



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZUS-22-LED4-SO.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L101409101  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUE DATE] 10/30/2014  
 [MANUFACT] PRUDENTIAL LTG.  
 [LUMCAT] ZDS-22-LED4SO  
 [LUMINAIRE] 26"SQ. X 3"H. LED LUMINAIRE  
 [MORE] DIFFUSED LENS  
 [BALLASTCAT] OSRAM OPTOTRONIC  
 [BALLAST] INPUT: 120-277VAC  
 [LAMPPOSITION] 0,0  
 [LAMPCAT] N/A  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
 [ INPUT] 120VAC.  
 [ \_TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7002
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	72
Ballast Factor	1.00
CIE Type	Semi-Indirect
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)	2.17 ft
Luminous Width (90-270)	2.17 ft
Luminous Height	0.10 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	287	351	282
55	396	505	396
65	601	796	641
75	969	1215	1068
85	2658	2692	1986

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**CANDELA TABULATION**

	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>
<b>0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>5</b>	34.23	34.23	34.23	34.23	34.23	34.23	32.60	32.60	32.60	32.60
<b>10</b>	39.12	39.12	40.75	40.75	40.75	40.75	39.12	39.12	39.12	39.12
<b>15</b>	47.27	47.27	47.27	47.27	48.90	48.90	48.90	48.90	48.90	48.90
<b>20</b>	53.79	53.79	53.79	55.42	55.42	57.05	58.68	58.68	60.31	60.31
<b>25</b>	60.31	61.94	61.94	63.57	65.20	66.83	66.83	66.83	68.46	68.46
<b>30</b>	68.46	68.46	70.09	73.35	74.98	76.61	78.24	78.24	78.24	78.24
<b>35</b>	78.24	79.87	81.50	83.13	84.76	88.02	89.65	89.65	91.28	91.28
<b>40</b>	84.76	86.39	88.02	92.91	96.17	99.43	101.06	102.69	104.32	105.95
<b>45</b>	92.91	94.54	97.80	101.06	104.32	107.58	112.47	115.73	117.36	115.73
<b>50</b>	97.80	99.43	102.69	107.58	112.47	117.36	120.62	123.88	125.51	127.14
<b>55</b>	105.95	107.58	110.84	115.73	120.62	127.14	132.03	135.29	136.92	138.55
<b>60</b>	117.36	118.99	123.88	128.77	133.66	138.55	143.44	148.33	151.59	151.59
<b>65</b>	122.25	123.88	130.40	138.55	145.07	153.22	158.11	163.00	166.26	167.89
<b>70</b>	101.06	104.32	112.47	122.25	133.66	145.07	156.48	166.26	174.41	177.67
<b>75</b>	128.77	132.03	136.92	143.44	151.59	156.48	161.37	163.00	164.63	171.15
<b>80</b>	166.26	166.26	171.15	177.67	184.19	190.71	195.60	198.86	200.49	195.60
<b>85</b>	154.85	156.48	159.74	166.26	172.78	177.67	182.56	184.19	182.56	179.30
<b>90</b>	143.44	145.07	149.96	158.11	166.26	172.78	179.30	185.82	187.45	187.45
<b>95</b>	301.55	304.81	311.33	319.48	329.26	339.04	347.19	353.71	356.97	356.97
<b>100</b>	407.50	412.39	423.80	435.21	448.25	461.29	471.07	477.59	482.48	480.85
<b>105</b>	534.64	539.53	550.94	562.35	575.39	586.80	594.95	601.47	604.73	603.10
<b>110</b>	676.45	679.71	691.12	700.90	710.68	718.83	725.35	730.24	731.87	728.61
<b>115</b>	818.26	821.52	831.30	839.45	847.60	852.49	854.12	855.75	854.12	850.86
<b>120</b>	955.18	956.81	966.59	971.48	974.74	974.74	974.74	973.11	969.85	966.59
<b>125</b>	1067.65	1069.28	1075.80	1079.06	1079.06	1077.43	1072.54	1069.28	1064.39	1062.76
<b>130</b>	1181.75	1181.75	1186.64	1188.27	1188.27	1183.38	1178.49	1173.60	1168.71	1165.45
<b>135</b>	1290.96	1290.96	1295.85	1295.85	1294.22	1289.33	1282.81	1279.55	1274.66	1271.40
<b>140</b>	1398.54	1400.17	1401.80	1403.43	1401.80	1396.91	1393.65	1390.39	1385.50	1385.50
<b>145</b>	1507.75	1509.38	1512.64	1514.27	1514.27	1512.64	1509.38	1507.75	1506.12	1506.12
<b>150</b>	1625.11	1625.11	1626.74	1630.00	1631.63	1633.26	1631.63	1633.26	1631.63	1631.63
<b>155</b>	1744.10	1744.10	1745.73	1748.99	1752.25	1753.88	1753.88	1755.51	1755.51	1755.51
<b>160</b>	1861.46	1859.83	1859.83	1859.83	1863.09	1866.35	1867.98	1867.98	1867.98	1869.61
<b>165</b>	1954.37	1956.00	1954.37	1954.37	1959.26	1962.52	1962.52	1962.52	1962.52	1962.52
<b>170</b>	2022.83	2021.20	2022.83	2022.83	2024.46	2024.46	2022.83	2022.83	2022.83	2024.46
<b>175</b>	2058.69	2058.69	2058.69	2058.69	2060.32	2060.32	2058.69	2057.06	2057.06	2057.06
<b>180</b>	2068.47	2068.47	2068.47	2068.47	2068.47	2068.47	2068.47	2068.47	2068.47	2068.47

