



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZUS-PRO-33-LED4-SO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L101409101
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] ZDS-33-LED4-SO
 [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	14175
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	114
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	581	710	571
55	801	1022	801
65	1217	1612	1298
75	1963	2459	2162
85	5381	5451	4021

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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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	69.3	69.3	69.3	69.3	69.3	69.3	66.0	66.0	66.0	66.0
10	79.2	79.2	82.5	82.5	82.5	82.5	79.2	79.2	79.2	79.2
15	95.7	95.7	95.7	95.7	99.0	99.0	99.0	99.0	99.0	99.0
20	108.9	108.9	108.9	112.2	112.2	115.5	118.8	118.8	122.1	122.1
25	122.1	125.4	125.4	128.7	132.0	135.3	135.3	135.3	138.6	138.6
30	138.6	138.6	141.9	148.5	151.8	155.1	158.4	158.4	158.4	158.4
35	158.4	161.7	165.0	168.3	171.6	178.2	181.5	181.5	184.8	184.8
40	171.6	174.9	178.2	188.1	194.7	201.3	204.6	207.9	211.2	214.5
45	188.1	191.4	198.0	204.6	211.2	217.8	227.7	234.3	237.6	234.3
50	198.0	201.3	207.9	217.8	227.7	237.6	244.2	250.8	254.1	257.4
55	214.5	217.8	224.4	234.3	244.2	257.4	267.3	273.9	277.2	280.5
60	237.6	240.9	250.8	260.7	270.6	280.5	290.4	300.3	306.9	306.9
65	247.5	250.8	264.0	280.5	293.7	310.2	320.1	330.0	336.6	339.9
70	204.6	211.2	227.7	247.5	270.6	293.7	316.8	336.6	353.1	359.7
75	260.7	267.3	277.2	290.4	306.9	316.8	326.7	330.0	333.3	346.5
80	336.6	336.6	346.5	359.7	372.9	386.1	396.0	402.6	405.9	396.0
85	313.5	316.8	323.4	336.6	349.8	359.7	369.6	372.9	369.6	363.0
90	290.4	293.7	303.6	320.1	336.6	349.8	363.0	376.2	379.5	379.5
95	610.5	617.1	630.3	646.8	666.6	686.4	702.9	716.1	722.7	722.7
100	825.0	834.9	858.0	881.1	907.5	933.9	953.7	966.9	976.8	973.5
105	1082.4	1092.3	1115.4	1138.5	1164.9	1188.0	1204.5	1217.7	1224.3	1221.0
110	1369.5	1376.1	1399.2	1419.0	1438.8	1455.3	1468.5	1478.4	1481.7	1475.1
115	1656.6	1663.2	1683.0	1699.5	1716.0	1725.9	1729.2	1732.5	1729.2	1722.6
120	1933.8	1937.1	1956.9	1966.8	1973.4	1973.4	1973.4	1970.1	1963.5	1956.9
125	2161.5	2164.8	2178.0	2184.6	2184.6	2181.3	2171.4	2164.8	2154.9	2151.6
130	2392.5	2392.5	2402.4	2405.7	2405.7	2395.8	2385.9	2376.0	2366.1	2359.5
135	2613.6	2613.6	2623.5	2623.5	2620.2	2610.3	2597.1	2590.5	2580.6	2574.0
140	2831.4	2834.7	2838.0	2841.3	2838.0	2828.1	2821.5	2814.9	2805.0	2805.0
145	3052.5	3055.8	3062.4	3065.7	3065.7	3062.4	3055.8	3052.5	3049.2	3049.2
150	3290.1	3290.1	3293.4	3300.0	3303.3	3306.6	3303.3	3306.6	3303.3	3303.3
155	3531.0	3531.0	3534.3	3540.9	3547.5	3550.8	3550.8	3554.1	3554.1	3554.1
160	3768.6	3765.3	3765.3	3765.3	3771.9	3778.5	3781.8	3781.8	3781.8	3785.1
165	3956.7	3960.0	3956.7	3956.7	3966.6	3973.2	3973.2	3973.2	3973.2	3973.2
170	4095.3	4092.0	4095.3	4095.3	4098.6	4098.6	4095.3	4095.3	4095.3	4098.6
175	4167.9	4167.9	4167.9	4167.9	4171.2	4171.2	4167.9	4164.6	4164.6	4164.6
180	4187.7	4187.7	4187.7	4187.7	4187.7	4187.7	4187.7	4187.7	4187.7	4187.7

