



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZDS-PRO-22-LED4-MO.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-LED4LO  
 [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	6959
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	52
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	3961	3831	3946
55	3964	3847	3867
65	3999	4009	3808
75	4001	4254	3708
85	5144	5328	4643

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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>	2055.78	2055.78	2055.78	2055.78	2055.78	2055.78	2055.78	2055.78	2055.78	2055.78
<b>5</b>	2046.06	2046.06	2046.06	2046.06	2047.68	2047.68	2046.06	2044.44	2044.44	2044.44
<b>10</b>	2010.42	2008.80	2010.42	2010.42	2012.04	2012.04	2010.42	2010.42	2010.42	2012.04
<b>15</b>	1942.38	1944.00	1942.38	1942.38	1947.24	1950.48	1950.48	1950.48	1950.48	1950.48
<b>20</b>	1850.04	1848.42	1848.42	1848.42	1851.66	1854.90	1856.52	1856.52	1856.52	1858.14
<b>25</b>	1733.40	1733.40	1735.02	1738.26	1741.50	1743.12	1743.12	1744.74	1744.74	1744.74
<b>30</b>	1615.14	1615.14	1616.76	1620.00	1621.62	1623.24	1621.62	1623.24	1621.62	1621.62
<b>35</b>	1498.50	1500.12	1503.36	1504.98	1504.98	1503.36	1500.12	1498.50	1496.88	1496.88
<b>40</b>	1389.96	1391.58	1393.20	1394.82	1393.20	1388.34	1385.10	1381.86	1377.00	1377.00
<b>45</b>	1283.04	1283.04	1287.90	1287.90	1286.28	1281.42	1274.94	1271.70	1266.84	1263.60
<b>50</b>	1174.50	1174.50	1179.36	1180.98	1180.98	1176.12	1171.26	1166.40	1161.54	1158.30
<b>55</b>	1061.10	1062.72	1069.20	1072.44	1072.44	1070.82	1065.96	1062.72	1057.86	1056.24
<b>60</b>	949.32	950.94	960.66	965.52	968.76	968.76	968.76	967.14	963.90	960.66
<b>65</b>	813.24	816.48	826.20	834.30	842.40	847.26	848.88	850.50	848.88	845.64
<b>70</b>	672.30	675.54	686.88	696.60	706.32	714.42	720.90	725.76	727.38	724.14
<b>75</b>	531.36	536.22	547.56	558.90	571.86	583.20	591.30	597.78	601.02	599.40
<b>80</b>	405.00	409.86	421.20	432.54	445.50	458.46	468.18	474.66	479.52	477.90
<b>85</b>	299.70	302.94	309.42	317.52	327.24	336.96	345.06	351.54	354.78	354.78
<b>90</b>	142.56	144.18	149.04	157.14	165.24	171.72	178.20	184.68	186.30	186.30
<b>95</b>	153.90	155.52	158.76	165.24	171.72	176.58	181.44	183.06	181.44	178.20
<b>100</b>	165.24	165.24	170.10	176.58	183.06	189.54	194.40	197.64	199.26	194.40
<b>105</b>	127.98	131.22	136.08	142.56	150.66	155.52	160.38	162.00	163.62	170.10
<b>110</b>	100.44	103.68	111.78	121.50	132.84	144.18	155.52	165.24	173.34	176.58
<b>115</b>	121.50	123.12	129.60	137.70	144.18	152.28	157.14	162.00	165.24	166.86
<b>120</b>	116.64	118.26	123.12	127.98	132.84	137.70	142.56	147.42	150.66	150.66
<b>125</b>	105.30	106.92	110.16	115.02	119.88	126.36	131.22	134.46	136.08	137.70
<b>130</b>	97.20	98.82	102.06	106.92	111.78	116.64	119.88	123.12	124.74	126.36
<b>135</b>	92.34	93.96	97.20	100.44	103.68	106.92	111.78	115.02	116.64	115.02
<b>140</b>	84.24	85.86	87.48	92.34	95.58	98.82	100.44	102.06	103.68	105.30
<b>145</b>	77.76	79.38	81.00	82.62	84.24	87.48	89.10	89.10	90.72	90.72
<b>150</b>	68.04	68.04	69.66	72.90	74.52	76.14	77.76	77.76	77.76	77.76
<b>155</b>	59.94	61.56	61.56	63.18	64.80	66.42	66.42	66.42	68.04	68.04
<b>160</b>	53.46	53.46	53.46	55.08	55.08	56.70	58.32	58.32	59.94	59.94
<b>165</b>	46.98	46.98	46.98	46.98	48.60	48.60	48.60	48.60	48.60	48.60
<b>170</b>	38.88	38.88	40.50	40.50	40.50	40.50	38.88	38.88	38.88	38.88
<b>175</b>	34.02	34.02	34.02	34.02	34.02	34.02	32.40	32.40	32.40	32.40
<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>	2055.78	2055.78	2055.78	2055.78	2055.78	2055.78	2055.78	2055.78	2055.78
<b>5</b>	2044.44	2046.06	2047.68	2049.30	2049.30	2047.68	2047.68	2047.68	2047.68
<b>10</b>	2010.42	2012.04	2012.04	2013.66	2013.66	2013.66	2013.66	2012.04	2012.04
<b>15</b>	1950.48	1950.48	1952.10	1952.10	1948.86	1947.24	1945.62	1945.62	1945.62
<b>20</b>	1858.14	1858.14	1859.76	1858.14	1854.90	1851.66	1853.28	1854.90	1856.52
<b>25</b>	1746.36	1747.98	1747.98	1746.36	1746.36	1743.12	1743.12	1741.50	1741.50
<b>30</b>	1623.24	1626.48	1626.48	1628.10	1629.72	1626.48	1623.24	1621.62	1623.24
<b>35</b>	1498.50	1501.74	1503.36	1508.22	1509.84	1509.84	1508.22	1506.60	1506.60
<b>40</b>	1378.62	1380.24	1385.10	1389.96	1393.20	1396.44	1394.82	1393.20	1393.20
<b>45</b>	1265.22	1268.46	1273.32	1276.56	1281.42	1283.04	1281.42	1278.18	1278.18
<b>50</b>	1158.30	1159.92	1163.16	1166.40	1168.02	1168.02	1164.78	1159.92	1158.30
<b>55</b>	1054.62	1053.00	1053.00	1053.00	1053.00	1049.76	1044.90	1036.80	1035.18
<b>60</b>	957.42	954.18	950.94	947.70	942.84	936.36	928.26	918.54	916.92

