



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZUS-44-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-44-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	9880
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	88
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZUS-44-LED4-MO.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	405	495	398
55	558	712	558
65	848	1123	905
75	1368	1714	1507
85	3750	3799	2803

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZUS-44-LED4-MO.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	48.3	48.3	48.3	48.3	48.3	48.3	46.0	46.0	46.0	46.0
10	55.2	55.2	57.5	57.5	57.5	57.5	55.2	55.2	55.2	55.2
15	66.7	66.7	66.7	66.7	69.0	69.0	69.0	69.0	69.0	69.0
20	75.9	75.9	75.9	78.2	78.2	80.5	82.8	82.8	85.1	85.1
25	85.1	87.4	87.4	89.7	92.0	94.3	94.3	94.3	96.6	96.6
30	96.6	96.6	98.9	103.5	105.8	108.1	110.4	110.4	110.4	110.4
35	110.4	112.7	115.0	117.3	119.6	124.2	126.5	126.5	128.8	128.8
40	119.6	121.9	124.2	131.1	135.7	140.3	142.6	144.9	147.2	149.5
45	131.1	133.4	138.0	142.6	147.2	151.8	158.7	163.3	165.6	163.3
50	138.0	140.3	144.9	151.8	158.7	165.6	170.2	174.8	177.1	179.4
55	149.5	151.8	156.4	163.3	170.2	179.4	186.3	190.9	193.2	195.5
60	165.6	167.9	174.8	181.7	188.6	195.5	202.4	209.3	213.9	213.9
65	172.5	174.8	184.0	195.5	204.7	216.2	223.1	230.0	234.6	236.9
70	142.6	147.2	158.7	172.5	188.6	204.7	220.8	234.6	246.1	250.7
75	181.7	186.3	193.2	202.4	213.9	220.8	227.7	230.0	232.3	241.5
80	234.6	234.6	241.5	250.7	259.9	269.1	276.0	280.6	282.9	276.0
85	218.5	220.8	225.4	234.6	243.8	250.7	257.6	259.9	257.6	253.0
90	202.4	204.7	211.6	223.1	234.6	243.8	253.0	262.2	264.5	264.5
95	425.5	430.1	439.3	450.8	464.6	478.4	489.9	499.1	503.7	503.7
100	575.0	581.9	598.0	614.1	632.5	650.9	664.7	673.9	680.8	678.5
105	754.4	761.3	777.4	793.5	811.9	828.0	839.5	848.7	853.3	851.0
110	954.5	959.1	975.2	989.0	1002.8	1014.3	1023.5	1030.4	1032.7	1028.1
115	1154.6	1159.2	1173.0	1184.5	1196.0	1202.9	1205.2	1207.5	1205.2	1200.6
120	1347.8	1350.1	1363.9	1370.8	1375.4	1375.4	1375.4	1373.1	1368.5	1363.9
125	1506.5	1508.8	1518.0	1522.6	1522.6	1520.3	1513.4	1508.8	1501.9	1499.6
130	1667.5	1667.5	1674.4	1676.7	1676.7	1669.8	1662.9	1656.0	1649.1	1644.5
135	1821.6	1821.6	1828.5	1828.5	1826.2	1819.3	1810.1	1805.5	1798.6	1794.0
140	1973.4	1975.7	1978.0	1980.3	1978.0	1971.1	1966.5	1961.9	1955.0	1955.0
145	2127.5	2129.8	2134.4	2136.7	2136.7	2134.4	2129.8	2127.5	2125.2	2125.2
150	2293.1	2293.1	2295.4	2300.0	2302.3	2304.6	2302.3	2304.6	2302.3	2302.3
155	2461.0	2461.0	2463.3	2467.9	2472.5	2474.8	2474.8	2477.1	2477.1	2477.1
160	2626.6	2624.3	2624.3	2624.3	2628.9	2633.5	2635.8	2635.8	2635.8	2638.1
165	2757.7	2760.0	2757.7	2757.7	2764.6	2769.2	2769.2	2769.2	2769.2	2769.2
170	2854.3	2852.0	2854.3	2854.3	2856.6	2856.6	2854.3	2854.3	2854.3	2856.6
175	2904.9	2904.9	2904.9	2904.9	2907.2	2907.2	2904.9	2902.6	2902.6	2902.6
180	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7