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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	66.0	66.0	66.0	69.3	69.3	69.3	69.3	69.3	69.3
10	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
15	99.0	99.0	99.0	99.0	95.7	95.7	95.7	95.7	92.4
20	122.1	118.8	118.8	115.5	112.2	112.2	108.9	108.9	105.6
25	138.6	135.3	135.3	132.0	132.0	128.7	125.4	122.1	122.1
30	158.4	158.4	155.1	151.8	151.8	145.2	141.9	138.6	138.6
35	184.8	181.5	181.5	174.9	171.6	168.3	161.7	158.4	155.1
40	211.2	207.9	204.6	201.3	194.7	184.8	178.2	171.6	168.3
45	237.6	234.3	227.7	221.1	211.2	201.3	194.7	188.1	184.8
50	257.4	254.1	247.5	240.9	227.7	217.8	207.9	201.3	194.7
55	280.5	277.2	270.6	260.7	250.8	237.6	227.7	217.8	214.5
60	306.9	303.6	293.7	287.1	277.2	264.0	254.1	244.2	240.9

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CANDELA TABULATION - (Cont.)

65	339.9	336.6	330.0	320.1	306.9	290.4	277.2	267.3	264.0
70	359.7	359.7	353.1	339.9	323.4	306.9	290.4	277.2	273.9
75	356.4	366.3	359.7	349.8	333.3	316.8	300.3	290.4	287.1
80	382.8	366.3	353.1	346.5	339.9	326.7	316.8	306.9	303.6
85	349.8	333.3	313.5	297.0	280.5	264.0	247.5	237.6	234.3
90	376.2	366.3	353.1	333.3	316.8	297.0	280.5	270.6	267.3
95	712.8	696.3	676.5	650.1	623.7	597.3	574.2	557.7	551.1
100	963.6	943.8	917.4	887.7	854.7	821.7	788.7	765.6	755.7
105	1211.1	1191.3	1164.9	1135.2	1102.2	1069.2	1039.5	1013.1	1003.2
110	1465.2	1448.7	1425.6	1402.5	1376.1	1346.4	1320.0	1293.6	1283.7
115	1716.0	1702.8	1689.6	1673.1	1653.3	1630.2	1607.1	1584.0	1577.4
120	1950.3	1943.7	1937.1	1930.5	1920.6	1907.4	1890.9	1871.1	1867.8
125	2148.3	2145.0	2145.0	2145.0	2145.0	2138.4	2128.5	2112.0	2108.7
130	2359.5	2362.8	2369.4	2376.0	2379.3	2379.3	2372.7	2362.8	2359.5
135	2577.3	2583.9	2593.8	2600.4	2610.3	2613.6	2610.3	2603.7	2603.7
140	2808.3	2811.6	2821.5	2831.4	2838.0	2844.6	2841.3	2838.0	2838.0
145	3052.5	3059.1	3062.4	3072.3	3075.6	3075.6	3072.3	3069.0	3069.0
150	3306.6	3313.2	3313.2	3316.5	3319.8	3313.2	3306.6	3303.3	3306.6
155	3557.4	3560.7	3560.7	3557.4	3557.4	3550.8	3550.8	3547.5	3547.5
160	3785.1	3785.1	3788.4	3785.1	3778.5	3771.9	3775.2	3778.5	3781.8
165	3973.2	3973.2	3976.5	3976.5	3969.9	3966.6	3963.3	3963.3	3963.3
170	4095.3	4098.6	4098.6	4101.9	4101.9	4101.9	4101.9	4098.6	4098.6
175	4164.6	4167.9	4171.2	4174.5	4174.5	4171.2	4171.2	4171.2	4171.2
180	4187.7	4187.7	4187.7	4187.7	4187.7	4187.7	4187.7	4187.7	4187.7

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	34.11	N.A.	0.20
0-30	95.61	N.A.	0.70
0-40	204.60	N.A.	1.40
0-60	596.76	N.A.	4.20
0-80	1235.33	N.A.	8.70
0-90	1598.28	N.A.	11.30
10-90	1592.17	N.A.	11.20
20-40	170.49	N.A.	1.20
20-50	336.10	N.A.	2.40
40-70	686.56	N.A.	4.80
60-80	638.56	N.A.	4.50
70-80	344.17	N.A.	2.40
80-90	362.95	N.A.	2.60
90-110	1900.18	N.A.	13.40
90-120	3563.84	N.A.	25.10
90-130	5496.06	N.A.	38.80
90-150	9428.25	N.A.	66.50
90-180	12576.86	N.A.	88.70
110-180	10676.68	N.A.	75.30
0-180	14175.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	6.11
10-20	28.00
20-30	61.50
30-40	108.99
40-50	165.61
50-60	226.56
60-70	294.40
70-80	344.17
80-90	362.95
90-100	689.77
100-110	1210.41
110-120	1663.67
120-130	1932.21
130-140	2011.85
140-150	1920.34
150-160	1636.12
160-170	1116.85
170-180	395.63

