



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZUS-LED4LO-44-SAL-DM10.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L101409101
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 10/30/2014
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] ZUS-LED4LO-44-SAL-DM10
 [MORE] DIFFUSED LENS

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7732
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	67
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

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	317	387	311
55	437	557	437
65	664	879	708
75	1071	1341	1179
85	2935	2973	2193

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZUS-LED4LO-44-SAL-DM10.IES

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	37.8	37.8	37.8	37.8	37.8	37.8	36.0	36.0	36.0	36.0
10	43.2	43.2	45.0	45.0	45.0	45.0	43.2	43.2	43.2	43.2
15	52.2	52.2	52.2	52.2	54.0	54.0	54.0	54.0	54.0	54.0
20	59.4	59.4	59.4	61.2	61.2	63.0	64.8	64.8	66.6	66.6
25	66.6	68.4	68.4	70.2	72.0	73.8	73.8	73.8	75.6	75.6
30	75.6	75.6	77.4	81.0	82.8	84.6	86.4	86.4	86.4	86.4
35	86.4	88.2	90.0	91.8	93.6	97.2	99.0	99.0	100.8	100.8
40	93.6	95.4	97.2	102.6	106.2	109.8	111.6	113.4	115.2	117.0
45	102.6	104.4	108.0	111.6	115.2	118.8	124.2	127.8	129.6	127.8
50	108.0	109.8	113.4	118.8	124.2	129.6	133.2	136.8	138.6	140.4
55	117.0	118.8	122.4	127.8	133.2	140.4	145.8	149.4	151.2	153.0
60	129.6	131.4	136.8	142.2	147.6	153.0	158.4	163.8	167.4	167.4
65	135.0	136.8	144.0	153.0	160.2	169.2	174.6	180.0	183.6	185.4
70	111.6	115.2	124.2	135.0	147.6	160.2	172.8	183.6	192.6	196.2
75	142.2	145.8	151.2	158.4	167.4	172.8	178.2	180.0	181.8	189.0
80	183.6	183.6	189.0	196.2	203.4	210.6	216.0	219.6	221.4	216.0
85	171.0	172.8	176.4	183.6	190.8	196.2	201.6	203.4	201.6	198.0
90	158.4	160.2	165.6	174.6	183.6	190.8	198.0	205.2	207.0	207.0
95	333.0	336.6	343.8	352.8	363.6	374.4	383.4	390.6	394.2	394.2
100	450.0	455.4	468.0	480.6	495.0	509.4	520.2	527.4	532.8	531.0
105	590.4	595.8	608.4	621.0	635.4	648.0	657.0	664.2	667.8	666.0
110	747.0	750.6	763.2	774.0	784.8	793.8	801.0	806.4	808.2	804.6
115	903.6	907.2	918.0	927.0	936.0	941.4	943.2	945.0	943.2	939.6
120	1054.8	1056.6	1067.4	1072.8	1076.4	1076.4	1076.4	1074.6	1071.0	1067.4
125	1179.0	1180.8	1188.0	1191.6	1191.6	1189.8	1184.4	1180.8	1175.4	1173.6
130	1305.0	1305.0	1310.4	1312.2	1312.2	1306.8	1301.4	1296.0	1290.6	1287.0
135	1425.6	1425.6	1431.0	1431.0	1429.2	1423.8	1416.6	1413.0	1407.6	1404.0
140	1544.4	1546.2	1548.0	1549.8	1548.0	1542.6	1539.0	1535.4	1530.0	1530.0
145	1665.0	1666.8	1670.4	1672.2	1672.2	1670.4	1666.8	1665.0	1663.2	1663.2
150	1794.6	1794.6	1796.4	1800.0	1801.8	1803.6	1801.8	1803.6	1801.8	1801.8
155	1926.0	1926.0	1927.8	1931.4	1935.0	1936.8	1936.8	1938.6	1938.6	1938.6
160	2055.6	2053.8	2053.8	2053.8	2057.4	2061.0	2062.8	2062.8	2062.8	2064.6
165	2158.2	2160.0	2158.2	2158.2	2163.6	2167.2	2167.2	2167.2	2167.2	2167.2
170	2233.8	2232.0	2233.8	2233.8	2235.6	2235.6	2233.8	2233.8	2233.8	2235.6
175	2273.4	2273.4	2273.4	2273.4	2275.2	2275.2	2273.4	2271.6	2271.6	2271.6
180	2284.2	2284.2	2284.2	2284.2	2284.2	2284.2	2284.2	2284.2	2284.2	2284.2

