



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZDS-44-LED4-SO.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-SO
 [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	13960
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	140
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	7947	7686	7917
55	7952	7719	7758
65	8023	8043	7640
75	8026	8535	7438
85	10319	10688	9315

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	4124.25	4124.25	4124.25	4124.25	4124.25	4124.25	4124.25	4124.25	4124.25	4124.25
5	4104.75	4104.75	4104.75	4104.75	4108.00	4108.00	4104.75	4101.50	4101.50	4101.50
10	4033.25	4030.00	4033.25	4033.25	4036.50	4036.50	4033.25	4033.25	4033.25	4036.50
15	3896.75	3900.00	3896.75	3896.75	3906.50	3913.00	3913.00	3913.00	3913.00	3913.00
20	3711.50	3708.25	3708.25	3708.25	3714.75	3721.25	3724.50	3724.50	3724.50	3727.75
25	3477.50	3477.50	3480.75	3487.25	3493.75	3497.00	3497.00	3500.25	3500.25	3500.25
30	3240.25	3240.25	3243.50	3250.00	3253.25	3256.50	3253.25	3256.50	3253.25	3253.25
35	3006.25	3009.50	3016.00	3019.25	3019.25	3016.00	3009.50	3006.25	3003.00	3003.00
40	2788.50	2791.75	2795.00	2798.25	2795.00	2785.25	2778.75	2772.25	2762.50	2762.50
45	2574.00	2574.00	2583.75	2583.75	2580.50	2570.75	2557.75	2551.25	2541.50	2535.00
50	2356.25	2356.25	2366.00	2369.25	2369.25	2359.50	2349.75	2340.00	2330.25	2323.75
55	2128.75	2132.00	2145.00	2151.50	2151.50	2148.25	2138.50	2132.00	2122.25	2119.00
60	1904.50	1907.75	1927.25	1937.00	1943.50	1943.50	1943.50	1940.25	1933.75	1927.25
65	1631.50	1638.00	1657.50	1673.75	1690.00	1699.75	1703.00	1706.25	1703.00	1696.50
70	1348.75	1355.25	1378.00	1397.50	1417.00	1433.25	1446.25	1456.00	1459.25	1452.75
75	1066.00	1075.75	1098.50	1121.25	1147.25	1170.00	1186.25	1199.25	1205.75	1202.50
80	812.50	822.25	845.00	867.75	893.75	919.75	939.25	952.25	962.00	958.75
85	601.25	607.75	620.75	637.00	656.50	676.00	692.25	705.25	711.75	711.75
90	286.00	289.25	299.00	315.25	331.50	344.50	357.50	370.50	373.75	373.75
95	308.75	312.00	318.50	331.50	344.50	354.25	364.00	367.25	364.00	357.50
100	331.50	331.50	341.25	354.25	367.25	380.25	390.00	396.50	399.75	390.00
105	256.75	263.25	273.00	286.00	302.25	312.00	321.75	325.00	328.25	341.25
110	201.50	208.00	224.25	243.75	266.50	289.25	312.00	331.50	347.75	354.25
