



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZDS-33-LED4-MO.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-MO
 [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	7431
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	66
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	4230	4091	4214
55	4233	4109	4130
65	4271	4282	4067
75	4272	4543	3960
85	5493	5689	4958

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	2195.37	2195.37	2195.37	2195.37	2195.37	2195.37	2195.37	2195.37	2195.37	2195.37
5	2184.99	2184.99	2184.99	2184.99	2186.72	2186.72	2184.99	2183.26	2183.26	2183.26
10	2146.93	2145.20	2146.93	2146.93	2148.66	2148.66	2146.93	2146.93	2146.93	2148.66
15	2074.27	2076.00	2074.27	2074.27	2079.46	2082.92	2082.92	2082.92	2082.92	2082.92
20	1975.66	1973.93	1973.93	1973.93	1977.39	1980.85	1982.58	1982.58	1982.58	1984.31
25	1851.10	1851.10	1852.83	1856.29	1859.75	1861.48	1861.48	1863.21	1863.21	1863.21
30	1724.81	1724.81	1726.54	1730.00	1731.73	1733.46	1731.73	1733.46	1731.73	1731.73
35	1600.25	1601.98	1605.44	1607.17	1607.17	1605.44	1601.98	1600.25	1598.52	1598.52
40	1484.34	1486.07	1487.80	1489.53	1487.80	1482.61	1479.15	1475.69	1470.50	1470.50
45	1370.16	1370.16	1375.35	1375.35	1373.62	1368.43	1361.51	1358.05	1352.86	1349.40
50	1254.25	1254.25	1259.44	1261.17	1261.17	1255.98	1250.79	1245.60	1240.41	1236.95
55	1133.15	1134.88	1141.80	1145.26	1145.26	1143.53	1138.34	1134.88	1129.69	1127.96
60	1013.78	1015.51	1025.89	1031.08	1034.54	1034.54	1034.54	1032.81	1029.35	1025.89
65	868.46	871.92	882.30	890.95	899.60	904.79	906.52	908.25	906.52	903.06
70	717.95	721.41	733.52	743.90	754.28	762.93	769.85	775.04	776.77	773.31
75	567.44	572.63	584.74	596.85	610.69	622.80	631.45	638.37	641.83	640.10
80	432.50	437.69	449.80	461.91	475.75	489.59	499.97	506.89	512.08	510.35
85	320.05	323.51	330.43	339.08	349.46	359.84	368.49	375.41	378.87	378.87
90	152.24	153.97	159.16	167.81	176.46	183.38	190.30	197.22	198.95	198.95
95	164.35	166.08	169.54	176.46	183.38	188.57	193.76	195.49	193.76	190.30
100	176.46	176.46	181.65	188.57	195.49	202.41	207.60	211.06	212.79	207.60
105	136.67	140.13	145.32	152.24	160.89	166.08	171.27	173.00	174.73	181.65
110	107.26	110.72	119.37	129.75	141.86	153.97	166.08	176.46	185.11	188.57
115	129.75	131.48	138.40	147.05	153.97	162.62	167.81	173.00	176.46	178.19
120	124.56	126.29	131.48	136.67	141.86	147.05	152.24	157.43	160.89	160.89
125	112.45	114.18	117.64	122.83	128.02	134.94	140.13	143.59	145.32	147.05
130	103.80	105.53	108.99	114.18	119.37	124.56	128.02	131.48	133.21	134.94
135	98.61	100.34	103.80	107.26	110.72	114.18	119.37	122.83	124.56	122.83
140	89.96	91.69	93.42	98.61	102.07	105.53	107.26	108.99	110.72	112.45
145	83.04	84.77	86.50	88.23	89.96	93.42	95.15	95.15	96.88	96.88
150	72.66	72.66	74.39	77.85	79.58	81.31	83.04	83.04	83.04	83.04
155	64.01	65.74	65.74	67.47	69.20	70.93	70.93	70.93	72.66	72.66
160	57.09	57.09	57.09	58.82	58.82	60.55	62.28	62.28	64.01	64.01
165	50.17	50.17	50.17	50.17	51.90	51.90	51.90	51.90	51.90	51.90
170	41.52	41.52	43.25	43.25	43.25	43.25	41.52	41.52	41.52	41.52
175	36.33	36.33	36.33	36.33	36.33	36.33	34.60	34.60	34.60	34.60
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	2195.37	2195.37	2195.37	2195.37	2195.37	2195.37	2195.37	2195.37	2195.37
5	2183.26	2184.99	2186.72	2188.45	2188.45	2186.72	2186.72	2186.72	2186.72
10	2146.93	2148.66	2148.66	2150.39	2150.39	2150.39	2150.39	2148.66	2148.66
15	2082.92	2082.92	2084.65	2084.65	2081.19	2079.46	2077.73	2077.73	2077.73
20	1984.31	1984.31	1986.04	1984.31	1980.85	1977.39	1979.12	1980.85	1982.58
25	1864.94	1866.67	1866.67	1864.94	1864.94	1861.48	1861.48	1859.75	1859.75
30	1733.46	1736.92	1736.92	1738.65	1740.38	1736.92	1733.46	1731.73	1733.46
35	1600.25	1603.71	1605.44	1610.63	1612.36	1612.36	1610.63	1608.90	1608.90
40	1472.23	1473.96	1479.15	1484.34	1487.80	1491.26	1489.53	1487.80	1487.80
45	1351.13	1354.59	1359.78	1363.24	1368.43	1370.16	1368.43	1364.97	1364.97
50	1236.95	1238.68	1242.14	1245.60	1247.33	1247.33	1243.87	1238.68	1236.95
55	1126.23	1124.50	1124.50	1124.50	1124.50	1121.04	1115.85	1107.20	1105.47
60	1022.43	1018.97	1015.51	1012.05	1006.86	999.94	991.29	980.91	979.18

