



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZDS-PRO-22-LED4-LO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L101403501
 [TESTLAB] L
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] ZDS-PRO-22-LED4LO
 [LUMINAIRE] 26"SQ. X 3"H. LED LUMINAIRE
 [MORE] DIFFUSED LENS
 [BALLASTCAT] OSRAM OPTOTRONIC
 [BALLAST] INPUT: 120-277VAC, 0.52-0.24A,
 [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	4210
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	31
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
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	2396	2318	2387
55	2398	2327	2339
65	2419	2425	2304
75	2420	2574	2243
85	3112	3223	2809

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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	1243.62	1243.62	1243.62	1243.62	1243.62	1243.62	1243.62	1243.62	1243.62	1243.62
5	1237.74	1237.74	1237.74	1237.74	1238.72	1238.72	1237.74	1236.76	1236.76	1236.76
10	1216.18	1215.20	1216.18	1216.18	1217.16	1217.16	1216.18	1216.18	1216.18	1217.16
15	1175.02	1176.00	1175.02	1175.02	1177.96	1179.92	1179.92	1179.92	1179.92	1179.92
20	1119.16	1118.18	1118.18	1118.18	1120.14	1122.10	1123.08	1123.08	1123.08	1124.06
25	1048.60	1048.60	1049.58	1051.54	1053.50	1054.48	1054.48	1055.46	1055.46	1055.46
30	977.06	977.06	978.04	980.00	980.98	981.96	980.98	981.96	980.98	980.98
35	906.50	907.48	909.44	910.42	910.42	909.44	907.48	906.50	905.52	905.52
40	840.84	841.82	842.80	843.78	842.80	839.86	837.90	835.94	833.00	833.00
45	776.16	776.16	779.10	779.10	778.12	775.18	771.26	769.30	766.36	764.40
50	710.50	710.50	713.44	714.42	714.42	711.48	708.54	705.60	702.66	700.70
55	641.90	642.88	646.80	648.76	648.76	647.78	644.84	642.88	639.94	638.96
60	574.28	575.26	581.14	584.08	586.04	586.04	586.04	585.06	583.10	581.14
65	491.96	493.92	499.80	504.70	509.60	512.54	513.52	514.50	513.52	511.56
70	406.70	408.66	415.52	421.40	427.28	432.18	436.10	439.04	440.02	438.06
75	321.44	324.38	331.24	338.10	345.94	352.80	357.70	361.62	363.58	362.60
80	245.00	247.94	254.80	261.66	269.50	277.34	283.22	287.14	290.08	289.10
85	181.30	183.26	187.18	192.08	197.96	203.84	208.74	212.66	214.62	214.62
90	86.24	87.22	90.16	95.06	99.96	103.88	107.80	111.72	112.70	112.70
95	93.10	94.08	96.04	99.96	103.88	106.82	109.76	110.74	109.76	107.80
100	99.96	99.96	102.90	106.82	110.74	114.66	117.60	119.56	120.54	117.60
105	77.42	79.38	82.32	86.24	91.14	94.08	97.02	98.00	98.98	102.90
110	60.76	62.72	67.62	73.50	80.36	87.22	94.08	99.96	104.86	106.82
115	73.50	74.48	78.40	83.30	87.22	92.12	95.06	98.00	99.96	100.94
120	70.56	71.54	74.48	77.42	80.36	83.30	86.24	89.18	91.14	91.14
125	63.70	64.68	66.64	69.58	72.52	76.44	79.38	81.34	82.32	83.30
130	58.80	59.78	61.74	64.68	67.62	70.56	72.52	74.48	75.46	76.44
135	55.86	56.84	58.80	60.76	62.72	64.68	67.62	69.58	70.56	69.58
140	50.96	51.94	52.92	55.86	57.82	59.78	60.76	61.74	62.72	63.70
145	47.04	48.02	49.00	49.98	50.96	52.92	53.90	53.90	54.88	54.88
150	41.16	41.16	42.14	44.10	45.08	46.06	47.04	47.04	47.04	47.04
155	36.26	37.24	37.24	38.22	39.20	40.18	40.18	40.18	41.16	41.16
160	32.34	32.34	32.34	33.32	33.32	34.30	35.28	35.28	36.26	36.26
165	28.42	28.42	28.42	28.42	29.40	29.40	29.40	29.40	29.40	29.40
170	23.52	23.52	24.50	24.50	24.50	24.50	23.52	23.52	23.52	23.52
175	20.58	20.58	20.58	20.58	20.58	20.58	19.60	19.60	19.60	19.60
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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	1243.62	1243.62	1243.62	1243.62	1243.62	1243.62	1243.62	1243.62	1243.62
5	1236.76	1237.74	1238.72	1239.70	1239.70	1238.72	1238.72	1238.72	1238.72
10	1216.18	1217.16	1217.16	1218.14	1218.14	1218.14	1218.14	1217.16	1217.16
15	1179.92	1179.92	1180.90	1180.90	1178.94	1177.96	1176.98	1176.98	1176.98
20	1124.06	1124.06	1125.04	1124.06	1122.10	1120.14	1121.12	1122.10	1123.08
25	1056.44	1057.42	1057.42	1056.44	1056.44	1054.48	1054.48	1053.50	1053.50
30	981.96	983.92	983.92	984.90	985.88	983.92	981.96	980.98	981.96
35	906.50	908.46	909.44	912.38	913.36	913.36	912.38	911.40	911.40
40	833.98	834.96	837.90	840.84	842.80	844.76	843.78	842.80	842.80
45	765.38	767.34	770.28	772.24	775.18	776.16	775.18	773.22	773.22
50	700.70	701.68	703.64	705.60	706.58	706.58	704.62	701.68	700.70
55	637.98	637.00	637.00	637.00	637.00	635.04	632.10	627.20	626.22
60	579.18	577.22	575.26	573.30	570.36	566.44	561.54	555.66	554.68

