



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZDS-PRO-33-LED4-SO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L101403501
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 10/20/2014
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] ZDS-33-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	14605
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	114
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	8314	8041	8282
55	8319	8075	8116
65	8394	8415	7992
75	8396	8929	7782
85	10795	11181	9745

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	4314.6	4314.6	4314.6	4314.6	4314.6	4314.6	4314.6	4314.6	4314.6	4314.6
5	4294.2	4294.2	4294.2	4294.2	4297.6	4297.6	4294.2	4290.8	4290.8	4290.8
10	4219.4	4216.0	4219.4	4219.4	4222.8	4222.8	4219.4	4219.4	4219.4	4222.8
15	4076.6	4080.0	4076.6	4076.6	4086.8	4093.6	4093.6	4093.6	4093.6	4093.6
20	3882.8	3879.4	3879.4	3879.4	3886.2	3893.0	3896.4	3896.4	3896.4	3899.8
25	3638.0	3638.0	3641.4	3648.2	3655.0	3658.4	3658.4	3661.8	3661.8	3661.8
30	3389.8	3389.8	3393.2	3400.0	3403.4	3406.8	3403.4	3406.8	3403.4	3403.4
35	3145.0	3148.4	3155.2	3158.6	3158.6	3155.2	3148.4	3145.0	3141.6	3141.6
40	2917.2	2920.6	2924.0	2927.4	2924.0	2913.8	2907.0	2900.2	2890.0	2890.0
45	2692.8	2692.8	2703.0	2703.0	2699.6	2689.4	2675.8	2669.0	2658.8	2652.0
50	2465.0	2465.0	2475.2	2478.6	2478.6	2468.4	2458.2	2448.0	2437.8	2431.0
55	2227.0	2230.4	2244.0	2250.8	2250.8	2247.4	2237.2	2230.4	2220.2	2216.8
60	1992.4	1995.8	2016.2	2026.4	2033.2	2033.2	2033.2	2029.8	2023.0	2016.2
65	1706.8	1713.6	1734.0	1751.0	1768.0	1778.2	1781.6	1785.0	1781.6	1774.8
70	1411.0	1417.8	1441.6	1462.0	1482.4	1499.4	1513.0	1523.2	1526.6	1519.8
75	1115.2	1125.4	1149.2	1173.0	1200.2	1224.0	1241.0	1254.6	1261.4	1258.0
80	850.0	860.2	884.0	907.8	935.0	962.2	982.6	996.2	1006.4	1003.0
85	629.0	635.8	649.4	666.4	686.8	707.2	724.2	737.8	744.6	744.6
90	299.2	302.6	312.8	329.8	346.8	360.4	374.0	387.6	391.0	391.0
95	323.0	326.4	333.2	346.8	360.4	370.6	380.8	384.2	380.8	374.0
100	346.8	346.8	357.0	370.6	384.2	397.8	408.0	414.8	418.2	408.0
105	268.6	275.4	285.6	299.2	316.2	326.4	336.6	340.0	343.4	357.0
110	210.8	217.6	234.6	255.0	278.8	302.6	326.4	346.8	363.8	370.6
115	255.0	258.4	272.0	289.0	302.6	319.6	329.8	340.0	346.8	350.2
120	244.8	248.2	258.4	268.6	278.8	289.0	299.2	309.4	316.2	316.2
125	221.0	224.4	231.2	241.4	251.6	265.2	275.4	282.2	285.6	289.0
130	204.0	207.4	214.2	224.4	234.6	244.8	251.6	258.4	261.8	265.2
135	193.8	197.2	204.0	210.8	217.6	224.4	234.6	241.4	244.8	241.4
140	176.8	180.2	183.6	193.8	200.6	207.4	210.8	214.2	217.6	221.0
145	163.2	166.6	170.0	173.4	176.8	183.6	187.0	187.0	190.4	190.4
150	142.8	142.8	146.2	153.0	156.4	159.8	163.2	163.2	163.2	163.2
155	125.8	129.2	129.2	132.6	136.0	139.4	139.4	139.4	142.8	142.8
160	112.2	112.2	112.2	115.6	115.6	119.0	122.4	122.4	125.8	125.8
165	98.6	98.6	98.6	98.6	102.0	102.0	102.0	102.0	102.0	102.0
170	81.6	81.6	85.0	85.0	85.0	85.0	81.6	81.6	81.6	81.6
175	71.4	71.4	71.4	71.4	71.4	71.4	68.0	68.0	68.0	68.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0	4314.6	4314.6	4314.6	4314.6	4314.6	4314.6	4314.6	4314.6	4314.6
5	4290.8	4294.2	4297.6	4301.0	4301.0	4297.6	4297.6	4297.6	4297.6
10	4219.4	4222.8	4222.8	4226.2	4226.2	4226.2	4226.2	4222.8	4222.8
15	4093.6	4093.6	4097.0	4097.0	4090.2	4086.8	4083.4	4083.4	4083.4
20	3899.8	3899.8	3903.2	3899.8	3893.0	3886.2	3889.6	3893.0	3896.4
25	3665.2	3668.6	3668.6	3665.2	3665.2	3658.4	3658.4	3655.0	3655.0
30	3406.8	3413.6	3413.6	3417.0	3420.4	3413.6	3406.8	3403.4	3406.8
35	3145.0	3151.8	3155.2	3165.4	3168.8	3168.8	3165.4	3162.0	3162.0
40	2893.4	2896.8	2907.0	2917.2	2924.0	2930.8	2927.4	2924.0	2924.0
45	2655.4	2662.2	2672.4	2679.2	2689.4	2692.8	2689.4	2682.6	2682.6
50	2431.0	2434.4	2441.2	2448.0	2451.4	2451.4	2444.6	2434.4	2431.0
55	2213.4	2210.0	2210.0	2210.0	2210.0	2203.2	2193.0	2176.0	2172.6
60	2009.4	2002.6	1995.8	1989.0	1978.8	1965.2	1948.2	1927.8	1924.4

