



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZES-PRO-44-LED4-HO-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	24952
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	200
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	5594	5846	5576
55	6760	6977	6781
65	9021	8921	9053
75	13866	12920	13823
85	29045	24411	28733

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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	1426.95	1426.95	1426.95	1426.95	1426.95
2.5	1435.95	1437.30	1425.60	1425.60	1434.60
5.0	1457.55	1458.00	1445.85	1444.05	1453.05
7.5	1488.15	1487.70	1478.25	1473.75	1481.40
10.0	1525.50	1526.40	1519.65	1512.00	1516.50
12.5	1567.80	1571.40	1566.45	1555.65	1555.65
15.0	1613.25	1620.90	1618.20	1604.25	1599.75
17.5	1661.40	1673.10	1672.65	1655.10	1646.10
20.0	1709.10	1724.85	1728.00	1705.95	1691.55
22.5	1755.45	1776.15	1782.90	1756.80	1735.20
25.0	1798.65	1824.30	1836.00	1805.40	1776.60
27.5	1837.35	1869.30	1886.40	1851.30	1814.40
30.0	1870.65	1909.35	1932.75	1892.25	1847.70
32.5	1896.30	1943.10	1973.25	1927.35	1874.70
35.0	1916.10	1970.55	2007.90	1957.05	1895.85
37.5	1929.60	1992.15	2036.25	1980.90	1912.50
40.0	1937.70	2007.90	2057.40	1998.90	1923.75
42.5	1942.20	2018.25	2072.25	2012.40	1931.85
45.0	1944.00	2024.10	2081.25	2021.85	1937.70
47.5	1944.90	2027.70	2087.10	2028.60	1942.20
50.0	1947.15	2030.40	2088.90	2034.00	1948.05
52.5	1949.85	2031.75	2088.00	2037.60	1953.90
55.0	1953.90	2034.00	2085.30	2041.20	1959.75
57.5	1961.10	2037.60	2082.15	2045.25	1969.20
60.0	1971.00	2043.90	2079.00	2052.45	1980.00
62.5	1984.50	2052.45	2077.20	2059.65	1993.50
65.0	2000.25	2063.25	2075.40	2068.20	2007.45
67.5	2016.45	2074.05	2072.70	2075.85	2020.95
70.0	2032.65	2083.50	2070.45	2082.15	2033.55
72.5	2043.00	2090.25	2065.95	2084.40	2040.30
75.0	2048.40	2092.50	2058.75	2081.70	2042.10
77.5	2047.50	2089.35	2046.60	2074.05	2037.60
80.0	2042.10	2081.70	2030.40	2061.00	2027.25
82.5	2029.05	2066.85	2008.80	2042.10	2011.05
85.0	2010.60	2046.15	1982.25	2018.25	1989.00
87.5	1989.00	2020.50	1953.45	1991.25	1963.80
90.0	1959.30	1989.45	1936.35	1987.65	1959.75
92.5	1956.60	1990.35	1958.40	2024.55	1997.10
95.0	1979.10	2014.20	1985.40	2051.10	2020.50
97.5	1997.10	2034.90	2011.50	2073.60	2040.75
100.0	2013.75	2053.35	2034.90	2091.60	2057.40
102.5	2027.25	2070.00	2056.05	2106.45	2070.45
105.0	2034.45	2079.45	2070.45	2114.55	2075.85
107.5	2034.00	2082.60	2079.90	2115.45	2073.60
110.0	2027.25	2080.35	2085.30	2110.95	2063.70
112.5	2016.45	2074.50	2087.55	2102.40	2049.75
115.0	2002.95	2066.40	2087.10	2091.15	2032.20
117.5	1988.55	2057.40	2087.10	2078.55	2014.20
120.0	1973.70	2047.50	2087.10	2066.40	1996.20
122.5	1960.65	2039.40	2087.55	2056.05	1980.00
125.0	1950.75	2033.55	2088.45	2047.50	1966.95
127.5	1943.10	2027.25	2087.55	2040.30	1956.60
130.0	1937.70	2021.85	2084.85	2034.90	1949.40
132.5	1935.00	2016.90	2081.25	2030.40	1945.80

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CANDELA TABULATION - (Cont.)

135.0	1931.40	2011.50	2074.50	2024.10	1941.75
137.5	1926.45	2002.50	2063.70	2015.10	1936.80
140.0	1919.25	1989.90	2047.95	2002.50	1929.15
142.5	1908.90	1973.25	2026.35	1985.40	1918.80
145.0	1893.60	1950.75	1998.45	1962.45	1903.50
147.5	1871.10	1921.95	1965.15	1932.75	1880.55
150.0	1842.30	1883.70	1923.75	1898.10	1851.30
152.5	1810.35	1840.95	1872.45	1857.15	1818.90
155.0	1775.25	1798.20	1818.90	1808.10	1781.55
157.5	1733.40	1755.90	1772.55	1759.50	1739.25
160.0	1691.55	1709.10	1725.75	1716.75	1696.50
162.5	1649.25	1657.80	1670.40	1667.25	1653.30
165.0	1604.25	1608.30	1617.30	1616.40	1606.50
167.5	1561.05	1561.50	1566.90	1568.70	1562.40
170.0	1521.00	1518.75	1521.00	1524.60	1521.90
172.5	1487.25	1482.75	1481.85	1487.25	1487.25
175.0	1458.90	1454.85	1451.25	1458.45	1458.90
177.5	1440.00	1436.40	1433.70	1440.45	1440.90
180.0	1433.25	1433.25	1433.25	1433.25	1433.25

