



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L101403501
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUEDATE] 10/20/2014
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] ZDS-33-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	6443
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	47
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	3668	3548	3654
55	3670	3562	3581
65	3703	3712	3526
75	3704	3939	3433
85	4763	4933	4299

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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	1903.5	1903.5	1903.5	1903.5	1903.5	1903.5	1903.5	1903.5	1903.5	1903.5
5	1894.5	1894.5	1894.5	1894.5	1896.0	1896.0	1894.5	1893.0	1893.0	1893.0
10	1861.5	1860.0	1861.5	1861.5	1863.0	1863.0	1861.5	1861.5	1861.5	1863.0
15	1798.5	1800.0	1798.5	1798.5	1803.0	1806.0	1806.0	1806.0	1806.0	1806.0
20	1713.0	1711.5	1711.5	1711.5	1714.5	1717.5	1719.0	1719.0	1719.0	1720.5
25	1605.0	1605.0	1606.5	1609.5	1612.5	1614.0	1614.0	1615.5	1615.5	1615.5
30	1495.5	1495.5	1497.0	1500.0	1501.5	1503.0	1501.5	1503.0	1501.5	1501.5
35	1387.5	1389.0	1392.0	1393.5	1393.5	1392.0	1389.0	1387.5	1386.0	1386.0
40	1287.0	1288.5	1290.0	1291.5	1290.0	1285.5	1282.5	1279.5	1275.0	1275.0
45	1188.0	1188.0	1192.5	1192.5	1191.0	1186.5	1180.5	1177.5	1173.0	1170.0
50	1087.5	1087.5	1092.0	1093.5	1093.5	1089.0	1084.5	1080.0	1075.5	1072.5
55	982.5	984.0	990.0	993.0	993.0	991.5	987.0	984.0	979.5	978.0
60	879.0	880.5	889.5	894.0	897.0	897.0	897.0	895.5	892.5	889.5
65	753.0	756.0	765.0	772.5	780.0	784.5	786.0	787.5	786.0	783.0
70	622.5	625.5	636.0	645.0	654.0	661.5	667.5	672.0	673.5	670.5
75	492.0	496.5	507.0	517.5	529.5	540.0	547.5	553.5	556.5	555.0
80	375.0	379.5	390.0	400.5	412.5	424.5	433.5	439.5	444.0	442.5
85	277.5	280.5	286.5	294.0	303.0	312.0	319.5	325.5	328.5	328.5
90	132.0	133.5	138.0	145.5	153.0	159.0	165.0	171.0	172.5	172.5
95	142.5	144.0	147.0	153.0	159.0	163.5	168.0	169.5	168.0	165.0
100	153.0	153.0	157.5	163.5	169.5	175.5	180.0	183.0	184.5	180.0
105	118.5	121.5	126.0	132.0	139.5	144.0	148.5	150.0	151.5	157.5
110	93.0	96.0	103.5	112.5	123.0	133.5	144.0	153.0	160.5	163.5
115	112.5	114.0	120.0	127.5	133.5	141.0	145.5	150.0	153.0	154.5
120	108.0	109.5	114.0	118.5	123.0	127.5	132.0	136.5	139.5	139.5
125	97.5	99.0	102.0	106.5	111.0	117.0	121.5	124.5	126.0	127.5
130	90.0	91.5	94.5	99.0	103.5	108.0	111.0	114.0	115.5	117.0
135	85.5	87.0	90.0	93.0	96.0	99.0	103.5	106.5	108.0	106.5
140	78.0	79.5	81.0	85.5	88.5	91.5	93.0	94.5	96.0	97.5
145	72.0	73.5	75.0	76.5	78.0	81.0	82.5	82.5	84.0	84.0
150	63.0	63.0	64.5	67.5	69.0	70.5	72.0	72.0	72.0	72.0
155	55.5	57.0	57.0	58.5	60.0	61.5	61.5	61.5	63.0	63.0
160	49.5	49.5	49.5	51.0	51.0	52.5	54.0	54.0	55.5	55.5
165	43.5	43.5	43.5	43.5	45.0	45.0	45.0	45.0	45.0	45.0
170	36.0	36.0	37.5	37.5	37.5	37.5	36.0	36.0	36.0	36.0
175	31.5	31.5	31.5	31.5	31.5	31.5	30.0	30.0	30.0	30.0
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	1903.5	1903.5	1903.5	1903.5	1903.5	1903.5	1903.5	1903.5	1903.5
5	1893.0	1894.5	1896.0	1897.5	1897.5	1896.0	1896.0	1896.0	1896.0
10	1861.5	1863.0	1863.0	1864.5	1864.5	1864.5	1864.5	1863.0	1863.0
15	1806.0	1806.0	1807.5	1807.5	1804.5	1803.0	1801.5	1801.5	1801.5
20	1720.5	1720.5	1722.0	1720.5	1717.5	1714.5	1716.0	1717.5	1719.0
25	1617.0	1618.5	1618.5	1617.0	1617.0	1614.0	1614.0	1612.5	1612.5
30	1503.0	1506.0	1506.0	1507.5	1509.0	1506.0	1503.0	1501.5	1503.0
35	1387.5	1390.5	1392.0	1396.5	1398.0	1398.0	1396.5	1395.0	1395.0
40	1276.5	1278.0	1282.5	1287.0	1290.0	1293.0	1291.5	1290.0	1290.0
45	1171.5	1174.5	1179.0	1182.0	1186.5	1188.0	1186.5	1183.5	1183.5
50	1072.5	1074.0	1077.0	1080.0	1081.5	1081.5	1078.5	1074.0	1072.5
55	976.5	975.0	975.0	975.0	975.0	972.0	967.5	960.0	958.5
60	886.5	883.5	880.5	877.5	873.0	867.0	859.5	850.5	849.0