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CANDELA TABULATION - (Cont.)

65	1768.0	1754.4	1740.8	1723.8	1703.4	1679.6	1655.8	1632.0	1625.2
70	1509.6	1492.6	1468.8	1445.0	1417.8	1387.2	1360.0	1332.8	1322.6
75	1247.8	1227.4	1200.2	1169.6	1135.6	1101.6	1071.0	1043.8	1033.6
80	992.8	972.4	945.2	914.6	880.6	846.6	812.6	788.8	778.6
85	734.4	717.4	697.0	669.8	642.6	615.4	591.6	574.6	567.8
90	387.6	377.4	363.8	343.4	326.4	306.0	289.0	278.8	275.4
95	360.4	343.4	323.0	306.0	289.0	272.0	255.0	244.8	241.4
100	394.4	377.4	363.8	357.0	350.2	336.6	326.4	316.2	312.8
105	367.2	377.4	370.6	360.4	343.4	326.4	309.4	299.2	295.8
110	370.6	370.6	363.8	350.2	333.2	316.2	299.2	285.6	282.2
115	350.2	346.8	340.0	329.8	316.2	299.2	285.6	275.4	272.0
120	316.2	312.8	302.6	295.8	285.6	272.0	261.8	251.6	248.2
125	289.0	285.6	278.8	268.6	258.4	244.8	234.6	224.4	221.0
130	265.2	261.8	255.0	248.2	234.6	224.4	214.2	207.4	200.6
135	244.8	241.4	234.6	227.8	217.6	207.4	200.6	193.8	190.4
140	217.6	214.2	210.8	207.4	200.6	190.4	183.6	176.8	173.4
145	190.4	187.0	187.0	180.2	176.8	173.4	166.6	163.2	159.8
150	163.2	163.2	159.8	156.4	156.4	149.6	146.2	142.8	142.8
155	142.8	139.4	139.4	136.0	136.0	132.6	129.2	125.8	125.8
160	125.8	122.4	122.4	119.0	115.6	115.6	112.2	112.2	108.8
165	102.0	102.0	102.0	102.0	98.6	98.6	98.6	98.6	95.2
170	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
175	68.0	68.0	68.0	71.4	71.4	71.4	71.4	71.4	71.4
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1558.32	N.A.	10.70
0-30	3244.02	N.A.	22.20
0-40	5222.55	N.A.	35.80
0-60	9286.14	N.A.	63.60
0-80	12247.31	N.A.	83.90
0-90	12957.98	N.A.	88.70
10-90	12550.35	N.A.	85.90
20-40	3664.23	N.A.	25.10
20-50	5737.05	N.A.	39.30
40-70	5777.67	N.A.	39.60
60-80	2961.17	N.A.	20.30
70-80	1247.09	N.A.	8.50
80-90	710.67	N.A.	4.90
90-110	728.54	N.A.	5.00
90-120	1031.86	N.A.	7.10
90-130	1265.28	N.A.	8.70
90-150	1548.21	N.A.	10.60
90-180	1646.71	N.A.	11.30
110-180	918.17	N.A.	6.30
0-180	14604.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	407.62
10-20	1150.7
20-30	1685.7
30-40	1978.53
40-50	2072.82
50-60	1990.77
60-70	1714.08
70-80	1247.09
80-90	710.67
90-100	373.95
100-110	354.60
110-120	303.32
120-130	233.42
130-140	170.63
140-150	112.29
150-160	63.36
160-170	28.85
170-180	6.29

