



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZDS-PRO-33-LED4-HO.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	18471
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	150
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	10514	10170	10475
55	10522	10212	10265
65	10615	10642	10108
75	10619	11292	9842
85	13653	14141	12325

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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	5456.7	5456.7	5456.7	5456.7	5456.7	5456.7	5456.7	5456.7	5456.7	5456.7
5	5430.9	5430.9	5430.9	5430.9	5435.2	5435.2	5430.9	5426.6	5426.6	5426.6
10	5336.3	5332.0	5336.3	5336.3	5340.6	5340.6	5336.3	5336.3	5336.3	5340.6
15	5155.7	5160.0	5155.7	5155.7	5168.6	5177.2	5177.2	5177.2	5177.2	5177.2
20	4910.6	4906.3	4906.3	4906.3	4914.9	4923.5	4927.8	4927.8	4927.8	4932.1
25	4601.0	4601.0	4605.3	4613.9	4622.5	4626.8	4626.8	4631.1	4631.1	4631.1
30	4287.1	4287.1	4291.4	4300.0	4304.3	4308.6	4304.3	4308.6	4304.3	4304.3
35	3977.5	3981.8	3990.4	3994.7	3994.7	3990.4	3981.8	3977.5	3973.2	3973.2
40	3689.4	3693.7	3698.0	3702.3	3698.0	3685.1	3676.5	3667.9	3655.0	3655.0
45	3405.6	3405.6	3418.5	3418.5	3414.2	3401.3	3384.1	3375.5	3362.6	3354.0
50	3117.5	3117.5	3130.4	3134.7	3134.7	3121.8	3108.9	3096.0	3083.1	3074.5
55	2816.5	2820.8	2838.0	2846.6	2846.6	2842.3	2829.4	2820.8	2807.9	2803.6
60	2519.8	2524.1	2549.9	2562.8	2571.4	2571.4	2571.4	2567.1	2558.5	2549.9
65	2158.6	2167.2	2193.0	2214.5	2236.0	2248.9	2253.2	2257.5	2253.2	2244.6
70	1784.5	1793.1	1823.2	1849.0	1874.8	1896.3	1913.5	1926.4	1930.7	1922.1
75	1410.4	1423.3	1453.4	1483.5	1517.9	1548.0	1569.5	1586.7	1595.3	1591.0
80	1075.0	1087.9	1118.0	1148.1	1182.5	1216.9	1242.7	1259.9	1272.8	1268.5
85	795.5	804.1	821.3	842.8	868.6	894.4	915.9	933.1	941.7	941.7
90	378.4	382.7	395.6	417.1	438.6	455.8	473.0	490.2	494.5	494.5
95	408.5	412.8	421.4	438.6	455.8	468.7	481.6	485.9	481.6	473.0
100	438.6	438.6	451.5	468.7	485.9	503.1	516.0	524.6	528.9	516.0
105	339.7	348.3	361.2	378.4	399.9	412.8	425.7	430.0	434.3	451.5
110	266.6	275.2	296.7	322.5	352.6	382.7	412.8	438.6	460.1	468.7
115	322.5	326.8	344.0	365.5	382.7	404.2	417.1	430.0	438.6	442.9
120	309.6	313.9	326.8	339.7	352.6	365.5	378.4	391.3	399.9	399.9
125	279.5	283.8	292.4	305.3	318.2	335.4	348.3	356.9	361.2	365.5
130	258.0	262.3	270.9	283.8	296.7	309.6	318.2	326.8	331.1	335.4
135	245.1	249.4	258.0	266.6	275.2	283.8	296.7	305.3	309.6	305.3
140	223.6	227.9	232.2	245.1	253.7	262.3	266.6	270.9	275.2	279.5
145	206.4	210.7	215.0	219.3	223.6	232.2	236.5	236.5	240.8	240.8
150	180.6	180.6	184.9	193.5	197.8	202.1	206.4	206.4	206.4	206.4
155	159.1	163.4	163.4	167.7	172.0	176.3	176.3	176.3	180.6	180.6
160	141.9	141.9	141.9	146.2	146.2	150.5	154.8	154.8	159.1	159.1
165	124.7	124.7	124.7	124.7	129.0	129.0	129.0	129.0	129.0	129.0
170	103.2	103.2	107.5	107.5	107.5	107.5	103.2	103.2	103.2	103.2
175	90.3	90.3	90.3	90.3	90.3	90.3	86.0	86.0	86.0	86.0
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	5456.7	5456.7	5456.7	5456.7	5456.7	5456.7	5456.7	5456.7	5456.7
5	5426.6	5430.9	5435.2	5439.5	5439.5	5435.2	5435.2	5435.2	5435.2
10	5336.3	5340.6	5340.6	5344.9	5344.9	5344.9	5344.9	5340.6	5340.6
15	5177.2	5177.2	5181.5	5181.5	5172.9	5168.6	5164.3	5164.3	5164.3
20	4932.1	4932.1	4936.4	4932.1	4923.5	4914.9	4919.2	4923.5	4927.8
25	4635.4	4639.7	4639.7	4635.4	4635.4	4626.8	4626.8	4622.5	4622.5
30	4308.6	4317.2	4317.2	4321.5	4325.8	4317.2	4308.6	4304.3	4308.6
35	3977.5	3986.1	3990.4	4003.3	4007.6	4007.6	4003.3	3999.0	3999.0
40	3659.3	3663.6	3676.5	3689.4	3698.0	3706.6	3702.3	3698.0	3698.0
45	3358.3	3366.9	3379.8	3388.4	3401.3	3405.6	3401.3	3392.7	3392.7
50	3074.5	3078.8	3087.4	3096.0	3100.3	3100.3	3091.7	3078.8	3074.5
55	2799.3	2795.0	2795.0	2795.0	2795.0	2786.4	2773.5	2752.0	2747.7
60	2541.3	2532.7	2524.1	2515.5	2502.6	2485.4	2463.9	2438.1	2433.8

