



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZDS-PRO-22-LED4-SO.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L101403501  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUE DATE] 10/20/2014  
 [MANUFAC] PRUDENTIAL LTG.  
 [LUMCAT] ZDS-22-LED4-SO  
 [LUMINAIRE] 26"SQ. X 3"H. LED LUMINAIRE  
 [MORE] DIFFUSED LENS  
 [BALLASTCAT] OSRAM OPTOTRONIC  
 [BALLAST] INPUT: 120-277VAC, 0.52-0.24A,  
 [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	9665
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	76
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
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	5502	5321	5481
55	5505	5344	5371
65	5555	5568	5289
75	5556	5909	5150
85	7144	7399	6449

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**CANDELA TABULATION**

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
<b>0</b>	2855.25	2855.25	2855.25	2855.25	2855.25	2855.25	2855.25	2855.25	2855.25	2855.25
<b>5</b>	2841.75	2841.75	2841.75	2841.75	2844.00	2844.00	2841.75	2839.50	2839.50	2839.50
<b>10</b>	2792.25	2790.00	2792.25	2792.25	2794.50	2794.50	2792.25	2792.25	2792.25	2794.50
<b>15</b>	2697.75	2700.00	2697.75	2697.75	2704.50	2709.00	2709.00	2709.00	2709.00	2709.00
<b>20</b>	2569.50	2567.25	2567.25	2567.25	2571.75	2576.25	2578.50	2578.50	2578.50	2580.75
<b>25</b>	2407.50	2407.50	2409.75	2414.25	2418.75	2421.00	2421.00	2423.25	2423.25	2423.25
<b>30</b>	2243.25	2243.25	2245.50	2250.00	2252.25	2254.50	2252.25	2254.50	2252.25	2252.25
<b>35</b>	2081.25	2083.50	2088.00	2090.25	2090.25	2088.00	2083.50	2081.25	2079.00	2079.00
<b>40</b>	1930.50	1932.75	1935.00	1937.25	1935.00	1928.25	1923.75	1919.25	1912.50	1912.50
<b>45</b>	1782.00	1782.00	1788.75	1788.75	1786.50	1779.75	1770.75	1766.25	1759.50	1755.00
<b>50</b>	1631.25	1631.25	1638.00	1640.25	1640.25	1633.50	1626.75	1620.00	1613.25	1608.75
<b>55</b>	1473.75	1476.00	1485.00	1489.50	1489.50	1487.25	1480.50	1476.00	1469.25	1467.00
<b>60</b>	1318.50	1320.75	1334.25	1341.00	1345.50	1345.50	1345.50	1343.25	1338.75	1334.25
<b>65</b>	1129.50	1134.00	1147.50	1158.75	1170.00	1176.75	1179.00	1181.25	1179.00	1174.50
<b>70</b>	933.75	938.25	954.00	967.50	981.00	992.25	1001.25	1008.00	1010.25	1005.75
<b>75</b>	738.00	744.75	760.50	776.25	794.25	810.00	821.25	830.25	834.75	832.50
<b>80</b>	562.50	569.25	585.00	600.75	618.75	636.75	650.25	659.25	666.00	663.75
<b>85</b>	416.25	420.75	429.75	441.00	454.50	468.00	479.25	488.25	492.75	492.75
<b>90</b>	198.00	200.25	207.00	218.25	229.50	238.50	247.50	256.50	258.75	258.75
<b>95</b>	213.75	216.00	220.50	229.50	238.50	245.25	252.00	254.25	252.00	247.50
<b>100</b>	229.50	229.50	236.25	245.25	254.25	263.25	270.00	274.50	276.75	270.00
<b>105</b>	177.75	182.25	189.00	198.00	209.25	216.00	222.75	225.00	227.25	236.25
<b>110</b>	139.50	144.00	155.25	168.75	184.50	200.25	216.00	229.50	240.75	245.25
<b>115</b>	168.75	171.00	180.00	191.25	200.25	211.50	218.25	225.00	229.50	231.75
<b>120</b>	162.00	164.25	171.00	177.75	184.50	191.25	198.00	204.75	209.25	209.25
<b>125</b>	146.25	148.50	153.00	159.75	166.50	175.50	182.25	186.75	189.00	191.25
<b>130</b>	135.00	137.25	141.75	148.50	155.25	162.00	166.50	171.00	173.25	175.50
<b>135</b>	128.25	130.50	135.00	139.50	144.00	148.50	155.25	159.75	162.00	159.75
<b>140</b>	117.00	119.25	121.50	128.25	132.75	137.25	139.50	141.75	144.00	146.25
<b>145</b>	108.00	110.25	112.50	114.75	117.00	121.50	123.75	123.75	126.00	126.00
<b>150</b>	94.50	94.50	96.75	101.25	103.50	105.75	108.00	108.00	108.00	108.00
<b>155</b>	83.25	85.50	85.50	87.75	90.00	92.25	92.25	92.25	94.50	94.50
<b>160</b>	74.25	74.25	74.25	76.50	76.50	78.75	81.00	81.00	83.25	83.25
<b>165</b>	65.25	65.25	65.25	65.25	67.50	67.50	67.50	67.50	67.50	67.50
<b>170</b>	54.00	54.00	56.25	56.25	56.25	56.25	54.00	54.00	54.00	54.00
<b>175</b>	47.25	47.25	47.25	47.25	47.25	47.25	45.00	45.00	45.00	45.00
<b>180</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert.  
Angles**

**Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
<b>0</b>	2855.25	2855.25	2855.25	2855.25	2855.25	2855.25	2855.25	2855.25	2855.25
<b>5</b>	2839.50	2841.75	2844.00	2846.25	2846.25	2844.00	2844.00	2844.00	2844.00
<b>10</b>	2792.25	2794.50	2794.50	2796.75	2796.75	2796.75	2796.75	2794.50	2794.50
<b>15</b>	2709.00	2709.00	2711.25	2711.25	2706.75	2704.50	2702.25	2702.25	2702.25
<b>20</b>	2580.75	2580.75	2583.00	2580.75	2576.25	2571.75	2574.00	2576.25	2578.50
<b>25</b>	2425.50	2427.75	2427.75	2425.50	2425.50	2421.00	2421.00	2418.75	2418.75
<b>30</b>	2254.50	2259.00	2259.00	2261.25	2263.50	2259.00	2254.50	2252.25	2254.50
<b>35</b>	2081.25	2085.75	2088.00	2094.75	2097.00	2097.00	2094.75	2092.50	2092.50
<b>40</b>	1914.75	1917.00	1923.75	1930.50	1935.00	1939.50	1937.25	1935.00	1935.00
<b>45</b>	1757.25	1761.75	1768.50	1773.00	1779.75	1782.00	1779.75	1775.25	1775.25
<b>50</b>	1608.75	1611.00	1615.50	1620.00	1622.25	1622.25	1617.75	1611.00	1608.75
<b>55</b>	1464.75	1462.50	1462.50	1462.50	1462.50	1458.00	1451.25	1440.00	1437.75
<b>60</b>	1329.75	1325.25	1320.75	1316.25	1309.50	1300.50	1289.25	1275.75	1273.50

