



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZUS-33-LED4-SO.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-LED4SO
 [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	10481
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	108
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	429	525	422
55	592	755	592
65	900	1192	960
75	1451	1818	1598
85	3978	4030	2973

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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	51.24	51.24	51.24	51.24	51.24	51.24	48.80	48.80	48.80	48.80
10	58.56	58.56	61.00	61.00	61.00	61.00	58.56	58.56	58.56	58.56
15	70.76	70.76	70.76	70.76	73.20	73.20	73.20	73.20	73.20	73.20
20	80.52	80.52	80.52	82.96	82.96	85.40	87.84	87.84	90.28	90.28
25	90.28	92.72	92.72	95.16	97.60	100.04	100.04	100.04	102.48	102.48
30	102.48	102.48	104.92	109.80	112.24	114.68	117.12	117.12	117.12	117.12
35	117.12	119.56	122.00	124.44	126.88	131.76	134.20	134.20	136.64	136.64
40	126.88	129.32	131.76	139.08	143.96	148.84	151.28	153.72	156.16	158.60
45	139.08	141.52	146.40	151.28	156.16	161.04	168.36	173.24	175.68	173.24
50	146.40	148.84	153.72	161.04	168.36	175.68	180.56	185.44	187.88	190.32
55	158.60	161.04	165.92	173.24	180.56	190.32	197.64	202.52	204.96	207.40
60	175.68	178.12	185.44	192.76	200.08	207.40	214.72	222.04	226.92	226.92
65	183.00	185.44	195.20	207.40	217.16	229.36	236.68	244.00	248.88	251.32
70	151.28	156.16	168.36	183.00	200.08	217.16	234.24	248.88	261.08	265.96
75	192.76	197.64	204.96	214.72	226.92	234.24	241.56	244.00	246.44	256.20
80	248.88	248.88	256.20	265.96	275.72	285.48	292.80	297.68	300.12	292.80
85	231.80	234.24	239.12	248.88	258.64	265.96	273.28	275.72	273.28	268.40
90	214.72	217.16	224.48	236.68	248.88	258.64	268.40	278.16	280.60	280.60
95	451.40	456.28	466.04	478.24	492.88	507.52	519.72	529.48	534.36	534.36
100	610.00	617.32	634.40	651.48	671.00	690.52	705.16	714.92	722.24	719.80
105	800.32	807.64	824.72	841.80	861.32	878.40	890.60	900.36	905.24	902.80
110	1012.60	1017.48	1034.56	1049.20	1063.84	1076.04	1085.80	1093.12	1095.56	1090.68
115	1224.88	1229.76	1244.40	1256.60	1268.80	1276.12	1278.56	1281.00	1278.56	1273.68
120	1429.84	1432.28	1446.92	1454.24	1459.12	1459.12	1459.12	1456.68	1451.80	1446.92
125	1598.20	1600.64	1610.40	1615.28	1615.28	1612.84	1605.52	1600.64	1593.32	1590.88
130	1769.00	1769.00	1776.32	1778.76	1778.76	1771.44	1764.12	1756.80	1749.48	1744.60
135	1932.48	1932.48	1939.80	1939.80	1937.36	1930.04	1920.28	1915.40	1908.08	1903.20
140	2093.52	2095.96	2098.40	2100.84	2098.40	2091.08	2086.20	2081.32	2074.00	2074.00
145	2257.00	2259.44	2264.32	2266.76	2266.76	2264.32	2259.44	2257.00	2254.56	2254.56
150	2432.68	2432.68	2435.12	2440.00	2442.44	2444.88	2442.44	2444.88	2442.44	2442.44
155	2610.80	2610.80	2613.24	2618.12	2623.00	2625.44	2625.44	2627.88	2627.88	2627.88
160	2786.48	2784.04	2784.04	2784.04	2788.92	2793.80	2796.24	2796.24	2796.24	2798.68
165	2925.56	2928.00	2925.56	2925.56	2932.88	2937.76	2937.76	2937.76	2937.76	2937.76
170	3028.04	3025.60	3028.04	3028.04	3030.48	3030.48	3028.04	3028.04	3028.04	3030.48
175	3081.72	3081.72	3081.72	3081.72	3084.16	3084.16	3081.72	3079.28	3079.28	3079.28
180	3096.36	3096.36	3096.36	3096.36	3096.36	3096.36	3096.36	3096.36	3096.36	3096.36