**Vert.  
Angles**

**Horizontal Angles**

	<b>50</b>	<b>55</b>	<b>60</b>	<b>65</b>	<b>70</b>	<b>75</b>	<b>80</b>	<b>85</b>	<b>90</b>
<b>0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>5</b>	32.60	32.60	32.60	34.23	34.23	34.23	34.23	34.23	34.23
<b>10</b>	39.12	39.12	39.12	39.12	39.12	39.12	39.12	39.12	39.12
<b>15</b>	48.90	48.90	48.90	48.90	47.27	47.27	47.27	47.27	45.64
<b>20</b>	60.31	58.68	58.68	57.05	55.42	55.42	53.79	53.79	52.16
<b>25</b>	68.46	66.83	66.83	65.20	65.20	63.57	61.94	60.31	60.31
<b>30</b>	78.24	78.24	76.61	74.98	74.98	71.72	70.09	68.46	68.46
<b>35</b>	91.28	89.65	89.65	86.39	84.76	83.13	79.87	78.24	76.61
<b>40</b>	104.32	102.69	101.06	99.43	96.17	91.28	88.02	84.76	83.13
<b>45</b>	117.36	115.73	112.47	109.21	104.32	99.43	96.17	92.91	91.28
<b>50</b>	127.14	125.51	122.25	118.99	112.47	107.58	102.69	99.43	96.17
<b>55</b>	138.55	136.92	133.66	128.77	123.88	117.36	112.47	107.58	105.95
<b>60</b>	151.59	149.96	145.07	141.81	136.92	130.40	125.51	120.62	118.99

