



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L101409101
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] ZDS-PRO-44-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	24914
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	200
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	1021	1249	1003
55	1408	1796	1408
65	2139	2832	2282
75	3450	4322	3799
85	9457	9581	7068

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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	121.8	121.8	121.8	121.8	121.8	121.8	116.0	116.0	116.0	116.0
10	139.2	139.2	145.0	145.0	145.0	145.0	139.2	139.2	139.2	139.2
15	168.2	168.2	168.2	168.2	174.0	174.0	174.0	174.0	174.0	174.0
20	191.4	191.4	191.4	197.2	197.2	203.0	208.8	208.8	214.6	214.6
25	214.6	220.4	220.4	226.2	232.0	237.8	237.8	237.8	243.6	243.6
30	243.6	243.6	249.4	261.0	266.8	272.6	278.4	278.4	278.4	278.4
35	278.4	284.2	290.0	295.8	301.6	313.2	319.0	319.0	324.8	324.8
40	301.6	307.4	313.2	330.6	342.2	353.8	359.6	365.4	371.2	377.0
45	330.6	336.4	348.0	359.6	371.2	382.8	400.2	411.8	417.6	411.8
50	348.0	353.8	365.4	382.8	400.2	417.6	429.2	440.8	446.6	452.4
55	377.0	382.8	394.4	411.8	429.2	452.4	469.8	481.4	487.2	493.0
60	417.6	423.4	440.8	458.2	475.6	493.0	510.4	527.8	539.4	539.4
65	435.0	440.8	464.0	493.0	516.2	545.2	562.6	580.0	591.6	597.4
70	359.6	371.2	400.2	435.0	475.6	516.2	556.8	591.6	620.6	632.2
75	458.2	469.8	487.2	510.4	539.4	556.8	574.2	580.0	585.8	609.0
80	591.6	591.6	609.0	632.2	655.4	678.6	696.0	707.6	713.4	696.0
85	551.0	556.8	568.4	591.6	614.8	632.2	649.6	655.4	649.6	638.0
90	510.4	516.2	533.6	562.6	591.6	614.8	638.0	661.2	667.0	667.0
95	1073.0	1084.6	1107.8	1136.8	1171.6	1206.4	1235.4	1258.6	1270.2	1270.2
100	1450.0	1467.4	1508.0	1548.6	1595.0	1641.4	1676.2	1699.4	1716.8	1711.0
105	1902.4	1919.8	1960.4	2001.0	2047.4	2088.0	2117.0	2140.2	2151.8	2146.0
110	2407.0	2418.6	2459.2	2494.0	2528.8	2557.8	2581.0	2598.4	2604.2	2592.6
115	2911.6	2923.2	2958.0	2987.0	3016.0	3033.4	3039.2	3045.0	3039.2	3027.6
120	3398.8	3404.6	3439.4	3456.8	3468.4	3468.4	3468.4	3462.6	3451.0	3439.4
125	3799.0	3804.8	3828.0	3839.6	3839.6	3833.8	3816.4	3804.8	3787.4	3781.6
130	4205.0	4205.0	4222.4	4228.2	4228.2	4210.8	4193.4	4176.0	4158.6	4147.0
135	4593.6	4593.6	4611.0	4611.0	4605.2	4587.8	4564.6	4553.0	4535.6	4524.0
140	4976.4	4982.2	4988.0	4993.8	4988.0	4970.6	4959.0	4947.4	4930.0	4930.0
145	5365.0	5370.8	5382.4	5388.2	5388.2	5382.4	5370.8	5365.0	5359.2	5359.2
150	5782.6	5782.6	5788.4	5800.0	5805.8	5811.6	5805.8	5811.6	5805.8	5805.8
155	6206.0	6206.0	6211.8	6223.4	6235.0	6240.8	6240.8	6246.6	6246.6	6246.6
160	6623.6	6617.8	6617.8	6617.8	6629.4	6641.0	6646.8	6646.8	6646.8	6652.6
165	6954.2	6960.0	6954.2	6954.2	6971.6	6983.2	6983.2	6983.2	6983.2	6983.2
170	7197.8	7192.0	7197.8	7197.8	7203.6	7203.6	7197.8	7197.8	7197.8	7203.6
175	7325.4	7325.4	7325.4	7325.4	7331.2	7331.2	7325.4	7319.6	7319.6	7319.6
180	7360.2	7360.2	7360.2	7360.2	7360.2	7360.2	7360.2	7360.2	7360.2	7360.2

