



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZUS-33-LED4-LO.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-33-LED4-LO
 [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	5584
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	50
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	229	280	225
55	316	402	316
65	479	635	511
75	773	969	852
85	2120	2147	1584

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	27.3	27.3	27.3	27.3	27.3	27.3	26.0	26.0	26.0	26.0
10	31.2	31.2	32.5	32.5	32.5	32.5	31.2	31.2	31.2	31.2
15	37.7	37.7	37.7	37.7	39.0	39.0	39.0	39.0	39.0	39.0
20	42.9	42.9	42.9	44.2	44.2	45.5	46.8	46.8	48.1	48.1
25	48.1	49.4	49.4	50.7	52.0	53.3	53.3	53.3	54.6	54.6
30	54.6	54.6	55.9	58.5	59.8	61.1	62.4	62.4	62.4	62.4
35	62.4	63.7	65.0	66.3	67.6	70.2	71.5	71.5	72.8	72.8
40	67.6	68.9	70.2	74.1	76.7	79.3	80.6	81.9	83.2	84.5
45	74.1	75.4	78.0	80.6	83.2	85.8	89.7	92.3	93.6	92.3
50	78.0	79.3	81.9	85.8	89.7	93.6	96.2	98.8	100.1	101.4
55	84.5	85.8	88.4	92.3	96.2	101.4	105.3	107.9	109.2	110.5
60	93.6	94.9	98.8	102.7	106.6	110.5	114.4	118.3	120.9	120.9
65	97.5	98.8	104.0	110.5	115.7	122.2	126.1	130.0	132.6	133.9
70	80.6	83.2	89.7	97.5	106.6	115.7	124.8	132.6	139.1	141.7
75	102.7	105.3	109.2	114.4	120.9	124.8	128.7	130.0	131.3	136.5
80	132.6	132.6	136.5	141.7	146.9	152.1	156.0	158.6	159.9	156.0
85	123.5	124.8	127.4	132.6	137.8	141.7	145.6	146.9	145.6	143.0
90	114.4	115.7	119.6	126.1	132.6	137.8	143.0	148.2	149.5	149.5
95	240.5	243.1	248.3	254.8	262.6	270.4	276.9	282.1	284.7	284.7
100	325.0	328.9	338.0	347.1	357.5	367.9	375.7	380.9	384.8	383.5
105	426.4	430.3	439.4	448.5	458.9	468.0	474.5	479.7	482.3	481.0
110	539.5	542.1	551.2	559.0	566.8	573.3	578.5	582.4	583.7	581.1
115	652.6	655.2	663.0	669.5	676.0	679.9	681.2	682.5	681.2	678.6
120	761.8	763.1	770.9	774.8	777.4	777.4	777.4	776.1	773.5	770.9
125	851.5	852.8	858.0	860.6	860.6	859.3	855.4	852.8	848.9	847.6
130	942.5	942.5	946.4	947.7	947.7	943.8	939.9	936.0	932.1	929.5
135	1029.6	1029.6	1033.5	1033.5	1032.2	1028.3	1023.1	1020.5	1016.6	1014.0
140	1115.4	1116.7	1118.0	1119.3	1118.0	1114.1	1111.5	1108.9	1105.0	1105.0
145	1202.5	1203.8	1206.4	1207.7	1207.7	1206.4	1203.8	1202.5	1201.2	1201.2
150	1296.1	1296.1	1297.4	1300.0	1301.3	1302.6	1301.3	1302.6	1301.3	1301.3
155	1391.0	1391.0	1392.3	1394.9	1397.5	1398.8	1398.8	1400.1	1400.1	1400.1
160	1484.6	1483.3	1483.3	1483.3	1485.9	1488.5	1489.8	1489.8	1489.8	1491.1
165	1558.7	1560.0	1558.7	1558.7	1562.6	1565.2	1565.2	1565.2	1565.2	1565.2
170	1613.3	1612.0	1613.3	1613.3	1614.6	1614.6	1613.3	1613.3	1613.3	1614.6
175	1641.9	1641.9	1641.9	1641.9	1643.2	1643.2	1641.9	1640.6	1640.6	1640.6
180	1649.7	1649.7	1649.7	1649.7	1649.7	1649.7	1649.7	1649.7	1649.7	1649.7

