



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZDS-33-LED4-LO.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-33-LED4-LO
 [LUMINAIRE] 38"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	5112
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	50
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	2910	2814	2899
55	2912	2826	2841
65	2938	2945	2797
75	2939	3125	2724
85	3778	3914	3411

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	1510.11	1510.11	1510.11	1510.11	1510.11	1510.11	1510.11	1510.11	1510.11	1510.11
5	1502.97	1502.97	1502.97	1502.97	1504.16	1504.16	1502.97	1501.78	1501.78	1501.78
10	1476.79	1475.60	1476.79	1476.79	1477.98	1477.98	1476.79	1476.79	1476.79	1477.98
15	1426.81	1428.00	1426.81	1426.81	1430.38	1432.76	1432.76	1432.76	1432.76	1432.76
20	1358.98	1357.79	1357.79	1357.79	1360.17	1362.55	1363.74	1363.74	1363.74	1364.93
25	1273.30	1273.30	1274.49	1276.87	1279.25	1280.44	1280.44	1281.63	1281.63	1281.63
30	1186.43	1186.43	1187.62	1190.00	1191.19	1192.38	1191.19	1192.38	1191.19	1191.19
35	1100.75	1101.94	1104.32	1105.51	1105.51	1104.32	1101.94	1100.75	1099.56	1099.56
40	1021.02	1022.21	1023.40	1024.59	1023.40	1019.83	1017.45	1015.07	1011.50	1011.50
45	942.48	942.48	946.05	946.05	944.86	941.29	936.53	934.15	930.58	928.20
50	862.75	862.75	866.32	867.51	867.51	863.94	860.37	856.80	853.23	850.85
55	779.45	780.64	785.40	787.78	787.78	786.59	783.02	780.64	777.07	775.88
60	697.34	698.53	705.67	709.24	711.62	711.62	711.62	710.43	708.05	705.67
65	597.38	599.76	606.90	612.85	618.80	622.37	623.56	624.75	623.56	621.18
70	493.85	496.23	504.56	511.70	518.84	524.79	529.55	533.12	534.31	531.93
75	390.32	393.89	402.22	410.55	420.07	428.40	434.35	439.11	441.49	440.30
80	297.50	301.07	309.40	317.73	327.25	336.77	343.91	348.67	352.24	351.05
85	220.15	222.53	227.29	233.24	240.38	247.52	253.47	258.23	260.61	260.61
90	104.72	105.91	109.48	115.43	121.38	126.14	130.90	135.66	136.85	136.85
95	113.05	114.24	116.62	121.38	126.14	129.71	133.28	134.47	133.28	130.90
100	121.38	121.38	124.95	129.71	134.47	139.23	142.80	145.18	146.37	142.80
105	94.01	96.39	99.96	104.72	110.67	114.24	117.81	119.00	120.19	124.95
