



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZDS-22-LED4LO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L101403501
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 10/20/2014
 [MANUFACT] PRUDENTIAL LTG.
 [LUMCAT] ZDS-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	3780
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	34
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	2152	2081	2144
55	2153	2090	2101
65	2172	2178	2069
75	2173	2311	2014
85	2794	2894	2522

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	1116.72	1116.72	1116.72	1116.72	1116.72	1116.72	1116.72	1116.72	1116.72	1116.72
5	1111.44	1111.44	1111.44	1111.44	1112.32	1112.32	1111.44	1110.56	1110.56	1110.56
10	1092.08	1091.20	1092.08	1092.08	1092.96	1092.96	1092.08	1092.08	1092.08	1092.96
15	1055.12	1056.00	1055.12	1055.12	1057.76	1059.52	1059.52	1059.52	1059.52	1059.52
20	1004.96	1004.08	1004.08	1004.08	1005.84	1007.60	1008.48	1008.48	1008.48	1009.36
25	941.60	941.60	942.48	944.24	946.00	946.88	946.88	947.76	947.76	947.76
30	877.36	877.36	878.24	880.00	880.88	881.76	880.88	881.76	880.88	880.88
35	814.00	814.88	816.64	817.52	817.52	816.64	814.88	814.00	813.12	813.12
40	755.04	755.92	756.80	757.68	756.80	754.16	752.40	750.64	748.00	748.00
45	696.96	696.96	699.60	699.60	698.72	696.08	692.56	690.80	688.16	686.40
50	638.00	638.00	640.64	641.52	641.52	638.88	636.24	633.60	630.96	629.20
55	576.40	577.28	580.80	582.56	582.56	581.68	579.04	577.28	574.64	573.76
60	515.68	516.56	521.84	524.48	526.24	526.24	526.24	525.36	523.60	521.84
65	441.76	443.52	448.80	453.20	457.60	460.24	461.12	462.00	461.12	459.36
70	365.20	366.96	373.12	378.40	383.68	388.08	391.60	394.24	395.12	393.36
75	288.64	291.28	297.44	303.60	310.64	316.80	321.20	324.72	326.48	325.60
80	220.00	222.64	228.80	234.96	242.00	249.04	254.32	257.84	260.48	259.60
85	162.80	164.56	168.08	172.48	177.76	183.04	187.44	190.96	192.72	192.72
90	77.44	78.32	80.96	85.36	89.76	93.28	96.80	100.32	101.20	101.20
95	83.60	84.48	86.24	89.76	93.28	95.92	98.56	99.44	98.56	96.80
100	89.76	89.76	92.40	95.92	99.44	102.96	105.60	107.36	108.24	105.60
105	69.52	71.28	73.92	77.44	81.84	84.48	87.12	88.00	88.88	92.40
110	54.56	56.32	60.72	66.00	72.16	78.32	84.48	89.76	94.16	95.92
115	66.00	66.88	70.40	74.80	78.32	82.72	85.36	88.00	89.76	90.64
120	63.36	64.24	66.88	69.52	72.16	74.80	77.44	80.08	81.84	81.84
125	57.20	58.08	59.84	62.48	65.12	68.64	71.28	73.04	73.92	74.80
130	52.80	53.68	55.44	58.08	60.72	63.36	65.12	66.88	67.76	68.64
135	50.16	51.04	52.80	54.56	56.32	58.08	60.72	62.48	63.36	62.48
140	45.76	46.64	47.52	50.16	51.92	53.68	54.56	55.44	56.32	57.20
145	42.24	43.12	44.00	44.88	45.76	47.52	48.40	48.40	49.28	49.28
150	36.96	36.96	37.84	39.60	40.48	41.36	42.24	42.24	42.24	42.24
155	32.56	33.44	33.44	34.32	35.20	36.08	36.08	36.08	36.96	36.96
160	29.04	29.04	29.04	29.92	29.92	30.80	31.68	31.68	32.56	32.56
165	25.52	25.52	25.52	25.52	26.40	26.40	26.40	26.40	26.40	26.40
170	21.12	21.12	22.00	22.00	22.00	22.00	21.12	21.12	21.12	21.12
175	18.48	18.48	18.48	18.48	18.48	18.48	17.60	17.60	17.60	17.60
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**

