



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] BIO2-LIN-LED35-HO-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	3256
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	48
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	6893	7372	28069
55	6236	6084	21145
65	5214	5200	14174
75	3923	4199	8643
85	2662	2512	4106

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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	2990.777	2990.777	2990.777	2990.777	2990.777	2990.777	2990.777	2990.777	2990.777	2990.777
2.5	2861.364	2871.730	2905.847	2968.337	2983.266	2968.337	2905.847	2871.730	2861.364	2886.203
5.0	2517.547	2561.867	2692.275	2890.578	2975.883	2890.578	2692.275	2561.867	2517.547	2582.401
7.5	2139.380	2204.385	2419.338	2769.320	2963.657	2769.320	2419.338	2204.385	2139.380	2226.416
10.0	1815.115	1884.191	2141.053	2616.412	2946.516	2616.412	2141.053	1884.191	1815.115	1902.806
12.5	1557.960	1625.645	1890.322	2439.321	2923.654	2439.321	1890.322	1625.645	1557.960	1643.522
15.0	1349.431	1415.056	1668.771	2255.339	2893.305	2255.339	1668.771	1415.056	1349.431	1432.653
17.5	1175.054	1238.445	1483.665	2077.148	2857.561	2077.148	1483.665	1238.445	1175.054	1253.128
20.0	1027.494	1091.809	1322.767	1901.098	2811.252	1901.098	1322.767	1091.809	1027.494	1099.741
22.5	903.334	962.968	1180.120	1739.240	2755.631	1739.240	1180.120	962.968	903.334	969.766
25.0	796.840	847.665	1052.275	1591.949	2696.511	1591.949	1052.275	847.665	796.840	854.638
27.5	710.833	752.088	939.838	1455.913	2615.921	1455.913	939.838	752.088	710.833	758.382
30.0	640.470	674.084	838.328	1329.448	2527.586	1329.448	838.328	674.084	640.470	678.366
32.5	584.848	609.640	749.104	1212.401	2425.293	1212.401	749.104	609.640	584.848	614.016
35.0	539.066	555.727	669.345	1099.367	2299.261	1099.367	669.345	555.727	539.066	560.524
37.5	502.269	511.114	600.748	996.068	2166.746	996.068	600.748	511.114	502.269	514.472
40.0	469.837	475.301	541.640	898.501	2014.471	898.501	541.640	475.301	469.837	476.763
42.5	441.148	441.815	489.622	803.872	1861.236	803.872	489.622	441.815	441.148	443.933
45.0	415.502	412.636	444.343	719.819	1691.867	719.819	444.343	412.636	415.502	414.519
47.5	387.995	383.444	400.877	640.165	1524.077	640.165	400.877	383.444	387.995	387.843
50.0	360.781	356.078	362.536	567.918	1352.192	567.918	362.536	356.078	360.781	359.506
52.5	331.660	328.279	328.360	500.105	1188.849	500.105	328.360	328.279	331.660	332.631
55.0	304.914	302.445	297.472	438.984	1033.812	438.984	297.472	302.445	304.914	304.504
57.5	274.810	274.225	268.141	383.269	885.982	383.269	268.141	274.225	274.810	277.980
60.0	245.021	247.818	239.277	331.379	748.706	331.379	239.277	247.818	245.021	250.649
62.5	216.462	221.703	212.975	285.527	624.031	285.527	212.975	221.703	216.462	224.476
65.0	187.832	195.156	187.340	242.120	510.611	242.120	187.340	195.156	187.832	197.122
67.5	158.816	170.329	161.554	203.381	411.290	203.381	161.554	170.329	158.816	173.137
70.0	131.836	144.050	137.908	168.679	324.336	168.679	137.908	144.050	131.836	145.700
72.5	109.102	119.960	114.496	137.124	252.439	137.124	114.496	119.960	109.102	121.025
75.0	86.557	94.793	92.629	107.219	190.675	107.219	92.629	94.793	86.557	98.233
77.5	66.503	74.049	72.610	80.554	137.838	80.554	72.610	74.049	66.503	76.471
80.0	48.532	54.452	51.901	56.815	92.044	56.815	51.901	54.452	48.532	56.511
82.5	32.620	36.410	34.246	35.872	58.161	35.872	34.246	36.410	32.620	37.686
85.0	19.773	20.042	18.661	18.954	30.502	18.954	18.661	20.042	19.773	23.084
87.5	8.915	9.559	7.839	6.505	10.237	6.505	7.839	9.559	8.915	11.033
90.0	3.709	2.527	1.743	1.591	1.451	1.591	1.743	2.527	3.709	4.048
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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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	2990.777	2990.777	2990.777	2990.777	2990.777	2990.777	2990.777
2.5	2926.334	2982.201	2980.902	2982.201	2926.334	2886.203	2861.364
5.0	2736.349	2924.122	2971.940	2924.122	2736.349	2582.401	2517.547
7.5	2470.747	2817.676	2957.397	2817.676	2470.747	2226.416	2139.380
10.0	2188.345	2675.813	2937.870	2675.813	2188.345	1902.806	1815.115
12.5	1928.546	2508.363	2910.141	2508.363	1928.546	1643.522	1557.960
15.0	1704.772	2328.101	2878.048	2328.101	1704.772	1432.653	1349.431
17.5	1516.226	2143.253	2836.150	2143.253	1516.226	1253.128	1175.054
20.0	1351.198	1965.249	2787.256	1965.249	1351.198	1099.741	1027.494
22.5	1204.339	1798.594	2731.482	1798.594	1204.339	969.766	903.334
25.0	1074.844	1647.114	2663.318	1647.114	1074.844	854.638	796.840
27.5	959.166	1508.212	2584.062	1508.212	959.166	758.382	710.833
30.0	855.211	1378.471	2491.702	1378.471	855.211	678.366	640.470
32.5	762.817	1256.287	2382.190	1256.287	762.817	614.016	584.848
35.0	682.063	1140.516	2258.451	1140.516	682.063	560.524	539.066
37.5	612.179	1031.367	2123.269	1031.367	612.179	514.472	502.269
40.0	551.842	931.460	1977.288	931.460	551.842	476.763	469.837
42.5	498.642	837.474	1820.064	837.474	498.642	443.933	441.148
45.0	450.239	748.519	1656.065	748.519	450.239	414.519	415.502
47.5	408.178	666.865	1489.398	666.865	408.178	387.843	387.995
50.0	369.299	592.394	1321.995	592.394	369.299	359.506	360.781
52.5	335.778	522.194	1160.815	522.194	335.778	332.631	331.660
55.0	302.152	458.640	1005.135	458.640	302.152	304.504	304.914
57.5	272.739	399.145	859.283	399.145	272.739	277.980	274.810
60.0	244.144	347.326	723.575	347.326	244.144	250.649	245.021
62.5	217.725	298.900	599.449	298.900	217.725	224.476	216.462
65.0	192.161	254.650	490.499	254.650	192.161	197.122	187.832
67.5	167.357	213.724	394.302	213.724	167.357	173.137	158.816
70.0	142.518	179.513	309.325	179.513	142.518	145.700	131.836
72.5	120.159	146.578	239.323	146.578	120.159	121.025	109.102
75.0	97.192	115.631	181.654	115.631	97.192	98.233	86.557
77.5	75.196	88.440	130.689	88.440	75.196	76.471	66.503
80.0	56.148	62.724	90.347	62.724	56.148	56.511	48.532