110	73.78	76.16	82.11	89.25	97.58	105.91	114.24	121.38	127.33	129.71
115	89.25	90.44	95.20	101.15	105.91	111.86	115.43	119.00	121.38	122.57
120	85.68	86.87	90.44	94.01	97.58	101.15	104.72	108.29	110.67	110.67
125	77.35	78.54	80.92	84.49	88.06	92.82	96.39	98.77	99.96	101.15
130	71.40	72.59	74.97	78.54	82.11	85.68	88.06	90.44	91.63	92.82
135	67.83	69.02	71.40	73.78	76.16	78.54	82.11	84.49	85.68	84.49
140	61.88	63.07	64.26	67.83	70.21	72.59	73.78	74.97	76.16	77.35
145	57.12	58.31	59.50	60.69	61.88	64.26	65.45	65.45	66.64	66.64
150	49.98	49.98	51.17	53.55	54.74	55.93	57.12	57.12	57.12	57.12
155	44.03	45.22	45.22	46.41	47.60	48.79	48.79	48.79	49.98	49.98
160	39.27	39.27	39.27	40.46	40.46	41.65	42.84	42.84	44.03	44.03
165	34.51	34.51	34.51	34.51	35.70	35.70	35.70	35.70	35.70	35.70
170	28.56	28.56	29.75	29.75	29.75	29.75	28.56	28.56	28.56	28.56
175	24.99	24.99	24.99	24.99	24.99	24.99	23.80	23.80	23.80	23.80
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	1510.11	1510.11	1510.11	1510.11	1510.11	1510.11	1510.11	1510.11	1510.11
5	1501.78	1502.97	1504.16	1505.35	1505.35	1504.16	1504.16	1504.16	1504.16
10	1476.79	1477.98	1477.98	1479.17	1479.17	1479.17	1479.17	1477.98	1477.98
15	1432.76	1432.76	1433.95	1433.95	1431.57	1430.38	1429.19	1429.19	1429.19
20	1364.93	1364.93	1366.12	1364.93	1362.55	1360.17	1361.36	1362.55	1363.74
25	1282.82	1284.01	1284.01	1282.82	1282.82	1280.44	1280.44	1279.25	1279.25
30	1192.38	1194.76	1194.76	1195.95	1197.14	1194.76	1192.38	1191.19	1192.38
35	1100.75	1103.13	1104.32	1107.89	1109.08	1109.08	1107.89	1106.70	1106.70
40	1012.69	1013.88	1017.45	1021.02	1023.40	1025.78	1024.59	1023.40	1023.40
45	929.39	931.77	935.34	937.72	941.29	942.48	941.29	938.91	938.91
50	850.85	852.04	854.42	856.80	857.99	857.99	855.61	852.04	850.85
55	774.69	773.50	773.50	773.50	773.50	771.12	767.55	761.60	760.41
60	703.29	700.91	698.53	696.15	692.58	687.82	681.87	674.73	673.54

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65	618.80	614.04	609.28	603.33	596.19	587.86	579.53	571.20	568.82
70	528.36	522.41	514.08	505.75	496.23	485.52	476.00	466.48	462.91
75	436.73	429.59	420.07	409.36	397.46	385.56	374.85	365.33	361.76
