



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZUS-22-LED4-MO.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-LED4-MO
 [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	4940
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	44
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	202	248	199
55	279	356	279
65	424	562	452
75	684	857	753
85	1875	1900	1401

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	24.15	24.15	24.15	24.15	24.15	24.15	23.00	23.00	23.00	23.00
10	27.60	27.60	28.75	28.75	28.75	28.75	27.60	27.60	27.60	27.60
15	33.35	33.35	33.35	33.35	34.50	34.50	34.50	34.50	34.50	34.50
20	37.95	37.95	37.95	39.10	39.10	40.25	41.40	41.40	42.55	42.55
25	42.55	43.70	43.70	44.85	46.00	47.15	47.15	47.15	48.30	48.30
30	48.30	48.30	49.45	51.75	52.90	54.05	55.20	55.20	55.20	55.20
35	55.20	56.35	57.50	58.65	59.80	62.10	63.25	63.25	64.40	64.40
40	59.80	60.95	62.10	65.55	67.85	70.15	71.30	72.45	73.60	74.75
45	65.55	66.70	69.00	71.30	73.60	75.90	79.35	81.65	82.80	81.65
50	69.00	70.15	72.45	75.90	79.35	82.80	85.10	87.40	88.55	89.70
55	74.75	75.90	78.20	81.65	85.10	89.70	93.15	95.45	96.60	97.75
60	82.80	83.95	87.40	90.85	94.30	97.75	101.20	104.65	106.95	106.95
65	86.25	87.40	92.00	97.75	102.35	108.10	111.55	115.00	117.30	118.45
70	71.30	73.60	79.35	86.25	94.30	102.35	110.40	117.30	123.05	125.35
75	90.85	93.15	96.60	101.20	106.95	110.40	113.85	115.00	116.15	120.75
80	117.30	117.30	120.75	125.35	129.95	134.55	138.00	140.30	141.45	138.00
85	109.25	110.40	112.70	117.30	121.90	125.35	128.80	129.95	128.80	126.50
90	101.20	102.35	105.80	111.55	117.30	121.90	126.50	131.10	132.25	132.25
95	212.75	215.05	219.65	225.40	232.30	239.20	244.95	249.55	251.85	251.85
100	287.50	290.95	299.00	307.05	316.25	325.45	332.35	336.95	340.40	339.25
105	377.20	380.65	388.70	396.75	405.95	414.00	419.75	424.35	426.65	425.50
110	477.25	479.55	487.60	494.50	501.40	507.15	511.75	515.20	516.35	514.05
115	577.30	579.60	586.50	592.25	598.00	601.45	602.60	603.75	602.60	600.30
120	673.90	675.05	681.95	685.40	687.70	687.70	687.70	686.55	684.25	681.95
125	753.25	754.40	759.00	761.30	761.30	760.15	756.70	754.40	750.95	749.80
130	833.75	833.75	837.20	838.35	838.35	834.90	831.45	828.00	824.55	822.25
135	910.80	910.80	914.25	914.25	913.10	909.65	905.05	902.75	899.30	897.00
140	986.70	987.85	989.00	990.15	989.00	985.55	983.25	980.95	977.50	977.50
145	1063.75	1064.90	1067.20	1068.35	1068.35	1067.20	1064.90	1063.75	1062.60	1062.60
150	1146.55	1146.55	1147.70	1150.00	1151.15	1152.30	1151.15	1152.30	1151.15	1151.15
155	1230.50	1230.50	1231.65	1233.95	1236.25	1237.40	1237.40	1238.55	1238.55	1238.55
160	1313.30	1312.15	1312.15	1312.15	1314.45	1316.75	1317.90	1317.90	1317.90	1319.05
165	1378.85	1380.00	1378.85	1378.85	1382.30	1384.60	1384.60	1384.60	1384.60	1384.60
170	1427.15	1426.00	1427.15	1427.15	1428.30	1428.30	1427.15	1427.15	1427.15	1428.30
175	1452.45	1452.45	1452.45	1452.45	1453.60	1453.60	1452.45	1451.30	1451.30	1451.30
180	1459.35	1459.35	1459.35	1459.35	1459.35	1459.35	1459.35	1459.35	1459.35	1459.35

