



IES INDOOR REPORT

PHOTOMETRIC FILENAME : R1-LED35-MO-LLP.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] R1-LED35-MO-SAL
 [TESTLAB] Intertek
 [ISSUE DATE] 11/21-19
 [MANUFAC] Prudential Lighting
 [_TOTALLUMINAIRELUMENS] 5,185.9

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3630
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.76
Spacing Criterion (90-270)	1.88
Spacing Criterion (Diagonal)	1.74
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.19 ft
Luminous Height	0.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13534	9962	7480
55	13725	6000	4784
65	9536	3626	2915
75	5074	2442	1800
85	2176	2029	1429

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	591.57	591.57	591.57	591.57	591.57	591.57	591.57	591.57	591.57	591.57
2.5	594.65	598.50	607.74	620.83	624.33	618.66	603.96	596.26	595.00	596.26
5.0	594.93	614.88	660.10	711.34	728.28	705.67	652.82	610.40	595.91	610.40
7.5	595.49	642.18	750.68	871.99	917.14	864.99	740.11	634.76	597.80	634.76
10.0	596.75	679.98	884.94	1108.24	1198.75	1100.12	870.80	670.04	600.18	670.04
12.5	598.43	730.17	1064.98	1408.61	1539.72	1397.97	1045.80	717.92	603.19	717.92
15.0	601.16	793.59	1279.60	1714.30	1848.14	1704.71	1254.68	778.54	606.41	778.54
17.5	604.66	869.75	1503.46	1927.73	2005.71	1923.18	1477.14	850.78	610.61	850.78
20.0	609.49	956.55	1696.87	1978.90	1959.44	1977.22	1674.40	933.87	616.00	933.87
22.5	616.00	1050.70	1820.42	1870.54	1770.37	1872.29	1803.13	1026.13	622.51	1026.13
25.0	624.05	1146.95	1849.40	1674.26	1551.69	1677.69	1839.81	1120.70	629.93	1120.70
27.5	633.01	1235.01	1785.84	1473.29	1365.07	1475.53	1784.44	1208.48	638.54	1208.48
30.0	643.44	1306.27	1655.71	1305.29	1223.39	1307.46	1659.70	1281.70	648.41	1281.70
32.5	655.27	1352.75	1496.95	1172.99	1114.40	1174.74	1503.46	1330.84	659.40	1330.84
35.0	666.68	1369.13	1337.70	1064.00	1021.23	1065.05	1344.21	1349.67	670.11	1349.67
37.5	678.02	1354.36	1189.58	965.44	932.12	966.70	1191.96	1335.95	679.77	1335.95
40.0	688.24	1309.21	1053.64	873.53	846.23	873.67	1051.47	1291.57	687.61	1291.57
42.5	694.82	1236.62	928.62	788.06	767.90	787.29	924.00	1219.68	690.83	1219.68
45.0	695.24	1141.49	814.52	709.73	696.78	708.68	808.15	1125.95	686.84	1125.95
47.5	686.70	1029.84	712.04	638.19	628.88	636.58	700.28	1015.28	673.40	1015.28
