



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L101409101
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] ZDS-PRO-44-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	18900
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	152
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	774	947	761
55	1068	1362	1068
65	1623	2149	1731
75	2617	3279	2882
85	7174	7268	5362

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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	92.4	92.4	92.4	92.4	92.4	92.4	88.0	88.0	88.0	88.0
10	105.6	105.6	110.0	110.0	110.0	110.0	105.6	105.6	105.6	105.6
15	127.6	127.6	127.6	127.6	132.0	132.0	132.0	132.0	132.0	132.0
20	145.2	145.2	145.2	149.6	149.6	154.0	158.4	158.4	162.8	162.8
25	162.8	167.2	167.2	171.6	176.0	180.4	180.4	180.4	184.8	184.8
30	184.8	184.8	189.2	198.0	202.4	206.8	211.2	211.2	211.2	211.2
35	211.2	215.6	220.0	224.4	228.8	237.6	242.0	242.0	246.4	246.4
40	228.8	233.2	237.6	250.8	259.6	268.4	272.8	277.2	281.6	286.0
45	250.8	255.2	264.0	272.8	281.6	290.4	303.6	312.4	316.8	312.4
50	264.0	268.4	277.2	290.4	303.6	316.8	325.6	334.4	338.8	343.2
55	286.0	290.4	299.2	312.4	325.6	343.2	356.4	365.2	369.6	374.0
60	316.8	321.2	334.4	347.6	360.8	374.0	387.2	400.4	409.2	409.2
65	330.0	334.4	352.0	374.0	391.6	413.6	426.8	440.0	448.8	453.2
70	272.8	281.6	303.6	330.0	360.8	391.6	422.4	448.8	470.8	479.6
75	347.6	356.4	369.6	387.2	409.2	422.4	435.6	440.0	444.4	462.0
80	448.8	448.8	462.0	479.6	497.2	514.8	528.0	536.8	541.2	528.0
85	418.0	422.4	431.2	448.8	466.4	479.6	492.8	497.2	492.8	484.0
90	387.2	391.6	404.8	426.8	448.8	466.4	484.0	501.6	506.0	506.0
95	814.0	822.8	840.4	862.4	888.8	915.2	937.2	954.8	963.6	963.6
100	1100.0	1113.2	1144.0	1174.8	1210.0	1245.2	1271.6	1289.2	1302.4	1298.0
105	1443.2	1456.4	1487.2	1518.0	1553.2	1584.0	1606.0	1623.6	1632.4	1628.0
110	1826.0	1834.8	1865.6	1892.0	1918.4	1940.4	1958.0	1971.2	1975.6	1966.8
115	2208.8	2217.6	2244.0	2266.0	2288.0	2301.2	2305.6	2310.0	2305.6	2296.8
120	2578.4	2582.8	2609.2	2622.4	2631.2	2631.2	2631.2	2626.8	2618.0	2609.2
125	2882.0	2886.4	2904.0	2912.8	2912.8	2908.4	2895.2	2886.4	2873.2	2868.8
130	3190.0	3190.0	3203.2	3207.6	3207.6	3194.4	3181.2	3168.0	3154.8	3146.0
135	3484.8	3484.8	3498.0	3498.0	3493.6	3480.4	3462.8	3454.0	3440.8	3432.0
140	3775.2	3779.6	3784.0	3788.4	3784.0	3770.8	3762.0	3753.2	3740.0	3740.0
145	4070.0	4074.4	4083.2	4087.6	4087.6	4083.2	4074.4	4070.0	4065.6	4065.6
150	4386.8	4386.8	4391.2	4400.0	4404.4	4408.8	4404.4	4408.8	4404.4	4404.4
155	4708.0	4708.0	4712.4	4721.2	4730.0	4734.4	4734.4	4738.8	4738.8	4738.8
160	5024.8	5020.4	5020.4	5020.4	5029.2	5038.0	5042.4	5042.4	5042.4	5046.8
165	5275.6	5280.0	5275.6	5275.6	5288.8	5297.6	5297.6	5297.6	5297.6	5297.6
170	5460.4	5456.0	5460.4	5460.4	5464.8	5464.8	5460.4	5460.4	5460.4	5464.8
175	5557.2	5557.2	5557.2	5557.2	5561.6	5561.6	5557.2	5552.8	5552.8	5552.8
180	5583.6	5583.6	5583.6	5583.6	5583.6	5583.6	5583.6	5583.6	5583.6	5583.6