80	347.48	340.34	330.82	320.11	308.21	296.31	284.41	276.08	272.51
85	257.04	251.09	243.95	234.43	224.91	215.39	207.06	201.11	198.73
90	135.66	132.09	127.33	120.19	114.24	107.10	101.15	97.58	96.39
95	126.14	120.19	113.05	107.10	101.15	95.20	89.25	85.68	84.49
100	138.04	132.09	127.33	124.95	122.57	117.81	114.24	110.67	109.48
105	128.52	132.09	129.71	126.14	120.19	114.24	108.29	104.72	103.53
110	129.71	129.71	127.33	122.57	116.62	110.67	104.72	99.96	98.77
115	122.57	121.38	119.00	115.43	110.67	104.72	99.96	96.39	95.20
120	110.67	109.48	105.91	103.53	99.96	95.20	91.63	88.06	86.87
125	101.15	99.96	97.58	94.01	90.44	85.68	82.11	78.54	77.35
130	92.82	91.63	89.25	86.87	82.11	78.54	74.97	72.59	70.21
135	85.68	84.49	82.11	79.73	76.16	72.59	70.21	67.83	66.64
140	76.16	74.97	73.78	72.59	70.21	66.64	64.26	61.88	60.69
145	66.64	65.45	65.45	63.07	61.88	60.69	58.31	57.12	55.93
150	57.12	57.12	55.93	54.74	54.74	52.36	51.17	49.98	49.98
155	49.98	48.79	48.79	47.60	47.60	46.41	45.22	44.03	44.03
160	44.03	42.84	42.84	41.65	40.46	40.46	39.27	39.27	38.08
165	35.70	35.70	35.70	35.70	34.51	34.51	34.51	34.51	33.32
170	28.56	28.56	28.56	28.56	28.56	28.56	28.56	28.56	28.56
175	23.80	23.80	23.80	24.99	24.99	24.99	24.99	24.99	24.99
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	545.41	N.A.	10.70
0-30	1135.41	N.A.	22.20
0-40	1827.89	N.A.	35.80
0-60	3250.15	N.A.	63.60
0-80	4286.56	N.A.	83.90
0-90	4535.29	N.A.	88.70
10-90	4392.62	N.A.	85.90
20-40	1282.48	N.A.	25.10
20-50	2007.97	N.A.	39.30
40-70	2022.18	N.A.	39.60
60-80	1036.41	N.A.	20.30
70-80	436.48	N.A.	8.50
80-90	248.73	N.A.	4.90
90-110	254.99	N.A.	5.00
90-120	361.15	N.A.	7.10
90-130	442.85	N.A.	8.70
90-150	541.87	N.A.	10.60
90-180	576.35	N.A.	11.30
110-180	321.36	N.A.	6.30
0-180	5111.64	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	142.67
10-20	402.74
20-30	590.00
30-40	692.49
40-50	725.49
50-60	696.77
60-70	599.93
70-80	436.48
80-90	248.73
90-100	130.88
100-110	124.11
110-120	106.16
120-130	81.70
130-140	59.72
140-150	39.30
150-160	22.18
160-170	10.10
170-180	2.20

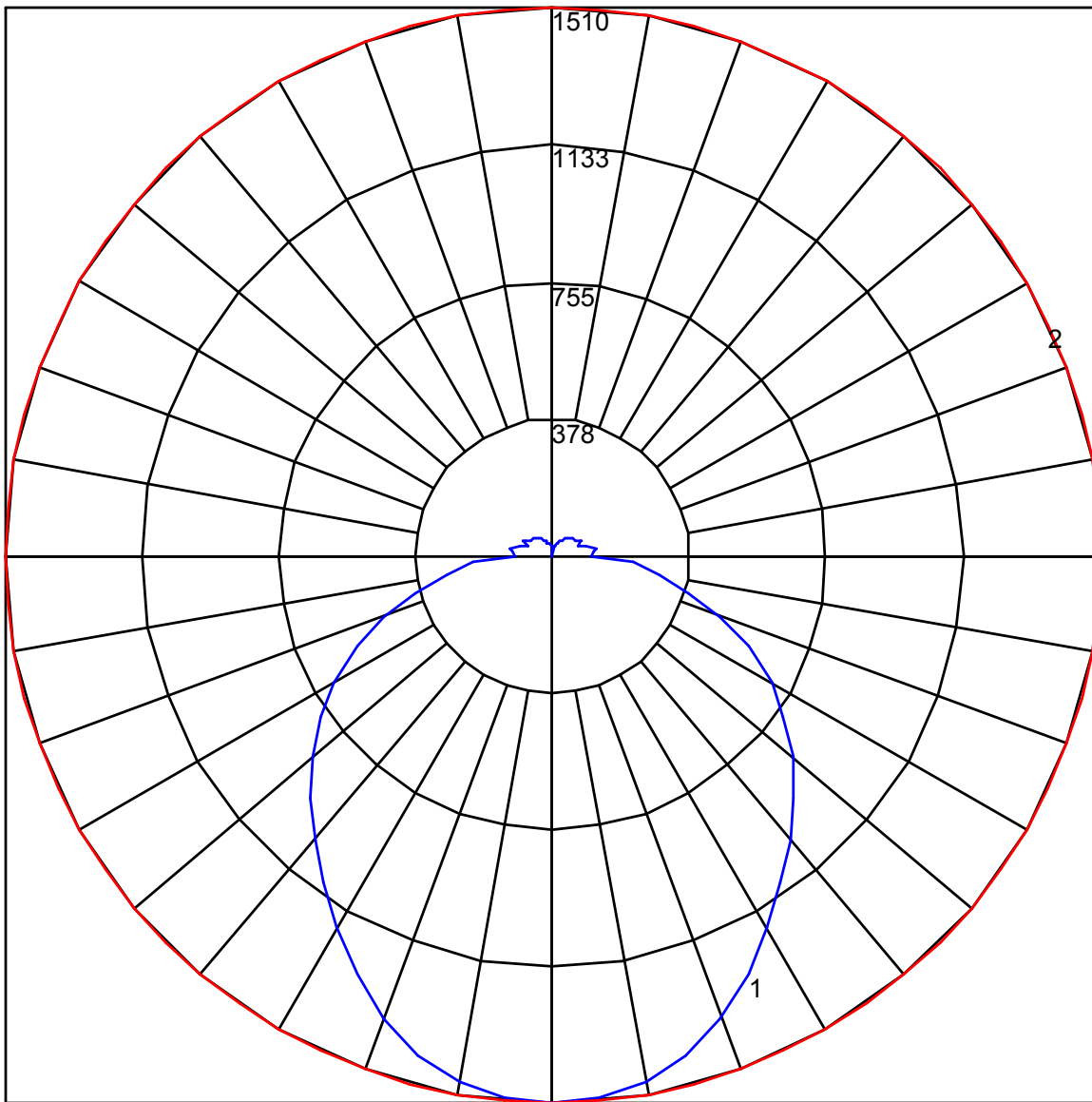
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1510.11 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.)