



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZUS-PRO-44-LED4-LO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L101409101
 [TESTLAB]
 [ISSUE DATE]
 [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	8505
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	61
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	348	426	342
55	481	613	481
65	730	967	779
75	1178	1476	1297
85	3228	3271	2413

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZUS-PRO-44-LED4-LO.IES

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>
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	41.58	41.58	41.58	41.58	41.58	41.58	39.60	39.60	39.60	39.60
10	47.52	47.52	49.50	49.50	49.50	49.50	47.52	47.52	47.52	47.52
15	57.42	57.42	57.42	57.42	59.40	59.40	59.40	59.40	59.40	59.40
20	65.34	65.34	65.34	67.32	67.32	69.30	71.28	71.28	73.26	73.26
25	73.26	75.24	75.24	77.22	79.20	81.18	81.18	81.18	83.16	83.16
30	83.16	83.16	85.14	89.10	91.08	93.06	95.04	95.04	95.04	95.04
35	95.04	97.02	99.00	100.98	102.96	106.92	108.90	108.90	110.88	110.88
40	102.96	104.94	106.92	112.86	116.82	120.78	122.76	124.74	126.72	128.70
45	112.86	114.84	118.80	122.76	126.72	130.68	136.62	140.58	142.56	140.58
50	118.80	120.78	124.74	130.68	136.62	142.56	146.52	150.48	152.46	154.44
55	128.70	130.68	134.64	140.58	146.52	154.44	160.38	164.34	166.32	168.30
60	142.56	144.54	150.48	156.42	162.36	168.30	174.24	180.18	184.14	184.14
65	148.50	150.48	158.40	168.30	176.22	186.12	192.06	198.00	201.96	203.94
70	122.76	126.72	136.62	148.50	162.36	176.22	190.08	201.96	211.86	215.82
75	156.42	160.38	166.32	174.24	184.14	190.08	196.02	198.00	199.98	207.90
80	201.96	201.96	207.90	215.82	223.74	231.66	237.60	241.56	243.54	237.60
85	188.10	190.08	194.04	201.96	209.88	215.82	221.76	223.74	221.76	217.80
90	174.24	176.22	182.16	192.06	201.96	209.88	217.80	225.72	227.70	227.70
95	366.30	370.26	378.18	388.08	399.96	411.84	421.74	429.66	433.62	433.62
100	495.00	500.94	514.80	528.66	544.50	560.34	572.22	580.14	586.08	584.10
105	649.44	655.38	669.24	683.10	698.94	712.80	722.70	730.62	734.58	732.60
110	821.70	825.66	839.52	851.40	863.28	873.18	881.10	887.04	889.02	885.06
115	993.96	997.92	1009.80	1019.70	1029.60	1035.54	1037.52	1039.50	1037.52	1033.56
120	1160.28	1162.26	1174.14	1180.08	1184.04	1184.04	1184.04	1182.06	1178.10	1174.14
125	1296.90	1298.88	1306.80	1310.76	1310.76	1308.78	1302.84	1298.88	1292.94	1290.96
130	1435.50	1435.50	1441.44	1443.42	1443.42	1437.48	1431.54	1425.60	1419.66	1415.70
135	1568.16	1568.16	1574.10	1574.10	1572.12	1566.18	1558.26	1554.30	1548.36	1544.40
140	1698.84	1700.82	1702.80	1704.78	1702.80	1696.86	1692.90	1688.94	1683.00	1683.00
145	1831.50	1833.48	1837.44	1839.42	1839.42	1837.44	1833.48	1831.50	1829.52	1829.52
150	1974.06	1974.06	1976.04	1980.00	1981.98	1983.96	1981.98	1983.96	1981.98	1981.98
155	2118.60	2118.60	2120.58	2124.54	2128.50	2130.48	2130.48	2132.46	2132.46	2132.46
160	2261.16	2259.18	2259.18	2259.18	2263.14	2267.10	2269.08	2269.08	2269.08	2271.06
165	2374.02	2376.00	2374.02	2374.02	2379.96	2383.92	2383.92	2383.92	2383.92	2383.92
170	2457.18	2455.20	2457.18	2457.18	2459.16	2459.16	2457.18	2457.18	2457.18	2459.16
175	2500.74	2500.74	2500.74	2500.74	2502.72	2502.72	2500.74	2498.76	2498.76	2498.76
180	2512.62	2512.62	2512.62	2512.62	2512.62	2512.62	2512.62	2512.62	2512.62	2512.62