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	88.0	88.0	88.0	92.4	92.4	92.4	92.4	92.4	92.4
10	105.6	105.6	105.6	105.6	105.6	105.6	105.6	105.6	105.6
15	132.0	132.0	132.0	132.0	127.6	127.6	127.6	127.6	123.2
20	162.8	158.4	158.4	154.0	149.6	149.6	145.2	145.2	140.8
25	184.8	180.4	180.4	176.0	176.0	171.6	167.2	162.8	162.8
30	211.2	211.2	206.8	202.4	202.4	193.6	189.2	184.8	184.8
35	246.4	242.0	242.0	233.2	228.8	224.4	215.6	211.2	206.8
40	281.6	277.2	272.8	268.4	259.6	246.4	237.6	228.8	224.4
45	316.8	312.4	303.6	294.8	281.6	268.4	259.6	250.8	246.4
50	343.2	338.8	330.0	321.2	303.6	290.4	277.2	268.4	259.6
55	374.0	369.6	360.8	347.6	334.4	316.8	303.6	290.4	286.0
60	409.2	404.8	391.6	382.8	369.6	352.0	338.8	325.6	321.2

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CANDELA TABULATION - (Cont.)

65	453.2	448.8	440.0	426.8	409.2	387.2	369.6	356.4	352.0
70	479.6	479.6	470.8	453.2	431.2	409.2	387.2	369.6	365.2
75	475.2	488.4	479.6	466.4	444.4	422.4	400.4	387.2	382.8
80	510.4	488.4	470.8	462.0	453.2	435.6	422.4	409.2	404.8
85	466.4	444.4	418.0	396.0	374.0	352.0	330.0	316.8	312.4
90	501.6	488.4	470.8	444.4	422.4	396.0	374.0	360.8	356.4
95	950.4	928.4	902.0	866.8	831.6	796.4	765.6	743.6	734.8
100	1284.8	1258.4	1223.2	1183.6	1139.6	1095.6	1051.6	1020.8	1007.6
105	1614.8	1588.4	1553.2	1513.6	1469.6	1425.6	1386.0	1350.8	1337.6
110	1953.6	1931.6	1900.8	1870.0	1834.8	1795.2	1760.0	1724.8	1711.6
115	2288.0	2270.4	2252.8	2230.8	2204.4	2173.6	2142.8	2112.0	2103.2
120	2600.4	2591.6	2582.8	2574.0	2560.8	2543.2	2521.2	2494.8	2490.4
125	2864.4	2860.0	2860.0	2860.0	2860.0	2851.2	2838.0	2816.0	2811.6
130	3146.0	3150.4	3159.2	3168.0	3172.4	3172.4	3163.6	3150.4	3146.0
135	3436.4	3445.2	3458.4	3467.2	3480.4	3484.8	3480.4	3471.6	3471.6
140	3744.4	3748.8	3762.0	3775.2	3784.0	3792.8	3788.4	3784.0	3784.0
145	4070.0	4078.8	4083.2	4096.4	4100.8	4100.8	4096.4	4092.0	4092.0
150	4408.8	4417.6	4417.6	4422.0	4426.4	4417.6	4408.8	4404.4	4408.8
155	4743.2	4747.6	4747.6	4743.2	4743.2	4734.4	4734.4	4730.0	4730.0
160	5046.8	5046.8	5051.2	5046.8	5038.0	5029.2	5033.6	5038.0	5042.4
165	5297.6	5297.6	5302.0	5302.0	5293.2	5288.8	5284.4	5284.4	5284.4
170	5460.4	5464.8	5464.8	5469.2	5469.2	5469.2	5469.2	5464.8	5464.8
175	5552.8	5557.2	5561.6	5566.0	5566.0	5561.6	5561.6	5561.6	5561.6
180	5583.6	5583.6	5583.6	5583.6	5583.6	5583.6	5583.6	5583.6	5583.6

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	45.48	N.A.	0.20
0-30	127.47	N.A.	0.70
0-40	272.80	N.A.	1.40
0-60	795.68	N.A.	4.20
0-80	1647.1	N.A.	8.70
0-90	2131.03	N.A.	11.30
10-90	2122.89	N.A.	11.20
20-40	227.32	N.A.	1.20
20-50	448.13	N.A.	2.40
40-70	915.42	N.A.	4.80
60-80	851.42	N.A.	4.50
70-80	458.89	N.A.	2.40
80-90	483.93	N.A.	2.60
90-110	2533.57	N.A.	13.40
90-120	4751.79	N.A.	25.10
90-130	7328.08	N.A.	38.80
90-150	12571.00	N.A.	66.50
90-180	16769.15	N.A.	88.70
110-180	14235.58	N.A.	75.30
0-180	18900.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	8.14
10-20	37.34
20-30	82.00
30-40	145.32
40-50	220.81
50-60	302.08
60-70	392.53
70-80	458.89
80-90	483.93
90-100	919.69
100-110	1613.88
110-120	2218.22
120-130	2576.29
130-140	2682.47
140-150	2560.45
150-160	2181.5
160-170	1489.14
170-180	527.51