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	116.0	116.0	116.0	121.8	121.8	121.8	121.8	121.8	121.8
10	139.2	139.2	139.2	139.2	139.2	139.2	139.2	139.2	139.2
15	174.0	174.0	174.0	174.0	168.2	168.2	168.2	168.2	162.4
20	214.6	208.8	208.8	203.0	197.2	197.2	191.4	191.4	185.6
25	243.6	237.8	237.8	232.0	232.0	226.2	220.4	214.6	214.6
30	278.4	278.4	272.6	266.8	266.8	255.2	249.4	243.6	243.6
35	324.8	319.0	319.0	307.4	301.6	295.8	284.2	278.4	272.6
40	371.2	365.4	359.6	353.8	342.2	324.8	313.2	301.6	295.8
45	417.6	411.8	400.2	388.6	371.2	353.8	342.2	330.6	324.8
50	452.4	446.6	435.0	423.4	400.2	382.8	365.4	353.8	342.2
55	493.0	487.2	475.6	458.2	440.8	417.6	400.2	382.8	377.0
60	539.4	533.6	516.2	504.6	487.2	464.0	446.6	429.2	423.4

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65	597.4	591.6	580.0	562.6	539.4	510.4	487.2	469.8	464.0
70	632.2	632.2	620.6	597.4	568.4	539.4	510.4	487.2	481.4
75	626.4	643.8	632.2	614.8	585.8	556.8	527.8	510.4	504.6
80	672.8	643.8	620.6	609.0	597.4	574.2	556.8	539.4	533.6
85	614.8	585.8	551.0	522.0	493.0	464.0	435.0	417.6	411.8
90	661.2	643.8	620.6	585.8	556.8	522.0	493.0	475.6	469.8
95	1252.8	1223.8	1189.0	1142.6	1096.2	1049.8	1009.2	980.2	968.6
100	1693.6	1658.8	1612.4	1560.2	1502.2	1444.2	1386.2	1345.6	1328.2
105	2128.6	2093.8	2047.4	1995.2	1937.2	1879.2	1827.0	1780.6	1763.2
110	2575.2	2546.2	2505.6	2465.0	2418.6	2366.4	2320.0	2273.6	2256.2
115	3016.0	2992.8	2969.6	2940.6	2905.8	2865.2	2824.6	2784.0	2772.4
120	3427.8	3416.2	3404.6	3393.0	3375.6	3352.4	3323.4	3288.6	3282.8
125	3775.8	3770.0	3770.0	3770.0	3770.0	3758.4	3741.0	3712.0	3706.2
130	4147.0	4152.8	4164.4	4176.0	4181.8	4181.8	4170.2	4152.8	4147.0
135	4529.8	4541.4	4558.8	4570.4	4587.8	4593.6	4587.8	4576.2	4576.2
140	4935.8	4941.6	4959.0	4976.4	4988.0	4999.6	4993.8	4988.0	4988.0
145	5365.0	5376.6	5382.4	5399.8	5405.6	5405.6	5399.8	5394.0	5394.0
150	5811.6	5823.2	5823.2	5829.0	5834.8	5823.2	5811.6	5805.8	5811.6
155	6252.4	6258.2	6258.2	6252.4	6252.4	6240.8	6240.8	6235.0	6235.0
160	6652.6	6652.6	6658.4	6652.6	6641.0	6629.4	6635.2	6641.0	6646.8
165	6983.2	6983.2	6989.0	6989.0	6977.4	6971.6	6965.8	6965.8	6965.8
170	7197.8	7203.6	7203.6	7209.4	7209.4	7209.4	7209.4	7203.6	7203.6
175	7319.6	7325.4	7331.2	7337.0	7337.0	7331.2	7331.2	7331.2	7331.2
180	7360.2	7360.2	7360.2	7360.2	7360.2	7360.2	7360.2	7360.2	7360.2

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	59.95	N.A.	0.20
0-30	168.03	N.A.	0.70
0-40	359.60	N.A.	1.40
0-60	1048.86	N.A.	4.20
0-80	2171.18	N.A.	8.70
0-90	2809.09	N.A.	11.30
10-90	2798.36	N.A.	11.20
20-40	299.65	N.A.	1.20
20-50	590.72	N.A.	2.40
40-70	1206.69	N.A.	4.80
60-80	1122.33	N.A.	4.50
70-80	604.90	N.A.	2.40
80-90	637.91	N.A.	2.60
90-110	3339.7	N.A.	13.40
90-120	6263.73	N.A.	25.10
90-130	9659.74	N.A.	38.80
90-150	16570.87	N.A.	66.50
90-180	22104.78	N.A.	88.70
110-180	18765.08	N.A.	75.30
0-180	24913.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	10.73
10-20	49.22
20-30	108.09
30-40	191.56
40-50	291.07
50-60	398.19
60-70	517.43
70-80	604.90
80-90	637.91
90-100	1212.32
100-110	2127.39
110-120	2924.02
120-130	3396.01
130-140	3535.99
140-150	3375.14
150-160	2875.61
160-170	1962.95
170-180	695.36