	50	55	60	65	70	75	80	85	90
0	1116.72	1116.72	1116.72	1116.72	1116.72	1116.72	1116.72	1116.72	1116.72
5	1110.56	1111.44	1112.32	1113.20	1113.20	1112.32	1112.32	1112.32	1112.32
10	1092.08	1092.96	1092.96	1093.84	1093.84	1093.84	1093.84	1092.96	1092.96
15	1059.52	1059.52	1060.40	1060.40	1058.64	1057.76	1056.88	1056.88	1056.88
20	1009.36	1009.36	1010.24	1009.36	1007.60	1005.84	1006.72	1007.60	1008.48
25	948.64	949.52	949.52	948.64	948.64	946.88	946.88	946.00	946.00
30	881.76	883.52	883.52	884.40	885.28	883.52	881.76	880.88	881.76
35	814.00	815.76	816.64	819.28	820.16	820.16	819.28	818.40	818.40
40	748.88	749.76	752.40	755.04	756.80	758.56	757.68	756.80	756.80
45	687.28	689.04	691.68	693.44	696.08	696.96	696.08	694.32	694.32
50	629.20	630.08	631.84	633.60	634.48	634.48	632.72	630.08	629.20
55	572.88	572.00	572.00	572.00	572.00	570.24	567.60	563.20	562.32
60	520.08	518.32	516.56	514.80	512.16	508.64	504.24	498.96	498.08

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CANDELA TABULATION - (Cont.)

65	457.60	454.08	450.56	446.16	440.88	434.72	428.56	422.40	420.64
70	390.72	386.32	380.16	374.00	366.96	359.04	352.00	344.96	342.32
75	322.96	317.68	310.64	302.72	293.92	285.12	277.20	270.16	267.52
80	256.96	251.68	244.64	236.72	227.92	219.12	210.32	204.16	201.52
85	190.08	185.68	180.40	173.36	166.32	159.28	153.12	148.72	146.96
90	100.32	97.68	94.16	88.88	84.48	79.20	74.80	72.16	71.28
95	93.28	88.88	83.60	79.20	74.80	70.40	66.00	63.36	62.48
100	102.08	97.68	94.16	92.40	90.64	87.12	84.48	81.84	80.96
105	95.04	97.68	95.92	93.28	88.88	84.48	80.08	77.44	76.56
110	95.92	95.92	94.16	90.64	86.24	81.84	77.44	73.92	73.04
115	90.64	89.76	88.00	85.36	81.84	77.44	73.92	71.28	70.40
120	81.84	80.96	78.32	76.56	73.92	70.40	67.76	65.12	64.24
125	74.80	73.92	72.16	69.52	66.88	63.36	60.72	58.08	57.20
130	68.64	67.76	66.00	64.24	60.72	58.08	55.44	53.68	51.92
135	63.36	62.48	60.72	58.96	56.32	53.68	51.92	50.16	49.28
140	56.32	55.44	54.56	53.68	51.92	49.28	47.52	45.76	44.88
145	49.28	48.40	48.40	46.64	45.76	44.88	43.12	42.24	41.36
150	42.24	42.24	41.36	40.48	40.48	38.72	37.84	36.96	36.96
155	36.96	36.08	36.08	35.20	35.20	34.32	33.44	32.56	32.56
160	32.56	31.68	31.68	30.80	29.92	29.92	29.04	29.04	28.16
165	26.40	26.40	26.40	26.40	25.52	25.52	25.52	25.52	24.64
170	21.12	21.12	21.12	21.12	21.12	21.12	21.12	21.12	21.12
175	17.60	17.60	17.60	18.48	18.48	18.48	18.48	18.48	18.48
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	403.33	N.A.	10.70
0-30	839.63	N.A.	22.20
0-40	1351.72	N.A.	35.80
0-60	2403.47	N.A.	63.60
0-80	3169.89	N.A.	83.90
0-90	3353.83	N.A.	88.70
10-90	3248.33	N.A.	85.90
20-40	948.39	N.A.	25.10
20-50	1484.88	N.A.	39.30
40-70	1495.4	N.A.	39.60
60-80	766.42	N.A.	20.30
70-80	322.78	N.A.	8.50
80-90	183.94	N.A.	4.90
90-110	188.56	N.A.	5.00
90-120	267.07	N.A.	7.10
90-130	327.49	N.A.	8.70
90-150	400.71	N.A.	10.60
90-180	426.21	N.A.	11.30
110-180	237.64	N.A.	6.30
0-180	3780.04	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.50
10-20	297.83
20-30	436.30
30-40	512.09
40-50	536.49
50-60	515.26
60-70	443.65
70-80	322.78
80-90	183.94
90-100	96.79
100-110	91.78
110-120	78.51
120-130	60.42
130-140	44.16
140-150	29.06
150-160	16.40
160-170	7.47
170-180	1.63

