



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L101403501
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 10/20/2014
 [MANUFACT] 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	4983
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	44
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	2836	2743	2826
55	2838	2755	2769
65	2864	2871	2727
75	2865	3046	2655
85	3683	3815	3325

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	1472.04	1472.04	1472.04	1472.04	1472.04	1472.04	1472.04	1472.04	1472.04	1472.04
5	1465.08	1465.08	1465.08	1465.08	1466.24	1466.24	1465.08	1463.92	1463.92	1463.92
10	1439.56	1438.40	1439.56	1439.56	1440.72	1440.72	1439.56	1439.56	1439.56	1440.72
15	1390.84	1392.00	1390.84	1390.84	1394.32	1396.64	1396.64	1396.64	1396.64	1396.64
20	1324.72	1323.56	1323.56	1323.56	1325.88	1328.20	1329.36	1329.36	1329.36	1330.52
25	1241.20	1241.20	1242.36	1244.68	1247.00	1248.16	1248.16	1249.32	1249.32	1249.32
30	1156.52	1156.52	1157.68	1160.00	1161.16	1162.32	1161.16	1162.32	1161.16	1161.16
35	1073.00	1074.16	1076.48	1077.64	1077.64	1076.48	1074.16	1073.00	1071.84	1071.84
40	995.28	996.44	997.60	998.76	997.60	994.12	991.80	989.48	986.00	986.00
45	918.72	918.72	922.20	922.20	921.04	917.56	912.92	910.60	907.12	904.80
50	841.00	841.00	844.48	845.64	845.64	842.16	838.68	835.20	831.72	829.40
55	759.80	760.96	765.60	767.92	767.92	766.76	763.28	760.96	757.48	756.32
60	679.76	680.92	687.88	691.36	693.68	693.68	693.68	692.52	690.20	687.88
65	582.32	584.64	591.60	597.40	603.20	606.68	607.84	609.00	607.84	605.52
70	481.40	483.72	491.84	498.80	505.76	511.56	516.20	519.68	520.84	518.52
75	380.48	383.96	392.08	400.20	409.48	417.60	423.40	428.04	430.36	429.20
80	290.00	293.48	301.60	309.72	319.00	328.28	335.24	339.88	343.36	342.20
85	214.60	216.92	221.56	227.36	234.32	241.28	247.08	251.72	254.04	254.04
90	102.08	103.24	106.72	112.52	118.32	122.96	127.60	132.24	133.40	133.40
95	110.20	111.36	113.68	118.32	122.96	126.44	129.92	131.08	129.92	127.60
100	118.32	118.32	121.80	126.44	131.08	135.72	139.20	141.52	142.68	139.20
105	91.64	93.96	97.44	102.08	107.88	111.36	114.84	116.00	117.16	121.80
