



IES INDOOR REPORT

PHOTOMETRIC FILENAME : WAL14-LED35-SO-04-P.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] Wal14-LED35-SO-04-P
 [TESTLAB] Intertek
 [ISSUE DATE] October 12, 2016
 [MANUFAC] Prudential Ltg

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3163
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	38.82
Ballast Factor	1.00
CIE Type	General Diffuse
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)	4.00 ft
Luminous Width (90-270)	0.58 ft
Luminous Height	0.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2447	1157	404
55	3554	1531	373
65	5310	2031	340
75	8864	2820	298
85	21381	4379	198

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	104.31	104.31	104.31	104.31	104.31	104.31	104.31	104.31	104.31	104.31
2.5	153.23	154.65	140.23	123.35	104.59	91.87	85.54	84.07	83.03	84.07
5.0	191.45	198.51	186.73	143.80	104.70	85.89	85.46	87.61	88.52	87.61
7.5	145.73	142.30	176.06	167.59	105.00	85.24	89.87	93.56	95.54	93.56
10.0	166.90	159.98	144.47	194.27	104.70	87.26	94.77	98.79	101.66	98.79
12.5	148.53	162.29	156.95	190.55	104.32	89.57	98.74	108.07	116.62	108.07
15.0	135.11	132.92	162.18	158.97	103.21	91.65	104.37	128.51	143.80	128.51
17.5	145.58	139.74	139.86	132.38	102.47	94.14	115.91	157.31	179.35	157.31
20.0	162.00	152.08	126.68	139.52	101.58	96.33	133.36	192.51	220.50	192.51
22.5	180.36	167.70	130.09	136.09	100.13	97.57	155.73	230.75	263.78	230.75
25.0	201.17	184.89	136.84	137.52	98.49	99.36	181.73	270.12	306.44	270.12
27.5	225.29	204.15	145.73	131.40	96.64	102.58	209.68	308.84	347.03	308.84
30.0	249.88	224.34	155.39	113.13	94.79	108.26	238.53	345.14	382.36	345.14
32.5	274.60	245.17	165.68	101.58	92.84	116.17	267.26	376.91	412.25	376.91
35.0	298.02	265.62	176.60	96.31	90.55	125.48	295.17	402.42	434.57	402.42
37.5	321.92	285.76	187.54	93.46	88.22	136.44	320.63	422.13	450.68	422.13
40.0	345.30	305.33	198.29	91.75	85.57	148.72	342.36	435.95	460.45	435.95
42.5	368.24	324.52	208.66	90.95	82.58	161.73	359.51	444.16	465.01	444.16
45.0	391.15	343.12	218.61	90.56	79.69	175.24	371.56	447.01	464.48	447.01
47.5	411.18	360.69	228.17	90.26	76.03	188.43	378.79	445.15	459.85	445.15
50.0	431.87	377.57	237.21	90.00	72.59	201.34	381.17	439.72	452.88	439.72
52.5	449.68	393.17	245.66	89.65	69.16	212.73	379.18	431.60	443.58	431.60
55.0	468.67	408.23	253.63	89.29	65.43	222.37	373.35	421.94	433.43	421.94
57.5	485.17	421.86	260.97	88.83	61.05	229.25	364.25	410.71	422.67	410.71
60.0	501.17	434.28	267.77	88.28	57.22	232.61	353.10	400.21	414.31	400.21
62.5	516.85	446.46	273.84	87.62	53.67	231.84	341.03	390.63	404.60	390.63
65.0	530.50	457.86	278.88	86.87	50.25	227.30	327.69	380.58	395.47	380.58
67.5	543.94	467.95	283.48	86.23	46.79	219.15	316.48	371.33	387.40	371.33
70.0	555.16	476.98	288.03	85.66	43.06	207.55	305.22	363.34	381.65	363.34
72.5	566.12	485.17	292.05	85.18	39.11	193.83	295.22	359.12	381.02	359.12
75.0	575.36	492.22	295.45	84.62	34.62	180.40	287.93	361.99	400.77	361.99
77.5	582.98	497.86	298.16	84.21	29.34	167.71	286.51	409.05	507.15	409.05
80.0	589.39	502.27	300.17	84.48	22.90	158.45	321.32	575.90	611.20	575.90
82.5	594.09	505.25	301.57	84.73	19.54	157.16	495.75	414.40	393.20	414.40
85.0	597.29	507.16	302.38	85.03	16.01	269.86	289.81	345.00	364.25	345.00
87.5	598.51	507.83	302.61	85.29	9.30	150.45	266.79	339.41	361.89	339.41
90.0	595.53	506.07	302.03	85.48	6.95	138.06	263.91	336.89	362.01	336.89
92.5	592.60	503.43	300.13	84.61	9.10	170.79	269.35	342.88	366.31	342.88
95.0	587.99	499.54	297.53	83.63	14.43	238.35	282.16	343.86	366.49	343.86
97.5	581.70	494.41	294.36	82.62	19.00	180.68	366.81	369.89	384.64	369.89
100.0	574.20	488.13	290.62	81.60	22.04	153.10	354.48	459.31	486.86	459.31
102.5	565.16	480.75	286.21	80.62	24.63	155.87	301.47	441.71	482.32	441.71
105.0	554.50	472.11	281.26	79.88	27.20	165.32	279.29	380.51	410.28	380.51
107.5	542.80	462.41	275.68	79.31	29.55	179.44	277.02	351.15	374.66	351.15
110.0	530.10	451.79	269.42	78.68	31.82	193.79	281.55	343.13	362.36	343.13
112.5	516.33	440.35	262.71	78.21	34.03	206.46	289.27	344.28	362.38	344.28
115.0	501.15	427.76	255.75	77.97	36.29	216.48	298.36	349.01	365.35	349.01
117.5	484.64	414.04	248.42	77.83	38.66	223.55	309.58	355.93	371.46	355.93
120.0	467.18	399.66	240.41	77.74	41.09	227.31	323.01	363.82	378.73	363.82
122.5	449.23	384.69	231.92	77.61	43.54	227.64	335.59	371.95	386.60	371.95
125.0	430.31	368.58	222.94	77.49	46.06	224.55	346.40	382.22	394.03	382.22
127.5	409.99	351.63	213.72	77.39	48.53	218.43	354.96	393.65	404.99	393.65
130.0	389.07	333.78	204.22	77.40	50.91	209.74	360.48	403.59	415.39	403.59
132.5	367.77	315.49	194.42	77.41	53.20	199.28	362.43	411.50	424.21	411.50