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>
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	39.60	39.60	39.60	41.58	41.58	41.58	41.58	41.58	41.58
10	47.52	47.52	47.52	47.52	47.52	47.52	47.52	47.52	47.52
15	59.40	59.40	59.40	59.40	57.42	57.42	57.42	57.42	55.44
20	73.26	71.28	71.28	69.30	67.32	67.32	65.34	65.34	63.36
25	83.16	81.18	81.18	79.20	79.20	77.22	75.24	73.26	73.26
30	95.04	95.04	93.06	91.08	91.08	87.12	85.14	83.16	83.16
35	110.88	108.90	108.90	104.94	102.96	100.98	97.02	95.04	93.06
40	126.72	124.74	122.76	120.78	116.82	110.88	106.92	102.96	100.98
45	142.56	140.58	136.62	132.66	126.72	120.78	116.82	112.86	110.88
50	154.44	152.46	148.50	144.54	136.62	130.68	124.74	120.78	116.82
55	168.30	166.32	162.36	156.42	150.48	142.56	136.62	130.68	128.70
60	184.14	182.16	176.22	172.26	166.32	158.40	152.46	146.52	144.54

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZUS-PRO-44-LED4-LO.IES

CANDELA TABULATION - (Cont.)

65	203.94	201.96	198.00	192.06	184.14	174.24	166.32	160.38	158.40
70	215.82	215.82	211.86	203.94	194.04	184.14	174.24	166.32	164.34
75	213.84	219.78	215.82	209.88	199.98	190.08	180.18	174.24	172.26
80	229.68	219.78	211.86	207.90	203.94	196.02	190.08	184.14	182.16
85	209.88	199.98	188.10	178.20	168.30	158.40	148.50	142.56	140.58
90	225.72	219.78	211.86	199.98	190.08	178.20	168.30	162.36	160.38
95	427.68	417.78	405.90	390.06	374.22	358.38	344.52	334.62	330.66
100	578.16	566.28	550.44	532.62	512.82	493.02	473.22	459.36	453.42
105	726.66	714.78	698.94	681.12	661.32	641.52	623.70	607.86	601.92
110	879.12	869.22	855.36	841.50	825.66	807.84	792.00	776.16	770.22
115	1029.60	1021.68	1013.76	1003.86	991.98	978.12	964.26	950.40	946.44
120	1170.18	1166.22	1162.26	1158.30	1152.36	1144.44	1134.54	1122.66	1120.68
125	1288.98	1287.00	1287.00	1287.00	1287.00	1283.04	1277.10	1267.20	1265.22
130	1415.70	1417.68	1421.64	1425.60	1427.58	1427.58	1423.62	1417.68	1415.70
135	1546.38	1550.34	1556.28	1560.24	1566.18	1568.16	1566.18	1562.22	1562.22
140	1684.98	1686.96	1692.90	1698.84	1702.80	1706.76	1704.78	1702.80	1702.80
145	1831.50	1835.46	1837.44	1843.38	1845.36	1845.36	1843.38	1841.40	1841.40
150	1983.96	1987.92	1987.92	1989.90	1991.88	1987.92	1983.96	1981.98	1983.96
155	2134.44	2136.42	2136.42	2134.44	2134.44	2130.48	2130.48	2128.50	2128.50
160	2271.06	2271.06	2273.04	2271.06	2267.10	2263.14	2265.12	2267.10	2269.08
165	2383.92	2383.92	2385.90	2385.90	2381.94	2379.96	2377.98	2377.98	2377.98
170	2457.18	2459.16	2459.16	2461.14	2461.14	2461.14	2461.14	2459.16	2459.16
175	2498.76	2500.74	2502.72	2504.70	2504.70	2502.72	2502.72	2502.72	2502.72
180	2512.62	2512.62	2512.62	2512.62	2512.62	2512.62	2512.62	2512.62	2512.62

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZUS-PRO-44-LED4-LO.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	20.47	N.A.	0.20
0-30	57.36	N.A.	0.70
0-40	122.76	N.A.	1.40
0-60	358.06	N.A.	4.20
0-80	741.20	N.A.	8.70
0-90	958.97	N.A.	11.30
10-90	955.30	N.A.	11.20
20-40	102.29	N.A.	1.20
20-50	201.66	N.A.	2.40
40-70	411.94	N.A.	4.80
60-80	383.14	N.A.	4.50
70-80	206.50	N.A.	2.40
80-90	217.77	N.A.	2.60
90-110	1140.11	N.A.	13.40
90-120	2138.31	N.A.	25.10
90-130	3297.64	N.A.	38.80
90-150	5656.95	N.A.	66.50
90-180	7546.12	N.A.	88.70
110-180	6406.01	N.A.	75.30
0-180	8505.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3.66
10-20	16.80
20-30	36.90
30-40	65.40
40-50	99.36
50-60	135.93
60-70	176.64
70-80	206.50
80-90	217.77
90-100	413.86
100-110	726.25
110-120	998.20
120-130	1159.33
130-140	1207.11
140-150	1152.2
150-160	981.67
160-170	670.11
170-180	237.38