50.0	665.21	909.09	620.13	570.29	561.68	568.82	599.90	895.02	646.87	895.02
52.5	629.86	786.94	538.37	504.21	495.39	502.32	515.41	771.75	606.76	771.75
55.0	581.70	669.13	465.57	441.77	434.35	434.21	448.35	653.38	553.21	653.38
57.5	519.12	561.82	401.87	385.42	379.47	372.33	388.22	544.46	487.83	544.46
60.0	447.23	467.25	346.08	335.44	330.82	324.59	334.81	447.93	416.50	447.93
62.5	375.69	385.98	298.13	291.62	287.63	283.85	289.31	367.22	345.45	367.22
65.0	306.18	317.66	257.67	253.54	249.69	247.17	250.25	301.56	278.39	301.56
67.5	241.15	261.52	223.79	220.36	216.09	215.04	217.56	247.31	218.68	247.31
70.0	186.83	215.81	195.30	191.31	186.41	186.97	189.91	198.38	168.28	198.38
72.5	142.94	178.15	171.71	166.53	161.07	162.96	167.37	167.09	127.12	167.09
75.0	105.84	147.35	152.32	146.23	140.28	143.22	149.17	139.79	93.59	139.79
77.5	75.39	122.43	136.85	130.27	124.04	127.89	133.98	116.34	66.50	116.34
80.0	52.15	102.13	124.18	118.30	112.28	116.41	121.52	96.95	44.80	96.95
82.5	34.02	85.40	113.75	109.27	103.67	107.59	111.44	81.13	27.86	81.13
85.0	19.53	71.89	105.07	101.99	96.95	100.66	103.11	68.53	14.98	68.53
87.5	9.03	61.32	97.72	95.97	91.21	94.71	95.83	58.52	5.88	58.52
90.0	0.00	52.92	91.14	90.65	86.10	89.46	89.46	50.68	0.00	50.68
92.5	0.00	46.62	85.26	86.03	81.76	84.91	83.86	44.80	0.00	44.80
95.0	0.00	41.72	79.94	81.90	78.19	80.85	78.68	40.18	0.00	40.18
97.5	0.00	37.66	75.11	78.26	75.11	77.21	73.85	36.33	0.00	36.33
100.0	0.00	34.23	70.49	75.04	72.45	74.06	69.30	32.97	0.00	32.97
102.5	0.00	30.80	66.08	72.03	70.21	71.19	65.03	29.61	0.00	29.61
105.0	0.00	27.02	62.02	69.30	68.25	68.53	60.97	26.11	0.00	26.11
107.5	0.00	24.22	58.10	66.57	66.15	65.87	57.12	23.17	0.00	23.17
110.0	0.00	21.98	54.25	63.84	63.84	63.21	53.20	19.81	0.00	19.81
112.5	0.00	20.16	49.98	60.90	61.39	60.27	48.09	17.08	0.00	17.08
115.0	0.00	18.55	45.50	57.68	58.73	57.12	41.02	14.84	0.00	14.84
117.5	0.00	17.29	41.44	54.25	55.93	53.62	35.00	13.02	0.00	13.02
120.0	0.00	16.17	37.87	50.26	52.78	49.70	30.10	11.62	0.00	11.62
122.5	0.00	15.19	34.79	46.27	48.93	45.64	26.18	10.57	0.00	10.57
125.0	0.00	14.28	31.99	42.63	45.22	40.60	22.96	9.87	0.00	9.87
127.5	0.00	13.44	29.47	39.34	41.72	35.07	20.44	9.59	0.00	9.59
130.0	0.00	12.81	27.30	36.33	38.57	30.45	18.27	9.59	0.00	9.59
132.5	0.00	12.11	25.34	33.53	35.70	26.53	16.38	9.52	0.00	9.52