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	26.0	26.0	26.0	27.3	27.3	27.3	27.3	27.3	27.3
10	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
15	39.0	39.0	39.0	39.0	37.7	37.7	37.7	37.7	36.4
20	48.1	46.8	46.8	45.5	44.2	44.2	42.9	42.9	41.6
25	54.6	53.3	53.3	52.0	52.0	50.7	49.4	48.1	48.1
30	62.4	62.4	61.1	59.8	59.8	57.2	55.9	54.6	54.6
35	72.8	71.5	71.5	68.9	67.6	66.3	63.7	62.4	61.1
40	83.2	81.9	80.6	79.3	76.7	72.8	70.2	67.6	66.3
45	93.6	92.3	89.7	87.1	83.2	79.3	76.7	74.1	72.8
50	101.4	100.1	97.5	94.9	89.7	85.8	81.9	79.3	76.7
55	110.5	109.2	106.6	102.7	98.8	93.6	89.7	85.8	84.5
60	120.9	119.6	115.7	113.1	109.2	104.0	100.1	96.2	94.9

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CANDELA TABULATION - (Cont.)

65	133.9	132.6	130.0	126.1	120.9	114.4	109.2	105.3	104.0
70	141.7	141.7	139.1	133.9	127.4	120.9	114.4	109.2	107.9
75	140.4	144.3	141.7	137.8	131.3	124.8	118.3	114.4	113.1
80	150.8	144.3	139.1	136.5	133.9	128.7	124.8	120.9	119.6
85	137.8	131.3	123.5	117.0	110.5	104.0	97.5	93.6	92.3
90	148.2	144.3	139.1	131.3	124.8	117.0	110.5	106.6	105.3
95	280.8	274.3	266.5	256.1	245.7	235.3	226.2	219.7	217.1
100	379.6	371.8	361.4	349.7	336.7	323.7	310.7	301.6	297.7
105	477.1	469.3	458.9	447.2	434.2	421.2	409.5	399.1	395.2
110	577.2	570.7	561.6	552.5	542.1	530.4	520.0	509.6	505.7
115	676.0	670.8	665.6	659.1	651.3	642.2	633.1	624.0	621.4
120	768.3	765.7	763.1	760.5	756.6	751.4	744.9	737.1	735.8
125	846.3	845.0	845.0	845.0	845.0	842.4	838.5	832.0	830.7
130	929.5	930.8	933.4	936.0	937.3	937.3	934.7	930.8	929.5
135	1015.3	1017.9	1021.8	1024.4	1028.3	1029.6	1028.3	1025.7	1025.7
140	1106.3	1107.6	1111.5	1115.4	1118.0	1120.6	1119.3	1118.0	1118.0
145	1202.5	1205.1	1206.4	1210.3	1211.6	1211.6	1210.3	1209.0	1209.0
150	1302.6	1305.2	1305.2	1306.5	1307.8	1305.2	1302.6	1301.3	1302.6
155	1401.4	1402.7	1402.7	1401.4	1401.4	1398.8	1398.8	1397.5	1397.5
160	1491.1	1491.1	1492.4	1491.1	1488.5	1485.9	1487.2	1488.5	1489.8
165	1565.2	1565.2	1566.5	1566.5	1563.9	1562.6	1561.3	1561.3	1561.3
170	1613.3	1614.6	1614.6	1615.9	1615.9	1615.9	1615.9	1614.6	1614.6
175	1640.6	1641.9	1643.2	1644.5	1644.5	1643.2	1643.2	1643.2	1643.2
180	1649.7	1649.7	1649.7	1649.7	1649.7	1649.7	1649.7	1649.7	1649.7

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	13.44	N.A.	0.20
0-30	37.66	N.A.	0.70
0-40	80.60	N.A.	1.40
0-60	235.09	N.A.	4.20
0-80	486.64	N.A.	8.70
0-90	629.62	N.A.	11.30
10-90	627.22	N.A.	11.20
20-40	67.16	N.A.	1.20
20-50	132.40	N.A.	2.40
40-70	270.46	N.A.	4.80
60-80	251.56	N.A.	4.50
70-80	135.58	N.A.	2.40
80-90	142.98	N.A.	2.60
90-110	748.55	N.A.	13.40
90-120	1403.94	N.A.	25.10
90-130	2165.11	N.A.	38.80
90-150	3714.16	N.A.	66.50
90-180	4954.52	N.A.	88.70
110-180	4205.97	N.A.	75.30
0-180	5584.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2.41
10-20	11.03
20-30	24.23
30-40	42.94
40-50	65.24
50-60	89.25
60-70	115.98
70-80	135.58
80-90	142.98
90-100	271.73
100-110	476.83
110-120	655.38
120-130	761.18
130-140	792.55
140-150	756.50
150-160	644.53
160-170	439.97
170-180	155.86