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	167.89	166.26	163.00	158.11	151.59	143.44	136.92	132.03	130.40
<b>70</b>	177.67	177.67	174.41	167.89	159.74	151.59	143.44	136.92	135.29
<b>75</b>	176.04	180.93	177.67	172.78	164.63	156.48	148.33	143.44	141.81
<b>80</b>	189.08	180.93	174.41	171.15	167.89	161.37	156.48	151.59	149.96
<b>85</b>	172.78	164.63	154.85	146.70	138.55	130.40	122.25	117.36	115.73
<b>90</b>	185.82	180.93	174.41	164.63	156.48	146.70	138.55	133.66	132.03
<b>95</b>	352.08	343.93	334.15	321.11	308.07	295.03	283.62	275.47	272.21
<b>100</b>	475.96	466.18	453.14	438.47	422.17	405.87	389.57	378.16	373.27
<b>105</b>	598.21	588.43	575.39	560.72	544.42	528.12	513.45	500.41	495.52
<b>110</b>	723.72	715.57	704.16	692.75	679.71	665.04	652.00	638.96	634.07
<b>115</b>	847.60	841.08	834.56	826.41	816.63	805.22	793.81	782.40	779.14
<b>120</b>	963.33	960.07	956.81	953.55	948.66	942.14	933.99	924.21	922.58
<b>125</b>	1061.13	1059.50	1059.50	1059.50	1059.50	1056.24	1051.35	1043.20	1041.57
<b>130</b>	1165.45	1167.08	1170.34	1173.60	1175.23	1175.23	1171.97	1167.08	1165.45
<b>135</b>	1273.03	1276.29	1281.18	1284.44	1289.33	1290.96	1289.33	1286.07	1286.07
<b>140</b>	1387.13	1388.76	1393.65	1398.54	1401.80	1405.06	1403.43	1401.80	1401.80
<b>145</b>	1507.75	1511.01	1512.64	1517.53	1519.16	1519.16	1517.53	1515.90	1515.90
<b>150</b>	1633.26	1636.52	1636.52	1638.15	1639.78	1636.52	1633.26	1631.63	1633.26
<b>155</b>	1757.14	1758.77	1758.77	1757.14	1757.14	1753.88	1753.88	1752.25	1752.25
<b>160</b>	1869.61	1869.61	1871.24	1869.61	1866.35	1863.09	1864.72	1866.35	1867.98
<b>165</b>	1962.52	1962.52	1964.15	1964.15	1960.89	1959.26	1957.63	1957.63	1957.63
<b>170</b>	2022.83	2024.46	2024.46	2026.09	2026.09	2026.09	2026.09	2024.46	2024.46
<b>175</b>	2057.06	2058.69	2060.32	2061.95	2061.95	2060.32	2060.32	2060.32	2060.32
<b>180</b>	2068.47	2068.47	2068.47	2068.47	2068.47	2068.47	2068.47	2068.47	2068.47

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	16.85	N.A.	0.20
0-30	47.22	N.A.	0.70
0-40	101.06	N.A.	1.40
0-60	294.76	N.A.	4.20
0-80	610.18	N.A.	8.70
0-90	789.45	N.A.	11.30
10-90	786.44	N.A.	11.20
20-40	84.21	N.A.	1.20
20-50	166.01	N.A.	2.40
40-70	339.12	N.A.	4.80
60-80	315.41	N.A.	4.50
70-80	170.00	N.A.	2.40
80-90	179.27	N.A.	2.60
90-110	938.57	N.A.	13.40
90-120	1760.32	N.A.	25.10
90-130	2714.72	N.A.	38.80
90-150	4656.98	N.A.	66.50
90-180	6212.21	N.A.	88.70
110-180	5273.64	N.A.	75.30
0-180	7001.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	3.02
10-20	13.83
20-30	30.38
30-40	53.84
40-50	81.80
50-60	111.91
60-70	145.41
70-80	170.00
80-90	179.27
90-100	340.70
100-110	597.87
110-120	821.75
120-130	954.40
130-140	993.73
140-150	948.53
150-160	808.15
160-170	551.66
170-180	195.42