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	48.80	48.80	48.80	51.24	51.24	51.24	51.24	51.24	51.24
10	58.56	58.56	58.56	58.56	58.56	58.56	58.56	58.56	58.56
15	73.20	73.20	73.20	73.20	70.76	70.76	70.76	70.76	68.32
20	90.28	87.84	87.84	85.40	82.96	82.96	80.52	80.52	78.08
25	102.48	100.04	100.04	97.60	97.60	95.16	92.72	90.28	90.28
30	117.12	117.12	114.68	112.24	112.24	107.36	104.92	102.48	102.48
35	136.64	134.20	134.20	129.32	126.88	124.44	119.56	117.12	114.68
40	156.16	153.72	151.28	148.84	143.96	136.64	131.76	126.88	124.44
45	175.68	173.24	168.36	163.48	156.16	148.84	143.96	139.08	136.64
50	190.32	187.88	183.00	178.12	168.36	161.04	153.72	148.84	143.96
55	207.40	204.96	200.08	192.76	185.44	175.68	168.36	161.04	158.60
60	226.92	224.48	217.16	212.28	204.96	195.20	187.88	180.56	178.12

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65	251.32	248.88	244.00	236.68	226.92	214.72	204.96	197.64	195.20
70	265.96	265.96	261.08	251.32	239.12	226.92	214.72	204.96	202.52
75	263.52	270.84	265.96	258.64	246.44	234.24	222.04	214.72	212.28
80	283.04	270.84	261.08	256.20	251.32	241.56	234.24	226.92	224.48
85	258.64	246.44	231.80	219.60	207.40	195.20	183.00	175.68	173.24
90	278.16	270.84	261.08	246.44	234.24	219.60	207.40	200.08	197.64
95	527.04	514.84	500.20	480.68	461.16	441.64	424.56	412.36	407.48
100	712.48	697.84	678.32	656.36	631.96	607.56	583.16	566.08	558.76
105	895.48	880.84	861.32	839.36	814.96	790.56	768.60	749.08	741.76
110	1083.36	1071.16	1054.08	1037.00	1017.48	995.52	976.00	956.48	949.16
115	1268.80	1259.04	1249.28	1237.08	1222.44	1205.36	1188.28	1171.20	1166.32
120	1442.04	1437.16	1432.28	1427.40	1420.08	1410.32	1398.12	1383.48	1381.04
125	1588.44	1586.00	1586.00	1586.00	1586.00	1581.12	1573.80	1561.60	1559.16
130	1744.60	1747.04	1751.92	1756.80	1759.24	1759.24	1754.36	1747.04	1744.60
135	1905.64	1910.52	1917.84	1922.72	1930.04	1932.48	1930.04	1925.16	1925.16
140	2076.44	2078.88	2086.20	2093.52	2098.40	2103.28	2100.84	2098.40	2098.40
145	2257.00	2261.88	2264.32	2271.64	2274.08	2274.08	2271.64	2269.20	2269.20
150	2444.88	2449.76	2449.76	2452.20	2454.64	2449.76	2444.88	2442.44	2444.88
155	2630.32	2632.76	2632.76	2630.32	2630.32	2625.44	2625.44	2623.00	2623.00
160	2798.68	2798.68	2801.12	2798.68	2793.80	2788.92	2791.36	2793.80	2796.24
165	2937.76	2937.76	2940.20	2940.20	2935.32	2932.88	2930.44	2930.44	2930.44
170	3028.04	3030.48	3030.48	3032.92	3032.92	3032.92	3032.92	3030.48	3030.48
175	3079.28	3081.72	3084.16	3086.60	3086.60	3084.16	3084.16	3084.16	3084.16
180	3096.36	3096.36	3096.36	3096.36	3096.36	3096.36	3096.36	3096.36	3096.36

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	25.22	N.A.	0.20
0-30	70.69	N.A.	0.70
0-40	151.28	N.A.	1.40
0-60	441.24	N.A.	4.20
0-80	913.39	N.A.	8.70
0-90	1181.76	N.A.	11.30
10-90	1177.24	N.A.	11.20
20-40	126.06	N.A.	1.20
20-50	248.51	N.A.	2.40
40-70	507.64	N.A.	4.80
60-80	472.15	N.A.	4.50
70-80	254.47	N.A.	2.40
80-90	268.36	N.A.	2.60
90-110	1404.98	N.A.	13.40
90-120	2635.09	N.A.	25.10
90-130	4063.75	N.A.	38.80
90-150	6971.19	N.A.	66.50
90-180	9299.25	N.A.	88.70
110-180	7894.28	N.A.	75.30
0-180	10481.01	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4.51
10-20	20.71
20-30	45.47
30-40	80.59
40-50	122.45
50-60	167.51
60-70	217.68
70-80	254.47
80-90	268.36
90-100	510.01
100-110	894.97
110-120	1230.11
120-130	1428.67
130-140	1487.55
140-150	1419.89
150-160	1209.74
160-170	825.79
170-180	292.53