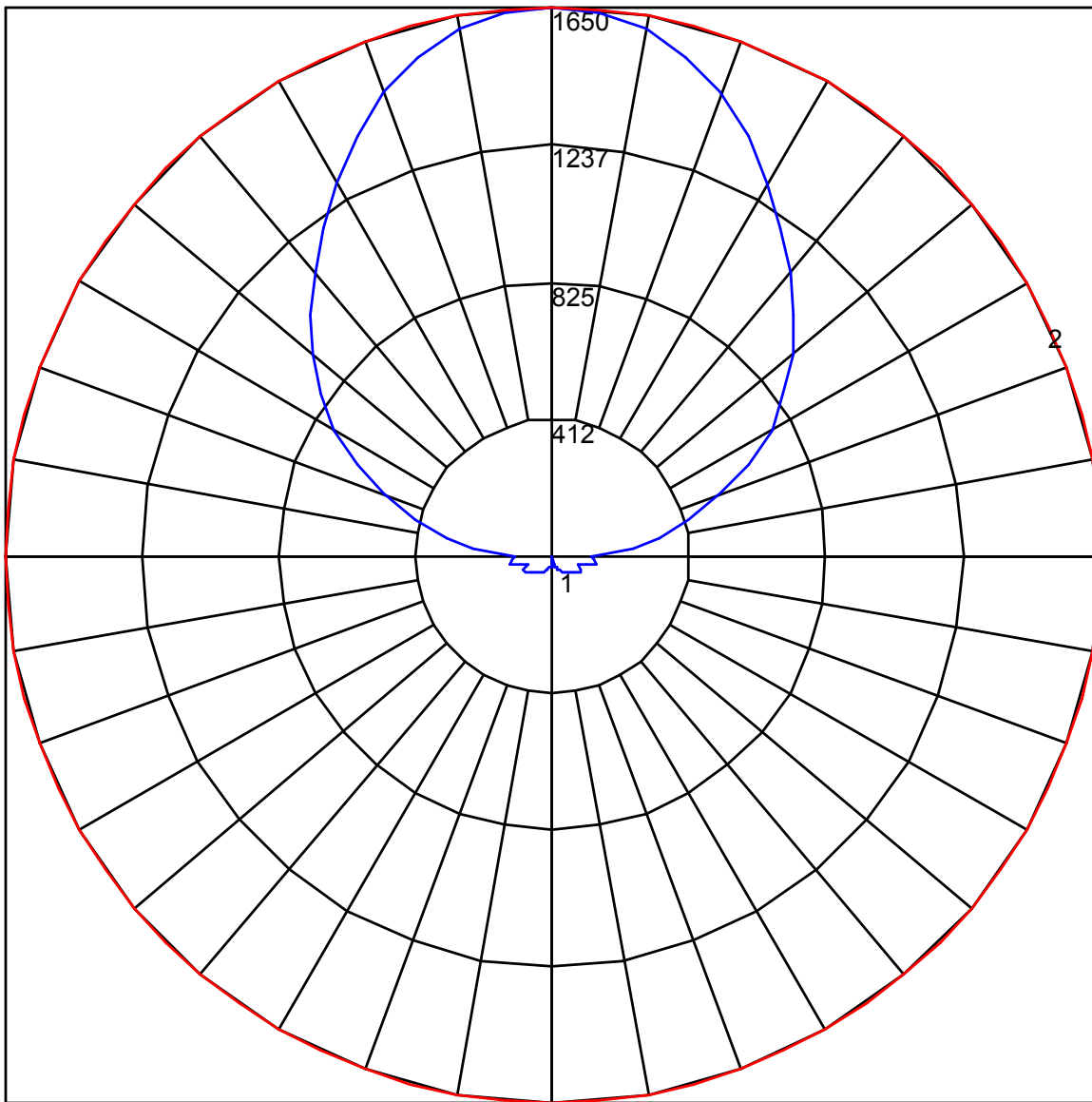
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1649.7 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.)