90	1428.00	1404.20	1381.80
<b>27.5</b>	1429.05	1453.90	1467.20	1439.90	1411.20
<b>30.0</b>	1454.95	1485.05	1503.25	1471.75	1437.10
<b>32.5</b>	1474.90	1511.30	1534.75	1499.05	1458.10
<b>35.0</b>	1490.30	1532.65	1561.70	1522.15	1474.55
<b>37.5</b>	1500.80	1549.45	1583.75	1540.70	1487.50
<b>40.0</b>	1507.10	1561.70	1600.20	1554.70	1496.25
<b>42.5</b>	1510.60	1569.75	1611.75	1565.20	1502.55
<b>45.0</b>	1512.00	1574.30	1618.75	1572.55	1507.10
<b>47.5</b>	1512.70	1577.10	1623.30	1577.80	1510.60
<b>50.0</b>	1514.45	1579.20	1624.70	1582.00	1515.15
<b>52.5</b>	1516.55	1580.25	1624.00	1584.80	1519.70
<b>55.0</b>	1519.70	1582.00	1621.90	1587.60	1524.25
<b>57.5</b>	1525.30	1584.80	1619.45	1590.75	1531.60
<b>60.0</b>	1533.00	1589.70	1617.00	1596.35	1540.00
<b>62.5</b>	1543.50	1596.35	1615.60	1601.95	1550.50
<b>65.0</b>	1555.75	1604.75	1614.20	1608.60	1561.35
<b>67.5</b>	1568.35	1613.15	1612.10	1614.55	1571.85
<b>70.0</b>	1580.95	1620.50	1610.35	1619.45	1581.65
<b>72.5</b>	1589.00	1625.75	1606.85	1621.20	1586.90
<b>75.0</b>	1593.20	1627.50	1601.25	1619.10	1588.30
<b>77.5</b>	1592.50	1625.05	1591.80	1613.15	1584.80
<b>80.0</b>	1588.30	1619.10	1579.20	1603.00	1576.75
<b>82.5</b>	1578.15	1607.55	1562.40	1588.30	1564.15
<b>85.0</b>	1563.80	1591.45	1541.75	1569.75	1547.00
<b>87.5</b>	1547.00	1571.50	1519.35	1548.75	1527.40
<b>90.0</b>	1523.90	1547.35	1506.05	1545.95	1524.25
<b>92.5</b>	1521.80	1548.05	1523.20	1574.65	1553.30
<b>95.0</b>	1539.30	1566.60	1544.20	1595.30	1571.50
<b>97.5</b>	1553.30	1582.70	1564.50	1612.80	1587.25
<b>100.0</b>	1566.25	1597.05	1582.70	1626.80	1600.20
<b>102.5</b>	1576.75	1610.00	1599.15	1638.35	1610.35
<b>105.0</b>	1582.35	1617.35	1610.35	1644.65	1614.55
<b>107.5</b>	1582.00	1619.80	1617.70	1645.35	1612.80
<b>110.0</b>	1576.75	1618.05	1621.90	1641.85	1605.10
<b>112.5</b>	1568.35	1613.50	1623.65	1635.20	1594.25
<b>115.0</b>	1557.85	1607.20	1623.30	1626.45	1580.60
<b>117.5</b>	1546.65	1600.20	1623.30	1616.65	1566.60
<b>120.0</b>	1535.10	1592.50	1623.30	1607.20	1552.60
<b>122.5</b>	1524.95	1586.20	1623.65	1599.15	1540.00
<b>125.0</b>	1517.25	1581.65	1624.35	1592.50	1529.85
<b>127.5</b>	1511.30	1576.75	1623.65	1586.90	1521.80
<b>130.0</b>	1507.10	1572.55	1621.55	1582.70	1516.20
<b>132.5</b>	1505.00	1568.70	1618.75	1579.20	1513.40

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CANDELA TABULATION - (Cont.)

135.0	1502.20	1564.50	1613.50	1574.30	1510.25
137.5	1498.35	1557.50	1605.10	1567.30	1506.40
140.0	1492.75	1547.70	1592.85	1557.50	1500.45
142.5	1484.70	1534.75	1576.05	1544.20	1492.40
145.0	1472.80	1517.25	1554.35	1526.35	1480.50
147.5	1455.30	1494.85	1528.45	1503.25	1462.65
150.0	1432.90	1465.10	1496.25	1476.30	1439.90
152.5	1408.05	1431.85	1456.35	1444.45	1414.70
155.0	1380.75	1398.60	1414.70	1406.30	1385.65
157.5	1348.20	1365.70	1378.65	1368.50	1352.75
160.0	1315.65	1329.30	1342.25	1335.25	1319.50
162.5	1282.75	1289.40	1299.20	1296.75	1285.90
165.0	1247.75	1250.90	1257.90	1257.20	1249.50
167.5	1214.15	1214.50	1218.70	1220.10	1215.20
170.0	1183.00	1181.25	1183.00	1185.80	1183.70
172.5	1156.75	1153.25	1152.55	1156.75	1156.75
175.0	1134.70	1131.55	1128.75	1134.35	1134.70
177.5	1120.00	1117.20	1115.10	1120.35	1120.70
180.0	1114.75	1114.75	1114.75	1114.75	1114.75