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	23.00	23.00	23.00	24.15	24.15	24.15	24.15	24.15	24.15
10	27.60	27.60	27.60	27.60	27.60	27.60	27.60	27.60	27.60
15	34.50	34.50	34.50	34.50	33.35	33.35	33.35	33.35	32.20
20	42.55	41.40	41.40	40.25	39.10	39.10	37.95	37.95	36.80
25	48.30	47.15	47.15	46.00	46.00	44.85	43.70	42.55	42.55
30	55.20	55.20	54.05	52.90	52.90	50.60	49.45	48.30	48.30
35	64.40	63.25	63.25	60.95	59.80	58.65	56.35	55.20	54.05
40	73.60	72.45	71.30	70.15	67.85	64.40	62.10	59.80	58.65
45	82.80	81.65	79.35	77.05	73.60	70.15	67.85	65.55	64.40
50	89.70	88.55	86.25	83.95	79.35	75.90	72.45	70.15	67.85
55	97.75	96.60	94.30	90.85	87.40	82.80	79.35	75.90	74.75
60	106.95	105.80	102.35	100.05	96.60	92.00	88.55	85.10	83.95

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CANDELA TABULATION - (Cont.)

65	118.45	117.30	115.00	111.55	106.95	101.20	96.60	93.15	92.00
70	125.35	125.35	123.05	118.45	112.70	106.95	101.20	96.60	95.45
75	124.20	127.65	125.35	121.90	116.15	110.40	104.65	101.20	100.05
80	133.40	127.65	123.05	120.75	118.45	113.85	110.40	106.95	105.80
85	121.90	116.15	109.25	103.50	97.75	92.00	86.25	82.80	81.65
90	131.10	127.65	123.05	116.15	110.40	103.50	97.75	94.30	93.15
95	248.40	242.65	235.75	226.55	217.35	208.15	200.10	194.35	192.05
100	335.80	328.90	319.70	309.35	297.85	286.35	274.85	266.80	263.35
105	422.05	415.15	405.95	395.60	384.10	372.60	362.25	353.05	349.60
110	510.60	504.85	496.80	488.75	479.55	469.20	460.00	450.80	447.35
115	598.00	593.40	588.80	583.05	576.15	568.10	560.05	552.00	549.70
120	679.65	677.35	675.05	672.75	669.30	664.70	658.95	652.05	650.90
125	748.65	747.50	747.50	747.50	747.50	745.20	741.75	736.00	734.85
130	822.25	823.40	825.70	828.00	829.15	829.15	826.85	823.40	822.25
135	898.15	900.45	903.90	906.20	909.65	910.80	909.65	907.35	907.35
140	978.65	979.80	983.25	986.70	989.00	991.30	990.15	989.00	989.00
145	1063.75	1066.05	1067.20	1070.65	1071.80	1071.80	1070.65	1069.50	1069.50
150	1152.30	1154.60	1154.60	1155.75	1156.90	1154.60	1152.30	1151.15	1152.30
155	1239.70	1240.85	1240.85	1239.70	1239.70	1237.40	1237.40	1236.25	1236.25
160	1319.05	1319.05	1320.20	1319.05	1316.75	1314.45	1315.60	1316.75	1317.90
165	1384.60	1384.60	1385.75	1385.75	1383.45	1382.30	1381.15	1381.15	1381.15
170	1427.15	1428.30	1428.30	1429.45	1429.45	1429.45	1429.45	1428.30	1428.30
175	1451.30	1452.45	1453.60	1454.75	1454.75	1453.60	1453.60	1453.60	1453.60
180	1459.35	1459.35	1459.35	1459.35	1459.35	1459.35	1459.35	1459.35	1459.35

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	11.89	N.A.	0.20
0-30	33.32	N.A.	0.70
0-40	71.30	N.A.	1.40
0-60	207.96	N.A.	4.20
0-80	430.49	N.A.	8.70
0-90	556.97	N.A.	11.30
10-90	554.85	N.A.	11.20
20-40	59.41	N.A.	1.20
20-50	117.12	N.A.	2.40
40-70	239.26	N.A.	4.80
60-80	222.53	N.A.	4.50
70-80	119.94	N.A.	2.40
80-90	126.48	N.A.	2.60
90-110	662.18	N.A.	13.40
90-120	1241.95	N.A.	25.10
90-130	1915.29	N.A.	38.80
90-150	3285.6	N.A.	66.50
90-180	4382.85	N.A.	88.70
110-180	3720.66	N.A.	75.30
0-180	4939.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2.13
10-20	9.76
20-30	21.43
30-40	37.98
40-50	57.71
50-60	78.95
60-70	102.59
70-80	119.94
80-90	126.48
90-100	240.37
100-110	421.81
110-120	579.76
120-130	673.35
130-140	701.10
140-150	669.21
150-160	570.16
160-170	389.21
170-180	137.87

