



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZUS-33-LED4-MO.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-33-LED4-MO
 [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	7431
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	66
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	304	372	299
55	420	536	420
65	638	845	681
75	1029	1289	1133
85	2821	2858	2108

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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	36.33	36.33	36.33	36.33	36.33	36.33	34.60	34.60	34.60	34.60
10	41.52	41.52	43.25	43.25	43.25	43.25	41.52	41.52	41.52	41.52
15	50.17	50.17	50.17	50.17	51.90	51.90	51.90	51.90	51.90	51.90
20	57.09	57.09	57.09	58.82	58.82	60.55	62.28	62.28	64.01	64.01
25	64.01	65.74	65.74	67.47	69.20	70.93	70.93	70.93	72.66	72.66
30	72.66	72.66	74.39	77.85	79.58	81.31	83.04	83.04	83.04	83.04
35	83.04	84.77	86.50	88.23	89.96	93.42	95.15	95.15	96.88	96.88
40	89.96	91.69	93.42	98.61	102.07	105.53	107.26	108.99	110.72	112.45
45	98.61	100.34	103.80	107.26	110.72	114.18	119.37	122.83	124.56	122.83
50	103.80	105.53	108.99	114.18	119.37	124.56	128.02	131.48	133.21	134.94
55	112.45	114.18	117.64	122.83	128.02	134.94	140.13	143.59	145.32	147.05
60	124.56	126.29	131.48	136.67	141.86	147.05	152.24	157.43	160.89	160.89
65	129.75	131.48	138.40	147.05	153.97	162.62	167.81	173.00	176.46	178.19
70	107.26	110.72	119.37	129.75	141.86	153.97	166.08	176.46	185.11	188.57
75	136.67	140.13	145.32	152.24	160.89	166.08	171.27	173.00	174.73	181.65
80	176.46	176.46	181.65	188.57	195.49	202.41	207.60	211.06	212.79	207.60
85	164.35	166.08	169.54	176.46	183.38	188.57	193.76	195.49	193.76	190.30
90	152.24	153.97	159.16	167.81	176.46	183.38	190.30	197.22	198.95	198.95
95	320.05	323.51	330.43	339.08	349.46	359.84	368.49	375.41	378.87	378.87
100	432.50	437.69	449.80	461.91	475.75	489.59	499.97	506.89	512.08	510.35
105	567.44	572.63	584.74	596.85	610.69	622.80	631.45	638.37	641.83	640.10
110	717.95	721.41	733.52	743.90	754.28	762.93	769.85	775.04	776.77	773.31
115	868.46	871.92	882.30	890.95	899.60	904.79	906.52	908.25	906.52	903.06
120	1013.78	1015.51	1025.89	1031.08	1034.54	1034.54	1034.54	1032.81	1029.35	1025.89
125	1133.15	1134.88	1141.80	1145.26	1145.26	1143.53	1138.34	1134.88	1129.69	1127.96
130	1254.25	1254.25	1259.44	1261.17	1261.17	1255.98	1250.79	1245.60	1240.41	1236.95
135	1370.16	1370.16	1375.35	1375.35	1373.62	1368.43	1361.51	1358.05	1352.86	1349.40
140	1484.34	1486.07	1487.80	1489.53	1487.80	1482.61	1479.15	1475.69	1470.50	1470.50
145	1600.25	1601.98	1605.44	1607.17	1607.17	1605.44	1601.98	1600.25	1598.52	1598.52
150	1724.81	1724.81	1726.54	1730.00	1731.73	1733.46	1731.73	1733.46	1731.73	1731.73
155	1851.10	1851.10	1852.83	1856.29	1859.75	1861.48	1861.48	1863.21	1863.21	1863.21
160	1975.66	1973.93	1973.93	1973.93	1977.39	1980.85	1982.58	1982.58	1982.58	1984.31
165	2074.27	2076.00	2074.27	2074.27	2079.46	2082.92	2082.92	2082.92	2082.92	2082.92
170	2146.93	2145.20	2146.93	2146.93	2148.66	2148.66	2146.93	2146.93	2146.93	2148.66
175	2184.99	2184.99	2184.99	2184.99	2186.72	2186.72	2184.99	2183.26	2183.26	2183.26
180	2195.37	2195.37	2195.37	2195.37	2195.37	2195.37	2195.37	2195.37	2195.37	2195.37