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135.0	0.00	11.48	23.52	31.15	33.04	23.31	14.91	9.45	0.00	9.45
137.5	0.00	10.92	22.05	28.98	30.66	20.44	14.42	9.31	0.00	9.31
140.0	0.00	10.43	20.37	26.81	28.56	18.13	14.14	9.24	0.00	9.24
142.5	0.00	10.01	18.90	24.78	26.39	16.45	13.72	9.17	0.00	9.17
145.0	0.00	9.73	17.71	22.96	24.57	15.05	13.51	9.10	0.00	9.10
147.5	0.00	9.45	16.45	20.93	22.89	13.30	12.95	8.89	0.00	8.89
150.0	0.00	9.17	14.91	19.25	20.65	12.04	12.25	8.82	0.00	8.82
152.5	0.00	8.89	13.72	17.92	18.90	11.34	11.69	8.82	0.00	8.82
155.0	0.00	8.68	12.67	16.10	17.15	10.29	11.20	8.82	0.00	8.82
157.5	0.00	8.82	11.69	14.35	15.12	9.38	10.64	8.89	0.00	8.89
160.0	0.00	8.96	10.85	13.02	13.16	8.82	10.01	9.17	0.00	9.17
162.5	0.00	9.17	10.15	11.90	10.29	8.68	9.52	9.31	0.00	9.31
165.0	0.00	9.31	9.66	10.85	7.42	8.47	9.38	9.45	0.00	9.45
167.5	0.00	9.66	9.73	10.01	6.86	8.40	9.45	9.80	0.00	9.80
170.0	0.00	10.15	10.08	9.80	6.79	8.47	9.80	10.01	0.00	10.01
172.5	0.00	10.29	10.36	10.01	6.93	8.96	10.01	10.08	0.00	10.08
175.0	0.00	10.29	10.50	10.15	7.07	9.31	10.15	10.01	0.00	10.01
177.5	0.00	10.15	10.22	9.80	7.14	9.38	9.87	9.80	0.00	9.80
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	591.57	591.57	591.57	591.57	591.57	591.57	591.57
2.5	603.96	618.66	624.33	620.83	607.74	598.50	594.65
5.0	652.82	705.67	728.28	711.34	660.10	614.88	594.93
7.5	740.11	864.99	917.14	871.99	750.68	642.18	595.49
10.0	870.80	1100.12	1198.75	1108.24	884.94	679.98	596.75
12.5	1045.80	1397.97	1539.72	1408.61	1064.98	730.17	598.43
15.0	1254.68	1704.71	1848.14	1714.30	1279.60	793.59	601.16
17.5	1477.14	1923.18	2005.71	1927.73	1503.46	869.75	604.66
20.0	1674.40	1977.22	1959.44	1978.90	1696.87	956.55	609.49
22.5	1803.13	1872.29	1770.37	1870.54	1820.42	1050.70	616.00
25.0	1839.81	1677.69	1551.69	1674.26	1849.40	1146.95	624.05
27.5	1784.44	1475.53	1365.07	1473.29	1785.84	1235.01	633.01
30.0	1659.70	1307.46	1223.39	1305.29	1655.71	1306.27	643.44
32.5	1503.46	1174.74	1114.40	1172.99	1496.95	1352.75	655.27
35.0	1344.21	1065.05	1021.23	1064.00	1337.70	1369.13	666.68
37.5	1191.96	966.70	932.12	965.44	1189.58	1354.36	678.02
40.0	1051.47	873.67	846.23	873.53	1053.64	1309.21	688.24
42.5	924.00	787.29	767.90	788.06	928.62	1236.62	694.82
45.0	808.15	708.68	696.78	709.73	814.52	1141.49	695.24
47.5	700.28	636.58	628.88	638.19	712.04	1029.84	686.70
50.0	599.90	568.82	561.68	570.29	620.13	909.09	665.21
52.5	515.41	502.32	495.39	504.21	538.37	786.94	629.86
55.0	448.35	434.21	434.35	441.77	465.57	669.13	581.70
57.5	388.22	372.33	379.47	385.42	401.87	561.82	519.12
60.0	334.81	324.59	330.82	335.44	346.08	467.25	447.23
62.5	289.31	283.85	287.63	291.62	298.13	385.98	375.69
65.0	250.25	247.17	249.69	253.54	257.67	317.66	306.18
67.5	217.56	215.04	216.09	220.36	223.79	261.52	241.15
70.0	189.91	186.97	186.41	191.31	195.30	215.81	186.83
72.5	167.37	162.96	161.07	166.53	171.71	178.15	142.94
75.0	149.17	143.22	140.28	146.23	152.32	147.35	105.84
77.5	133.98	127.89	124.04	130.27	136.85	122.43	75.39
80.0	121.52	116.41	112.28	118.30	124.18	102.13	52.15