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CANDELA TABULATION - (Cont.)

82.5	36.937	42.763	53.364	42.763	36.937	37.686	32.620
85.0	22.078	22.838	27.916	22.838	22.078	23.084	19.773
87.5	8.237	9.582	8.389	9.582	8.237	11.033	8.915
90.0	2.164	2.083	0.749	2.083	2.164	4.048	3.709
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	773.17	N.A.	23.70
0-30	1381.21	N.A.	42.40
0-40	1971.21	N.A.	60.50
0-60	2865.69	N.A.	88.00
0-80	3227.84	N.A.	99.10
0-90	3255.26	N.A.	100.00
10-90	3009.23	N.A.	92.40
20-40	1198.04	N.A.	36.80
20-50	1707.99	N.A.	52.50
40-70	1138.59	N.A.	35.00
60-80	362.14	N.A.	11.10
70-80	118.04	N.A.	3.60
80-90	27.42	N.A.	0.80
90-110	0.32	N.A.	0.00
90-120	0.32	N.A.	0.00
90-130	0.32	N.A.	0.00
90-150	0.32	N.A.	0.00
90-180	0.32	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3255.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	246.03
10-20	527.15
20-30	608.03
30-40	590.01
40-50	509.95
50-60	384.53
60-70	244.10
70-80	118.04
80-90	27.42
90-100	0.32
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