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	46.0	46.0	46.0	48.3	48.3	48.3	48.3	48.3	48.3
10	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
15	69.0	69.0	69.0	69.0	66.7	66.7	66.7	66.7	64.4
20	85.1	82.8	82.8	80.5	78.2	78.2	75.9	75.9	73.6
25	96.6	94.3	94.3	92.0	92.0	89.7	87.4	85.1	85.1
30	110.4	110.4	108.1	105.8	105.8	101.2	98.9	96.6	96.6
35	128.8	126.5	126.5	121.9	119.6	117.3	112.7	110.4	108.1
40	147.2	144.9	142.6	140.3	135.7	128.8	124.2	119.6	117.3
45	165.6	163.3	158.7	154.1	147.2	140.3	135.7	131.1	128.8
50	179.4	177.1	172.5	167.9	158.7	151.8	144.9	140.3	135.7
55	195.5	193.2	188.6	181.7	174.8	165.6	158.7	151.8	149.5
60	213.9	211.6	204.7	200.1	193.2	184.0	177.1	170.2	167.9

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZUS-44-LED4-MO.IES

CANDELA TABULATION - (Cont.)

65	236.9	234.6	230.0	223.1	213.9	202.4	193.2	186.3	184.0
70	250.7	250.7	246.1	236.9	225.4	213.9	202.4	193.2	190.9
75	248.4	255.3	250.7	243.8	232.3	220.8	209.3	202.4	200.1
80	266.8	255.3	246.1	241.5	236.9	227.7	220.8	213.9	211.6
85	243.8	232.3	218.5	207.0	195.5	184.0	172.5	165.6	163.3
90	262.2	255.3	246.1	232.3	220.8	207.0	195.5	188.6	186.3
95	496.8	485.3	471.5	453.1	434.7	416.3	400.2	388.7	384.1
100	671.6	657.8	639.4	618.7	595.7	572.7	549.7	533.6	526.7
105	844.1	830.3	811.9	791.2	768.2	745.2	724.5	706.1	699.2
110	1021.2	1009.7	993.6	977.5	959.1	938.4	920.0	901.6	894.7
115	1196.0	1186.8	1177.6	1166.1	1152.3	1136.2	1120.1	1104.0	1099.4
120	1359.3	1354.7	1350.1	1345.5	1338.6	1329.4	1317.9	1304.1	1301.8
125	1497.3	1495.0	1495.0	1495.0	1495.0	1490.4	1483.5	1472.0	1469.7
130	1644.5	1646.8	1651.4	1656.0	1658.3	1658.3	1653.7	1646.8	1644.5
135	1796.3	1800.9	1807.8	1812.4	1819.3	1821.6	1819.3	1814.7	1814.7
140	1957.3	1959.6	1966.5	1973.4	1978.0	1982.6	1980.3	1978.0	1978.0
145	2127.5	2132.1	2134.4	2141.3	2143.6	2143.6	2141.3	2139.0	2139.0
150	2304.6	2309.2	2309.2	2311.5	2313.8	2309.2	2304.6	2302.3	2304.6
155	2479.4	2481.7	2481.7	2479.4	2479.4	2474.8	2474.8	2472.5	2472.5
160	2638.1	2638.1	2640.4	2638.1	2633.5	2628.9	2631.2	2633.5	2635.8
165	2769.2	2769.2	2771.5	2771.5	2766.9	2764.6	2762.3	2762.3	2762.3
170	2854.3	2856.6	2856.6	2858.9	2858.9	2858.9	2858.9	2856.6	2856.6
175	2902.6	2904.9	2907.2	2909.5	2909.5	2907.2	2907.2	2907.2	2907.2
180	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZUS-44-LED4-MO.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	23.77	N.A.	0.20
0-30	66.63	N.A.	0.70
0-40	142.60	N.A.	1.40
0-60	415.93	N.A.	4.20
0-80	860.99	N.A.	8.70
0-90	1113.95	N.A.	11.30
10-90	1109.69	N.A.	11.20
20-40	118.83	N.A.	1.20
20-50	234.25	N.A.	2.40
40-70	478.51	N.A.	4.80
60-80	445.06	N.A.	4.50
70-80	239.87	N.A.	2.40
80-90	252.96	N.A.	2.60
90-110	1324.37	N.A.	13.40
90-120	2483.89	N.A.	25.10
90-130	3830.59	N.A.	38.80
90-150	6571.21	N.A.	66.50
90-180	8765.69	N.A.	88.70
110-180	7441.33	N.A.	75.30
0-180	9879.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4.26
10-20	19.52
20-30	42.86
30-40	75.96
40-50	115.42
50-60	157.90
60-70	205.19
70-80	239.87
80-90	252.96
90-100	480.75
100-110	843.62
110-120	1159.53
120-130	1346.69
130-140	1402.2
140-150	1338.42
150-160	1140.33
160-170	778.41
170-180	275.75