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	36.0	36.0	36.0	37.8	37.8	37.8	37.8	37.8	37.8
10	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
15	54.0	54.0	54.0	54.0	52.2	52.2	52.2	52.2	50.4
20	66.6	64.8	64.8	63.0	61.2	61.2	59.4	59.4	57.6
25	75.6	73.8	73.8	72.0	72.0	70.2	68.4	66.6	66.6
30	86.4	86.4	84.6	82.8	82.8	79.2	77.4	75.6	75.6
35	100.8	99.0	99.0	95.4	93.6	91.8	88.2	86.4	84.6
40	115.2	113.4	111.6	109.8	106.2	100.8	97.2	93.6	91.8
45	129.6	127.8	124.2	120.6	115.2	109.8	106.2	102.6	100.8
50	140.4	138.6	135.0	131.4	124.2	118.8	113.4	109.8	106.2
55	153.0	151.2	147.6	142.2	136.8	129.6	124.2	118.8	117.0
60	167.4	165.6	160.2	156.6	151.2	144.0	138.6	133.2	131.4

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZUS-LED4LO-44-SAL-DM10.IES

CANDELA TABULATION - (Cont.)

65	185.4	183.6	180.0	174.6	167.4	158.4	151.2	145.8	144.0
70	196.2	196.2	192.6	185.4	176.4	167.4	158.4	151.2	149.4
75	194.4	199.8	196.2	190.8	181.8	172.8	163.8	158.4	156.6
80	208.8	199.8	192.6	189.0	185.4	178.2	172.8	167.4	165.6
85	190.8	181.8	171.0	162.0	153.0	144.0	135.0	129.6	127.8
90	205.2	199.8	192.6	181.8	172.8	162.0	153.0	147.6	145.8
95	388.8	379.8	369.0	354.6	340.2	325.8	313.2	304.2	300.6
100	525.6	514.8	500.4	484.2	466.2	448.2	430.2	417.6	412.2
105	660.6	649.8	635.4	619.2	601.2	583.2	567.0	552.6	547.2
110	799.2	790.2	777.6	765.0	750.6	734.4	720.0	705.6	700.2
115	936.0	928.8	921.6	912.6	901.8	889.2	876.6	864.0	860.4
120	1063.8	1060.2	1056.6	1053.0	1047.6	1040.4	1031.4	1020.6	1018.8
125	1171.8	1170.0	1170.0	1170.0	1170.0	1166.4	1161.0	1152.0	1150.2
130	1287.0	1288.8	1292.4	1296.0	1297.8	1297.8	1294.2	1288.8	1287.0
135	1405.8	1409.4	1414.8	1418.4	1423.8	1425.6	1423.8	1420.2	1420.2
140	1531.8	1533.6	1539.0	1544.4	1548.0	1551.6	1549.8	1548.0	1548.0
145	1665.0	1668.6	1670.4	1675.8	1677.6	1677.6	1675.8	1674.0	1674.0
150	1803.6	1807.2	1807.2	1809.0	1810.8	1807.2	1803.6	1801.8	1803.6
155	1940.4	1942.2	1942.2	1940.4	1940.4	1936.8	1936.8	1935.0	1935.0
160	2064.6	2064.6	2066.4	2064.6	2061.0	2057.4	2059.2	2061.0	2062.8
165	2167.2	2167.2	2169.0	2169.0	2165.4	2163.6	2161.8	2161.8	2161.8
170	2233.8	2235.6	2235.6	2237.4	2237.4	2237.4	2237.4	2235.6	2235.6
175	2271.6	2273.4	2275.2	2277.0	2277.0	2275.2	2275.2	2275.2	2275.2
180	2284.2	2284.2	2284.2	2284.2	2284.2	2284.2	2284.2	2284.2	2284.2

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZUS-LED4LO-44-SAL-DM10.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	18.60	N.A.	0.20
0-30	52.15	N.A.	0.70
0-40	111.60	N.A.	1.40
0-60	325.51	N.A.	4.20
0-80	673.81	N.A.	8.70
0-90	871.79	N.A.	11.30
10-90	868.46	N.A.	11.20
20-40	92.99	N.A.	1.20
20-50	183.33	N.A.	2.40
40-70	374.49	N.A.	4.80
60-80	348.31	N.A.	4.50
70-80	187.73	N.A.	2.40
80-90	197.97	N.A.	2.60
90-110	1036.46	N.A.	13.40
90-120	1943.92	N.A.	25.10
90-130	2997.85	N.A.	38.80
90-150	5142.68	N.A.	66.50
90-180	6860.11	N.A.	88.70
110-180	5823.65	N.A.	75.30
0-180	7731.89	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3.33
10-20	15.27
20-30	33.54
30-40	59.45
40-50	90.33
50-60	123.58
60-70	160.58
70-80	187.73
80-90	197.97
90-100	376.24
100-110	660.22
110-120	907.46
120-130	1053.94
130-140	1097.37
140-150	1047.46
150-160	892.43
160-170	609.19
170-180	215.80