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CANDELA TABULATION - (Cont.)

135.0	345.51	296.71	184.30	77.35	55.32	187.96	360.04	416.77	430.73	416.77
137.5	322.54	277.45	174.16	77.34	57.29	176.11	353.14	418.77	434.02	418.77
140.0	298.83	257.81	163.99	77.44	59.14	164.07	341.58	416.33	433.53	416.33
142.5	275.23	238.03	153.85	77.99	60.74	152.13	325.47	408.99	428.13	408.99
145.0	252.25	218.44	143.93	84.23	62.11	140.71	305.33	396.15	416.95	396.15
147.5	229.44	199.25	134.73	96.93	63.38	130.11	281.80	377.69	399.67	377.69
150.0	206.92	180.72	126.20	104.81	64.57	120.74	256.08	353.22	376.23	353.22
152.5	185.15	163.39	118.29	104.30	65.92	112.70	229.36	323.49	346.72	323.49
155.0	165.49	148.01	111.08	104.03	66.84	105.87	202.43	289.58	310.83	289.58
157.5	148.46	133.91	104.92	99.05	67.81	100.82	176.12	253.14	271.03	253.14
160.0	132.81	121.57	110.90	104.27	68.58	98.11	151.77	216.22	230.58	216.22
162.5	119.23	111.30	131.30	119.00	69.29	96.64	130.89	180.76	191.94	180.76
165.0	108.96	130.67	120.37	115.09	69.61	95.83	114.33	148.73	156.24	148.73
167.5	139.25	129.04	108.53	98.32	70.19	94.88	102.73	122.67	126.15	122.67
170.0	123.43	112.26	122.34	85.34	70.12	90.72	97.32	104.42	104.55	104.42
172.5	107.38	121.78	106.46	76.60	70.27	84.70	94.79	96.41	95.55	96.41
175.0	108.75	94.30	81.51	70.91	70.00	78.78	87.81	92.17	91.52	92.17
177.5	75.19	71.53	69.32	67.89	69.67	73.82	77.00	79.73	76.67	79.73
180.0	68.46	68.46	68.46	68.46	68.46	68.46	68.46	68.46	68.46	68.46

