



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] Bio2-LIN-LED35-HO-MWW-D1W  
 [TESTLAB] Intertek  
 [ISSUE DATE] September 6, 2016  
 [MANUFAC] Prudential Lighting  
 [\_AGI32] File was generated from AGI32

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3908
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	42
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)	0.21 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	18318	21137	16213
55	15933	17194	12861
65	9735	14258	9363
75	5483	11902	5757
85	2408	7409	1511

**IES INDOOR REPORT**  
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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>
<b>0.0</b>	1899.823	1899.823	1899.823	1899.823	1899.823	1899.823	1899.823	1899.823	1899.823	1899.823
<b>2.5</b>	2146.176	2126.764	2049.967	1979.725	1920.017	1827.603	1743.193	1697.492	1676.378	1690.063
<b>5.0</b>	2435.746	2392.690	2242.914	2069.563	1903.595	1733.855	1590.243	1505.005	1480.395	1507.006
<b>7.5</b>	2664.205	2616.733	2435.424	2154.410	1887.564	1642.982	1455.371	1361.186	1332.781	1353.849
<b>10.0</b>	2844.847	2783.897	2588.305	2239.464	1859.182	1550.982	1340.509	1239.516	1203.912	1235.491
<b>12.5</b>	2918.976	2921.759	2698.406	2312.811	1823.371	1457.418	1242.529	1125.666	1083.162	1120.284
<b>15.0</b>	2724.327	2830.173	2804.574	2377.257	1781.120	1376.366	1140.754	1025.225	977.293	1017.267
<b>17.5</b>	2483.103	2597.896	2832.818	2423.050	1731.693	1294.141	1050.594	924.922	879.727	917.700
<b>20.0</b>	2259.543	2382.041	2711.562	2457.849	1677.643	1223.416	965.724	832.117	788.900	824.412
<b>22.5</b>	2071.702	2177.571	2525.584	2465.209	1617.222	1142.617	881.889	753.687	714.150	748.098
<b>25.0</b>	1913.140	1999.643	2359.524	2483.057	1549.096	1070.719	802.976	682.663	653.223	679.742
<b>27.5</b>	1774.128	1849.545	2178.031	2488.830	1475.703	997.556	732.642	630.591	610.604	626.612
<b>30.0</b>	1604.963	1714.673	2006.658	2467.578	1406.151	925.313	665.666	588.777	586.293	584.522
<b>32.5</b>	1470.252	1550.315	1845.037	2428.363	1319.004	857.417	610.673	558.624	573.965	557.014
<b>35.0</b>	1373.951	1418.525	1698.205	2355.545	1231.811	790.809	564.144	540.408	559.590	536.429
<b>37.5</b>	1275.120	1321.350	1582.078	2250.803	1146.366	727.812	519.823	525.527	540.247	520.674
<b>40.0</b>	1158.579	1219.092	1441.111	2109.169	1054.366	665.091	482.333	504.505	514.142	501.193
<b>42.5</b>	1077.550	1099.423	1283.929	1966.845	972.509	605.567	448.937	474.605	500.158	473.317
<b>45.0</b>	1002.110	1017.980	1156.371	1832.525	886.949	550.068	417.496	453.215	500.572	449.305
<b>47.5</b>	931.638	942.908	1050.456	1680.173	801.573	499.951	388.976	444.682	504.942	438.679
<b>50.0</b>	848.033	863.604	946.910	1530.926	721.625	451.444	363.377	445.372	499.974	442.336
<b>52.5</b>	782.943	791.108	848.746	1379.609	641.723	403.788	336.007	437.943	468.602	436.632
<b>55.0</b>	707.066	716.496	763.025	1237.791	570.745	364.826	311.581	417.128	412.827	415.035
<b>57.5</b>	619.643	657.432	675.947	1097.261	495.765	325.611	292.514	389.942	345.805	391.000
<b>60.0</b>	519.432	587.857	606.832	951.280	430.767	288.581	268.663	349.439	282.923	349.232
<b>62.5</b>	407.790	506.092	536.774	815.810	368.437	252.126	240.442	303.117	233.887	301.162
<b>65.0</b>	318.320	420.394	466.187	692.783	306.130	219.167	214.866	256.749	191.222	249.044
<b>67.5</b>	245.387	332.488	402.937	578.197	253.736	184.897	189.704	208.311	157.297	204.907
<b>70.0</b>	189.474	257.554	346.081	474.697	199.111	152.628	164.910	171.005	129.053	166.428