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CANDELA TABULATION - (Cont.)

65	899.60	892.68	885.76	877.11	866.73	854.62	842.51	830.40	826.94
70	768.12	759.47	747.36	735.25	721.41	705.84	692.00	678.16	672.97
75	634.91	624.53	610.69	595.12	577.82	560.52	544.95	531.11	525.92
80	505.16	494.78	480.94	465.37	448.07	430.77	413.47	401.36	396.17
85	373.68	365.03	354.65	340.81	326.97	313.13	301.02	292.37	288.91
90	197.22	192.03	185.11	174.73	166.08	155.70	147.05	141.86	140.13
95	183.38	174.73	164.35	155.70	147.05	138.40	129.75	124.56	122.83
100	200.68	192.03	185.11	181.65	178.19	171.27	166.08	160.89	159.16
105	186.84	192.03	188.57	183.38	174.73	166.08	157.43	152.24	150.51
110	188.57	188.57	185.11	178.19	169.54	160.89	152.24	145.32	143.59
115	178.19	176.46	173.00	167.81	160.89	152.24	145.32	140.13	138.40
120	160.89	159.16	153.97	150.51	145.32	138.40	133.21	128.02	126.29
125	147.05	145.32	141.86	136.67	131.48	124.56	119.37	114.18	112.45
130	134.94	133.21	129.75	126.29	119.37	114.18	108.99	105.53	102.07
135	124.56	122.83	119.37	115.91	110.72	105.53	102.07	98.61	96.88
140	110.72	108.99	107.26	105.53	102.07	96.88	93.42	89.96	88.23
145	96.88	95.15	95.15	91.69	89.96	88.23	84.77	83.04	81.31
150	83.04	83.04	81.31	79.58	79.58	76.12	74.39	72.66	72.66
155	72.66	70.93	70.93	69.20	69.20	67.47	65.74	64.01	64.01
160	64.01	62.28	62.28	60.55	58.82	58.82	57.09	57.09	55.36
165	51.90	51.90	51.90	51.90	50.17	50.17	50.17	50.17	48.44
170	41.52	41.52	41.52	41.52	41.52	41.52	41.52	41.52	41.52
175	34.60	34.60	34.60	36.33	36.33	36.33	36.33	36.33	36.33
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	792.91	N.A.	10.70
0-30	1650.63	N.A.	22.20
0-40	2657.36	N.A.	35.80
0-60	4725.00	N.A.	63.60
0-80	6231.72	N.A.	83.90
0-90	6593.32	N.A.	88.70
10-90	6385.92	N.A.	85.90
20-40	1864.45	N.A.	25.10
20-50	2919.15	N.A.	39.30
40-70	2939.81	N.A.	39.60
60-80	1506.71	N.A.	20.30
70-80	634.55	N.A.	8.50
80-90	361.60	N.A.	4.90
90-110	370.70	N.A.	5.00
90-120	525.04	N.A.	7.10
90-130	643.81	N.A.	8.70
90-150	787.76	N.A.	10.60
90-180	837.88	N.A.	11.30
110-180	467.18	N.A.	6.30
0-180	7431.21	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	207.41
10-20	585.50
20-30	857.72
30-40	1006.72
40-50	1054.7
50-60	1012.95
60-70	872.17
70-80	634.55
80-90	361.60
90-100	190.27
100-110	180.43
110-120	154.34
120-130	118.77
130-140	86.82
140-150	57.14
150-160	32.24
160-170	14.68
170-180	3.20