115	243.75	247.00	260.00	276.25	289.25	305.50	315.25	325.00	331.50	334.75
120	234.00	237.25	247.00	256.75	266.50	276.25	286.00	295.75	302.25	302.25
125	211.25	214.50	221.00	230.75	240.50	253.50	263.25	269.75	273.00	276.25
130	195.00	198.25	204.75	214.50	224.25	234.00	240.50	247.00	250.25	253.50
135	185.25	188.50	195.00	201.50	208.00	214.50	224.25	230.75	234.00	230.75
140	169.00	172.25	175.50	185.25	191.75	198.25	201.50	204.75	208.00	211.25
145	156.00	159.25	162.50	165.75	169.00	175.50	178.75	178.75	182.00	182.00
150	136.50	136.50	139.75	146.25	149.50	152.75	156.00	156.00	156.00	156.00
155	120.25	123.50	123.50	126.75	130.00	133.25	133.25	133.25	136.50	136.50
160	107.25	107.25	107.25	110.50	110.50	113.75	117.00	117.00	120.25	120.25
165	94.25	94.25	94.25	94.25	97.50	97.50	97.50	97.50	97.50	97.50
170	78.00	78.00	81.25	81.25	81.25	81.25	78.00	78.00	78.00	78.00
175	68.25	68.25	68.25	68.25	68.25	68.25	65.00	65.00	65.00	65.00
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	4124.25	4124.25	4124.25	4124.25	4124.25	4124.25	4124.25	4124.25	4124.25
5	4101.50	4104.75	4108.00	4111.25	4111.25	4108.00	4108.00	4108.00	4108.00
10	4033.25	4036.50	4036.50	4039.75	4039.75	4039.75	4039.75	4036.50	4036.50
15	3913.00	3913.00	3916.25	3916.25	3909.75	3906.50	3903.25	3903.25	3903.25
20	3727.75	3727.75	3731.00	3727.75	3721.25	3714.75	3718.00	3721.25	3724.50
25	3503.50	3506.75	3506.75	3503.50	3503.50	3497.00	3497.00	3493.75	3493.75
30	3256.50	3263.00	3263.00	3266.25	3269.50	3263.00	3256.50	3253.25	3256.50
35	3006.25	3012.75	3016.00	3025.75	3029.00	3029.00	3025.75	3022.50	3022.50
40	2765.75	2769.00	2778.75	2788.50	2795.00	2801.50	2798.25	2795.00	2795.00
45	2538.25	2544.75	2554.50	2561.00	2570.75	2574.00	2570.75	2564.25	2564.25
50	2323.75	2327.00	2333.50	2340.00	2343.25	2343.25	2336.75	2327.00	2323.75
55	2115.75	2112.50	2112.50	2112.50	2112.50	2106.00	2096.25	2080.00	2076.75
60	1920.75	1914.25	1907.75	1901.25	1891.50	1878.50	1862.25	1842.75	1839.50

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65	1690.00	1677.00	1664.00	1647.75	1628.25	1605.50	1582.75	1560.00	1553.50
70	1443.00	1426.75	1404.00	1381.25	1355.25	1326.00	1300.00	1274.00	1264.25
75	1192.75	1173.25	1147.25	1118.00	1085.50	1053.00	1023.75	997.75	988.00
