



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO2-LIN-LED35-SO-MWW-D1W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] BIO2-LIN-LED35-SO-MWW-D1W

[TESTLAB] Intertek

[ISSUE DATE]

[MANUFAC] Prudential Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3195
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	33.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.14
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.20 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	15572	17969	13782
55	13545	14617	10933
65	8276	12120	7959
75	4661	10118	4894
85	2047	6298	1284

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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	1552.899	1552.899	1552.899	1552.899	1552.899	1552.899	1552.899	1552.899	1552.899	1552.899
2.5	1754.266	1738.398	1675.625	1618.210	1569.405	1493.867	1424.871	1387.515	1370.257	1381.443
5.0	1990.958	1955.764	1833.338	1691.643	1555.982	1417.238	1299.851	1230.178	1210.062	1231.814
7.5	2177.698	2138.895	1990.694	1760.996	1542.878	1342.959	1189.608	1112.622	1089.404	1106.624
10.0	2325.353	2275.533	2115.658	1830.518	1519.679	1267.759	1095.720	1013.170	984.067	1009.880
12.5	2385.946	2388.220	2205.654	1890.472	1490.408	1191.281	1015.632	920.110	885.367	915.710
15.0	2226.841	2313.359	2292.434	1943.149	1455.872	1125.030	932.442	838.010	798.831	831.505
17.5	2029.667	2123.498	2315.521	1980.580	1415.471	1057.820	858.746	756.023	719.081	750.120
20.0	1846.931	1947.060	2216.407	2009.024	1371.291	1000.010	789.374	680.165	644.840	673.867
22.5	1693.391	1779.928	2064.390	2015.040	1321.903	933.965	720.848	616.057	583.740	611.489
25.0	1563.784	1634.491	1928.654	2029.629	1266.218	875.196	656.346	558.003	533.939	555.615
27.5	1450.157	1511.802	1780.304	2034.348	1206.227	815.394	598.855	515.440	499.102	512.187
30.0	1311.883	1401.559	1640.225	2016.977	1149.376	756.343	544.110	481.261	479.231	477.783
32.5	1201.771	1267.214	1508.117	1984.923	1078.142	700.845	499.159	456.614	469.154	455.298
35.0	1123.056	1159.490	1388.098	1925.402	1006.872	646.400	461.126	441.725	457.404	438.472
37.5	1042.272	1080.060	1293.177	1839.787	937.030	594.907	424.899	429.561	441.593	425.594
40.0	947.012	996.475	1177.952	1724.016	861.830	543.640	394.255	412.378	420.255	409.671
42.5	880.780	898.659	1049.472	1607.682	794.920	494.985	366.957	387.938	408.825	386.885
45.0	819.116	832.088	945.208	1497.890	724.984	449.621	341.258	370.454	409.163	367.258
47.5	761.513	770.725	858.634	1373.359	655.199	408.656	317.946	363.479	412.735	358.572
50.0	693.175	705.902	773.996	1251.366	589.850	369.006	297.021	364.043	408.674	361.562
52.5	639.971	646.645	693.758	1127.680	524.539	330.053	274.649	357.971	383.031	356.899
55.0	577.950	585.658	623.690	1011.760	466.522	298.206	254.684	340.957	337.441	339.246
57.5	506.491	537.379	552.513	896.892	405.234	266.152	239.098	318.735	282.658	319.600
60.0	424.579	480.509	496.019	777.568	352.105	235.884	219.603	285.628	231.259	285.459
62.5	333.324	413.675	438.754	666.836	301.157	206.086	196.535	247.765	191.177	246.167
65.0	260.192	343.626	381.057	566.275	250.228	179.145	175.630	209.864	156.303	203.566
67.5	200.577	271.773	329.357	472.613	207.402	151.133	155.062	170.272	128.573	167.489
70.0	154.874	210.522	282.884	388.013	162.752	124.757	134.796	139.778	105.487	136.037
72.5	120.527	157.488	238.967	310.538	127.013	102.629	113.947	111.296	84.544	111.089
75.0	89.751	118.966	194.806	238.986	94.226	80.878	91.349	87.251	66.420	84.337
77.5	67.830	84.036	152.750	176.852	66.026	57.547	70.989	64.804	51.343	62.228
80.0	46.962	58.186	110.864	120.245	45.534	40.288	52.020	46.286	33.389	43.428
82.5	28.388	34.818	75.275	74.692	22.842	23.763	31.076	27.091	21.902	27.373
85.0	13.273	17.766	40.834	34.592	8.328	9.494	16.036	12.333	11.487	13.442
87.5	3.121	6.392	16.074	9.043	0.000	0.000	4.380	2.764	2.707	4.249
90.0	0.000	0.000	0.508	0.000	0.000	0.000	0.113	0.000	0.000	0.000
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	0.019	0.000	0.000	0.000	0.451	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	0.301	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**

