



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZDS-44-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-44-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	7603
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	67
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	4328	4186	4312
55	4331	4204	4225
65	4370	4381	4161
75	4371	4648	4051
85	5620	5821	5073

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	2246.13	2246.13	2246.13	2246.13	2246.13	2246.13	2246.13	2246.13	2246.13	2246.13
5	2235.51	2235.51	2235.51	2235.51	2237.28	2237.28	2235.51	2233.74	2233.74	2233.74
10	2196.57	2194.80	2196.57	2196.57	2198.34	2198.34	2196.57	2196.57	2196.57	2198.34
15	2122.23	2124.00	2122.23	2122.23	2127.54	2131.08	2131.08	2131.08	2131.08	2131.08
20	2021.34	2019.57	2019.57	2019.57	2023.11	2026.65	2028.42	2028.42	2028.42	2030.19
25	1893.90	1893.90	1895.67	1899.21	1902.75	1904.52	1904.52	1906.29	1906.29	1906.29
30	1764.69	1764.69	1766.46	1770.00	1771.77	1773.54	1771.77	1773.54	1771.77	1771.77
35	1637.25	1639.02	1642.56	1644.33	1644.33	1642.56	1639.02	1637.25	1635.48	1635.48
40	1518.66	1520.43	1522.20	1523.97	1522.20	1516.89	1513.35	1509.81	1504.50	1504.50
45	1401.84	1401.84	1407.15	1407.15	1405.38	1400.07	1392.99	1389.45	1384.14	1380.60
50	1283.25	1283.25	1288.56	1290.33	1290.33	1285.02	1279.71	1274.40	1269.09	1265.55
55	1159.35	1161.12	1168.20	1171.74	1171.74	1169.97	1164.66	1161.12	1155.81	1154.04
60	1037.22	1038.99	1049.61	1054.92	1058.46	1058.46	1058.46	1056.69	1053.15	1049.61
65	888.54	892.08	902.70	911.55	920.40	925.71	927.48	929.25	927.48	923.94
70	734.55	738.09	750.48	761.10	771.72	780.57	787.65	792.96	794.73	791.19
75	580.56	585.87	598.26	610.65	624.81	637.20	646.05	653.13	656.67	654.90
80	442.50	447.81	460.20	472.59	486.75	500.91	511.53	518.61	523.92	522.15
85	327.45	330.99	338.07	346.92	357.54	368.16	377.01	384.09	387.63	387.63
90	155.76	157.53	162.84	171.69	180.54	187.62	194.70	201.78	203.55	203.55
95	168.15	169.92	173.46	180.54	187.62	192.93	198.24	200.01	198.24	194.70
100	180.54	180.54	185.85	192.93	200.01	207.09	212.40	215.94	217.71	212.40
105	139.83	143.37	148.68	155.76	164.61	169.92	175.23	177.00	178.77	185.85
110	109.74	113.28	122.13	132.75	145.14	157.53	169.92	180.54	189.39	192.93
115	132.75	134.52	141.60	150.45	157.53	166.38	171.69	177.00	180.54	182.31
120	127.44	129.21	134.52	139.83	145.14	150.45	155.76	161.07	164.61	164.61
125	115.05	116.82	120.36	125.67	130.98	138.06	143.37	146.91	148.68	150.45
130	106.20	107.97	111.51	116.82	122.13	127.44	130.98	134.52	136.29	138.06
135	100.89	102.66	106.20	109.74	113.28	116.82	122.13	125.67	127.44	125.67
140	92.04	93.81	95.58	100.89	104.43	107.97	109.74	111.51	113.28	115.05
145	84.96	86.73	88.50	90.27	92.04	95.58	97.35	97.35	99.12	99.12
150	74.34	74.34	76.11	79.65	81.42	83.19	84.96	84.96	84.96	84.96
155	65.49	67.26	67.26	69.03	70.80	72.57	72.57	72.57	74.34	74.34
160	58.41	58.41	58.41	60.18	60.18	61.95	63.72	63.72	65.49	65.49
165	51.33	51.33	51.33	51.33	53.10	53.10	53.10	53.10	53.10	53.10
170	42.48	42.48	44.25	44.25	44.25	44.25	42.48	42.48	42.48	42.48
175	37.17	37.17	37.17	37.17	37.17	37.17	35.40	35.40	35.40	35.40
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	2246.13	2246.13	2246.13	2246.13	2246.13	2246.13	2246.13	2246.13	2246.13
5	2233.74	2235.51	2237.28	2239.05	2239.05	2237.28	2237.28	2237.28	2237.28
10	2196.57	2198.34	2198.34	2200.11	2200.11	2200.11	2200.11	2198.34	2198.34
15	2131.08	2131.08	2132.85	2132.85	2129.31	2127.54	2125.77	2125.77	2125.77
20	2030.19	2030.19	2031.96	2030.19	2026.65	2023.11	2024.88	2026.65	2028.42
25	1908.06	1909.83	1909.83	1908.06	1908.06	1904.52	1904.52	1902.75	1902.75
30	1773.54	1777.08	1777.08	1778.85	1780.62	1777.08	1773.54	1771.77	1773.54
35	1637.25	1640.79	1642.56	1647.87	1649.64	1649.64	1647.87	1646.10	1646.10
40	1506.27	1508.04	1513.35	1518.66	1522.20	1525.74	1523.97	1522.20	1522.20
45	1382.37	1385.91	1391.22	1394.76	1400.07	1401.84	1400.07	1396.53	1396.53
50	1265.55	1267.32	1270.86	1274.40	1276.17	1276.17	1272.63	1267.32	1265.55
55	1152.27	1150.50	1150.50	1150.50	1150.50	1146.96	1141.65	1132.80	1131.03
60	1046.07	1042.53	1038.99	1035.45	1030.14	1023.06	1014.21	1003.59	1001.82