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	467.55	N.A.	2.40
0-30	1121.42	N.A.	5.80
0-40	2078.05	N.A.	10.70
0-60	4708.8	N.A.	24.30
0-80	7993.24	N.A.	41.20
0-90	9699.18	N.A.	50.00
10-90	9589.74	N.A.	49.40
20-40	1610.5	N.A.	8.30
20-50	2824.54	N.A.	14.60
40-70	4215.52	N.A.	21.70
60-80	3284.44	N.A.	16.90
70-80	1699.67	N.A.	8.80
80-90	1705.94	N.A.	8.80
90-110	3414.22	N.A.	17.60
90-120	5008.56	N.A.	25.80
90-130	6427.08	N.A.	33.10
90-150	8590.41	N.A.	44.30
90-180	9708.23	N.A.	50.00
110-180	6294.01	N.A.	32.40
0-180	19407.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	109.43
10-20	358.12
20-30	653.86
30-40	956.63
40-50	1214.04
50-60	1416.71
60-70	1584.77
70-80	1699.67
80-90	1705.94
90-100	1706.87
100-110	1707.35
110-120	1594.34
120-130	1418.52
130-140	1210.71
140-150	952.62
150-160	650.16
160-170	357.92
170-180	109.74

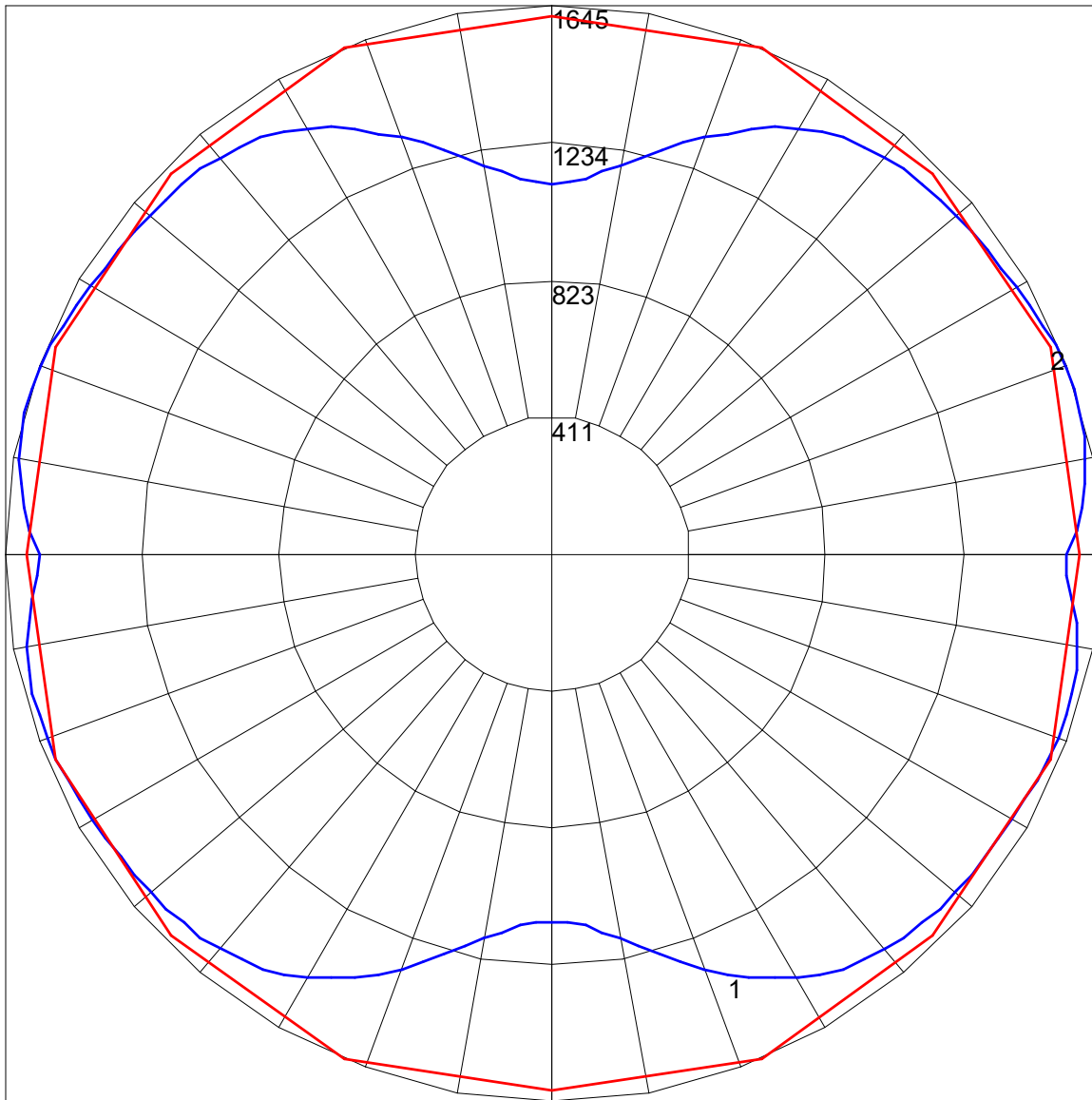
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1645.35 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.)