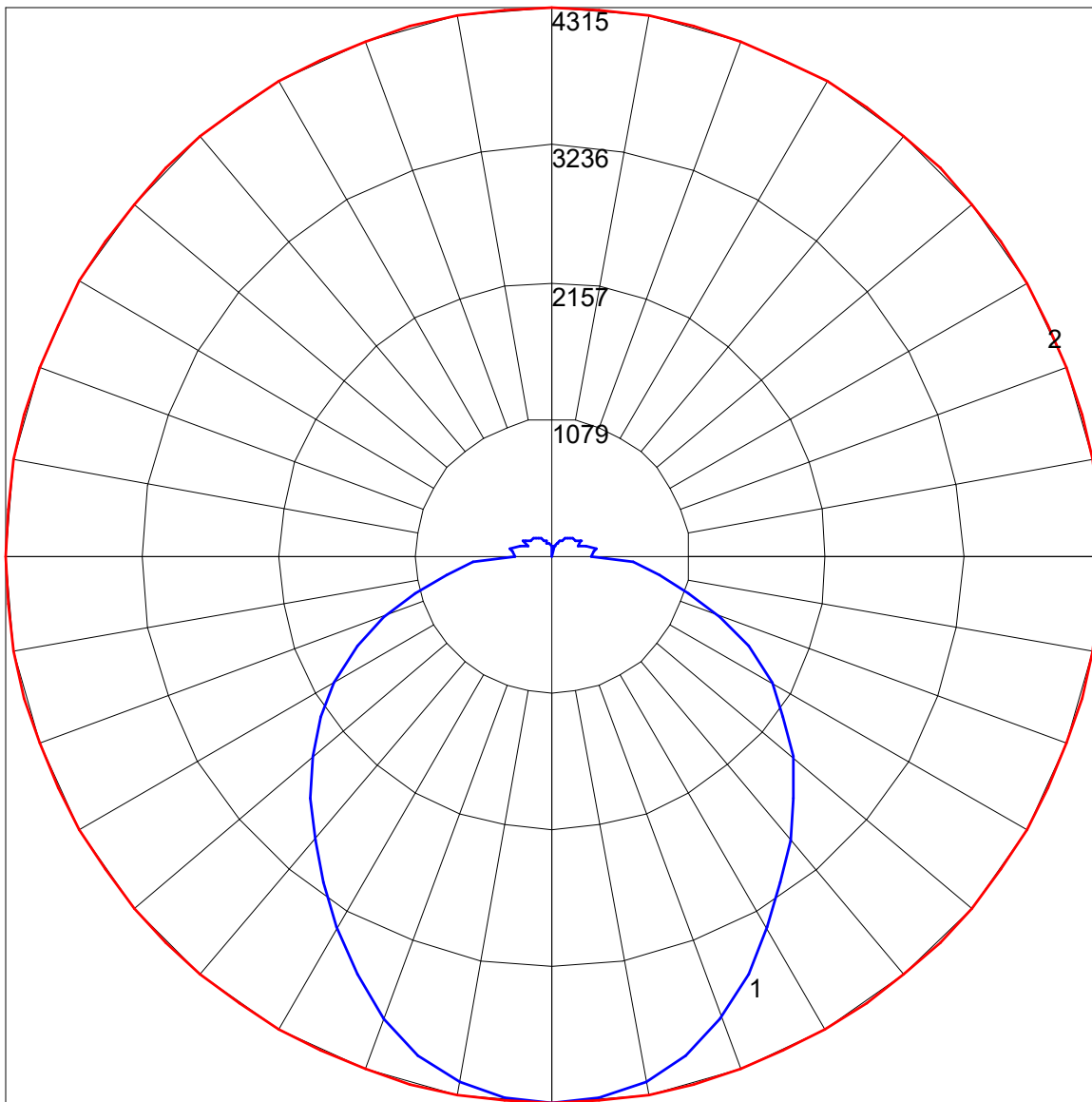
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	20

POLAR GRAPH



Maximum Candela = 4314.6 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.)