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	1170.00	1161.00	1152.00	1140.75	1127.25	1111.50	1095.75	1080.00	1075.50
<b>70</b>	999.00	987.75	972.00	956.25	938.25	918.00	900.00	882.00	875.25
<b>75</b>	825.75	812.25	794.25	774.00	751.50	729.00	708.75	690.75	684.00
<b>80</b>	657.00	643.50	625.50	605.25	582.75	560.25	537.75	522.00	515.25
<b>85</b>	486.00	474.75	461.25	443.25	425.25	407.25	391.50	380.25	375.75
<b>90</b>	256.50	249.75	240.75	227.25	216.00	202.50	191.25	184.50	182.25
<b>95</b>	238.50	227.25	213.75	202.50	191.25	180.00	168.75	162.00	159.75
<b>100</b>	261.00	249.75	240.75	236.25	231.75	222.75	216.00	209.25	207.00
<b>105</b>	243.00	249.75	245.25	238.50	227.25	216.00	204.75	198.00	195.75
<b>110</b>	245.25	245.25	240.75	231.75	220.50	209.25	198.00	189.00	186.75
<b>115</b>	231.75	229.50	225.00	218.25	209.25	198.00	189.00	182.25	180.00
<b>120</b>	209.25	207.00	200.25	195.75	189.00	180.00	173.25	166.50	164.25
<b>125</b>	191.25	189.00	184.50	177.75	171.00	162.00	155.25	148.50	146.25
<b>130</b>	175.50	173.25	168.75	164.25	155.25	148.50	141.75	137.25	132.75
<b>135</b>	162.00	159.75	155.25	150.75	144.00	137.25	132.75	128.25	126.00
<b>140</b>	144.00	141.75	139.50	137.25	132.75	126.00	121.50	117.00	114.75
<b>145</b>	126.00	123.75	123.75	119.25	117.00	114.75	110.25	108.00	105.75
<b>150</b>	108.00	108.00	105.75	103.50	103.50	99.00	96.75	94.50	94.50
<b>155</b>	94.50	92.25	92.25	90.00	90.00	87.75	85.50	83.25	83.25
<b>160</b>	83.25	81.00	81.00	78.75	76.50	76.50	74.25	74.25	72.00
<b>165</b>	67.50	67.50	67.50	67.50	65.25	65.25	65.25	65.25	63.00
<b>170</b>	54.00	54.00	54.00	54.00	54.00	54.00	54.00	54.00	54.00
<b>175</b>	45.00	45.00	45.00	47.25	47.25	47.25	47.25	47.25	47.25
<b>180</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1031.24	N.A.	10.70
0-30	2146.78	N.A.	22.20
0-40	3456.1	N.A.	35.80
0-60	6145.24	N.A.	63.60
0-80	8104.84	N.A.	83.90
0-90	8575.13	N.A.	88.70
10-90	8305.38	N.A.	85.90
20-40	2424.86	N.A.	25.10
20-50	3796.58	N.A.	39.30
40-70	3823.46	N.A.	39.60
60-80	1959.6	N.A.	20.30
70-80	825.28	N.A.	8.50
80-90	470.30	N.A.	4.90
90-110	482.12	N.A.	5.00
90-120	682.85	N.A.	7.10
90-130	837.32	N.A.	8.70
90-150	1024.55	N.A.	10.60
90-180	1089.73	N.A.	11.30
110-180	607.61	N.A.	6.30
0-180	9664.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	269.75
10-20	761.49
20-30	1115.54
30-40	1309.32
40-50	1371.72
50-60	1317.42
60-70	1134.32
70-80	825.28
80-90	470.30
90-100	247.46
100-110	234.66
110-120	200.73
120-130	154.47
130-140	112.91
140-150	74.31
150-160	41.93
160-170	19.09
170-180	4.16

