



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO2-LIN-LED35-LO-MWG-D1G.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] Bio2-LIN-LED35-MO-MWG-D1G
 [TESTLAB] Intertek Lake Forest
 [ISSUE DATE] April 7, 2016
 [MANUFAC] Prudential Ltg

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1391
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	0.70
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.23 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2946	3150	11995
55	2665	2600	9036
65	2228	2222	6057
75	1677	1794	3693
85	1137	1073	1755

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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	1278.110	1278.110	1278.110	1278.110	1278.110	1278.110	1278.110	1278.110	1278.110	1278.110
2.5	1222.805	1227.235	1241.815	1268.520	1274.900	1268.520	1241.815	1227.235	1222.805	1233.420
5.0	1075.875	1094.815	1150.545	1235.290	1271.745	1235.290	1150.545	1094.815	1075.875	1103.590
7.5	914.265	942.045	1033.905	1183.470	1266.520	1183.470	1033.905	942.045	914.265	951.460
10.0	775.690	805.210	914.980	1118.125	1259.195	1118.125	914.980	805.210	775.690	813.165
12.5	665.795	694.720	807.830	1042.445	1249.425	1042.445	807.830	694.720	665.795	702.360
15.0	576.680	604.725	713.150	963.820	1236.455	963.820	713.150	604.725	576.680	612.245
17.5	502.160	529.250	634.045	887.670	1221.180	887.670	634.045	529.250	502.160	535.525
20.0	439.100	466.585	565.285	812.435	1201.390	812.435	565.285	466.585	439.100	469.975
22.5	386.040	411.525	504.325	743.265	1177.620	743.265	504.325	411.525	386.040	414.430
25.0	340.530	362.250	449.690	680.320	1152.355	680.320	449.690	362.250	340.530	365.230
27.5	303.775	321.405	401.640	622.185	1117.915	622.185	401.640	321.405	303.775	324.095
30.0	273.705	288.070	358.260	568.140	1080.165	568.140	358.260	288.070	273.705	289.900
32.5	249.935	260.530	320.130	518.120	1036.450	518.120	320.130	260.530	249.935	262.400
35.0	230.370	237.490	286.045	469.815	982.590	469.815	286.045	237.490	230.370	239.540
37.5	214.645	218.425	256.730	425.670	925.960	425.670	256.730	218.425	214.645	219.860
40.0	200.785	203.120	231.470	383.975	860.885	383.975	231.470	203.120	200.785	203.745
42.5	188.525	188.810	209.240	343.535	795.400	343.535	209.240	188.810	188.525	189.715
45.0	177.565	176.340	189.890	307.615	723.020	307.615	189.890	176.340	177.565	177.145
47.5	165.810	163.865	171.315	273.575	651.315	273.575	171.315	163.865	165.810	165.745
50.0	154.180	152.170	154.930	242.700	577.860	242.700	154.930	152.170	154.180	153.635
52.5	141.735	140.290	140.325	213.720	508.055	213.720	140.325	140.290	141.735	142.150
55.0	130.305	129.250	127.125	187.600	441.800	187.600	127.125	129.250	130.305	130.130
57.5	117.440	117.190	114.590	163.790	378.625	163.790	114.590	117.190	117.440	118.795
60.0	104.710	105.905	102.255	141.615	319.960	141.615	102.255	105.905	104.710	107.115
62.5	92.505	94.745	91.015	122.020	266.680	122.020	91.015	94.745	92.505	95.930
65.0	80.270	83.400	80.060	103.470	218.210	103.470	80.060	83.400	80.270	84.240
67.5	67.870	72.790	69.040	86.915	175.765	86.915	69.040	72.790	67.870	73.990
70.0	56.340	61.560	58.935	72.085	138.605	72.085	58.935	61.560	56.340	62.265
72.5	46.625	51.265	48.930	58.600	107.880	58.600	48.930	51.265	46.625	51.720
75.0	36.990	40.510	39.585	45.820	81.485	45.820	39.585	40.510	36.990	41.980
77.5	28.420	31.645	31.030	34.425	58.905	34.425	31.030	31.645	28.420	32.680
80.0	20.740	23.270	22.180	24.280	39.335	24.280	22.180	23.270	20.740	24.150
82.5	13.940	15.560	14.635	15.330	24.855	15.330	14.635	15.560	13.940	16.105
85.0	8.450	8.565	7.975	8.100	13.035	8.100	7.975	8.565	8.450	9.865
87.5	3.810	4.085	3.350	2.780	4.375	2.780	3.350	4.085	3.810	4.715
90.0	1.585	1.080	0.745	0.680	0.620	0.680	0.745	1.080	1.585	1.730
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles	Horizontal Angles						
	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	1278.110	1278.110	1278.110	1278.110	1278.110	1278.110	1278.110
2.5	1250.570	1274.445	1273.890	1274.445	1250.570	1233.420	1222.805
5.0	1169.380	1249.625	1270.060	1249.625	1169.380	1103.590	1075.875
7.5	1055.875	1204.135	1263.845	1204.135	1055.875	951.460	914.265
10.0	935.190	1143.510	1255.500	1143.510	935.190	813.165	775.690
12.5	824.165	1071.950	1243.650	1071.950	824.165	702.360	665.795
15.0	728.535	994.915	1229.935	994.915	728.535	612.245	576.680
17.5	647.960	915.920	1212.030	915.920	647.960	535.525	502.160
20.0	577.435	839.850	1191.135	839.850	577.435	469.975	439.100
22.5	514.675	768.630	1167.300	768.630	514.675	414.430	386.040
25.0	459.335	703.895	1138.170	703.895	459.335	365.230	340.530
27.5	409.900	644.535	1104.300	644.535	409.900	324.095	303.775
30.0	365.475	589.090	1064.830	589.090	365.475	289.900	273.705
32.5	325.990	536.875	1018.030	536.875	325.990	262.400	249.935
35.0	291.480	487.400	965.150	487.400	291.480	239.540	230.370
37.5	261.615	440.755	907.380	440.755	261.615	219.860	214.645
40.0	235.830	398.060	844.995	398.060	235.830	203.745	200.785
42.5	213.095	357.895	777.805	357.895	213.095	189.715	188.525
45.0	192.410	319.880	707.720	319.880	192.410	177.145	177.565
47.5	174.435	284.985	636.495	284.985	174.435	165.745	165.810
50.0	157.820	253.160	564.955	253.160	157.820	153.635	154.180
52.5	143.495	223.160	496.075	223.160	143.495	142.150	141.735
55.0	129.125	196.000	429.545	196.000	129.125	130.130	130.305
57.5	116.555	170.575	367.215	170.575	116.555	118.795	117.440
60.0	104.335	148.430	309.220	148.430	104.335	107.115	104.710
62.5	93.045	127.735	256.175	127.735	93.045	95.930	92.505
65.0	82.120	108.825	209.615	108.825	82.120	84.240	80.270
67.5	71.520	91.335	168.505	91.335	71.520	73.990	67.870
70.0	60.905	76.715	132.190	76.715	60.905	62.265	56.340
72.5	51.350	62.640	102.275	62.640	51.350	51.720	46.625
75.0	41.535	49.415	77.630	49.415	41.535	41.980	36.990
77.5	32.135	37.795	55.850	37.795	32.135	32.680	28.420
80.0	23.995	26.805	38.610	26.805	23.995	24.150	20.740