110	71.92	74.24	80.04	87.00	95.12	103.24	111.36	118.32	124.12	126.44
115	87.00	88.16	92.80	98.60	103.24	109.04	112.52	116.00	118.32	119.48
120	83.52	84.68	88.16	91.64	95.12	98.60	102.08	105.56	107.88	107.88
125	75.40	76.56	78.88	82.36	85.84	90.48	93.96	96.28	97.44	98.60
130	69.60	70.76	73.08	76.56	80.04	83.52	85.84	88.16	89.32	90.48
135	66.12	67.28	69.60	71.92	74.24	76.56	80.04	82.36	83.52	82.36
140	60.32	61.48	62.64	66.12	68.44	70.76	71.92	73.08	74.24	75.40
145	55.68	56.84	58.00	59.16	60.32	62.64	63.80	63.80	64.96	64.96
150	48.72	48.72	49.88	52.20	53.36	54.52	55.68	55.68	55.68	55.68
155	42.92	44.08	44.08	45.24	46.40	47.56	47.56	47.56	48.72	48.72
160	38.28	38.28	38.28	39.44	39.44	40.60	41.76	41.76	42.92	42.92
165	33.64	33.64	33.64	33.64	34.80	34.80	34.80	34.80	34.80	34.80
170	27.84	27.84	29.00	29.00	29.00	29.00	27.84	27.84	27.84	27.84
175	24.36	24.36	24.36	24.36	24.36	24.36	23.20	23.20	23.20	23.20
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
0	1472.04	1472.04	1472.04	1472.04	1472.04	1472.04	1472.04	1472.04	1472.04
5	1463.92	1465.08	1466.24	1467.40	1467.40	1466.24	1466.24	1466.24	1466.24
10	1439.56	1440.72	1440.72	1441.88	1441.88	1441.88	1441.88	1440.72	1440.72
15	1396.64	1396.64	1397.80	1397.80	1395.48	1394.32	1393.16	1393.16	1393.16
20	1330.52	1330.52	1331.68	1330.52	1328.20	1325.88	1327.04	1328.20	1329.36
25	1250.48	1251.64	1251.64	1250.48	1250.48	1248.16	1248.16	1247.00	1247.00
30	1162.32	1164.64	1164.64	1165.80	1166.96	1164.64	1162.32	1161.16	1162.32
35	1073.00	1075.32	1076.48	1079.96	1081.12	1081.12	1079.96	1078.80	1078.80
40	987.16	988.32	991.80	995.28	997.60	999.92	998.76	997.60	997.60
45	905.96	908.28	911.76	914.08	917.56	918.72	917.56	915.24	915.24
50	829.40	830.56	832.88	835.20	836.36	836.36	834.04	830.56	829.40
55	755.16	754.00	754.00	754.00	754.00	751.68	748.20	742.40	741.24
60	685.56	683.24	680.92	678.60	675.12	670.48	664.68	657.72	656.56

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65	603.20	598.56	593.92	588.12	581.16	573.04	564.92	556.80	554.48
70	515.04	509.24	501.12	493.00	483.72	473.28	464.00	454.72	451.24
75	425.72	418.76	409.48	399.04	387.44	375.84	365.40	356.12	352.64
80	338.72	331.76	322.48	312.04	300.44	288.84	277.24	269.12	265.64