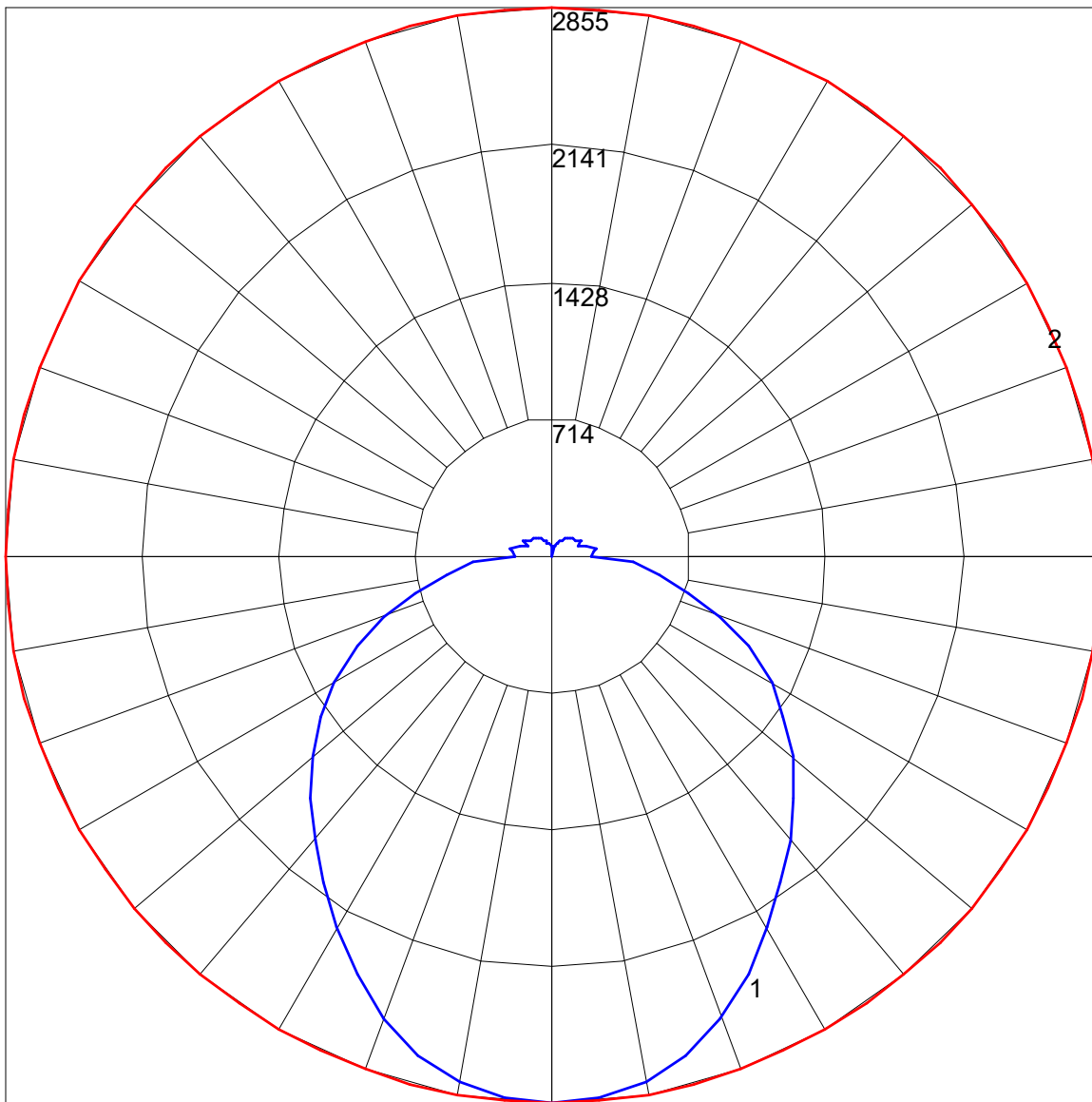
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	104	99	94	90	101	96	91	87	89	86	82	83	81	78	78	76	74	71
2	94	85	78	72	91	83	76	70	77	72	67	72	68	64	67	64	60	58
3	86	75	66	59	82	72	64	58	67	61	55	63	58	53	59	55	51	48
4	78	66	57	50	75	64	55	49	60	53	47	56	50	45	53	47	43	41
5	72	59	49	43	69	57	48	42	53	46	40	50	44	39	47	42	37	35
6	66	53	44	37	64	51	43	36	48	41	35	45	39	34	43	37	33	30
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	23	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	20

POLAR GRAPH



Maximum Candela = 2855.25 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)