Vert. Angles **Horizontal Angles**

	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	104.31	104.31	104.31	104.31	104.31	104.31	104.31
2.5	85.54	91.87	104.59	123.35	140.23	154.65	153.23
5.0	85.46	85.89	104.70	143.80	186.73	198.51	191.45
7.5	89.87	85.24	105.00	167.59	176.06	142.30	145.73
10.0	94.77	87.26	104.70	194.27	144.47	159.98	166.90
12.5	98.74	89.57	104.32	190.55	156.95	162.29	148.53
15.0	104.37	91.65	103.21	158.97	162.18	132.92	135.11
17.5	115.91	94.14	102.47	132.38	139.86	139.74	145.58
20.0	133.36	96.33	101.58	139.52	126.68	152.08	162.00
22.5	155.73	97.57	100.13	136.09	130.09	167.70	180.36
25.0	181.73	99.36	98.49	137.52	136.84	184.89	201.17
27.5	209.68	102.58	96.64	131.40	145.73	204.15	225.29
30.0	238.53	108.26	94.79	113.13	155.39	224.34	249.88
32.5	267.26	116.17	92.84	101.58	165.68	245.17	274.60
35.0	295.17	125.48	90.55	96.31	176.60	265.62	298.02
37.5	320.63	136.44	88.22	93.46	187.54	285.76	321.92
40.0	342.36	148.72	85.57	91.75	198.29	305.33	345.30
42.5	359.51	161.73	82.58	90.95	208.66	324.52	368.24
45.0	371.56	175.24	79.69	90.56	218.61	343.12	391.15
47.5	378.79	188.43	76.03	90.26	228.17	360.69	411.18
50.0	381.17	201.34	72.59	90.00	237.21	377.57	431.87
52.5	379.18	212.73	69.16	89.65	245.66	393.17	449.68
55.0	373.35	222.37	65.43	89.29	253.63	408.23	468.67
57.5	364.25	229.25	61.05	88.83	260.97	421.86	485.17
60.0	353.10	232.61	57.22	88.28	267.77	434.28	501.17
62.5	341.03	231.84	53.67	87.62	273.84	446.46	516.85
65.0	327.69	227.30	50.25	86.87	278.88	457.86	530.50
67.5	316.48	219.15	46.79	86.23	283.48	467.95	543.94
70.0	305.22	207.55	43.06	85.66	288.03	476.98	555.16
72.5	295.22	193.83	39.11	85.18	292.05	485.17	566.12
75.0	287.93	180.40	34.62	84.62	295.45	492.22	575.36
77.5	286.51	167.71	29.34	84.21	298.16	497.86	582.98
80.0	321.32	158.45	22.90	84.48	300.17	502.27	589.39

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CANDELA TABULATION - (Cont.)

