



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZUS-44-LED4-SO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L101409101
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 10/30/2014
 [MANUFACT] PRUDENTIAL LTG.
 [LUMCAT] ZDS-44-LED4-SO
 [LUMINAIRE] 26"SQ. X 3"H. LED LUMINAIRE
 [MORE] DIFFUSED LENS
 [BALLASTCAT] OSRAM OPTOTRONIC
 [BALLAST] INPUT: 120-277VAC
 [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-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
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	572	700	562
55	789	1006	789
65	1199	1587	1279
75	1933	2422	2129
85	5299	5368	3960

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	68.25	68.25	68.25	68.25	68.25	68.25	65.00	65.00	65.00	65.00
10	78.00	78.00	81.25	81.25	81.25	81.25	78.00	78.00	78.00	78.00
15	94.25	94.25	94.25	94.25	97.50	97.50	97.50	97.50	97.50	97.50
20	107.25	107.25	107.25	110.50	110.50	113.75	117.00	117.00	120.25	120.25
25	120.25	123.50	123.50	126.75	130.00	133.25	133.25	133.25	136.50	136.50
30	136.50	136.50	139.75	146.25	149.50	152.75	156.00	156.00	156.00	156.00
35	156.00	159.25	162.50	165.75	169.00	175.50	178.75	178.75	182.00	182.00
40	169.00	172.25	175.50	185.25	191.75	198.25	201.50	204.75	208.00	211.25
45	185.25	188.50	195.00	201.50	208.00	214.50	224.25	230.75	234.00	230.75
50	195.00	198.25	204.75	214.50	224.25	234.00	240.50	247.00	250.25	253.50
55	211.25	214.50	221.00	230.75	240.50	253.50	263.25	269.75	273.00	276.25
60	234.00	237.25	247.00	256.75	266.50	276.25	286.00	295.75	302.25	302.25
65	243.75	247.00	260.00	276.25	289.25	305.50	315.25	325.00	331.50	334.75
70	201.50	208.00	224.25	243.75	266.50	289.25	312.00	331.50	347.75	354.25
75	256.75	263.25	273.00	286.00	302.25	312.00	321.75	325.00	328.25	341.25
80	331.50	331.50	341.25	354.25	367.25	380.25	390.00	396.50	399.75	390.00
85	308.75	312.00	318.50	331.50	344.50	354.25	364.00	367.25	364.00	357.50
90	286.00	289.25	299.00	315.25	331.50	344.50	357.50	370.50	373.75	373.75
95	601.25	607.75	620.75	637.00	656.50	676.00	692.25	705.25	711.75	711.75
100	812.50	822.25	845.00	867.75	893.75	919.75	939.25	952.25	962.00	958.75
105	1066.00	1075.75	1098.50	1121.25	1147.25	1170.00	1186.25	1199.25	1205.75	1202.50
110	1348.75	1355.25	1378.00	1397.50	1417.00	1433.25	1446.25	1456.00	1459.25	1452.75
115	1631.50	1638.00	1657.50	1673.75	1690.00	1699.75	1703.00	1706.25	1703.00	1696.50
120	1904.50	1907.75	1927.25	1937.00	1943.50	1943.50	1943.50	1940.25	1933.75	1927.25
125	2128.75	2132.00	2145.00	2151.50	2151.50	2148.25	2138.50	2132.00	2122.25	2119.00
130	2356.25	2356.25	2366.00	2369.25	2369.25	2359.50	2349.75	2340.00	2330.25	2323.75
135	2574.00	2574.00	2583.75	2583.75	2580.50	2570.75	2557.75	2551.25	2541.50	2535.00
140	2788.50	2791.75	2795.00	2798.25	2795.00	2785.25	2778.75	2772.25	2762.50	2762.50
145	3006.25	3009.50	3016.00	3019.25	3019.25	3016.00	3009.50	3006.25	3003.00	3003.00
150	3240.25	3240.25	3243.50	3250.00	3253.25	3256.50	3253.25	3256.50	3253.25	3253.25
155	3477.50	3477.50	3480.75	3487.25	3493.75	3497.00	3497.00	3500.25	3500.25	3500.25
160	3711.50	3708.25	3708.25	3708.25	3714.75	3721.25	3724.50	3724.50	3724.50	3727.75
165	3896.75	3900.00	3896.75	3896.75	3906.50	3913.00	3913.00	3913.00	3913.00	3913.00
170	4033.25	4030.00	4033.25	4033.25	4036.50	4036.50	4033.25	4033.25	4033.25	4036.50
175	4104.75	4104.75	4104.75	4104.75	4108.00	4108.00	4104.75	4101.50	4101.50	4101.50
180	4124.25	4124.25	4124.25	4124.25	4124.25	4124.25	4124.25	4124.25	4124.25	4124.25

