



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZES-22-LED4-MO.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]31978  
 [TESTLAB]LIGHTING SCIENCES, INC.  
 [ISSUE DATE] 8/ 8/2013  
 [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	4990
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	44
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	1119	1169	1115
55	1352	1395	1356
65	1804	1784	1811
75	2773	2584	2765
85	5809	4882	5747

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**CANDELA TABULATION**

	<b>0.0</b>	<b>22.5</b>	<b>45.0</b>	<b>67.5</b>	<b>90.0</b>
<b>0.0</b>	285.39	285.39	285.39	285.39	285.39
<b>2.5</b>	287.19	287.46	285.12	285.12	286.92
<b>5.0</b>	291.51	291.60	289.17	288.81	290.61
<b>7.5</b>	297.63	297.54	295.65	294.75	296.28
<b>10.0</b>	305.10	305.28	303.93	302.40	303.30
<b>12.5</b>	313.56	314.28	313.29	311.13	311.13
<b>15.0</b>	322.65	324.18	323.64	320.85	319.95
<b>17.5</b>	332.28	334.62	334.53	331.02	329.22
<b>20.0</b>	341.82	344.97	345.60	341.19	338.31
<b>22.5</b>	351.09	355.23	356.58	351.36	347.04
<b>25.0</b>	359.73	364.86	367.20	361.08	355.32
<b>27.5</b>	367.47	373.86	377.28	370.26	362.88
<b>30.0</b>	374.13	381.87	386.55	378.45	369.54
<b>32.5</b>	379.26	388.62	394.65	385.47	374.94
<b>35.0</b>	383.22	394.11	401.58	391.41	379.17
<b>37.5</b>	385.92	398.43	407.25	396.18	382.50
<b>40.0</b>	387.54	401.58	411.48	399.78	384.75
<b>42.5</b>	388.44	403.65	414.45	402.48	386.37
<b>45.0</b>	388.80	404.82	416.25	404.37	387.54
<b>47.5</b>	388.98	405.54	417.42	405.72	388.44
<b>50.0</b>	389.43	406.08	417.78	406.80	389.61
<b>52.5</b>	389.97	406.35	417.60	407.52	390.78
<b>55.0</b>	390.78	406.80	417.06	408.24	391.95
<b>57.5</b>	392.22	407.52	416.43	409.05	393.84
<b>60.0</b>	394.20	408.78	415.80	410.49	396.00
<b>62.5</b>	396.90	410.49	415.44	411.93	398.70
<b>65.0</b>	400.05	412.65	415.08	413.64	401.49
<b>67.5</b>	403.29	414.81	414.54	415.17	404.19
<b>70.0</b>	406.53	416.70	414.09	416.43	406.71
<b>72.5</b>	408.60	418.05	413.19	416.88	408.06
<b>75.0</b>	409.68	418.50	411.75	416.34	408.42
<b>77.5</b>	409.50	417.87	409.32	414.81	407.52
<b>80.0</b>	408.42	416.34	406.08	412.20	405.45
<b>82.5</b>	405.81	413.37	401.76	408.42	402.21
<b>85.0</b>	402.12	409.23	396.45	403.65	397.80
<b>87.5</b>	397.80	404.10	390.69	398.25	392.76
<b>90.0</b>	391.86	397.89	387.27	397.53	391.95
<b>92.5</b>	391.32	398.07	391.68	404.91	399.42
<b>95.0</b>	395.82	402.84	397.08	410.22	404.10
<b>97.5</b>	399.42	406.98	402.30	414.72	408.15
<b>100.0</b>	402.75	410.67	406.98	418.32	411.48
<b>102.5</b>	405.45	414.00	411.21	421.29	414.09
<b>105.0</b>	406.89	415.89	414.09	422.91	415.17
<b>107.5</b>	406.80	416.52	415.98	423.09	414.72
<b>110.0</b>	405.45	416.07	417.06	422.19	412.74
<b>112.5</b>	403.29	414.90	417.51	420.48	409.95
<b>115.0</b>	400.59	413.28	417.42	418.23	406.44
<b>117.5</b>	397.71	411.48	417.42	415.71	402.84
<b>120.0</b>	394.74	409.50	417.42	413.28	399.24
<b>122.5</b>	392.13	407.88	417.51	411.21	396.00
<b>125.0</b>	390.15	406.71	417.69	409.50	393.39
<b>127.5</b>	388.62	405.45	417.51	408.06	391.32
<b>130.0</b>	387.54	404.37	416.97	406.98	389.88
<b>132.5</b>	387.00	403.38	416.25	406.08	389.16

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	386.28	402.30	414.90	404.82	388.35
<b>137.5</b>	385.29	400.50	412.74	403.02	387.36
<b>140.0</b>	383.85	397.98	409.59	400.50	385.83
<b>142.5</b>	381.78	394.65	405.27	397.08	383.76
<b>145.0</b>	378.72	390.15	399.69	392.49	380.70
<b>147.5</b>	374.22	384.39	393.03	386.55	376.11
<b>150.0</b>	368.46	376.74	384.75	379.62	370.26
<b>152.5</b>	362.07	368.19	374.49	371.43	363.78
<b>155.0</b>	355.05	359.64	363.78	361.62	356.31
<b>157.5</b>	346.68	351.18	354.51	351.90	347.85
<b>160.0</b>	338.31	341.82	345.15	343.35	339.30
<b>162.5</b>	329.85	331.56	334.08	333.45	330.66
<b>165.0</b>	320.85	321.66	323.46	323.28	321.30
<b>167.5</b>	312.21	312.30	313.38	313.74	312.48
<b>170.0</b>	304.20	303.75	304.20	304.92	304.38
<b>172.5</b>	297.45	296.55	296.37	297.45	297.45
<b>175.0</b>	291.78	290.97	290.25	291.69	291.78
<b>177.5</b>	288.00	287.28	286.74	288.09	288.18
<b>180.0</b>	286.65	286.65	286.65	286.65	286.65