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CANDELA TABULATION - (Cont.)

65	780.0	774.0	768.0	760.5	751.5	741.0	730.5	720.0	717.0
70	666.0	658.5	648.0	637.5	625.5	612.0	600.0	588.0	583.5
75	550.5	541.5	529.5	516.0	501.0	486.0	472.5	460.5	456.0
80	438.0	429.0	417.0	403.5	388.5	373.5	358.5	348.0	343.5
85	324.0	316.5	307.5	295.5	283.5	271.5	261.0	253.5	250.5
90	171.0	166.5	160.5	151.5	144.0	135.0	127.5	123.0	121.5
95	159.0	151.5	142.5	135.0	127.5	120.0	112.5	108.0	106.5
100	174.0	166.5	160.5	157.5	154.5	148.5	144.0	139.5	138.0
105	162.0	166.5	163.5	159.0	151.5	144.0	136.5	132.0	130.5
110	163.5	163.5	160.5	154.5	147.0	139.5	132.0	126.0	124.5
115	154.5	153.0	150.0	145.5	139.5	132.0	126.0	121.5	120.0
120	139.5	138.0	133.5	130.5	126.0	120.0	115.5	111.0	109.5
125	127.5	126.0	123.0	118.5	114.0	108.0	103.5	99.0	97.5
130	117.0	115.5	112.5	109.5	103.5	99.0	94.5	91.5	88.5
135	108.0	106.5	103.5	100.5	96.0	91.5	88.5	85.5	84.0
140	96.0	94.5	93.0	91.5	88.5	84.0	81.0	78.0	76.5
145	84.0	82.5	82.5	79.5	78.0	76.5	73.5	72.0	70.5
150	72.0	72.0	70.5	69.0	69.0	66.0	64.5	63.0	63.0
155	63.0	61.5	61.5	60.0	60.0	58.5	57.0	55.5	55.5
160	55.5	54.0	54.0	52.5	51.0	51.0	49.5	49.5	48.0
165	45.0	45.0	45.0	45.0	43.5	43.5	43.5	43.5	42.0
170	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
175	30.0	30.0	30.0	31.5	31.5	31.5	31.5	31.5	31.5
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	687.49	N.A.	10.70
0-30	1431.19	N.A.	22.20
0-40	2304.07	N.A.	35.80
0-60	4096.83	N.A.	63.60
0-80	5403.22	N.A.	83.90
0-90	5716.75	N.A.	88.70
10-90	5536.92	N.A.	85.90
20-40	1616.57	N.A.	25.10
20-50	2531.05	N.A.	39.30
40-70	2548.97	N.A.	39.60
60-80	1306.4	N.A.	20.30
70-80	550.19	N.A.	8.50
80-90	313.53	N.A.	4.90
90-110	321.42	N.A.	5.00
90-120	455.23	N.A.	7.10
90-130	558.21	N.A.	8.70
90-150	683.03	N.A.	10.60
90-180	726.49	N.A.	11.30
110-180	405.07	N.A.	6.30
0-180	6443.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	179.83
10-20	507.66
20-30	743.69
30-40	872.88
40-50	914.48
50-60	878.28
60-70	756.21
70-80	550.19
80-90	313.53
90-100	164.98
100-110	156.44
110-120	133.82
120-130	102.98
130-140	75.28
140-150	49.54
150-160	27.95
160-170	12.73
170-180	2.78