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CANDELA TABULATION - (Cont.)

82.5	15.785	18.275	22.805	18.275	15.785	16.105	13.940
85.0	9.435	9.760	11.930	9.760	9.435	9.865	8.450
87.5	3.520	4.095	3.585	4.095	3.520	4.715	3.810
90.0	0.925	0.890	0.320	0.890	0.925	1.730	1.585
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	330.42	N.A.	23.70
0-30	590.26	N.A.	42.40
0-40	842.40	N.A.	60.50
0-60	1224.66	N.A.	88.00
0-80	1379.42	N.A.	99.10
0-90	1391.14	N.A.	100.00
10-90	1286.00	N.A.	92.40
20-40	511.98	N.A.	36.80
20-50	729.91	N.A.	52.50
40-70	486.58	N.A.	35.00
60-80	154.76	N.A.	11.10
70-80	50.44	N.A.	3.60
80-90	11.72	N.A.	0.80
90-110	0.14	N.A.	0.00
90-120	0.14	N.A.	0.00
90-130	0.14	N.A.	0.00
90-150	0.14	N.A.	0.00
90-180	0.14	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1391.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.14
10-20	225.28
20-30	259.84
30-40	252.14
40-50	217.93
50-60	164.33
60-70	104.32
70-80	50.44
80-90	11.72
90-100	0.14
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