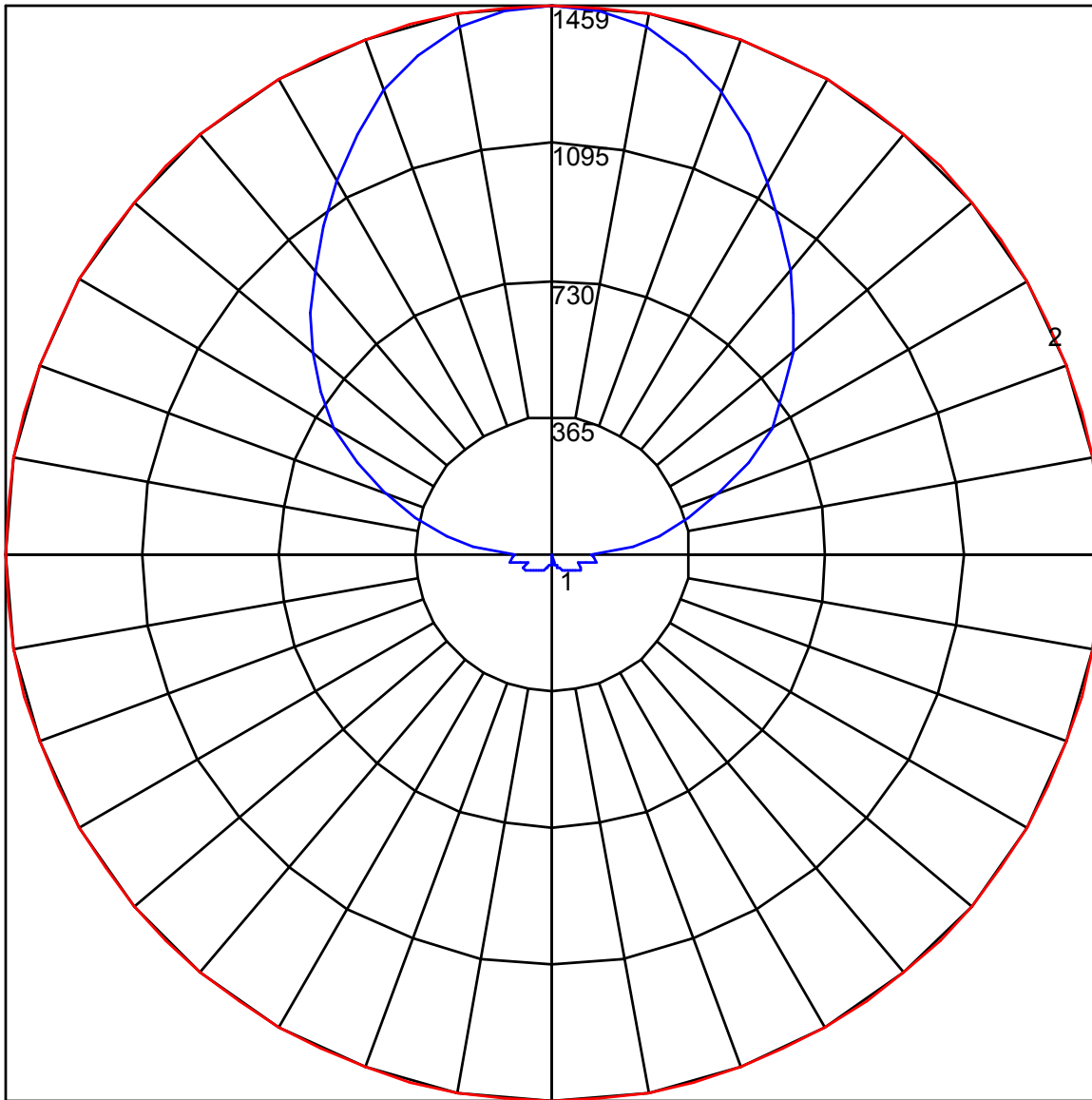
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1459.35 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.)