



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L101409101
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] ZDS-33-LED4-HO
 [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	18041
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	150
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	739	904	726
55	1020	1300	1020
65	1549	2051	1652
75	2498	3130	2751
85	6848	6938	5118

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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	88.2	88.2	88.2	88.2	88.2	88.2	84.0	84.0	84.0	84.0
10	100.8	100.8	105.0	105.0	105.0	105.0	100.8	100.8	100.8	100.8
15	121.8	121.8	121.8	121.8	126.0	126.0	126.0	126.0	126.0	126.0
20	138.6	138.6	138.6	142.8	142.8	147.0	151.2	151.2	155.4	155.4
25	155.4	159.6	159.6	163.8	168.0	172.2	172.2	172.2	176.4	176.4
30	176.4	176.4	180.6	189.0	193.2	197.4	201.6	201.6	201.6	201.6
35	201.6	205.8	210.0	214.2	218.4	226.8	231.0	231.0	235.2	235.2
40	218.4	222.6	226.8	239.4	247.8	256.2	260.4	264.6	268.8	273.0
45	239.4	243.6	252.0	260.4	268.8	277.2	289.8	298.2	302.4	298.2
50	252.0	256.2	264.6	277.2	289.8	302.4	310.8	319.2	323.4	327.6
55	273.0	277.2	285.6	298.2	310.8	327.6	340.2	348.6	352.8	357.0
60	302.4	306.6	319.2	331.8	344.4	357.0	369.6	382.2	390.6	390.6
65	315.0	319.2	336.0	357.0	373.8	394.8	407.4	420.0	428.4	432.6
70	260.4	268.8	289.8	315.0	344.4	373.8	403.2	428.4	449.4	457.8
75	331.8	340.2	352.8	369.6	390.6	403.2	415.8	420.0	424.2	441.0
80	428.4	428.4	441.0	457.8	474.6	491.4	504.0	512.4	516.6	504.0
85	399.0	403.2	411.6	428.4	445.2	457.8	470.4	474.6	470.4	462.0
90	369.6	373.8	386.4	407.4	428.4	445.2	462.0	478.8	483.0	483.0
95	777.0	785.4	802.2	823.2	848.4	873.6	894.6	911.4	919.8	919.8
100	1050.0	1062.6	1092.0	1121.4	1155.0	1188.6	1213.8	1230.6	1243.2	1239.0
105	1377.6	1390.2	1419.6	1449.0	1482.6	1512.0	1533.0	1549.8	1558.2	1554.0
110	1743.0	1751.4	1780.8	1806.0	1831.2	1852.2	1869.0	1881.6	1885.8	1877.4
115	2108.4	2116.8	2142.0	2163.0	2184.0	2196.6	2200.8	2205.0	2200.8	2192.4
120	2461.2	2465.4	2490.6	2503.2	2511.6	2511.6	2511.6	2507.4	2499.0	2490.6
125	2751.0	2755.2	2772.0	2780.4	2780.4	2776.2	2763.6	2755.2	2742.6	2738.4
130	3045.0	3045.0	3057.6	3061.8	3061.8	3049.2	3036.6	3024.0	3011.4	3003.0
135	3326.4	3326.4	3339.0	3339.0	3334.8	3322.2	3305.4	3297.0	3284.4	3276.0
140	3603.6	3607.8	3612.0	3616.2	3612.0	3599.4	3591.0	3582.6	3570.0	3570.0
145	3885.0	3889.2	3897.6	3901.8	3901.8	3897.6	3889.2	3885.0	3880.8	3880.8
150	4187.4	4187.4	4191.6	4200.0	4204.2	4208.4	4204.2	4208.4	4204.2	4204.2
155	4494.0	4494.0	4498.2	4506.6	4515.0	4519.2	4519.2	4523.4	4523.4	4523.4
160	4796.4	4792.2	4792.2	4792.2	4800.6	4809.0	4813.2	4813.2	4813.2	4817.4
165	5035.8	5040.0	5035.8	5035.8	5048.4	5056.8	5056.8	5056.8	5056.8	5056.8
170	5212.2	5208.0	5212.2	5212.2	5216.4	5216.4	5212.2	5212.2	5212.2	5216.4
175	5304.6	5304.6	5304.6	5304.6	5308.8	5308.8	5304.6	5300.4	5300.4	5300.4
180	5329.8	5329.8	5329.8	5329.8	5329.8	5329.8	5329.8	5329.8	5329.8	5329.8