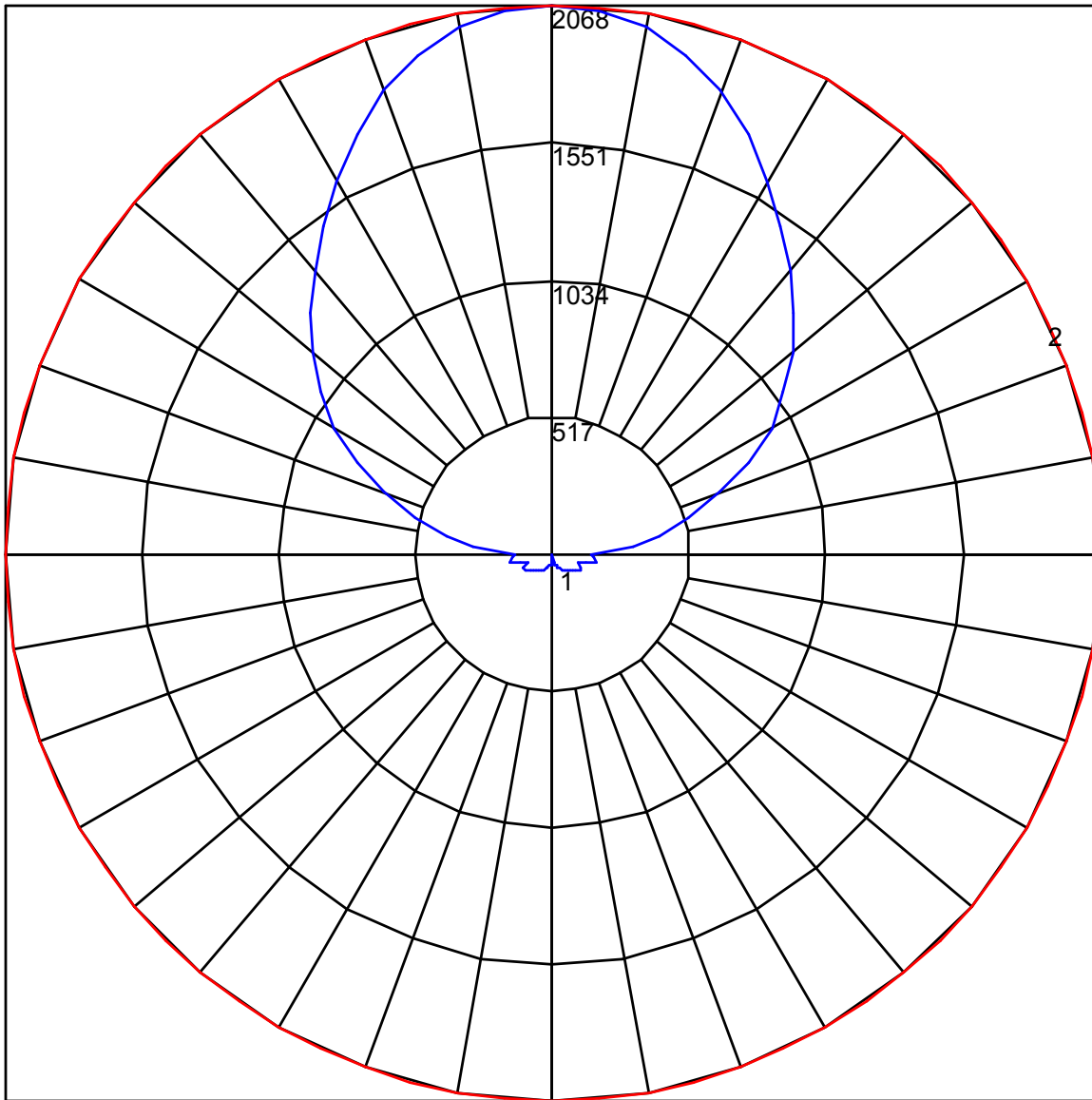
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	98	98	98	98	85	85	85	85	62	62	62	40	40	40	21	21	21	11
1	88	83	79	75	76	72	69	66	52	50	48	33	32	31	16	15	15	7
2	79	72	66	60	69	62	57	53	45	41	38	28	26	25	13	12	11	5
3	72	63	55	49	62	54	48	43	39	35	32	25	22	20	11	10	9	3
4	66	55	47	41	57	48	41	36	34	30	26	22	19	17	10	9	7	3
5	60	49	41	35	52	42	36	31	30	26	22	19	16	14	9	7	6	2
6	55	43	35	30	47	38	31	26	27	22	19	17	14	12	8	6	5	2
7	50	39	31	26	44	34	27	22	24	20	16	15	13	10	7	6	5	1
8	47	35	27	22	40	30	24	20	22	17	14	14	11	9	6	5	4	1
9	43	31	24	19	37	27	21	17	20	15	12	13	10	8	6	4	3	1
10	40	29	22	17	35	25	19	15	18	14	11	11	9	7	5	4	3	1

POLAR GRAPH



Maximum Candela = 2068.47 Located At Horizontal Angle = 0, Vertical Angle = 180  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)