**Vert.
Angles**

Horizontal Angles

	50	55	60	65	70	75	80	85	90
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	65.00	65.00	65.00	68.25	68.25	68.25	68.25	68.25	68.25
10	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00
15	97.50	97.50	97.50	97.50	94.25	94.25	94.25	94.25	91.00
20	120.25	117.00	117.00	113.75	110.50	110.50	107.25	107.25	104.00
25	136.50	133.25	133.25	130.00	130.00	126.75	123.50	120.25	120.25
30	156.00	156.00	152.75	149.50	149.50	143.00	139.75	136.50	136.50
35	182.00	178.75	178.75	172.25	169.00	165.75	159.25	156.00	152.75
40	208.00	204.75	201.50	198.25	191.75	182.00	175.50	169.00	165.75
45	234.00	230.75	224.25	217.75	208.00	198.25	191.75	185.25	182.00
50	253.50	250.25	243.75	237.25	224.25	214.50	204.75	198.25	191.75
55	276.25	273.00	266.50	256.75	247.00	234.00	224.25	214.50	211.25
60	302.25	299.00	289.25	282.75	273.00	260.00	250.25	240.50	237.25

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65	334.75	331.50	325.00	315.25	302.25	286.00	273.00	263.25	260.00
70	354.25	354.25	347.75	334.75	318.50	302.25	286.00	273.00	269.75
75	351.00	360.75	354.25	344.50	328.25	312.00	295.75	286.00	282.75
80	377.00	360.75	347.75	341.25	334.75	321.75	312.00	302.25	299.00
85	344.50	328.25	308.75	292.50	276.25	260.00	243.75	234.00	230.75
90	370.50	360.75	347.75	328.25	312.00	292.50	276.25	266.50	263.25
95	702.00	685.75	666.25	640.25	614.25	588.25	565.50	549.25	542.75
100	949.00	929.50	903.50	874.25	841.75	809.25	776.75	754.00	744.25
105	1192.75	1173.25	1147.25	1118.00	1085.50	1053.00	1023.75	997.75	988.00
110	1443.00	1426.75	1404.00	1381.25	1355.25	1326.00	1300.00	1274.00	1264.25
115	1690.00	1677.00	1664.00	1647.75	1628.25	1605.50	1582.75	1560.00	1553.50
120	1920.75	1914.25	1907.75	1901.25	1891.50	1878.50	1862.25	1842.75	1839.50
125	2115.75	2112.50	2112.50	2112.50	2112.50	2106.00	2096.25	2080.00	2076.75
130	2323.75	2327.00	2333.50	2340.00	2343.25	2343.25	2336.75	2327.00	2323.75
135	2538.25	2544.75	2554.50	2561.00	2570.75	2574.00	2570.75	2564.25	2564.25
140	2765.75	2769.00	2778.75	2788.50	2795.00	2801.50	2798.25	2795.00	2795.00
145	3006.25	3012.75	3016.00	3025.75	3029.00	3029.00	3025.75	3022.50	3022.50
150	3256.50	3263.00	3263.00	3266.25	3269.50	3263.00	3256.50	3253.25	3256.50
155	3503.50	3506.75	3506.75	3503.50	3503.50	3497.00	3497.00	3493.75	3493.75
160	3727.75	3727.75	3731.00	3727.75	3721.25	3714.75	3718.00	3721.25	3724.50
165	3913.00	3913.00	3916.25	3916.25	3909.75	3906.50	3903.25	3903.25	3903.25
170	4033.25	4036.50	4036.50	4039.75	4039.75	4039.75	4039.75	4036.50	4036.50
175	4101.50	4104.75	4108.00	4111.25	4111.25	4108.00	4108.00	4108.00	4108.00
180	4124.25	4124.25	4124.25	4124.25	4124.25	4124.25	4124.25	4124.25	4124.25

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	33.59	N.A.	0.20
0-30	94.16	N.A.	0.70
0-40	201.50	N.A.	1.40
0-60	587.72	N.A.	4.20
0-80	1216.61	N.A.	8.70
0-90	1574.06	N.A.	11.30
10-90	1568.05	N.A.	11.20
20-40	167.91	N.A.	1.20
20-50	331.00	N.A.	2.40
40-70	676.16	N.A.	4.80
60-80	628.89	N.A.	4.50
70-80	338.95	N.A.	2.40
80-90	357.45	N.A.	2.60
90-110	1871.39	N.A.	13.40
90-120	3509.85	N.A.	25.10
90-130	5412.79	N.A.	38.80
90-150	9285.4	N.A.	66.50
90-180	12386.3	N.A.	88.70
110-180	10514.92	N.A.	75.30
0-180	13960.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