	<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	1552.899	1552.899	1552.899	1552.899	1552.899	1552.899	1552.899
2.5	1402.781	1470.780	1562.863	1640.826	1699.219	1739.846	1754.266
5.0	1278.287	1395.505	1555.174	1709.634	1853.078	1957.418	1990.958
7.5	1173.703	1317.203	1539.927	1778.066	2005.565	2134.496	2177.698
10.0	1080.718	1245.688	1518.645	1841.291	2121.900	2268.314	2325.353
12.5	1000.931	1169.285	1483.809	1894.476	2204.695	2374.214	2385.946
15.0	923.644	1104.143	1452.676	1931.625	2291.551	2287.546	2226.841
17.5	845.831	1038.249	1411.166	1962.645	2283.843	2102.385	2029.667
20.0	775.970	977.675	1369.618	1976.312	2176.871	1932.283	1846.931
22.5	708.215	922.084	1312.936	1995.940	2032.242	1768.817	1693.391
25.0	645.235	851.471	1257.701	1993.308	1887.182	1625.692	1563.784
27.5	592.256	794.225	1197.165	1985.261	1754.040	1503.793	1450.157
30.0	538.000	736.584	1126.966	1954.410	1606.009	1385.128	1311.883
32.5	490.774	684.376	1056.842	1904.120	1474.164	1255.464	1201.771
35.0	455.242	628.146	988.842	1839.636	1358.150	1143.623	1123.056
37.5	417.285	575.618	921.426	1749.942	1257.344	1065.189	1042.272
40.0	387.130	524.576	851.001	1651.148	1145.446	981.228	947.012
42.5	359.982	475.809	786.724	1540.096	1022.513	889.766	880.780
45.0	334.057	433.735	715.547	1437.561	922.234	818.533	819.116
47.5	312.155	393.033	641.268	1315.342	832.314	756.944	761.513
50.0	292.509	352.857	574.509	1205.212	745.702	696.935	693.175
52.5	270.776	316.818	516.868	1077.146	669.148	634.838	639.971
55.0	248.818	286.268	451.764	967.542	599.588	576.333	577.950
57.5	231.578	252.634	398.485	847.617	535.330	523.900	506.491
60.0	213.963	224.416	344.172	735.174	475.565	467.518	424.579
62.5	194.298	194.655	292.490	633.015	420.462	405.196	333.324
65.0	171.381	171.343	246.449	535.386	365.810	333.850	260.192
67.5	149.328	145.004	201.743	443.172	316.122	265.738	200.577
70.0	130.622	120.959	163.015	360.922	269.141	209.921	154.874
72.5	108.702	98.061	125.039	287.941	225.901	157.939	120.527
75.0	91.970	73.564	94.132	221.332	183.037	116.184	89.751
77.5	70.838	57.227	67.830	161.135	140.154	84.525	67.830
80.0	51.794	39.254	44.500	108.532	101.595	57.904	46.962

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CANDELA TABULATION - (Cont.)

82.5	31.847	22.673	25.549	65.386	64.446	35.100	28.388
85.0	16.018	9.287	8.460	28.971	34.442	17.240	13.273
87.5	3.027	0.000	0.169	4.606	11.994	3.835	3.121
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	580.94	N.A.	18.20
0-30	1153.28	N.A.	36.10
0-40	1758.33	N.A.	55.00
0-60	2755.68	N.A.	86.30
0-80	3169.43	N.A.	99.20
0-90	3194.53	N.A.	100.00
10-90	3043.65	N.A.	95.30
20-40	1177.39	N.A.	36.90
20-50	1729.85	N.A.	54.20
40-70	1281.15	N.A.	40.10
60-80	413.75	N.A.	13.00
70-80	129.96	N.A.	4.10
80-90	25.10	N.A.	0.80
90-110	0.01	N.A.	0.00
90-120	0.01	N.A.	0.00
90-130	0.01	N.A.	0.00
90-150	0.01	N.A.	0.00
90-180	0.01	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3194.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	150.88
10-20	430.06
20-30	572.34
30-40	605.05
40-50	552.46
50-60	444.89
60-70	283.80
70-80	129.96
80-90	25.10
90-100	0.01
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