<b>72.5</b>	147.453	192.671	292.353	379.914	155.388	125.557	139.403	136.160	103.431	135.907
<b>75.0</b>	109.802	145.544	238.326	292.376	115.276	98.946	111.757	106.743	81.259	103.178
<b>77.5</b>	82.984	102.810	186.875	216.361	80.776	70.403	86.848	79.281	62.813	76.130
<b>80.0</b>	57.454	71.185	135.631	147.108	55.706	49.289	63.641	56.626	40.848	53.130
<b>82.5</b>	34.730	42.596	92.092	91.379	27.945	29.072	38.019	33.143	26.795	33.488
<b>85.0</b>	16.238	21.735	49.956	42.320	10.189	11.615	19.619	15.088	14.053	16.445
<b>87.5</b>	3.818	7.820	19.665	11.063	0.000	0.000	5.359	3.381	3.312	5.198
<b>90.0</b>	0.000	0.000	0.621	0.000	0.000	0.000	0.138	0.000	0.000	0.000
<b>92.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>97.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>102.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>107.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>112.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>117.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>122.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>127.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>132.5</b>	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	0.023	0.000	0.000	0.000	0.552	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	0.368	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	1899.823	1899.823	1899.823	1899.823	1899.823	1899.823	1899.823
2.5	1716.168	1799.359	1912.013	2007.394	2078.832	2128.535	2146.176
5.0	1563.862	1707.267	1902.606	2091.574	2267.064	2394.714	2435.746
7.5	1435.913	1611.472	1883.953	2175.294	2453.617	2611.351	2664.205
10.0	1322.155	1523.980	1857.917	2252.643	2595.941	2775.065	2844.847
12.5	1224.543	1430.508	1815.298	2317.710	2697.233	2904.624	2918.976
15.0	1129.990	1350.813	1777.210	2363.158	2803.493	2798.594	2724.327
17.5	1034.793	1270.198	1726.426	2401.108	2794.063	2572.067	2483.103
20.0	949.325	1196.092	1675.596	2417.829	2663.193	2363.963	2259.543
22.5	866.433	1128.081	1606.251	2441.841	2486.254	2163.978	2071.702
25.0	789.383	1041.693	1538.677	2438.621	2308.786	1988.879	1913.140
27.5	724.569	971.658	1464.617	2428.777	2145.900	1839.747	1774.128
30.0	658.191	901.140	1378.735	2391.034	1964.798	1694.571	1604.963
32.5	600.415	837.269	1292.945	2329.509	1803.499	1535.940	1470.252
35.0	556.945	768.476	1209.754	2250.619	1661.566	1399.113	1373.951
37.5	510.508	704.214	1127.276	2140.886	1538.240	1303.157	1275.120
40.0	473.616	641.769	1041.118	2020.021	1401.344	1200.439	1158.579
42.5	440.404	582.107	962.481	1884.160	1250.947	1088.544	1077.550
45.0	408.687	530.633	875.403	1758.718	1128.265	1001.397	1002.110
47.5	381.892	480.838	784.530	1609.195	1018.256	926.049	931.638
50.0	357.857	431.687	702.857	1474.461	912.295	852.633	848.033
52.5	331.269	387.596	632.339	1317.785	818.639	776.664	782.943
55.0	304.405	350.221	552.690	1183.695	733.539	705.088	707.066
57.5	283.314	309.074	487.508	1036.978	654.925	640.941	619.643
60.0	261.763	274.551	421.061	899.415	581.808	571.964	519.432
62.5	237.705	238.142	357.834	774.433	514.395	495.719	407.790
65.0	209.668	209.622	301.507	654.994	447.534	408.434	318.320
67.5	182.689	177.399	246.813	542.179	386.745	325.105	245.387
70.0	159.804	147.982	199.433	441.554	329.268	256.818	189.474
72.5	132.986	119.968	152.973	352.268	276.368	193.223	147.453
75.0	112.516	89.999	115.161	270.779	223.928	142.140	109.802
77.5	86.664	70.012	82.984	197.133	171.465	103.408	82.984
80.0	63.365	48.024	54.441	132.779	124.292	70.840	57.454