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CANDELA TABULATION - (Cont.)

65	2236.0	2218.8	2201.6	2180.1	2154.3	2124.2	2094.1	2064.0	2055.4
70	1909.2	1887.7	1857.6	1827.5	1793.1	1754.4	1720.0	1685.6	1672.7
75	1578.1	1552.3	1517.9	1479.2	1436.2	1393.2	1354.5	1320.1	1307.2
80	1255.6	1229.8	1195.4	1156.7	1113.7	1070.7	1027.7	997.6	984.7
85	928.8	907.3	881.5	847.1	812.7	778.3	748.2	726.7	718.1
90	490.2	477.3	460.1	434.3	412.8	387.0	365.5	352.6	348.3
95	455.8	434.3	408.5	387.0	365.5	344.0	322.5	309.6	305.3
100	498.8	477.3	460.1	451.5	442.9	425.7	412.8	399.9	395.6
105	464.4	477.3	468.7	455.8	434.3	412.8	391.3	378.4	374.1
110	468.7	468.7	460.1	442.9	421.4	399.9	378.4	361.2	356.9
115	442.9	438.6	430.0	417.1	399.9	378.4	361.2	348.3	344.0
120	399.9	395.6	382.7	374.1	361.2	344.0	331.1	318.2	313.9
125	365.5	361.2	352.6	339.7	326.8	309.6	296.7	283.8	279.5
130	335.4	331.1	322.5	313.9	296.7	283.8	270.9	262.3	253.7
135	309.6	305.3	296.7	288.1	275.2	262.3	253.7	245.1	240.8
140	275.2	270.9	266.6	262.3	253.7	240.8	232.2	223.6	219.3
145	240.8	236.5	236.5	227.9	223.6	219.3	210.7	206.4	202.1
150	206.4	206.4	202.1	197.8	197.8	189.2	184.9	180.6	180.6
155	180.6	176.3	176.3	172.0	172.0	167.7	163.4	159.1	159.1
160	159.1	154.8	154.8	150.5	146.2	146.2	141.9	141.9	137.6
165	129.0	129.0	129.0	129.0	124.7	124.7	124.7	124.7	120.4
170	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2
175	86.0	86.0	86.0	90.3	90.3	90.3	90.3	90.3	90.3
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	1970.82	N.A.	10.70
0-30	4102.73	N.A.	22.20
0-40	6604.99	N.A.	35.80
0-60	11744.23	N.A.	63.60
0-80	15489.24	N.A.	83.90
0-90	16388.03	N.A.	88.70
10-90	15872.51	N.A.	85.90
20-40	4634.18	N.A.	25.10
20-50	7255.68	N.A.	39.30
40-70	7307.05	N.A.	39.60
60-80	3745.01	N.A.	20.30
70-80	1577.2	N.A.	8.50
80-90	898.79	N.A.	4.90
90-110	921.39	N.A.	5.00
90-120	1305.00	N.A.	7.10
90-130	1600.21	N.A.	8.70
90-150	1958.02	N.A.	10.60
90-180	2082.6	N.A.	11.30
110-180	1161.21	N.A.	6.30
0-180	18470.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	515.52
10-20	1455.29
20-30	2131.92
30-40	2502.26
40-50	2621.51
50-60	2517.73
60-70	2167.81
70-80	1577.2
80-90	898.79
90-100	472.93
100-110	448.46
110-120	383.61
120-130	295.21
130-140	215.79
140-150	142.02
150-160	80.13
160-170	36.49
170-180	7.96