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	842.40	835.92	829.44	821.34	811.62	800.28	788.94	777.60	774.36
<b>70</b>	719.28	711.18	699.84	688.50	675.54	660.96	648.00	635.04	630.18
<b>75</b>	594.54	584.82	571.86	557.28	541.08	524.88	510.30	497.34	492.48
<b>80</b>	473.04	463.32	450.36	435.78	419.58	403.38	387.18	375.84	370.98
<b>85</b>	349.92	341.82	332.10	319.14	306.18	293.22	281.88	273.78	270.54
<b>90</b>	184.68	179.82	173.34	163.62	155.52	145.80	137.70	132.84	131.22
<b>95</b>	171.72	163.62	153.90	145.80	137.70	129.60	121.50	116.64	115.02
<b>100</b>	187.92	179.82	173.34	170.10	166.86	160.38	155.52	150.66	149.04
<b>105</b>	174.96	179.82	176.58	171.72	163.62	155.52	147.42	142.56	140.94
<b>110</b>	176.58	176.58	173.34	166.86	158.76	150.66	142.56	136.08	134.46
<b>115</b>	166.86	165.24	162.00	157.14	150.66	142.56	136.08	131.22	129.60
<b>120</b>	150.66	149.04	144.18	140.94	136.08	129.60	124.74	119.88	118.26
<b>125</b>	137.70	136.08	132.84	127.98	123.12	116.64	111.78	106.92	105.30
<b>130</b>	126.36	124.74	121.50	118.26	111.78	106.92	102.06	98.82	95.58
<b>135</b>	116.64	115.02	111.78	108.54	103.68	98.82	95.58	92.34	90.72
<b>140</b>	103.68	102.06	100.44	98.82	95.58	90.72	87.48	84.24	82.62
<b>145</b>	90.72	89.10	89.10	85.86	84.24	82.62	79.38	77.76	76.14
<b>150</b>	77.76	77.76	76.14	74.52	74.52	71.28	69.66	68.04	68.04
<b>155</b>	68.04	66.42	66.42	64.80	64.80	63.18	61.56	59.94	59.94
<b>160</b>	59.94	58.32	58.32	56.70	55.08	55.08	53.46	53.46	51.84
<b>165</b>	48.60	48.60	48.60	48.60	46.98	46.98	46.98	46.98	45.36
<b>170</b>	38.88	38.88	38.88	38.88	38.88	38.88	38.88	38.88	38.88
<b>175</b>	32.40	32.40	32.40	34.02	34.02	34.02	34.02	34.02	34.02
<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	742.49	N.A.	10.70
0-30	1545.68	N.A.	22.20
0-40	2488.39	N.A.	35.80
0-60	4424.57	N.A.	63.60
0-80	5835.48	N.A.	83.90
0-90	6174.09	N.A.	88.70
10-90	5979.87	N.A.	85.90
20-40	1745.9	N.A.	25.10
20-50	2733.54	N.A.	39.30
40-70	2752.89	N.A.	39.60
60-80	1410.91	N.A.	20.30
70-80	594.20	N.A.	8.50
80-90	338.61	N.A.	4.90
90-110	347.13	N.A.	5.00
90-120	491.65	N.A.	7.10
90-130	602.87	N.A.	8.70
90-150	737.67	N.A.	10.60
90-180	784.61	N.A.	11.30
110-180	437.48	N.A.	6.30
0-180	6958.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	194.22
10-20	548.27
20-30	803.19
30-40	942.71
40-50	987.64
50-60	948.54
60-70	816.71
70-80	594.20
80-90	338.61
90-100	178.17
100-110	168.95
110-120	144.52
120-130	111.22
130-140	81.30
140-150	53.51
150-160	30.19
160-170	13.75
170-180	3.00