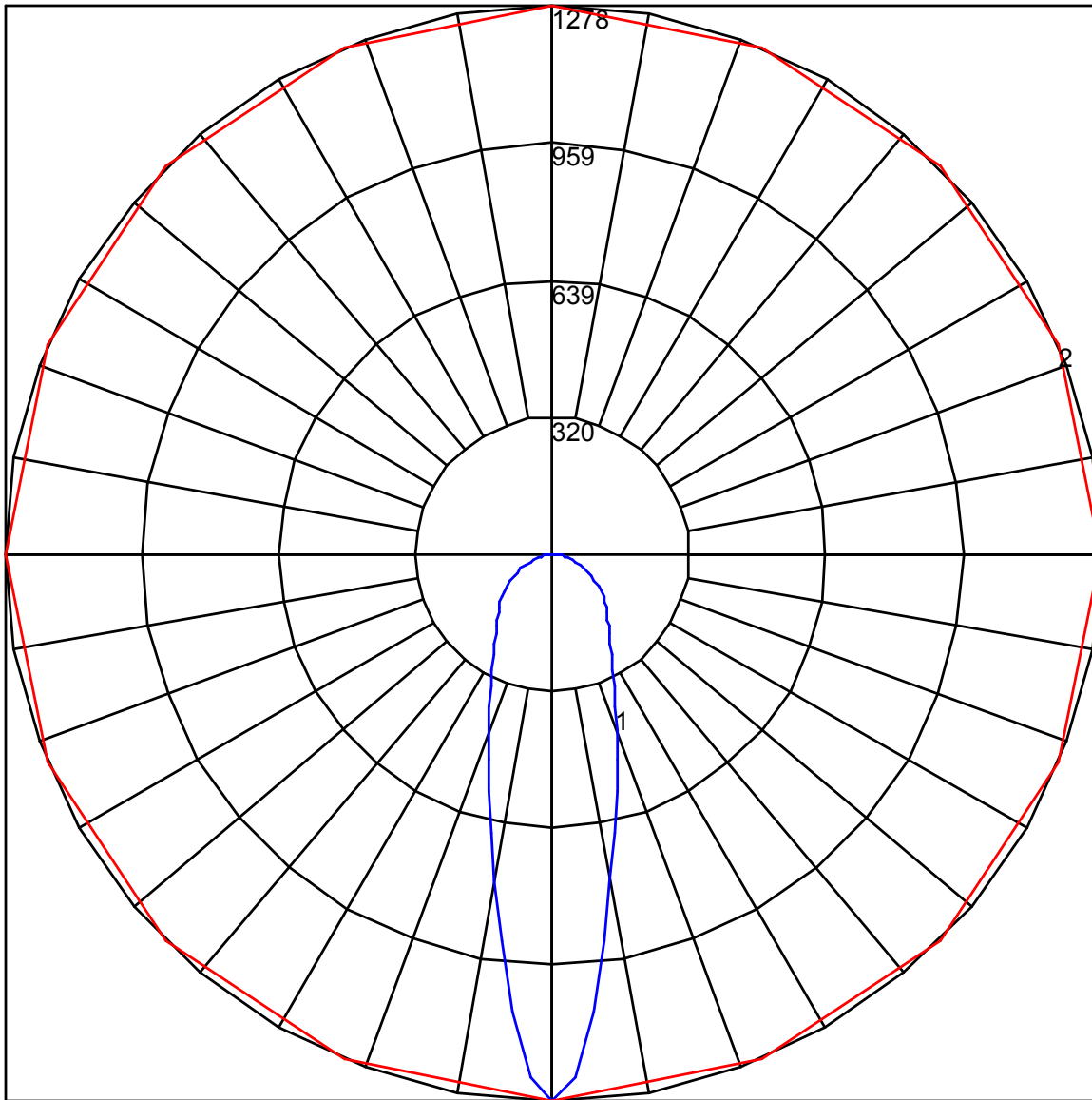
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	101	99	100	98	95	97	94	93	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44
8	68	56	48	43	66	55	48	43	54	47	43	53	47	42	51	46	42	40
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	37	59	48	41	36	47	41	36	46	40	36	45	40	36	34

POLAR GRAPH



Maximum Candela = 1278.11 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.)