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**CANDELA TABULATION - (Cont.)**

82.5	38.962	27.738	31.257	79.994	78.844	42.941	34.730
85.0	19.596	11.362	10.350	35.443	42.136	21.091	16.238
87.5	3.703	0.000	0.207	5.635	14.674	4.692	3.818
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	710.73	N.A.	18.20
0-30	1410.93	N.A.	36.10
0-40	2151.15	N.A.	55.00
0-60	3371.31	N.A.	86.30
0-80	3877.5	N.A.	99.20
0-90	3908.2	N.A.	100.00
10-90	3723.61	N.A.	95.30
20-40	1440.42	N.A.	36.90
20-50	2116.31	N.A.	54.20
40-70	1567.36	N.A.	40.10
60-80	506.18	N.A.	13.00
70-80	158.99	N.A.	4.10
80-90	30.70	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	3908.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	184.59
10-20	526.14
20-30	700.20
30-40	740.22
40-50	675.89
50-60	544.28
60-70	347.20
70-80	158.99
80-90	30.70
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

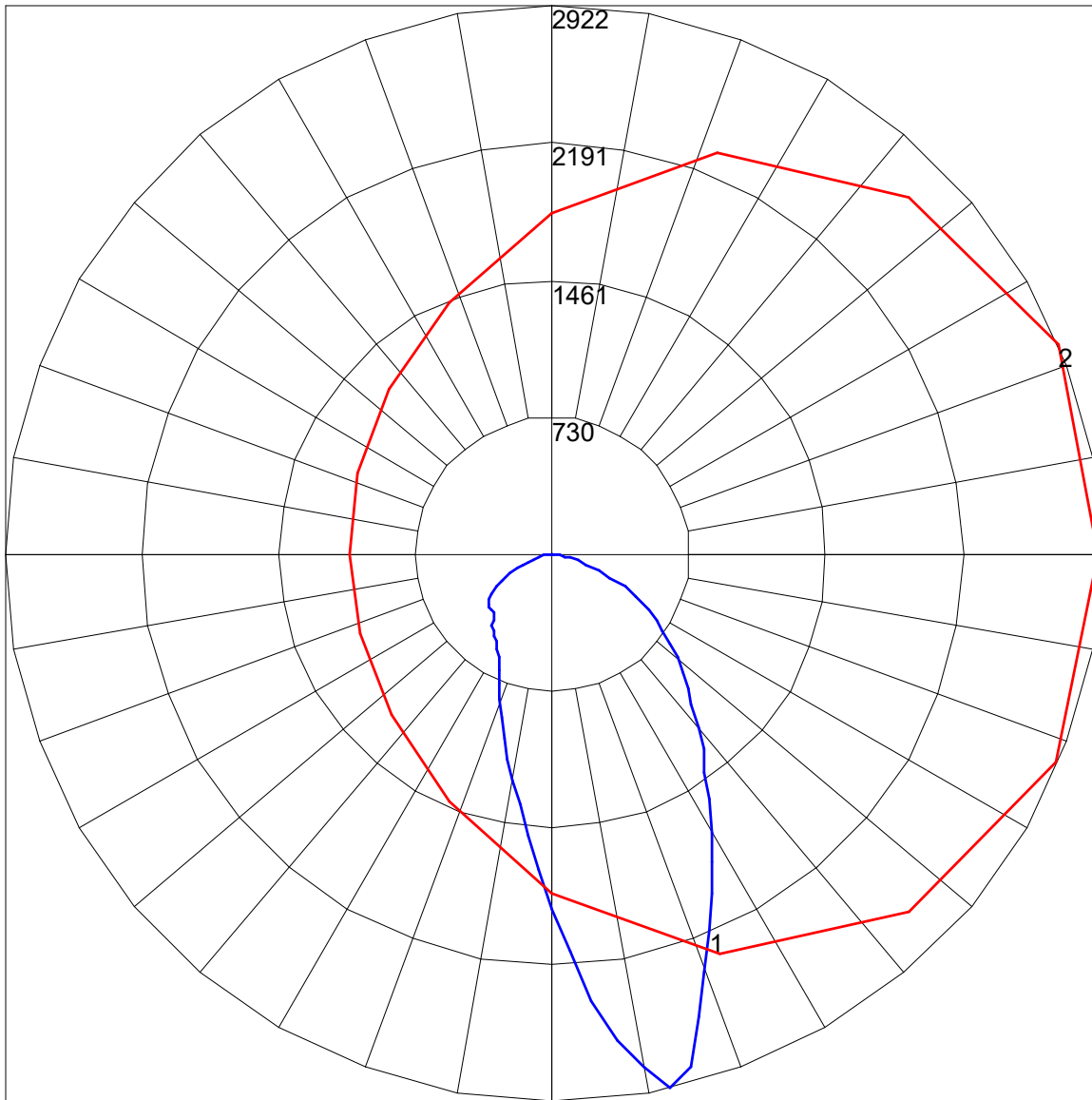
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	101	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 = 2921.759 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.)