82.5	495.75	157.16	19.54	84.73	301.57	505.25	594.09
85.0	289.81	269.86	16.01	85.03	302.38	507.16	597.29
87.5	266.79	150.45	9.30	85.29	302.61	507.83	598.51
90.0	263.91	138.06	6.95	85.48	302.03	506.07	595.53
92.5	269.35	170.79	9.10	84.61	300.13	503.43	592.60
95.0	282.16	238.35	14.43	83.63	297.53	499.54	587.99
97.5	366.81	180.68	19.00	82.62	294.36	494.41	581.70
100.0	354.48	153.10	22.04	81.60	290.62	488.13	574.20
102.5	301.47	155.87	24.63	80.62	286.21	480.75	565.16
105.0	279.29	165.32	27.20	79.88	281.26	472.11	554.50
107.5	277.02	179.44	29.55	79.31	275.68	462.41	542.80
110.0	281.55	193.79	31.82	78.68	269.42	451.79	530.10
112.5	289.27	206.46	34.03	78.21	262.71	440.35	516.33
115.0	298.36	216.48	36.29	77.97	255.75	427.76	501.15
117.5	309.58	223.55	38.66	77.83	248.42	414.04	484.64
120.0	323.01	227.31	41.09	77.74	240.41	399.66	467.18
122.5	335.59	227.64	43.54	77.61	231.92	384.69	449.23
125.0	346.40	224.55	46.06	77.49	222.94	368.58	430.31
127.5	354.96	218.43	48.53	77.39	213.72	351.63	409.99
130.0	360.48	209.74	50.91	77.40	204.22	333.78	389.07
132.5	362.43	199.28	53.20	77.41	194.42	315.49	367.77
135.0	360.04	187.96	55.32	77.35	184.30	296.71	345.51
137.5	353.14	176.11	57.29	77.34	174.16	277.45	322.54
140.0	341.58	164.07	59.14	77.44	163.99	257.81	298.83
142.5	325.47	152.13	60.74	77.99	153.85	238.03	275.23
145.0	305.33	140.71	62.11	84.23	143.93	218.44	252.25
147.5	281.80	130.11	63.38	96.93	134.73	199.25	229.44
150.0	256.08	120.74	64.57	104.81	126.20	180.72	206.92
152.5	229.36	112.70	65.92	104.30	118.29	163.39	185.15
155.0	202.43	105.87	66.84	104.03	111.08	148.01	165.49
157.5	176.12	100.82	67.81	99.05	104.92	133.91	148.46
160.0	151.77	98.11	68.58	104.27	110.90	121.57	132.81
162.5	130.89	96.64	69.29	119.00	131.30	111.30	119.23
165.0	114.33	95.83	69.61	115.09	120.37	130.67	108.96
167.5	102.73	94.88	70.19	98.32	108.53	129.04	139.25
170.0	97.32	90.72	70.12	85.34	122.34	112.26	123.43
172.5	94.79	84.70	70.27	76.60	106.46	121.78	107.38
175.0	87.81	78.78	70.00	70.91	81.51	94.30	108.75
177.5	77.00	73.82	69.67	67.89	69.32	71.53	75.19
180.0	68.46	68.46	68.46	68.46	68.46	68.46	68.46

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	48.98	N.A.	1.50
0-30	128.65	N.A.	4.10
0-40	271.64	N.A.	8.60
0-60	734.87	N.A.	23.20
0-80	1319.71	N.A.	41.70
0-90	1635.08	N.A.	51.70
10-90	1623.29	N.A.	51.30
20-40	222.66	N.A.	7.00
20-50	430.41	N.A.	13.60
40-70	744.84	N.A.	23.60
60-80	584.85	N.A.	18.50
70-80	303.23	N.A.	9.60
80-90	315.36	N.A.	10.00
90-110	596.20	N.A.	18.90
90-120	856.20	N.A.	27.10
90-130	1089.13	N.A.	34.40
90-150	1411.51	N.A.	44.60
90-180	1527.47	N.A.	48.30
110-180	931.27	N.A.	29.40
0-180	3162.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	11.78
10-20	37.19
20-30	79.67
30-40	142.99
40-50	207.75
50-60	255.48
60-70	281.61
70-80	303.23
80-90	315.36
90-100	304.65
100-110	291.55
110-120	260.00
120-130	232.93
130-140	189.83
140-150	132.55
150-160	74.11
160-170	33.30
170-180	8.54