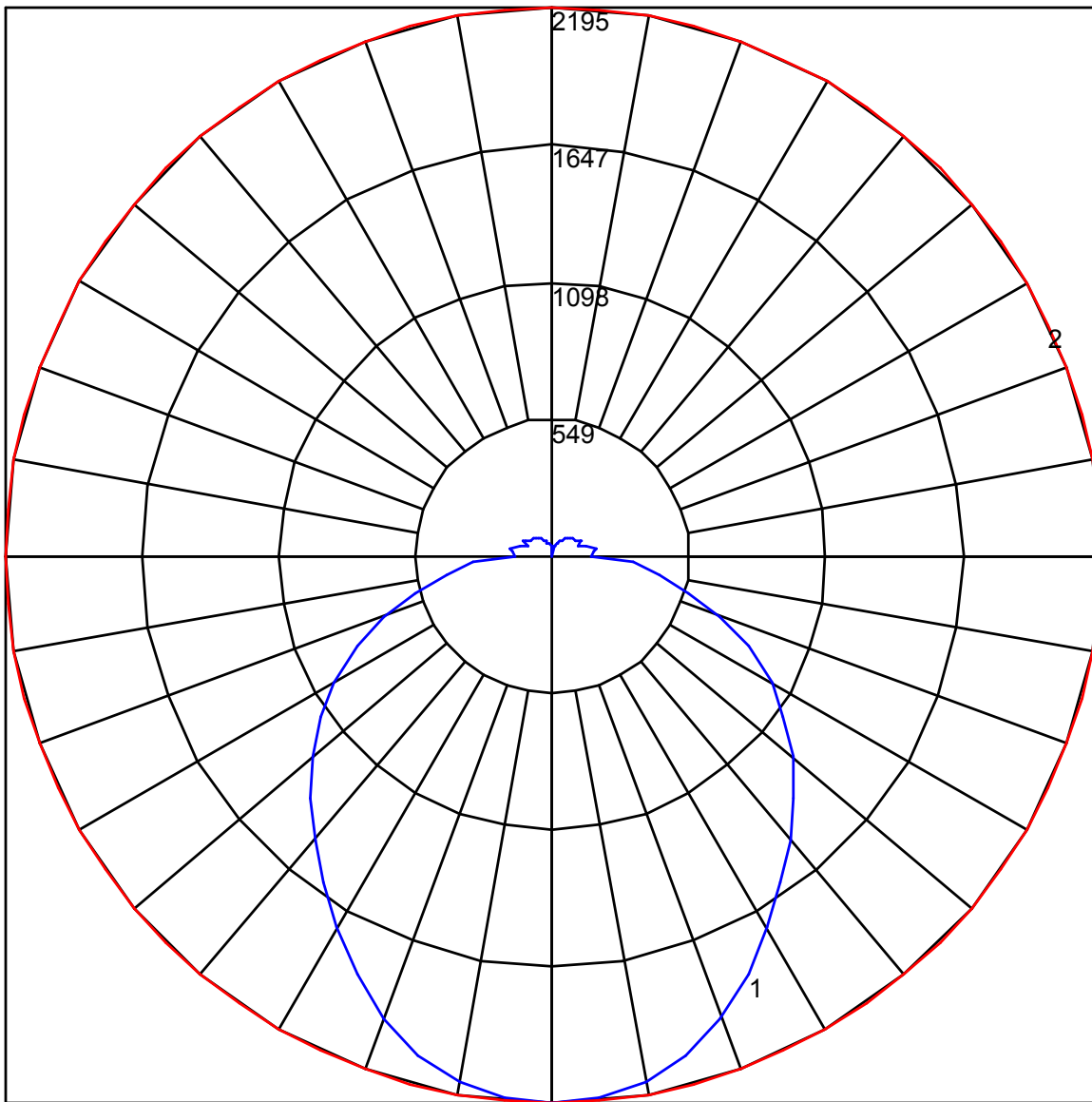
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	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 = 2195.37 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.)