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	84.0	84.0	84.0	88.2	88.2	88.2	88.2	88.2	88.2
10	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8
15	126.0	126.0	126.0	126.0	121.8	121.8	121.8	121.8	117.6
20	155.4	151.2	151.2	147.0	142.8	142.8	138.6	138.6	134.4
25	176.4	172.2	172.2	168.0	168.0	163.8	159.6	155.4	155.4
30	201.6	201.6	197.4	193.2	193.2	184.8	180.6	176.4	176.4
35	235.2	231.0	231.0	222.6	218.4	214.2	205.8	201.6	197.4
40	268.8	264.6	260.4	256.2	247.8	235.2	226.8	218.4	214.2
45	302.4	298.2	289.8	281.4	268.8	256.2	247.8	239.4	235.2
50	327.6	323.4	315.0	306.6	289.8	277.2	264.6	256.2	247.8
55	357.0	352.8	344.4	331.8	319.2	302.4	289.8	277.2	273.0
60	390.6	386.4	373.8	365.4	352.8	336.0	323.4	310.8	306.6

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CANDELA TABULATION - (Cont.)

65	432.6	428.4	420.0	407.4	390.6	369.6	352.8	340.2	336.0
70	457.8	457.8	449.4	432.6	411.6	390.6	369.6	352.8	348.6
75	453.6	466.2	457.8	445.2	424.2	403.2	382.2	369.6	365.4
80	487.2	466.2	449.4	441.0	432.6	415.8	403.2	390.6	386.4
85	445.2	424.2	399.0	378.0	357.0	336.0	315.0	302.4	298.2
90	478.8	466.2	449.4	424.2	403.2	378.0	357.0	344.4	340.2
95	907.2	886.2	861.0	827.4	793.8	760.2	730.8	709.8	701.4
100	1226.4	1201.2	1167.6	1129.8	1087.8	1045.8	1003.8	974.4	961.8
105	1541.4	1516.2	1482.6	1444.8	1402.8	1360.8	1323.0	1289.4	1276.8
110	1864.8	1843.8	1814.4	1785.0	1751.4	1713.6	1680.0	1646.4	1633.8
115	2184.0	2167.2	2150.4	2129.4	2104.2	2074.8	2045.4	2016.0	2007.6
120	2482.2	2473.8	2465.4	2457.0	2444.4	2427.6	2406.6	2381.4	2377.2
125	2734.2	2730.0	2730.0	2730.0	2730.0	2721.6	2709.0	2688.0	2683.8
130	3003.0	3007.2	3015.6	3024.0	3028.2	3028.2	3019.8	3007.2	3003.0
135	3280.2	3288.6	3301.2	3309.6	3322.2	3326.4	3322.2	3313.8	3313.8
140	3574.2	3578.4	3591.0	3603.6	3612.0	3620.4	3616.2	3612.0	3612.0
145	3885.0	3893.4	3897.6	3910.2	3914.4	3914.4	3910.2	3906.0	3906.0
150	4208.4	4216.8	4216.8	4221.0	4225.2	4216.8	4208.4	4204.2	4208.4
155	4527.6	4531.8	4531.8	4527.6	4527.6	4519.2	4519.2	4515.0	4515.0
160	4817.4	4817.4	4821.6	4817.4	4809.0	4800.6	4804.8	4809.0	4813.2
165	5056.8	5056.8	5061.0	5061.0	5052.6	5048.4	5044.2	5044.2	5044.2
170	5212.2	5216.4	5216.4	5220.6	5220.6	5220.6	5220.6	5216.4	5216.4
175	5300.4	5304.6	5308.8	5313.0	5313.0	5308.8	5308.8	5308.8	5308.8
180	5329.8	5329.8	5329.8	5329.8	5329.8	5329.8	5329.8	5329.8	5329.8

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	43.41	N.A.	0.20
0-30	121.68	N.A.	0.70
0-40	260.40	N.A.	1.40
0-60	759.52	N.A.	4.20
0-80	1572.23	N.A.	8.70
0-90	2034.17	N.A.	11.30
10-90	2026.4	N.A.	11.20
20-40	216.99	N.A.	1.20
20-50	427.76	N.A.	2.40
40-70	873.81	N.A.	4.80
60-80	812.72	N.A.	4.50
70-80	438.03	N.A.	2.40
80-90	461.93	N.A.	2.60
90-110	2418.41	N.A.	13.40
90-120	4535.8	N.A.	25.10
90-130	6994.98	N.A.	38.80
90-150	11999.59	N.A.	66.50
90-180	16006.91	N.A.	88.70
110-180	13588.51	N.A.	75.30
0-180	18041.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	7.77
10-20	35.64
20-30	78.27
30-40	138.72
40-50	210.77
50-60	288.35
60-70	374.69
70-80	438.03
80-90	461.93
90-100	877.88
100-110	1540.52
110-120	2117.4
120-130	2459.18
130-140	2560.54
140-150	2444.07
150-160	2082.34
160-170	1421.45
170-180	503.54