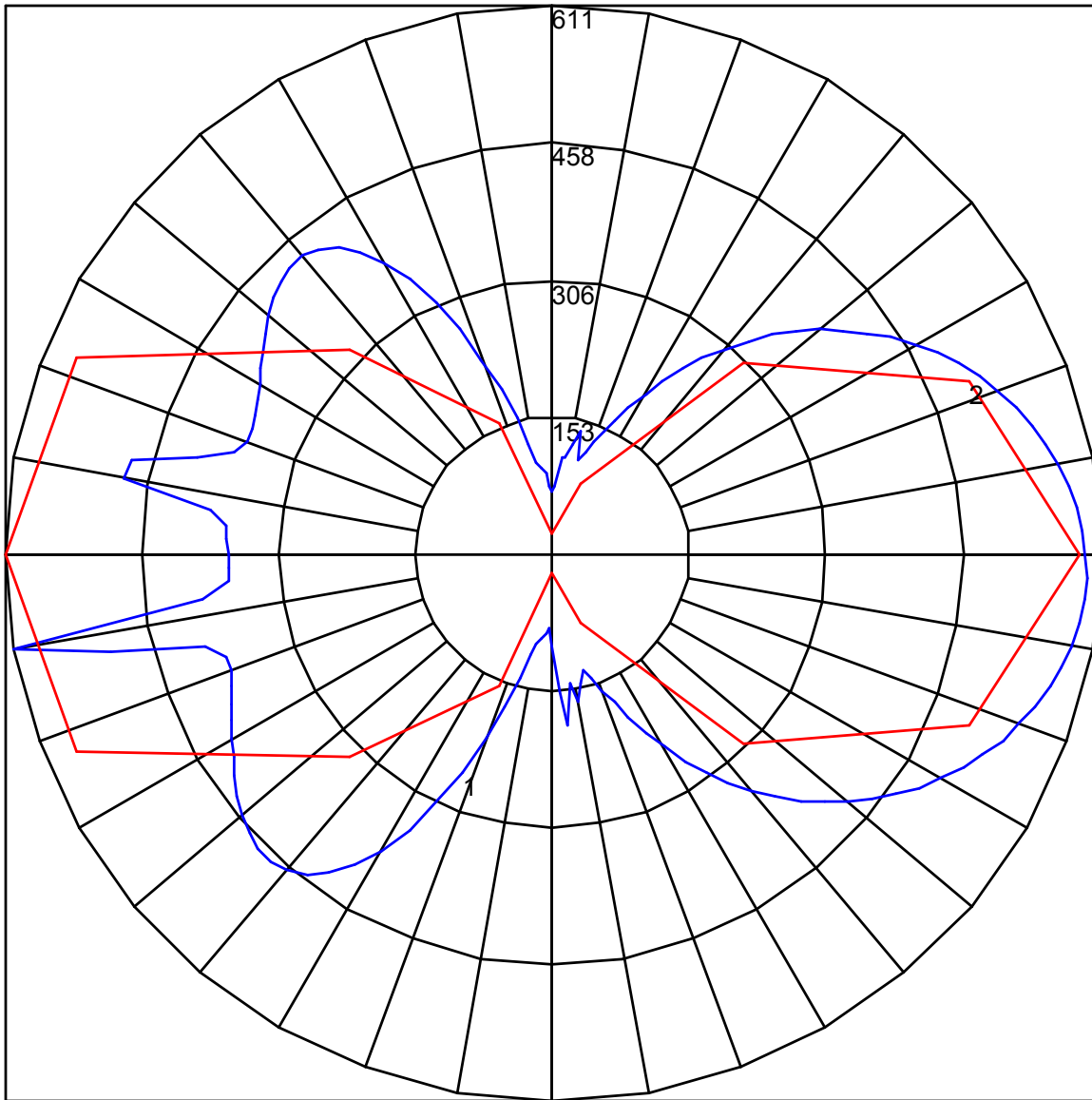
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	93	87	81	76	85	80	74	70	66	62	59	54	51	48	43	41	39	33
2	83	73	65	58	75	67	59	53	55	50	45	45	40	37	35	32	29	24
3	74	62	53	46	68	57	49	42	47	41	35	38	33	29	29	26	22	18
4	67	54	44	37	61	49	41	34	41	34	29	33	27	23	25	21	18	14
5	61	47	38	31	56	43	35	28	36	29	24	29	23	19	22	18	15	11
6	56	42	33	26	51	39	30	24	32	25	20	26	20	16	20	16	12	9
7	51	38	29	22	47	34	26	20	28	22	17	23	18	14	18	14	10	8
8	48	34	25	19	43	31	23	18	26	19	15	21	16	12	16	12	9	6
9	44	31	22	17	40	28	21	15	23	17	13	19	14	10	15	11	8	5
10	41	28	20	15	37	26	18	14	21	15	11	17	12	9	14	10	7	5

POLAR GRAPH



Maximum Candela = 611.2 Located At Horizontal Angle = 180, Vertical Angle = 80
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (80) (Through Max. Cd.)