**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	34.60	34.60	34.60	36.33	36.33	36.33	36.33	36.33	36.33
10	41.52	41.52	41.52	41.52	41.52	41.52	41.52	41.52	41.52
15	51.90	51.90	51.90	51.90	50.17	50.17	50.17	50.17	48.44
20	64.01	62.28	62.28	60.55	58.82	58.82	57.09	57.09	55.36
25	72.66	70.93	70.93	69.20	69.20	67.47	65.74	64.01	64.01
30	83.04	83.04	81.31	79.58	79.58	76.12	74.39	72.66	72.66
35	96.88	95.15	95.15	91.69	89.96	88.23	84.77	83.04	81.31
40	110.72	108.99	107.26	105.53	102.07	96.88	93.42	89.96	88.23
45	124.56	122.83	119.37	115.91	110.72	105.53	102.07	98.61	96.88
50	134.94	133.21	129.75	126.29	119.37	114.18	108.99	105.53	102.07
55	147.05	145.32	141.86	136.67	131.48	124.56	119.37	114.18	112.45
60	160.89	159.16	153.97	150.51	145.32	138.40	133.21	128.02	126.29

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65	178.19	176.46	173.00	167.81	160.89	152.24	145.32	140.13	138.40
70	188.57	188.57	185.11	178.19	169.54	160.89	152.24	145.32	143.59
75	186.84	192.03	188.57	183.38	174.73	166.08	157.43	152.24	150.51
80	200.68	192.03	185.11	181.65	178.19	171.27	166.08	160.89	159.16
85	183.38	174.73	164.35	155.70	147.05	138.40	129.75	124.56	122.83
90	197.22	192.03	185.11	174.73	166.08	155.70	147.05	141.86	140.13
95	373.68	365.03	354.65	340.81	326.97	313.13	301.02	292.37	288.91
100	505.16	494.78	480.94	465.37	448.07	430.77	413.47	401.36	396.17
105	634.91	624.53	610.69	595.12	577.82	560.52	544.95	531.11	525.92
110	768.12	759.47	747.36	735.25	721.41	705.84	692.00	678.16	672.97
115	899.60	892.68	885.76	877.11	866.73	854.62	842.51	830.40	826.94
120	1022.43	1018.97	1015.51	1012.05	1006.86	999.94	991.29	980.91	979.18
125	1126.23	1124.50	1124.50	1124.50	1124.50	1121.04	1115.85	1107.20	1105.47
130	1236.95	1238.68	1242.14	1245.60	1247.33	1247.33	1243.87	1238.68	1236.95
135	1351.13	1354.59	1359.78	1363.24	1368.43	1370.16	1368.43	1364.97	1364.97
140	1472.23	1473.96	1479.15	1484.34	1487.80	1491.26	1489.53	1487.80	1487.80
145	1600.25	1603.71	1605.44	1610.63	1612.36	1612.36	1610.63	1608.90	1608.90
150	1733.46	1736.92	1736.92	1738.65	1740.38	1736.92	1733.46	1731.73	1733.46
155	1864.94	1866.67	1866.67	1864.94	1864.94	1861.48	1861.48	1859.75	1859.75
160	1984.31	1984.31	1986.04	1984.31	1980.85	1977.39	1979.12	1980.85	1982.58
165	2082.92	2082.92	2084.65	2084.65	2081.19	2079.46	2077.73	2077.73	2077.73
170	2146.93	2148.66	2148.66	2150.39	2150.39	2150.39	2150.39	2148.66	2148.66
175	2183.26	2184.99	2186.72	2188.45	2188.45	2186.72	2186.72	2186.72	2186.72
180	2195.37	2195.37	2195.37	2195.37	2195.37	2195.37	2195.37	2195.37	2195.37

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	17.88	N.A.	0.20
0-30	50.12	N.A.	0.70
0-40	107.26	N.A.	1.40
0-60	312.85	N.A.	4.20
0-80	647.61	N.A.	8.70
0-90	837.88	N.A.	11.30
10-90	834.68	N.A.	11.20
20-40	89.38	N.A.	1.20
20-50	176.20	N.A.	2.40
40-70	359.93	N.A.	4.80
60-80	334.76	N.A.	4.50
70-80	180.43	N.A.	2.40
80-90	190.27	N.A.	2.60
90-110	996.15	N.A.	13.40
90-120	1868.32	N.A.	25.10
90-130	2881.27	N.A.	38.80
90-150	4942.69	N.A.	66.50
90-180	6593.32	N.A.	88.70
110-180	5597.17	N.A.	75.30
0-180	7431.21	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3.20
10-20	14.68
20-30	32.24
30-40	57.14
40-50	86.82
50-60	118.77
60-70	154.34
70-80	180.43
80-90	190.27
90-100	361.60
100-110	634.55
110-120	872.17
120-130	1012.95
130-140	1054.7
140-150	1006.72
150-160	857.72
160-170	585.50
170-180	207.41