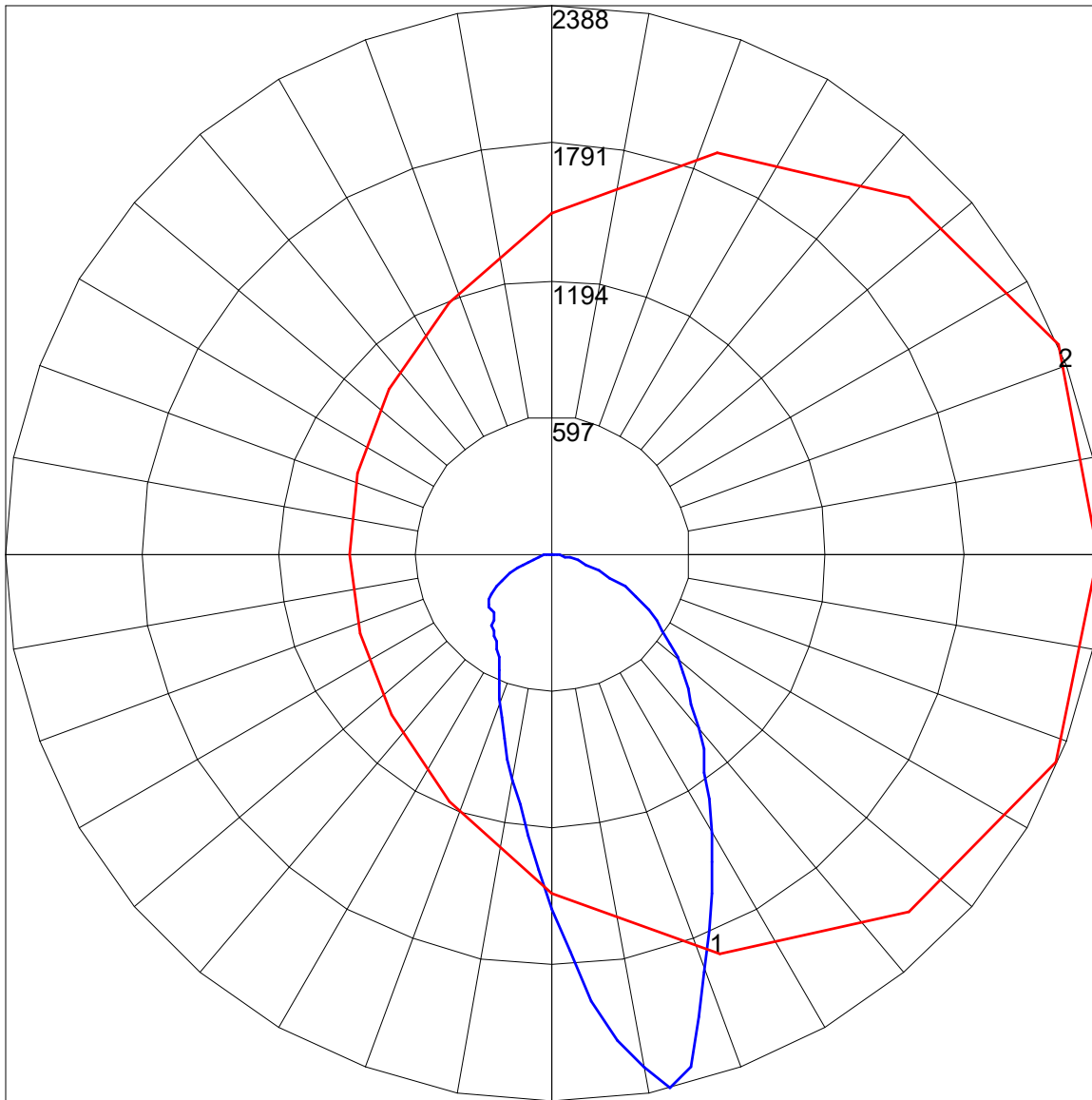
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	106	102	99	108	104	100	97	100	97	94	96	94	92	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

POLAR GRAPH



Maximum Candela = 2388.22 Located At Horizontal Angle = 22.5, Vertical Angle = 12.5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (12.5) (Through Max. Cd.)