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CANDELA TABULATION - (Cont.)

82.5	111.44	107.59	103.67	109.27	113.75	85.40	34.02
85.0	103.11	100.66	96.95	101.99	105.07	71.89	19.53
87.5	95.83	94.71	91.21	95.97	97.72	61.32	9.03
90.0	89.46	89.46	86.10	90.65	91.14	52.92	0.00
92.5	83.86	84.91	81.76	86.03	85.26	46.62	0.00
95.0	78.68	80.85	78.19	81.90	79.94	41.72	0.00
97.5	73.85	77.21	75.11	78.26	75.11	37.66	0.00
100.0	69.30	74.06	72.45	75.04	70.49	34.23	0.00
102.5	65.03	71.19	70.21	72.03	66.08	30.80	0.00
105.0	60.97	68.53	68.25	69.30	62.02	27.02	0.00
107.5	57.12	65.87	66.15	66.57	58.10	24.22	0.00
110.0	53.20	63.21	63.84	63.84	54.25	21.98	0.00
112.5	48.09	60.27	61.39	60.90	49.98	20.16	0.00
115.0	41.02	57.12	58.73	57.68	45.50	18.55	0.00
117.5	35.00	53.62	55.93	54.25	41.44	17.29	0.00
120.0	30.10	49.70	52.78	50.26	37.87	16.17	0.00
122.5	26.18	45.64	48.93	46.27	34.79	15.19	0.00
125.0	22.96	40.60	45.22	42.63	31.99	14.28	0.00
127.5	20.44	35.07	41.72	39.34	29.47	13.44	0.00
130.0	18.27	30.45	38.57	36.33	27.30	12.81	0.00
132.5	16.38	26.53	35.70	33.53	25.34	12.11	0.00
135.0	14.91	23.31	33.04	31.15	23.52	11.48	0.00
137.5	14.42	20.44	30.66	28.98	22.05	10.92	0.00
140.0	14.14	18.13	28.56	26.81	20.37	10.43	0.00
142.5	13.72	16.45	26.39	24.78	18.90	10.01	0.00
145.0	13.51	15.05	24.57	22.96	17.71	9.73	0.00
147.5	12.95	13.30	22.89	20.93	16.45	9.45	0.00
150.0	12.25	12.04	20.65	19.25	14.91	9.17	0.00
152.5	11.69	11.34	18.90	17.92	13.72	8.89	0.00
155.0	11.20	10.29	17.15	16.10	12.67	8.68	0.00
157.5	10.64	9.38	15.12	14.35	11.69	8.82	0.00
160.0	10.01	8.82	13.16	13.02	10.85	8.96	0.00
162.5	9.52	8.68	10.29	11.90	10.15	9.17	0.00
165.0	9.38	8.47	7.42	10.85	9.66	9.31	0.00
167.5	9.45	8.40	6.86	10.01	9.73	9.66	0.00
170.0	9.80	8.47	6.79	9.80	10.08	10.15	0.00
172.5	10.01	8.96	6.93	10.01	10.36	10.29	0.00
175.0	10.15	9.31	7.07	10.15	10.50	10.29	0.00
177.5	9.87	9.38	7.14	9.80	10.22	10.15	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	425.51	N.A.	11.70
0-30	1079.19	N.A.	29.70
0-40	1798.44	N.A.	49.50
0-60	2905.19	N.A.	80.00
0-80	3329.55	N.A.	91.70
0-90	3421.79	N.A.	94.30
10-90	3351.54	N.A.	92.30
20-40	1372.93	N.A.	37.80
20-50	2017.27	N.A.	55.60
40-70	1379.98	N.A.	38.00
60-80	424.36	N.A.	11.70
70-80	151.13	N.A.	4.20
80-90	92.24	N.A.	2.50
90-110	116.80	N.A.	3.20
90-120	153.36	N.A.	4.20
90-130	176.85	N.A.	4.90
90-150	200.13	N.A.	5.50
90-180	208.25	N.A.	5.70
110-180	91.45	N.A.	2.50
0-180	3630.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	70.25
10-20	355.26
20-30	653.68
30-40	719.25
40-50	644.35
50-60	462.40
60-70	273.23
70-80	151.13
80-90	92.24
90-100	66.09
100-110	50.71
110-120	36.56
120-130	23.49
130-140	14.42
140-150	8.87
150-160	4.97
160-170	2.38
170-180	0.77