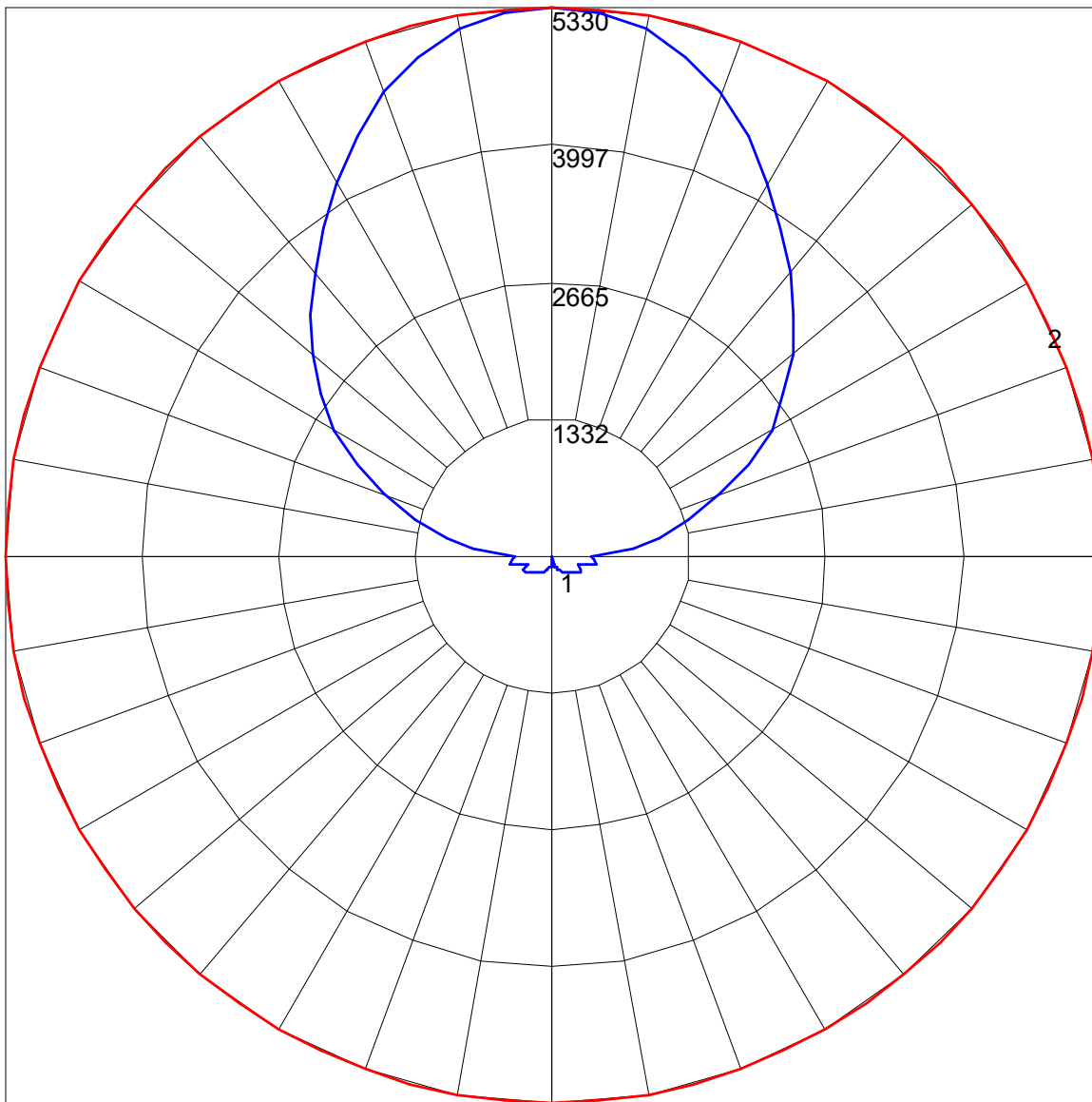
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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 = 5329.8 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.)