80	949.00	929.50	903.50	874.25	841.75	809.25	776.75	754.00	744.25
85	702.00	685.75	666.25	640.25	614.25	588.25	565.50	549.25	542.75
90	370.50	360.75	347.75	328.25	312.00	292.50	276.25	266.50	263.25
95	344.50	328.25	308.75	292.50	276.25	260.00	243.75	234.00	230.75
100	377.00	360.75	347.75	341.25	334.75	321.75	312.00	302.25	299.00
105	351.00	360.75	354.25	344.50	328.25	312.00	295.75	286.00	282.75
110	354.25	354.25	347.75	334.75	318.50	302.25	286.00	273.00	269.75
115	334.75	331.50	325.00	315.25	302.25	286.00	273.00	263.25	260.00
120	302.25	299.00	289.25	282.75	273.00	260.00	250.25	240.50	237.25
125	276.25	273.00	266.50	256.75	247.00	234.00	224.25	214.50	211.25
130	253.50	250.25	243.75	237.25	224.25	214.50	204.75	198.25	191.75
135	234.00	230.75	224.25	217.75	208.00	198.25	191.75	185.25	182.00
140	208.00	204.75	201.50	198.25	191.75	182.00	175.50	169.00	165.75
145	182.00	178.75	178.75	172.25	169.00	165.75	159.25	156.00	152.75
150	156.00	156.00	152.75	149.50	149.50	143.00	139.75	136.50	136.50
155	136.50	133.25	133.25	130.00	130.00	126.75	123.50	120.25	120.25
160	120.25	117.00	117.00	113.75	110.50	110.50	107.25	107.25	104.00
165	97.50	97.50	97.50	97.50	94.25	94.25	94.25	94.25	91.00
170	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00
175	65.00	65.00	65.00	68.25	68.25	68.25	68.25	68.25	68.25
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	1489.57	N.A.	10.70
0-30	3100.9	N.A.	22.20
0-40	4992.15	N.A.	35.80
0-60	8876.45	N.A.	63.60
0-80	11706.99	N.A.	83.90
0-90	12386.3	N.A.	88.70
10-90	11996.66	N.A.	85.90
20-40	3502.57	N.A.	25.10
20-50	5483.95	N.A.	39.30
40-70	5522.77	N.A.	39.60
60-80	2830.53	N.A.	20.30
70-80	1192.07	N.A.	8.50
80-90	679.32	N.A.	4.90
90-110	696.40	N.A.	5.00
90-120	986.34	N.A.	7.10
90-130	1209.46	N.A.	8.70
90-150	1479.9	N.A.	10.60
90-180	1574.06	N.A.	11.30
110-180	877.66	N.A.	6.30
0-180	13960.36	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	389.64
10-20	1099.93
20-30	1611.33
30-40	1891.24
40-50	1981.37
50-60	1902.94
60-70	1638.46
70-80	1192.07
80-90	679.32
90-100	357.45
100-110	338.95
110-120	289.94
120-130	223.12
130-140	163.10
140-150	107.34
150-160	60.57
160-170	27.58
170-180	6.01

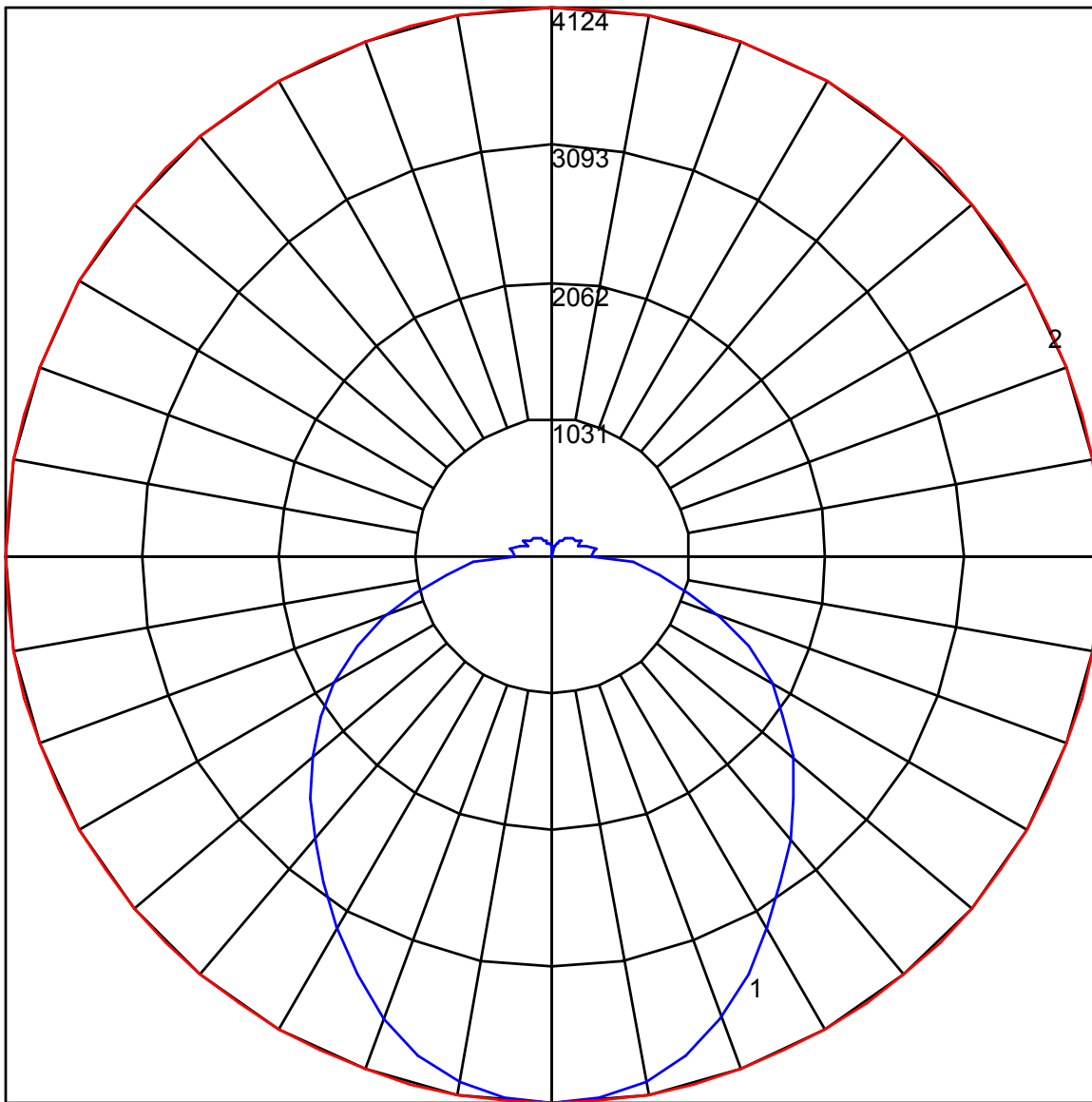
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 4124.25 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.)