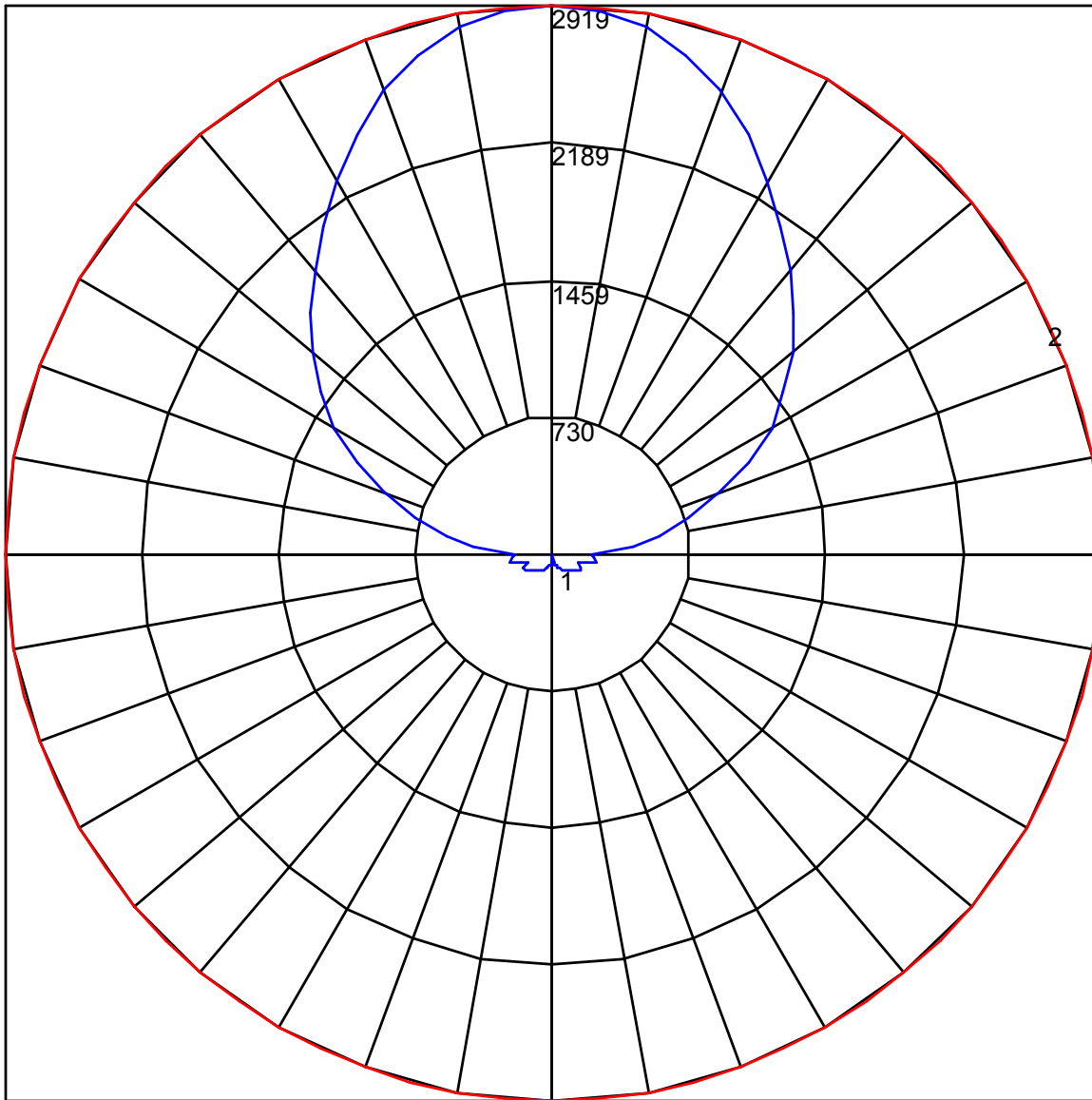
IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZUS-44-LED4-MO.IES

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 = 2918.7 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.)