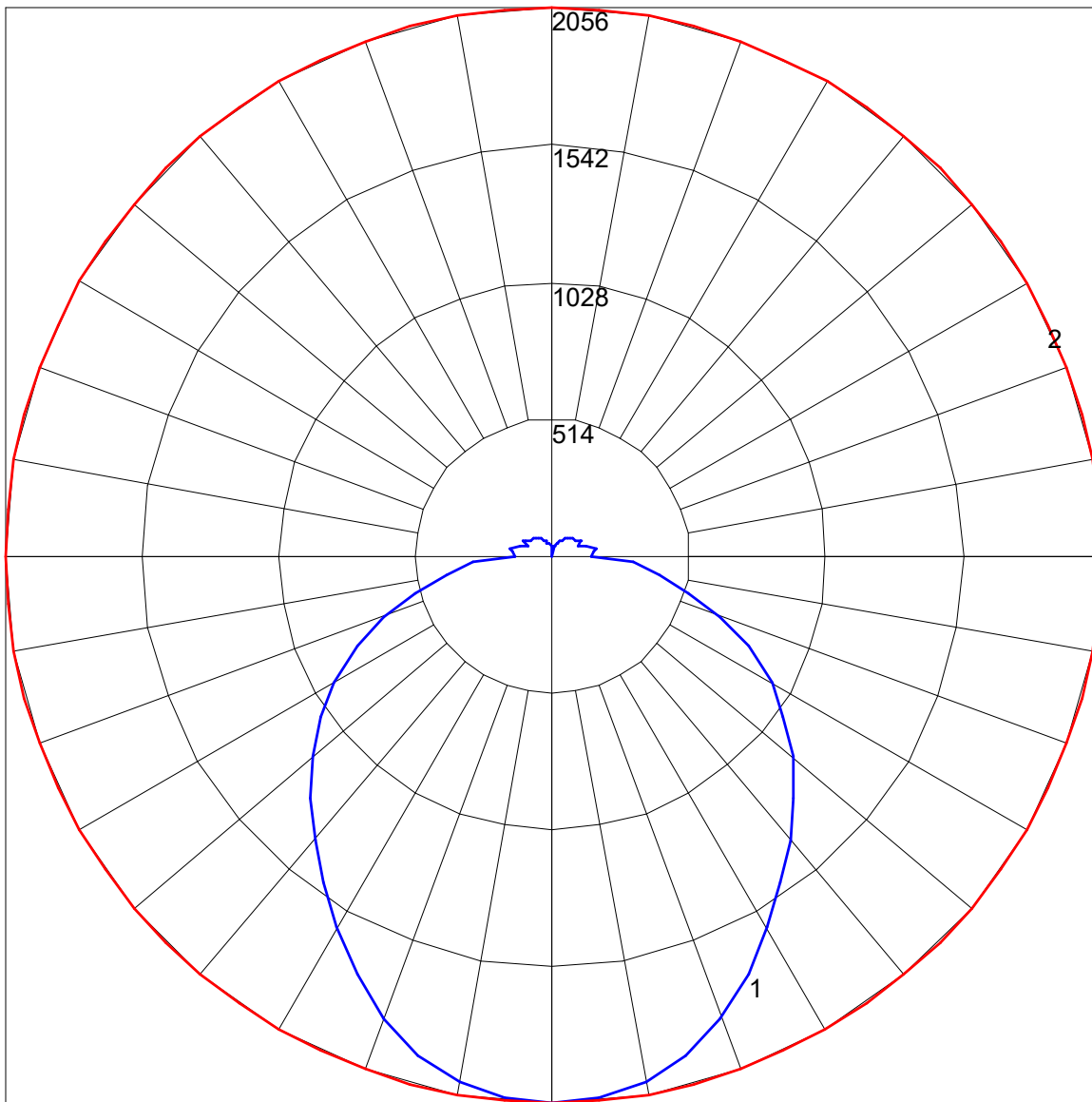
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	19

POLAR GRAPH



Maximum Candela = 2055.78 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.)