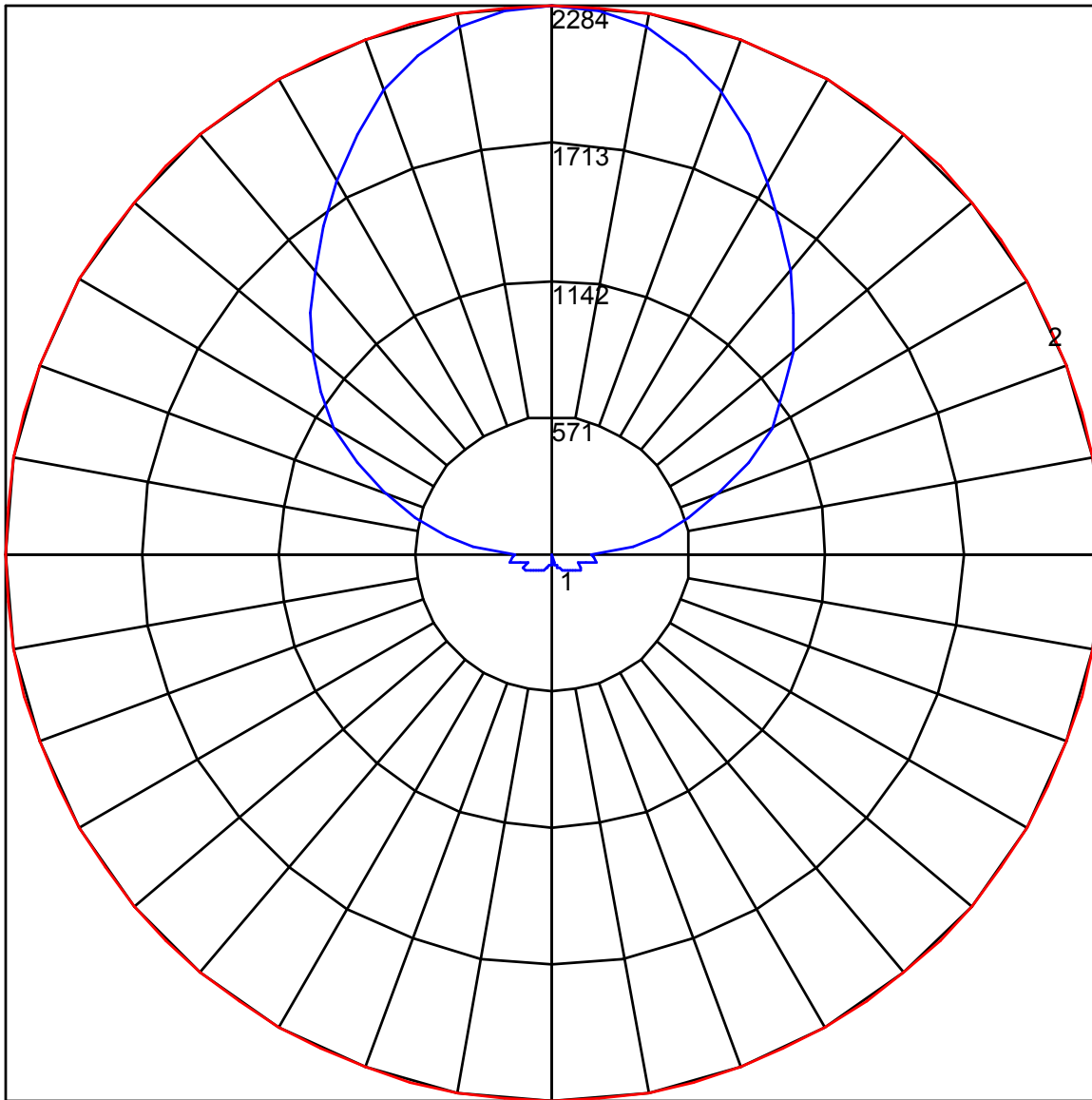
IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZUS-LED4LO-44-SAL-DM10.IES

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 = 2284.2 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.)