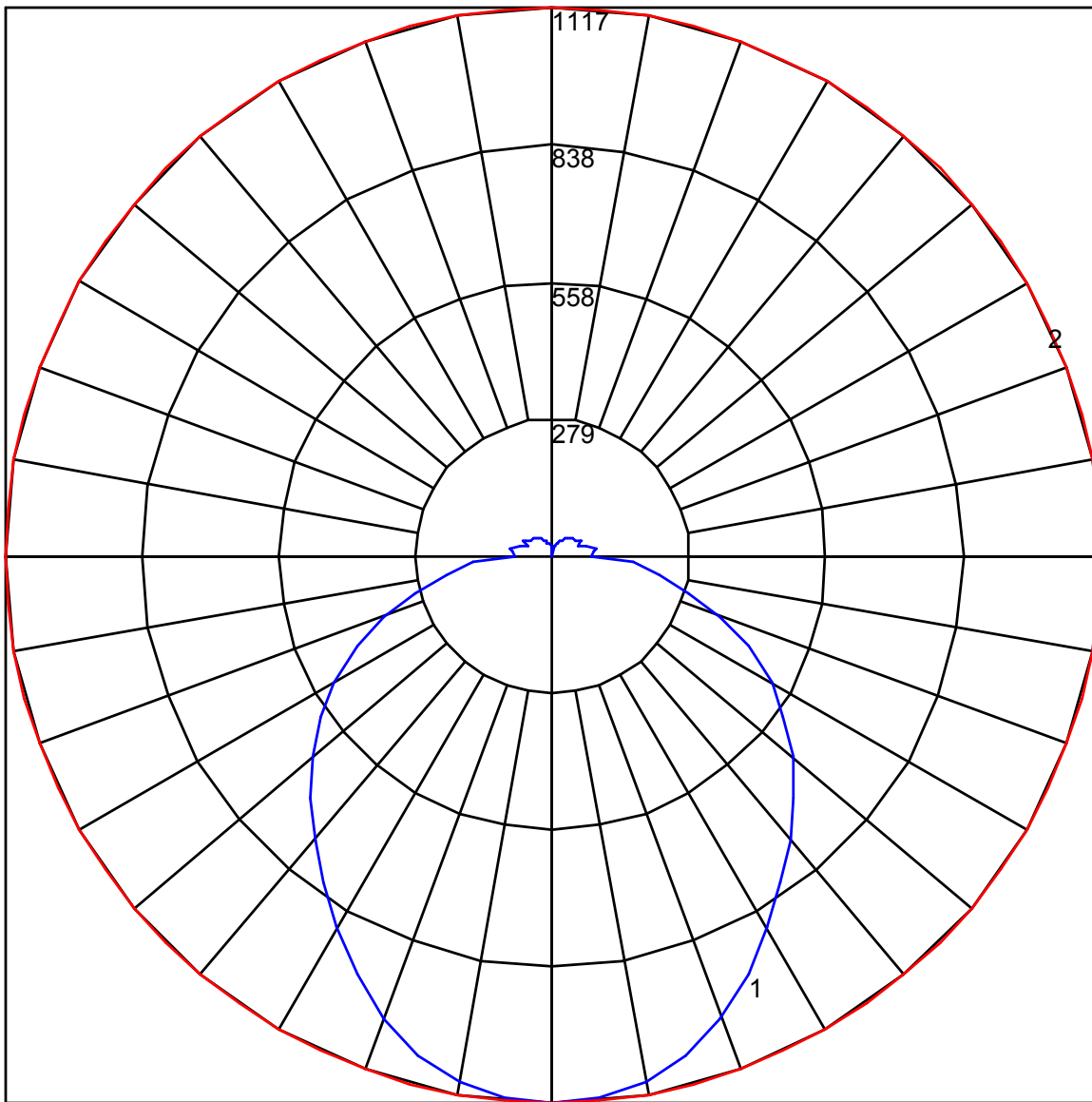
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	32	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	20

POLAR GRAPH



Maximum Candela = 1116.72 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.)