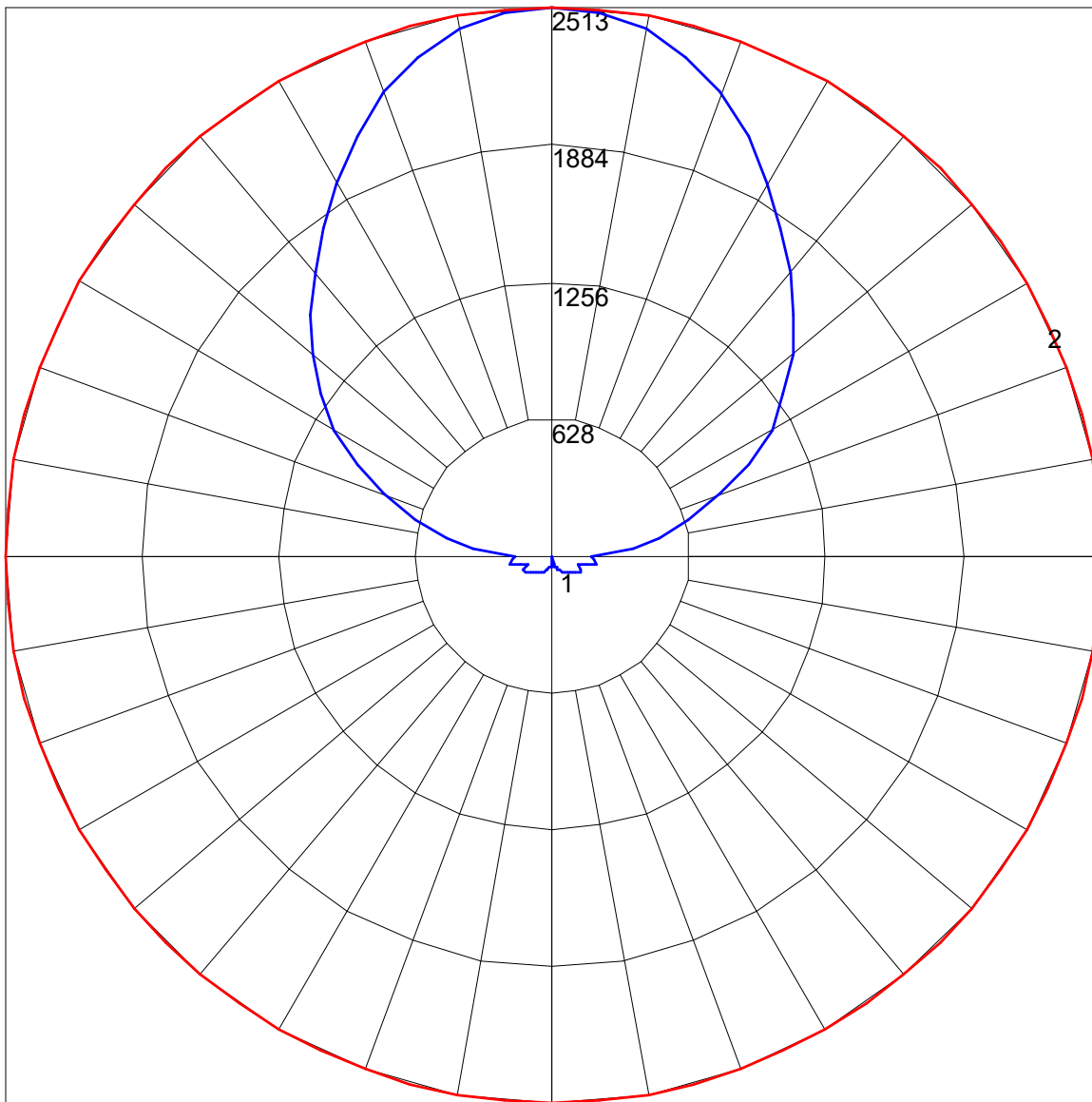
IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZUS-PRO-44-LED4-LO.IES

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 = 2512.62 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.)