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	601.14	N.A.	2.40
0-30	1441.82	N.A.	5.80
0-40	2671.78	N.A.	10.70
0-60	6054.18	N.A.	24.30
0-80	10277.03	N.A.	41.20
0-90	12470.37	N.A.	50.00
10-90	12329.67	N.A.	49.40
20-40	2070.64	N.A.	8.30
20-50	3631.55	N.A.	14.60
40-70	5419.95	N.A.	21.70
60-80	4222.85	N.A.	16.90
70-80	2185.29	N.A.	8.80
80-90	2193.35	N.A.	8.80
90-110	4389.71	N.A.	17.60
90-120	6439.57	N.A.	25.80
90-130	8263.39	N.A.	33.10
90-150	11044.81	N.A.	44.30
90-180	12482.00	N.A.	50.00
110-180	8092.29	N.A.	32.40
0-180	24952.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	140.70
10-20	460.44
20-30	840.68
30-40	1229.96
40-50	1560.91
50-60	1821.48
60-70	2037.56
70-80	2185.29
80-90	2193.35
90-100	2194.54
100-110	2195.17
110-120	2049.86
120-130	1823.81
130-140	1556.63
140-150	1224.8
150-160	835.92
160-170	460.18
170-180	141.09

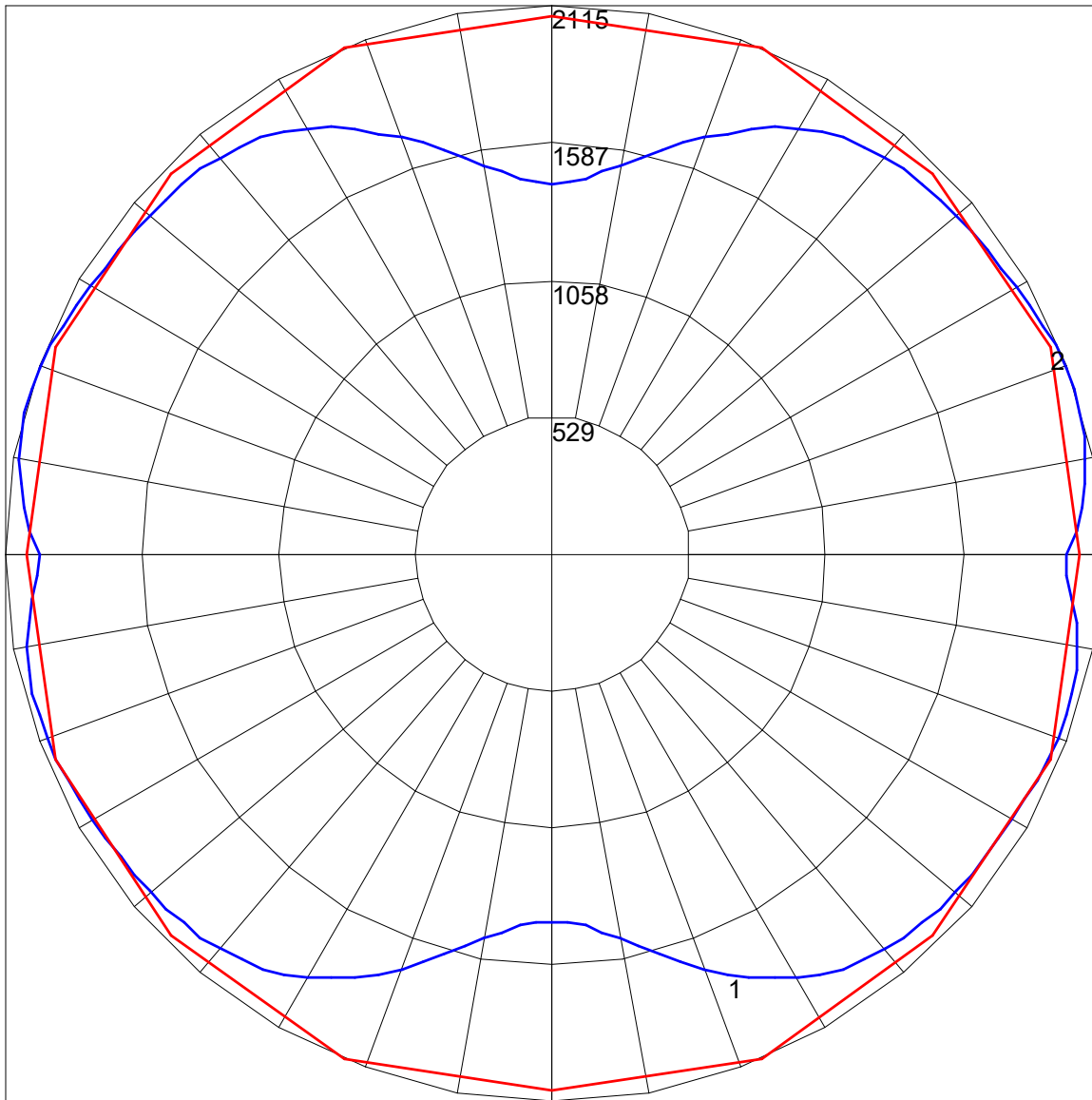
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2115.45 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.)