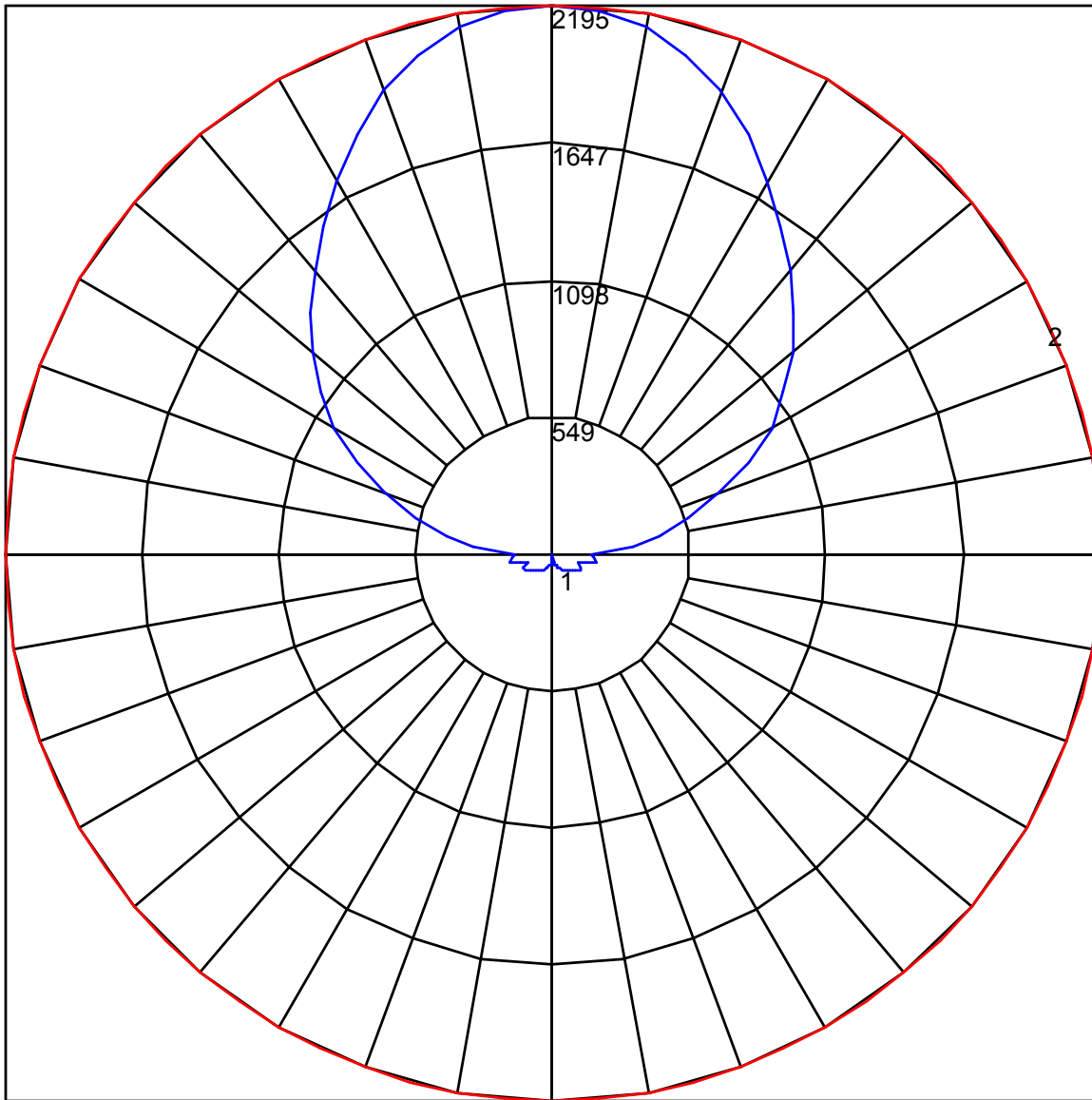
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2195.37 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.)