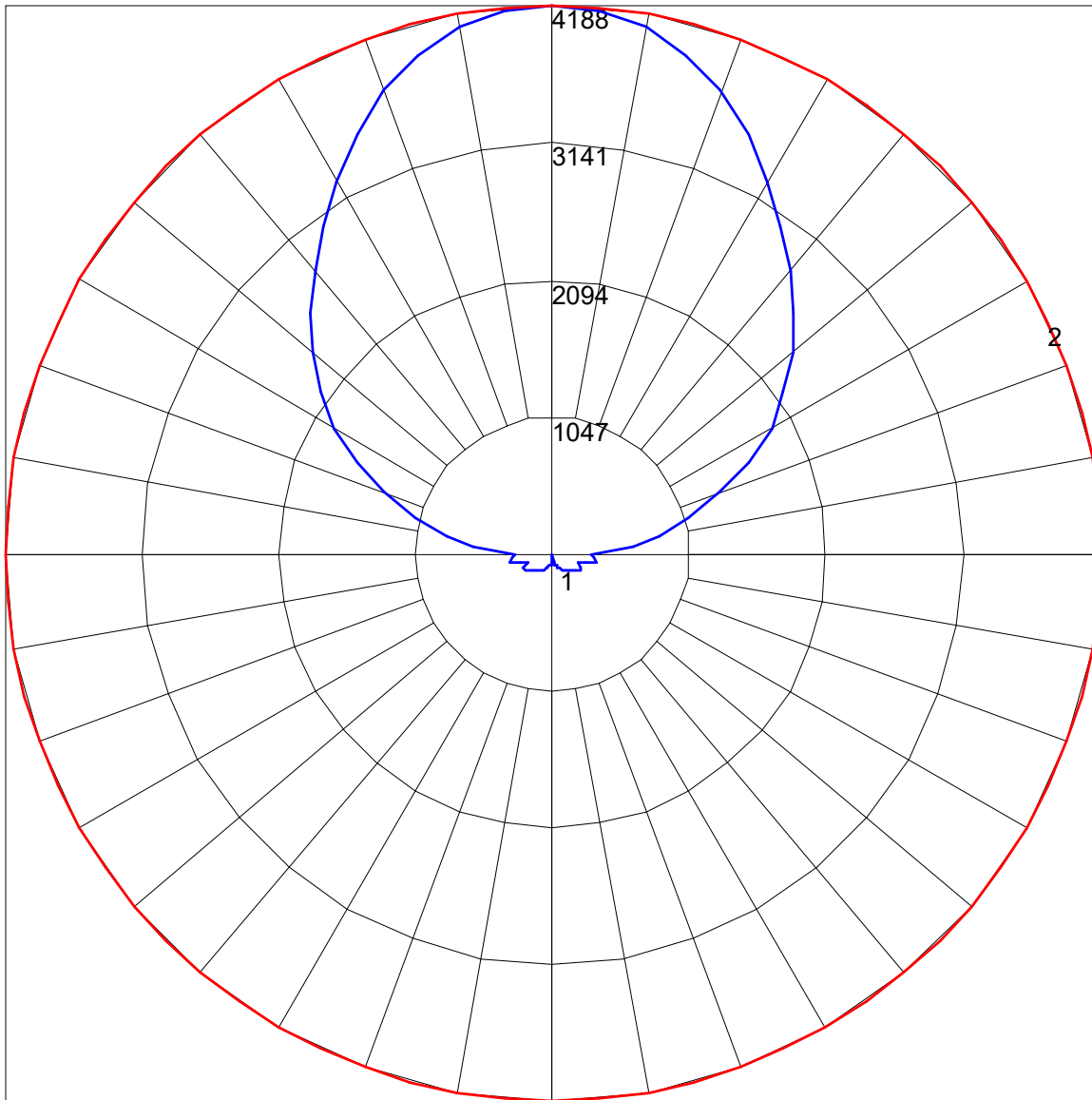
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 4187.7 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.)