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

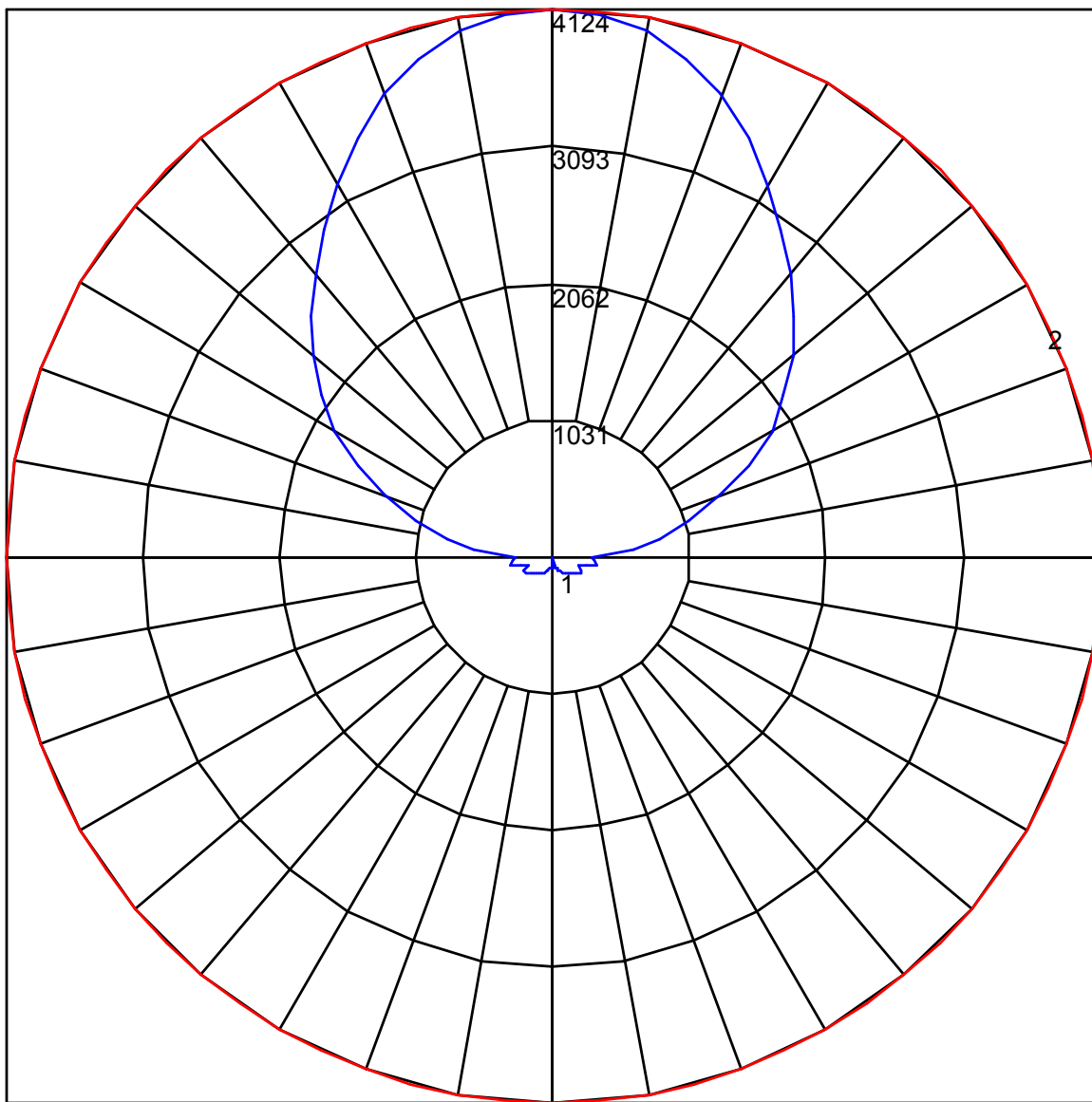
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	98	98	98	85	85	85	85	62	62	62	40	40	40	21	21	21	11
1	88	83	79	75	76	72	69	66	52	50	48	33	32	31	16	15	15	7
2	79	72	66	60	69	62	57	53	45	41	38	28	26	25	13	12	11	5
3	72	63	55	49	62	54	48	43	39	35	32	25	22	20	11	10	9	3
4	66	55	47	41	57	48	41	36	34	30	26	22	19	17	10	9	7	3
5	60	49	41	35	52	42	36	31	30	26	22	19	16	14	9	7	6	2
6	55	43	35	30	47	38	31	26	27	22	19	17	14	12	8	6	5	2
7	50	39	31	26	44	34	27	22	24	20	16	15	13	10	7	6	5	1
8	47	35	27	22	40	30	24	20	22	17	14	14	11	9	6	5	4	1
9	43	31	24	19	37	27	21	17	20	15	12	13	10	8	6	4	3	1
10	40	29	22	17	35	25	19	15	18	14	11	11	9	7	5	4	3	1

POLAR GRAPH



Maximum Candela = 4124.25 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)