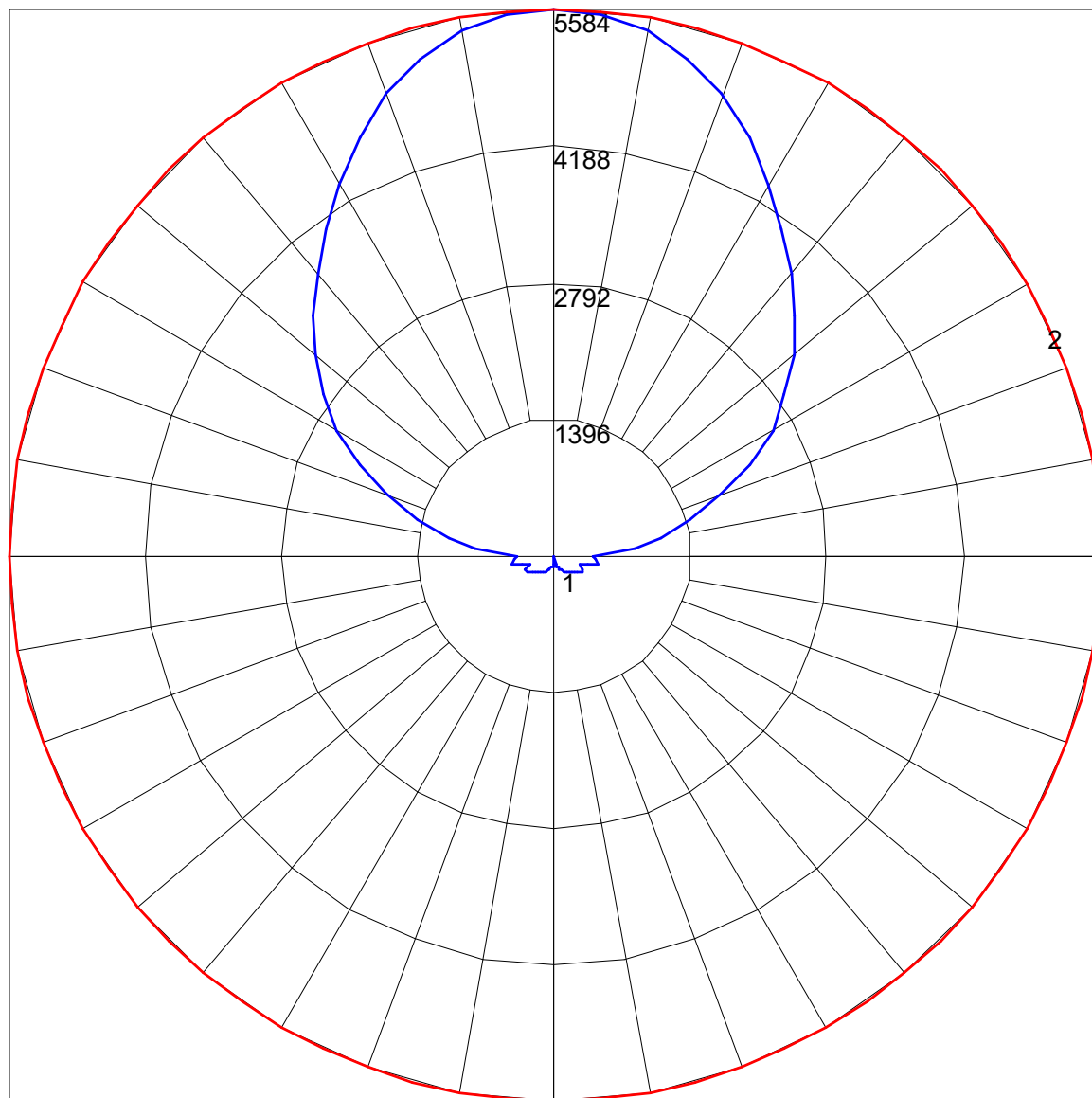
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 5583.6 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.)