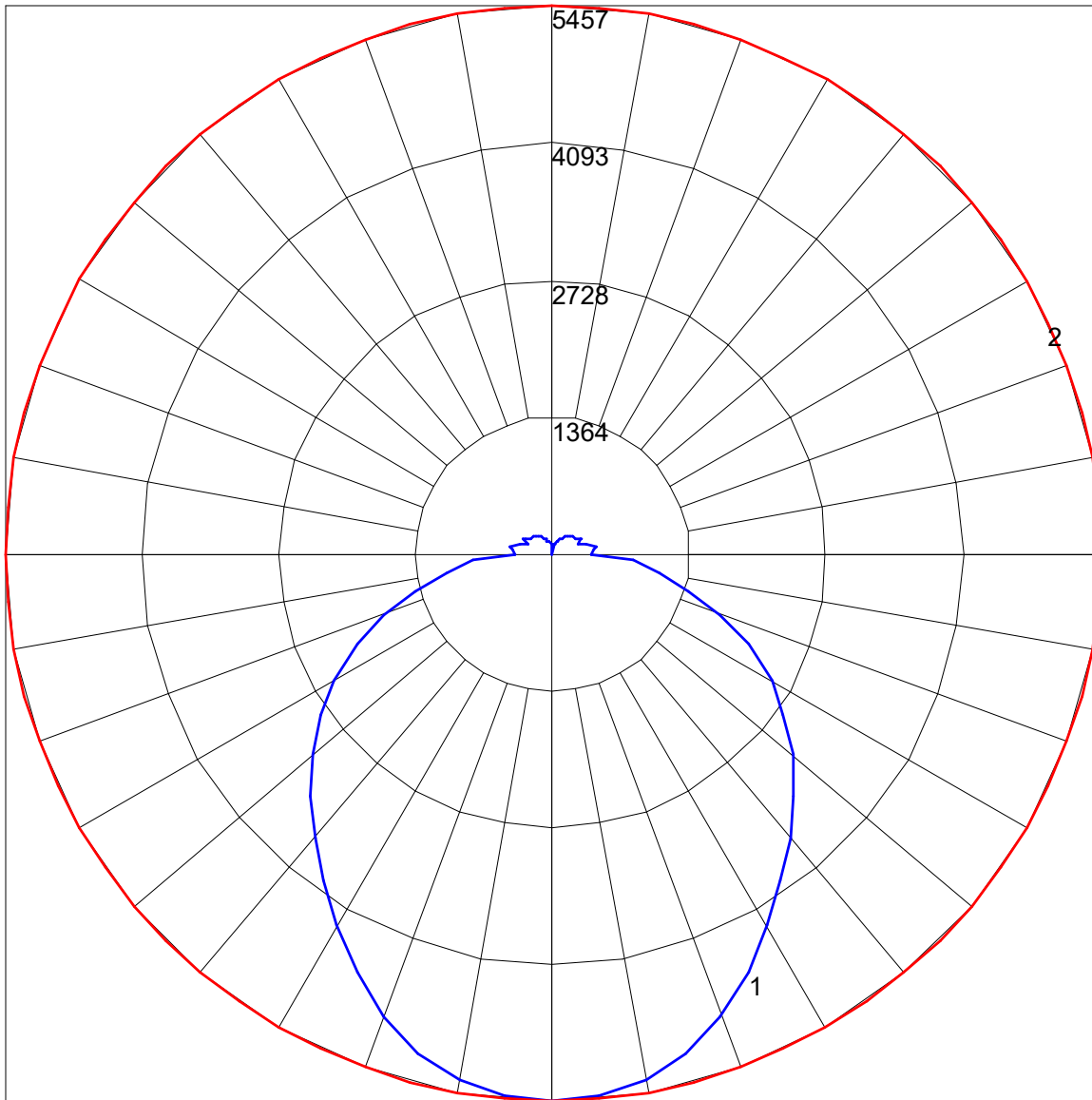
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 5456.7 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.)