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CANDELA TABULATION - (Cont.)

65	509.60	505.68	501.76	496.86	490.98	484.12	477.26	470.40	468.44
70	435.12	430.22	423.36	416.50	408.66	399.84	392.00	384.16	381.22
75	359.66	353.78	345.94	337.12	327.32	317.52	308.70	300.86	297.92
80	286.16	280.28	272.44	263.62	253.82	244.02	234.22	227.36	224.42
85	211.68	206.78	200.90	193.06	185.22	177.38	170.52	165.62	163.66
90	111.72	108.78	104.86	98.98	94.08	88.20	83.30	80.36	79.38
95	103.88	98.98	93.10	88.20	83.30	78.40	73.50	70.56	69.58
100	113.68	108.78	104.86	102.90	100.94	97.02	94.08	91.14	90.16
105	105.84	108.78	106.82	103.88	98.98	94.08	89.18	86.24	85.26
110	106.82	106.82	104.86	100.94	96.04	91.14	86.24	82.32	81.34
115	100.94	99.96	98.00	95.06	91.14	86.24	82.32	79.38	78.40
120	91.14	90.16	87.22	85.26	82.32	78.40	75.46	72.52	71.54
125	83.30	82.32	80.36	77.42	74.48	70.56	67.62	64.68	63.70
130	76.44	75.46	73.50	71.54	67.62	64.68	61.74	59.78	57.82
135	70.56	69.58	67.62	65.66	62.72	59.78	57.82	55.86	54.88
140	62.72	61.74	60.76	59.78	57.82	54.88	52.92	50.96	49.98
145	54.88	53.90	53.90	51.94	50.96	49.98	48.02	47.04	46.06
150	47.04	47.04	46.06	45.08	45.08	43.12	42.14	41.16	41.16
155	41.16	40.18	40.18	39.20	39.20	38.22	37.24	36.26	36.26
160	36.26	35.28	35.28	34.30	33.32	33.32	32.34	32.34	31.36
165	29.40	29.40	29.40	29.40	28.42	28.42	28.42	28.42	27.44
170	23.52	23.52	23.52	23.52	23.52	23.52	23.52	23.52	23.52
175	19.60	19.60	19.60	20.58	20.58	20.58	20.58	20.58	20.58
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	449.16	N.A.	10.70
0-30	935.04	N.A.	22.20
0-40	1505.32	N.A.	35.80
0-60	2676.59	N.A.	63.60
0-80	3530.11	N.A.	83.90
0-90	3734.95	N.A.	88.70
10-90	3617.45	N.A.	85.90
20-40	1056.16	N.A.	25.10
20-50	1653.62	N.A.	39.30
40-70	1665.33	N.A.	39.60
60-80	853.51	N.A.	20.30
70-80	359.45	N.A.	8.50
80-90	204.84	N.A.	4.90
90-110	209.99	N.A.	5.00
90-120	297.42	N.A.	7.10
90-130	364.70	N.A.	8.70
90-150	446.25	N.A.	10.60
90-180	474.64	N.A.	11.30
110-180	264.65	N.A.	6.30
0-180	4209.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	117.49
10-20	331.67
20-30	485.88
30-40	570.28
40-50	597.46
50-60	573.81
60-70	494.06
70-80	359.45
80-90	204.84
90-100	107.78
100-110	102.21
110-120	87.43
120-130	67.28
130-140	49.18
140-150	32.37
150-160	18.26
160-170	8.32
170-180	1.81