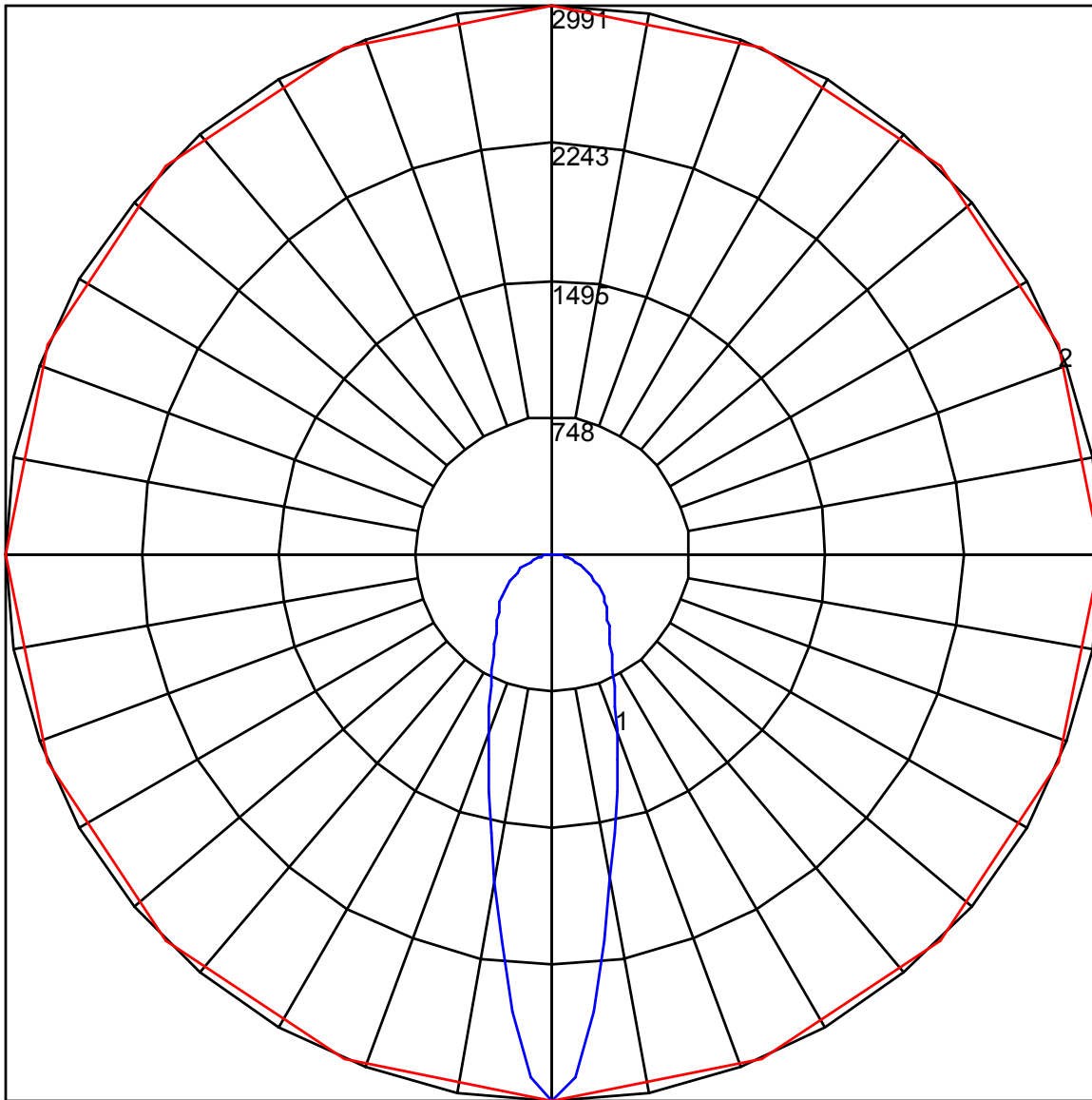
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	100	98	95	97	94	93	93	91	90	88
2	102	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	65	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 = 2990.777 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.)