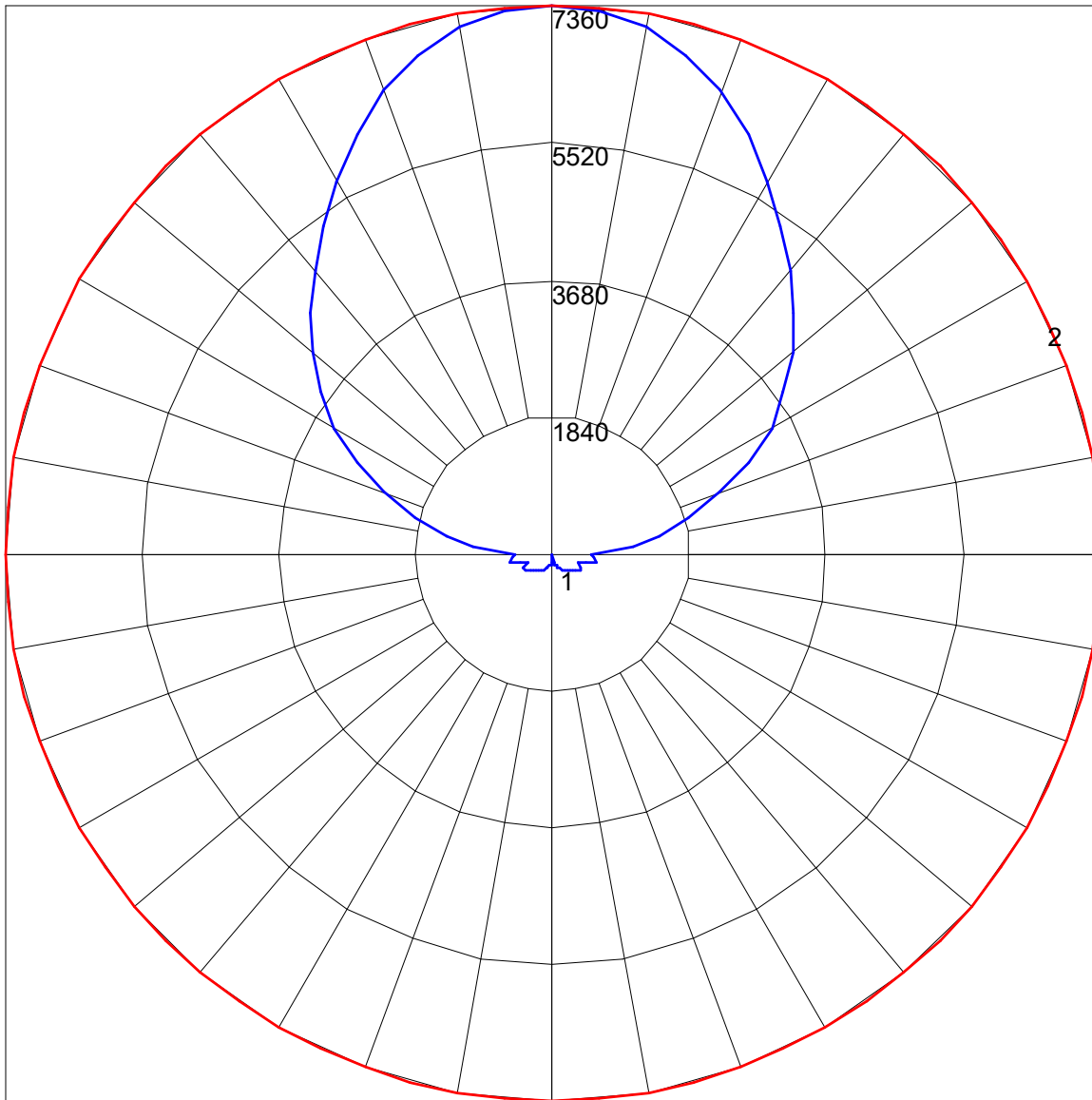
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 7360.2 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.)