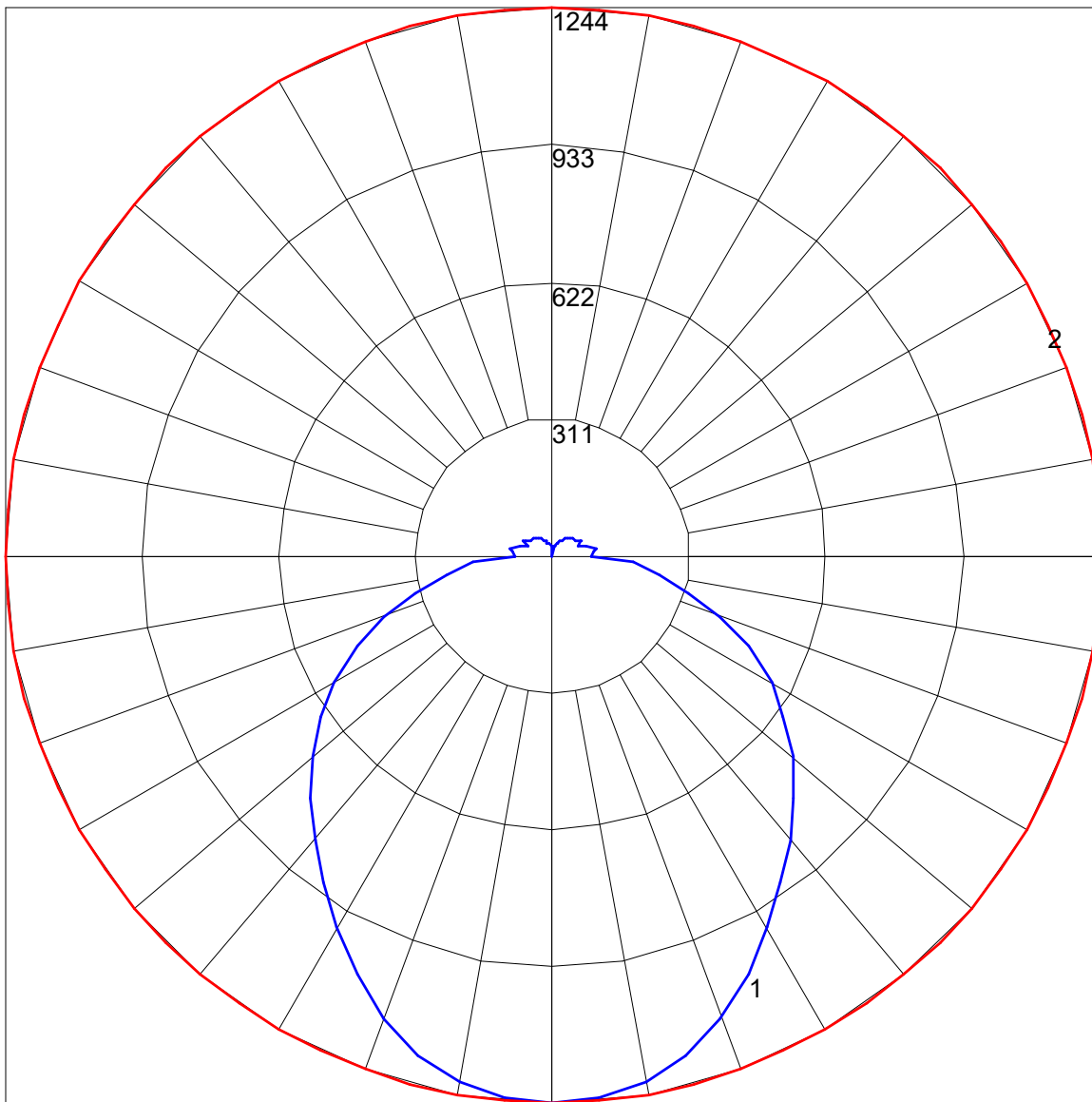
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	104	99	94	90	101	96	91	87	89	86	82	83	81	78	78	76	74	71
2	94	85	78	72	91	83	76	70	77	72	67	72	68	64	67	64	60	58
3	86	75	66	59	82	72	64	58	67	61	55	63	58	53	59	55	51	48
4	78	66	57	50	75	64	55	49	60	53	47	56	50	45	53	47	43	41
5	72	59	49	43	69	57	48	42	53	46	40	50	44	39	47	42	37	35
6	66	53	44	37	64	51	43	36	48	41	35	45	39	34	43	37	33	30
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	23	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	19

POLAR GRAPH



Maximum Candela = 1243.62 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)