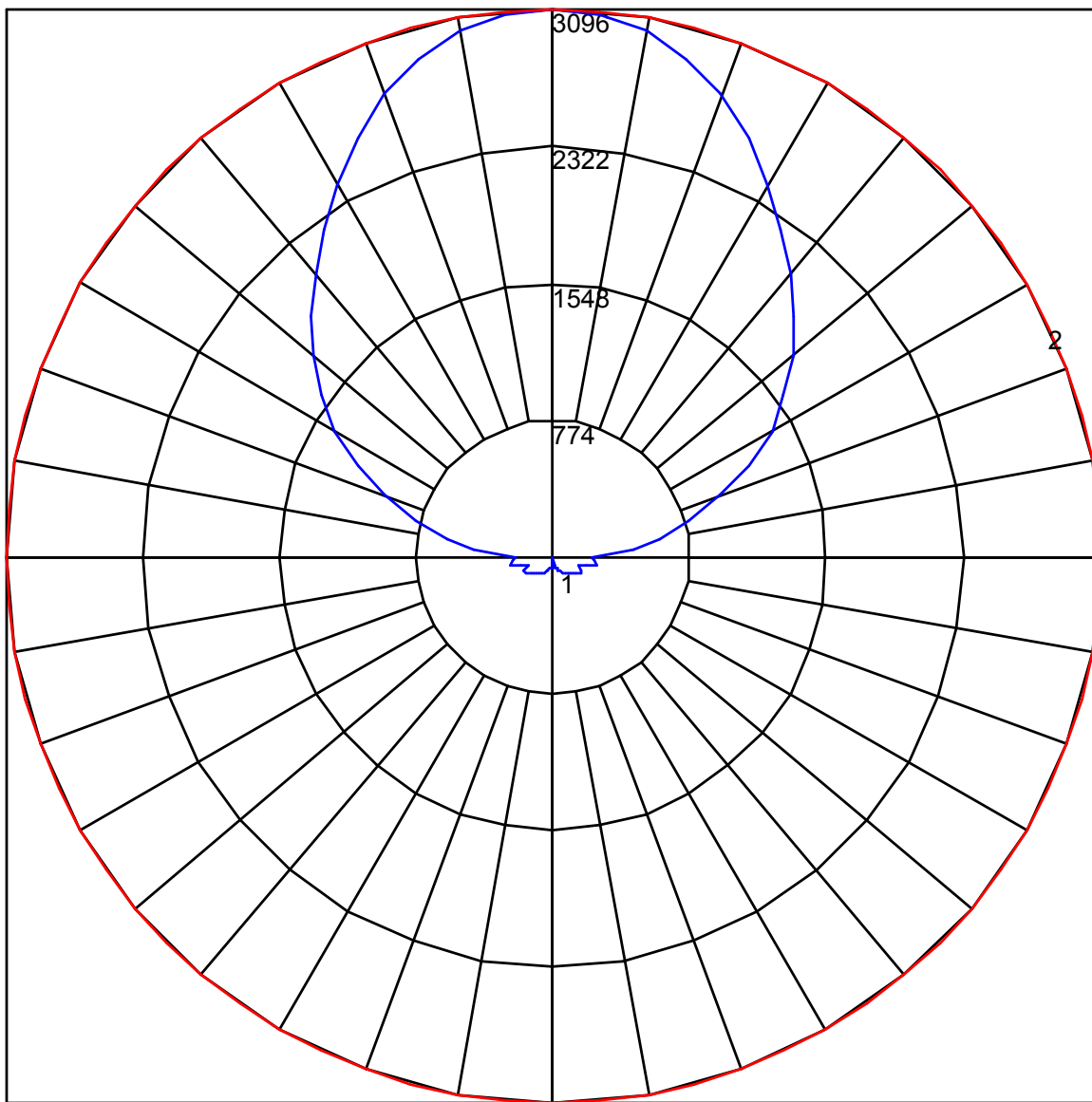
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 3096.36 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.)