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	120.23	N.A.	2.40
0-30	288.36	N.A.	5.80
0-40	534.36	N.A.	10.70
0-60	1210.84	N.A.	24.30
0-80	2055.41	N.A.	41.20
0-90	2494.07	N.A.	50.00
10-90	2465.93	N.A.	49.40
20-40	414.13	N.A.	8.30
20-50	726.31	N.A.	14.60
40-70	1083.99	N.A.	21.70
60-80	844.57	N.A.	16.90
70-80	437.06	N.A.	8.80
80-90	438.67	N.A.	8.80
90-110	877.94	N.A.	17.60
90-120	1287.91	N.A.	25.80
90-130	1652.68	N.A.	33.10
90-150	2208.96	N.A.	44.30
90-180	2496.4	N.A.	50.00
110-180	1618.46	N.A.	32.40
0-180	4990.48	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	28.14
10-20	92.09
20-30	168.14
30-40	245.99
40-50	312.18
50-60	364.30
60-70	407.51
70-80	437.06
80-90	438.67
90-100	438.91
100-110	439.03
110-120	409.97
120-130	364.76
130-140	311.33
140-150	244.96
150-160	167.18
160-170	92.04
170-180	28.22

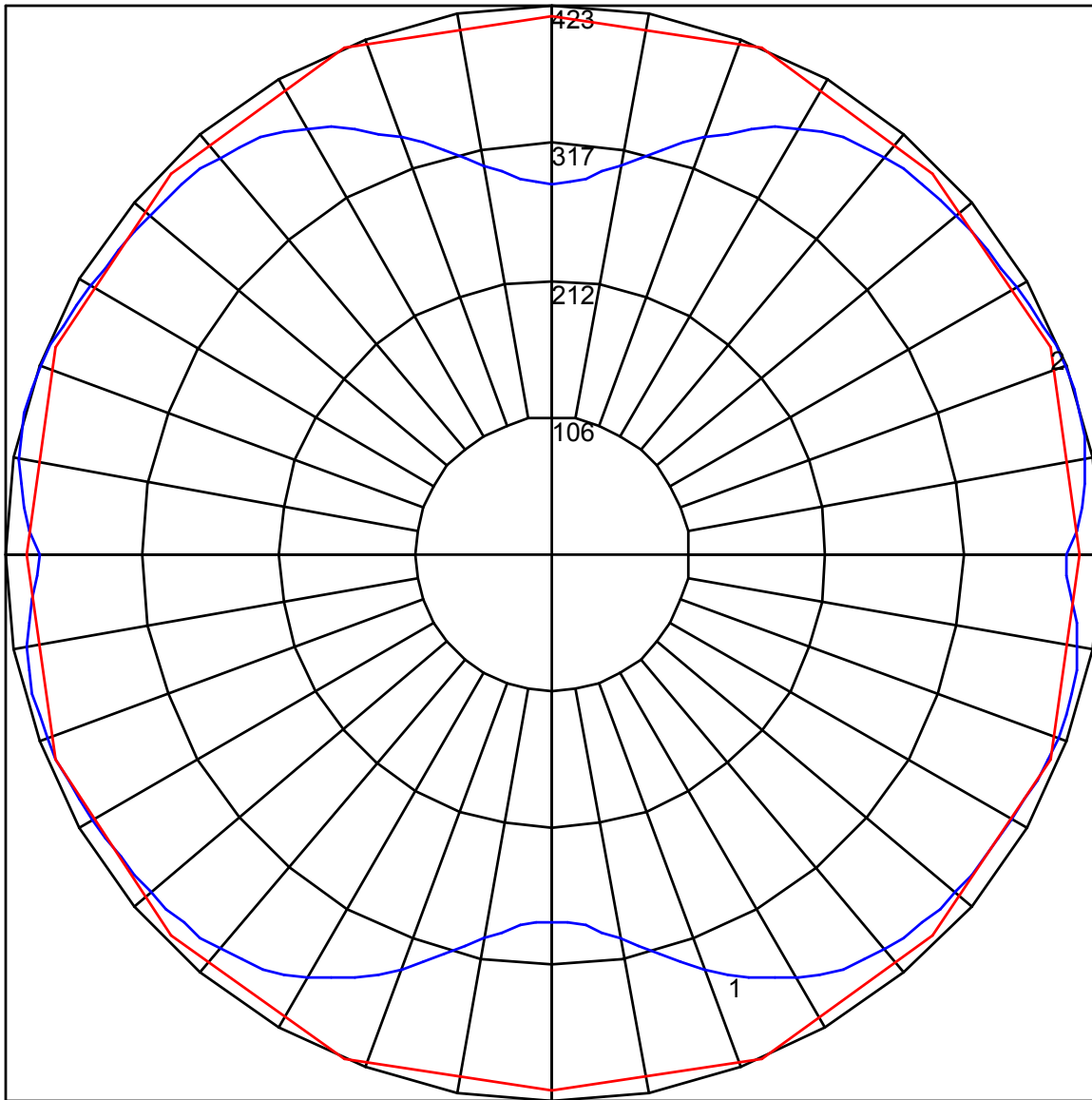
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	32	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 = 423.09 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.)