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CANDELA TABULATION - (Cont.)

65	920.40	913.32	906.24	897.39	886.77	874.38	861.99	849.60	846.06
70	785.88	777.03	764.64	752.25	738.09	722.16	708.00	693.84	688.53
75	649.59	638.97	624.81	608.88	591.18	573.48	557.55	543.39	538.08
80	516.84	506.22	492.06	476.13	458.43	440.73	423.03	410.64	405.33
85	382.32	373.47	362.85	348.69	334.53	320.37	307.98	299.13	295.59
90	201.78	196.47	189.39	178.77	169.92	159.30	150.45	145.14	143.37
95	187.62	178.77	168.15	159.30	150.45	141.60	132.75	127.44	125.67
100	205.32	196.47	189.39	185.85	182.31	175.23	169.92	164.61	162.84
105	191.16	196.47	192.93	187.62	178.77	169.92	161.07	155.76	153.99
110	192.93	192.93	189.39	182.31	173.46	164.61	155.76	148.68	146.91
115	182.31	180.54	177.00	171.69	164.61	155.76	148.68	143.37	141.60
120	164.61	162.84	157.53	153.99	148.68	141.60	136.29	130.98	129.21
125	150.45	148.68	145.14	139.83	134.52	127.44	122.13	116.82	115.05
130	138.06	136.29	132.75	129.21	122.13	116.82	111.51	107.97	104.43
135	127.44	125.67	122.13	118.59	113.28	107.97	104.43	100.89	99.12
140	113.28	111.51	109.74	107.97	104.43	99.12	95.58	92.04	90.27
145	99.12	97.35	97.35	93.81	92.04	90.27	86.73	84.96	83.19
150	84.96	84.96	83.19	81.42	81.42	77.88	76.11	74.34	74.34
155	74.34	72.57	72.57	70.80	70.80	69.03	67.26	65.49	65.49
160	65.49	63.72	63.72	61.95	60.18	60.18	58.41	58.41	56.64
165	53.10	53.10	53.10	53.10	51.33	51.33	51.33	51.33	49.56
170	42.48	42.48	42.48	42.48	42.48	42.48	42.48	42.48	42.48
175	35.40	35.40	35.40	37.17	37.17	37.17	37.17	37.17	37.17
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	811.24	N.A.	10.70
0-30	1688.8	N.A.	22.20
0-40	2718.8	N.A.	35.80
0-60	4834.25	N.A.	63.60
0-80	6375.8	N.A.	83.90
0-90	6745.77	N.A.	88.70
10-90	6533.57	N.A.	85.90
20-40	1907.56	N.A.	25.10
20-50	2986.64	N.A.	39.30
40-70	3007.79	N.A.	39.60
60-80	1541.55	N.A.	20.30
70-80	649.22	N.A.	8.50
80-90	369.97	N.A.	4.90
90-110	379.27	N.A.	5.00
90-120	537.18	N.A.	7.10
90-130	658.69	N.A.	8.70
90-150	805.98	N.A.	10.60
90-180	857.26	N.A.	11.30
110-180	477.99	N.A.	6.30
0-180	7603.03	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	212.20
10-20	599.04
20-30	877.56
30-40	1030.00
40-50	1079.09
50-60	1036.37
60-70	892.33
70-80	649.22
80-90	369.97
90-100	194.67
100-110	184.60
110-120	157.90
120-130	121.52
130-140	88.83
140-150	58.46
150-160	32.98
160-170	15.02
170-180	3.27