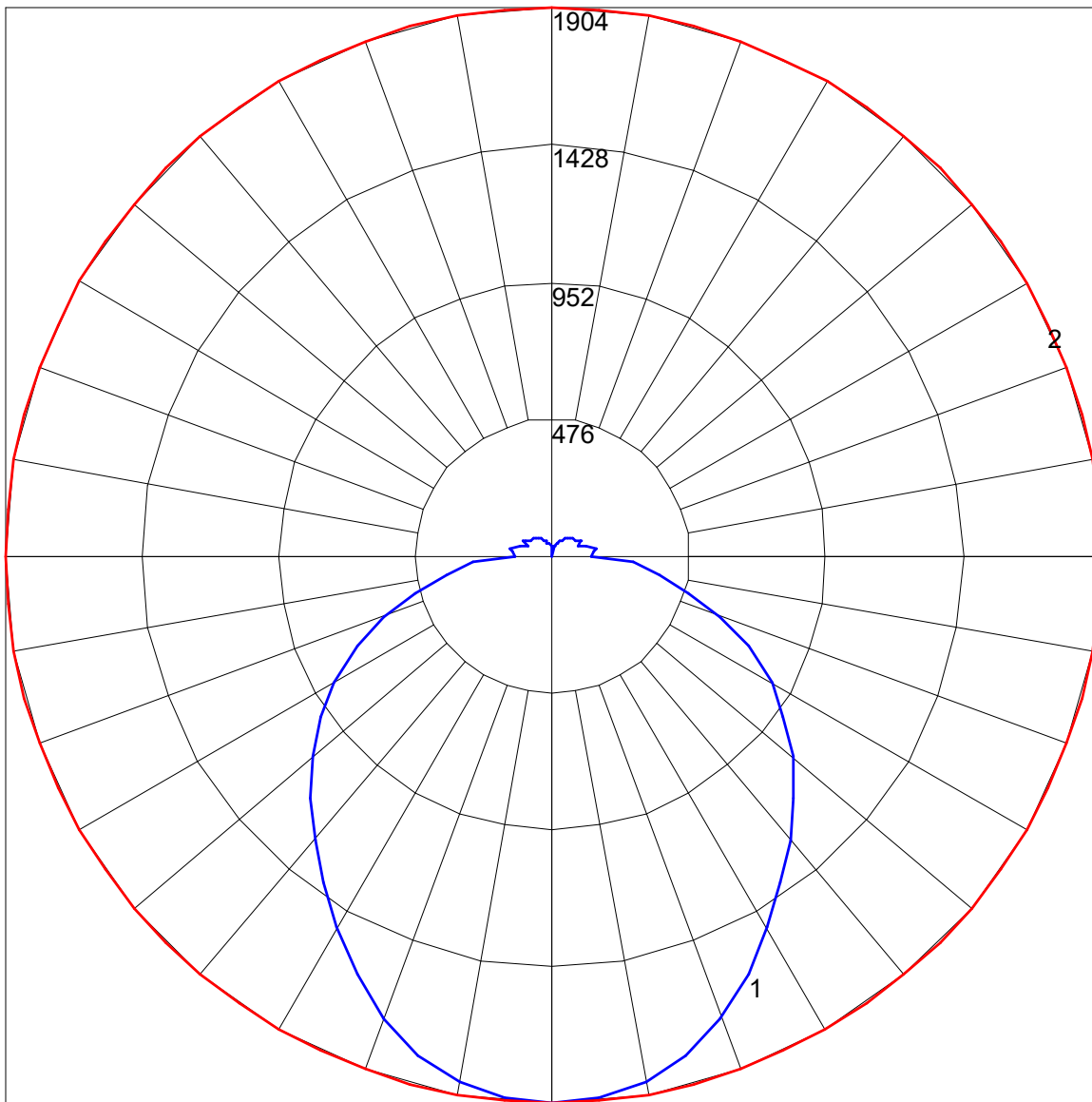
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1903.5 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.)