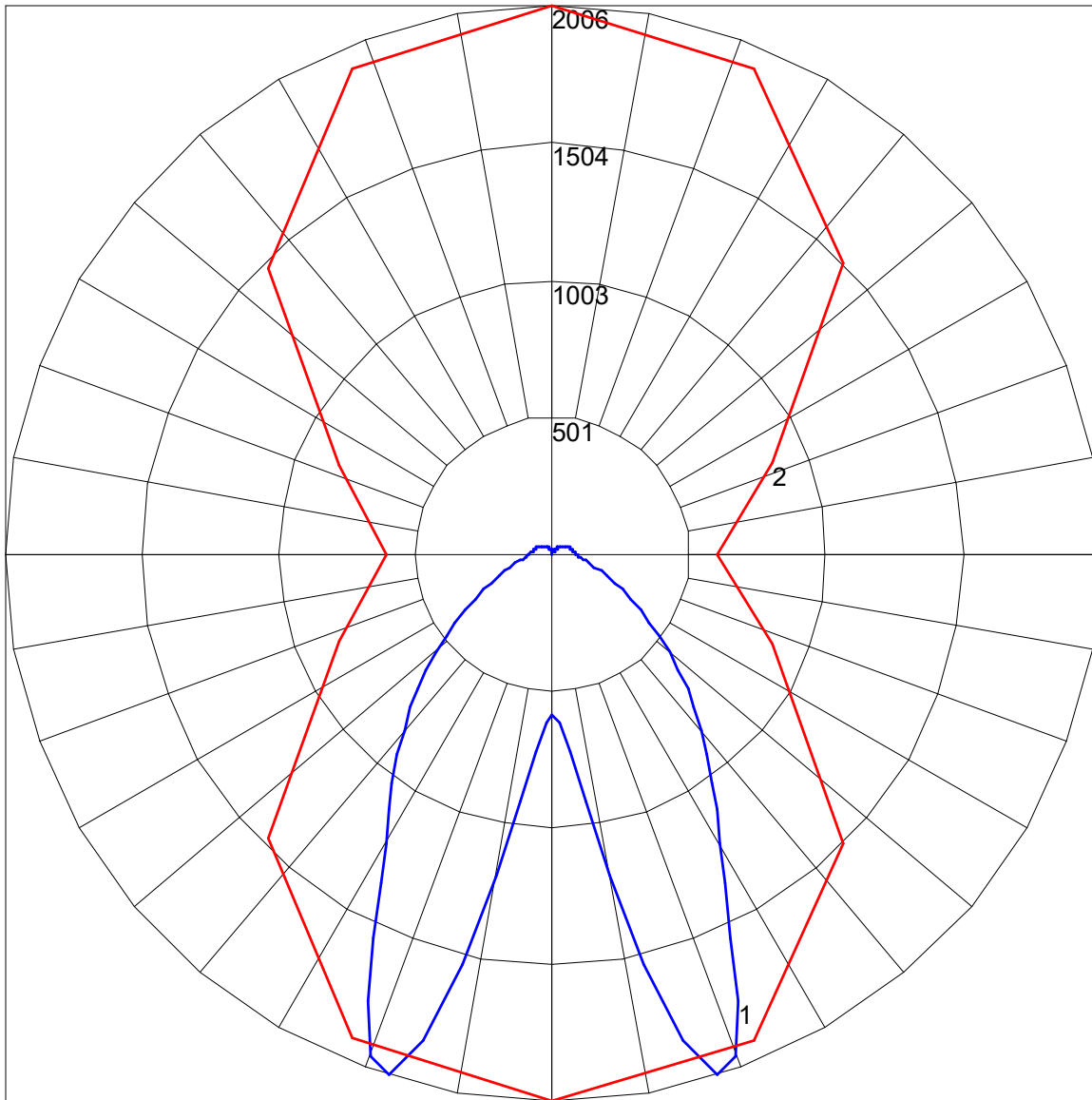
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	108	104	100	96	105	101	97	94	95	92	90	91	88	86	86	84	83	80
2	99	91	85	80	96	89	83	78	85	80	76	80	77	73	77	73	71	68
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	64	61	59
4	84	72	64	58	81	71	63	57	67	61	56	64	59	54	62	57	53	51
5	77	65	56	50	75	63	55	50	61	54	48	58	52	47	56	51	46	44
6	71	59	50	44	69	57	49	43	55	48	43	53	47	42	51	45	41	39
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37	35
8	61	48	40	35	60	48	40	34	46	39	34	44	38	33	43	37	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	30	28
10	54	41	33	28	52	40	33	28	39	32	28	37	31	27	36	31	27	25

POLAR GRAPH



Maximum Candela = 2005.71 Located At Horizontal Angle = 90, Vertical Angle = 17.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (17.5) (Through Max. Cd.)