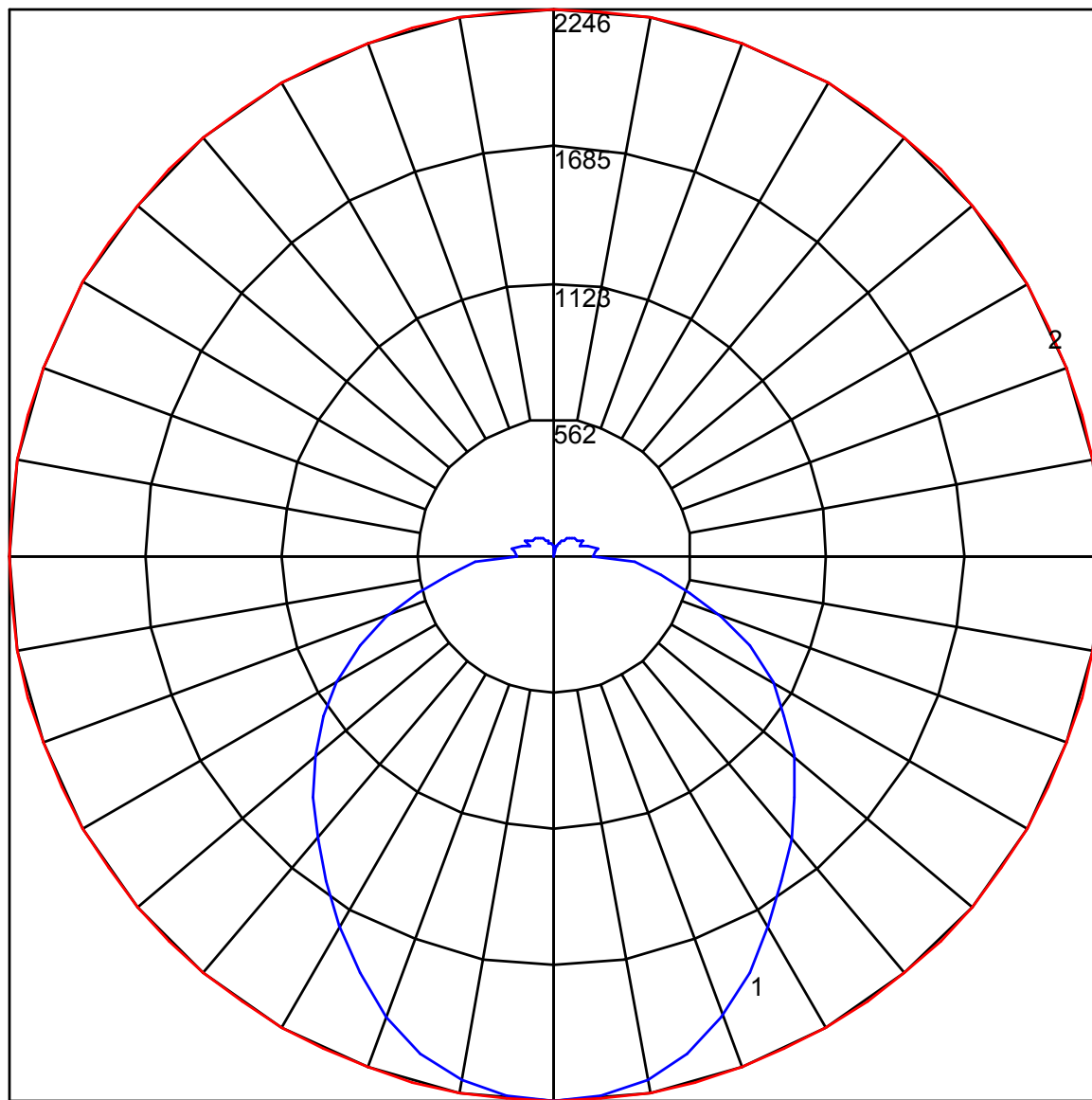
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2246.13 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.)