85	250.56	244.76	237.80	228.52	219.24	209.96	201.84	196.04	193.72
90	132.24	128.76	124.12	117.16	111.36	104.40	98.60	95.12	93.96
95	122.96	117.16	110.20	104.40	98.60	92.80	87.00	83.52	82.36
100	134.56	128.76	124.12	121.80	119.48	114.84	111.36	107.88	106.72
105	125.28	128.76	126.44	122.96	117.16	111.36	105.56	102.08	100.92
110	126.44	126.44	124.12	119.48	113.68	107.88	102.08	97.44	96.28
115	119.48	118.32	116.00	112.52	107.88	102.08	97.44	93.96	92.80
120	107.88	106.72	103.24	100.92	97.44	92.80	89.32	85.84	84.68
125	98.60	97.44	95.12	91.64	88.16	83.52	80.04	76.56	75.40
130	90.48	89.32	87.00	84.68	80.04	76.56	73.08	70.76	68.44
135	83.52	82.36	80.04	77.72	74.24	70.76	68.44	66.12	64.96
140	74.24	73.08	71.92	70.76	68.44	64.96	62.64	60.32	59.16
145	64.96	63.80	63.80	61.48	60.32	59.16	56.84	55.68	54.52
150	55.68	55.68	54.52	53.36	53.36	51.04	49.88	48.72	48.72
155	48.72	47.56	47.56	46.40	46.40	45.24	44.08	42.92	42.92
160	42.92	41.76	41.76	40.60	39.44	39.44	38.28	38.28	37.12
165	34.80	34.80	34.80	34.80	33.64	33.64	33.64	33.64	32.48
170	27.84	27.84	27.84	27.84	27.84	27.84	27.84	27.84	27.84
175	23.20	23.20	23.20	24.36	24.36	24.36	24.36	24.36	24.36
180	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	531.66	N.A.	10.70
0-30	1106.78	N.A.	22.20
0-40	1781.81	N.A.	35.80
0-60	3168.21	N.A.	63.60
0-80	4178.49	N.A.	83.90
0-90	4420.96	N.A.	88.70
10-90	4281.89	N.A.	85.90
20-40	1250.15	N.A.	25.10
20-50	1957.35	N.A.	39.30
40-70	1971.2	N.A.	39.60
60-80	1010.28	N.A.	20.30
70-80	425.48	N.A.	8.50
80-90	242.46	N.A.	4.90
90-110	248.56	N.A.	5.00
90-120	352.05	N.A.	7.10
90-130	431.69	N.A.	8.70
90-150	528.21	N.A.	10.60
90-180	561.82	N.A.	11.30
110-180	313.26	N.A.	6.30
0-180	4982.78	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	139.07
10-20	392.59
20-30	575.12
30-40	675.03
40-50	707.20
50-60	679.20
60-70	584.80
70-80	425.48
80-90	242.46
90-100	127.58
100-110	120.98
110-120	103.49
120-130	79.64
130-140	58.21
140-150	38.31
150-160	21.62
160-170	9.84
170-180	2.15

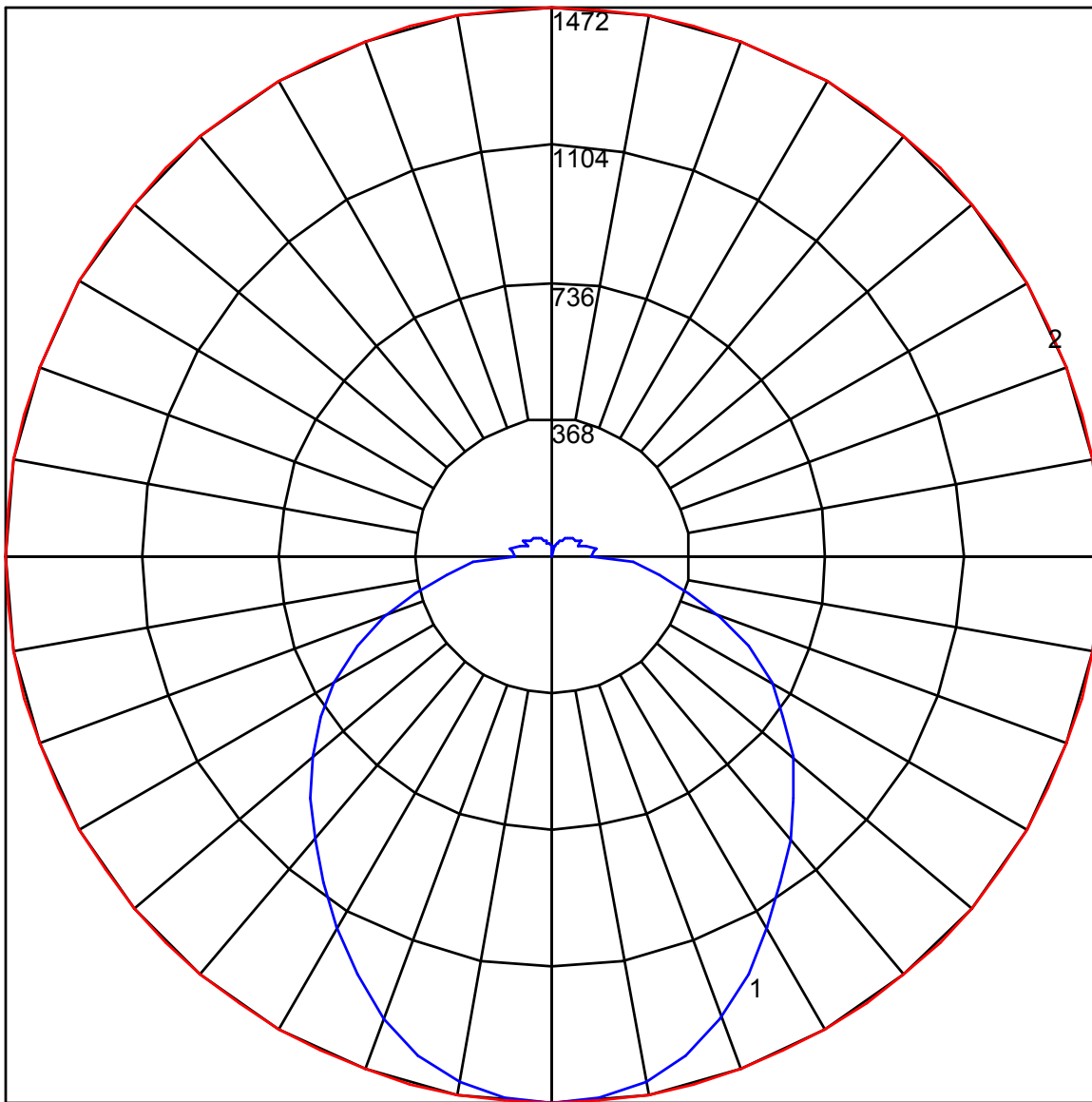
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1472.04 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.)