



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO2-LIN-LED4-HO-SYM.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L021507503R02  
 [TESTLAB]  
 [ISSUE DATE]  
 [MANUFAC] PRUDENTIAL LTG.  
 [LUMCAT] BIO2-LIN-LED4-HO-SYM  
 [LUMINAIRE] 4-1/2"L. X 48"W. X 5"H. LED LUMINAIRE  
 [MORE] DIFFUSED LENS  
 [BALLASTCAT] OSRAM OPTOTRONIC  
 [BALLAST] INPUT: 120-277VAC  
 [LAMPPOSITION] 0,0  
 [LAMPCAT] N/A  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3977
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	3.94 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BIO2-LIN-LED4-HO-SYM.IES**

**CANDELA TABULATION**

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
<b>0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>10</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>15</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>20</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>25</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>30</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>35</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>40</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>45</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>50</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>55</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>60</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>65</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	45.645	45.619	45.696	45.798	45.951	46.206	46.614	47.047	47.583	48.195
<b>100</b>	102.229	102.382	102.790	103.351	104.422	105.570	106.921	108.579	110.542	112.914
<b>105</b>	174.598	174.828	175.516	177.225	178.959	181.177	184.390	187.884	192.040	196.987
<b>110</b>	258.850	258.952	260.202	262.599	265.200	269.458	273.921	280.015	286.722	294.040
<b>115</b>	351.772	351.517	353.557	356.107	360.493	365.746	372.963	380.817	390.073	399.814
<b>120</b>	445.255	445.128	447.601	451.044	456.297	463.462	471.954	480.879	493.323	505.461
<b>125</b>	548.097	547.740	550.519	555.007	561.331	569.797	580.431	592.212	605.293	618.910
<b>130</b>	666.621	666.009	668.763	676.081	681.717	692.070	703.672	717.136	731.391	747.303
<b>135</b>	796.645	795.906	798.787	806.998	812.659	825.613	836.782	853.536	866.388	883.728
<b>140</b>	936.436	935.620	938.094	944.877	954.057	965.124	983.943	992.817	1009.009	1028.746
<b>145</b>	1085.229	1083.954	1086.045	1092.037	1107.541	1112.871	1125.519	1145.842	1155.660	1173.051
<b>150</b>	1237.744	1236.699	1237.974	1243.915	1253.682	1269.186	1274.847	1287.852	1303.789	1323.144
<b>155</b>	1387.914	1387.659	1388.500	1393.320	1401.505	1411.144	1426.546	1430.575	1443.325	1455.795
<b>160</b>	1529.005	1529.184	1529.005	1532.779	1538.746	1545.376	1553.562	1566.669	1577.149	1580.107
<b>165</b>	1651.762	1651.609	1650.819	1653.420	1657.245	1661.478	1666.935	1672.366	1678.665	1686.034
<b>170</b>	1748.127	1747.515	1746.393	1747.438	1749.172	1751.544	1754.731	1756.950	1760.163	1762.866
<b>175</b>	1808.970	1808.281	1807.516	1807.567	1808.179	1809.582	1811.622	1812.234	1813.101	1813.458
<b>180</b>	1828.350	1828.350	1828.350	1828.350	1828.350	1828.350	1828.350	1828.350	1828.350	1828.350

**Vert. Angles**      **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
<b>0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>10</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>15</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>20</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>25</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>30</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>35</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>40</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>45</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>50</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>55</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>60</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BIO2-LIN-LED4-HO-SYM.IES**

**CANDELA TABULATION - (Cont.)**

65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	48.858	49.623	50.541	51.586	52.606	53.601	54.468	55.003	55.233
100	115.336	118.218	121.252	124.363	127.143	129.565	131.580	133.008	133.543
105	202.215	207.570	213.154	218.713	223.864	228.225	231.667	234.115	235.033
110	302.047	310.029	318.265	326.272	333.667	339.813	344.658	348.024	349.299
115	410.295	420.826	431.511	441.991	451.579	459.357	465.375	469.633	471.138
120	517.879	530.706	543.889	556.843	568.293	577.269	584.460	589.560	591.319
125	633.700	648.873	664.479	679.141	691.968	702.270	710.506	716.397	718.488
130	765.714	781.371	798.813	815.694	828.520	839.919	848.844	855.219	857.590
135	902.445	920.193	938.272	956.734	968.923	980.475	989.833	996.489	998.962
140	1045.066	1063.630	1085.203	1097.571	1111.290	1122.204	1131.511	1138.014	1140.207
145	1190.722	1212.576	1224.331	1239.019	1251.769	1261.638	1270.155	1276.224	1278.289
150	1333.063	1348.720	1362.796	1375.444	1389.010	1400.587	1405.687	1408.671	1410.048
155	1468.825	1486.675	1496.365	1501.567	1509.651	1516.153	1521.738	1525.996	1527.526
160	1588.624	1597.677	1605.531	1612.390	1618.153	1622.641	1627.308	1631.694	1633.224
165	1696.005	1702.584	1705.312	1704.981	1705.899	1707.046	1709.443	1711.560	1712.274
170	1765.314	1768.272	1770.133	1770.720	1770.975	1771.179	1772.556	1774.086	1774.468
175	1813.330	1814.325	1814.070	1812.438	1811.086	1809.709	1809.964	1810.831	1811.112
180	1828.350	1828.350	1828.350	1828.350	1828.350	1828.350	1828.350	1828.350	1828.350

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BIO2-LIN-LED4-HO-SYM.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	273.31	N.A.	6.90
90-120	674.33	N.A.	17.00
90-130	1237.21	N.A.	31.10
90-150	2662.29	N.A.	66.90
90-180	3976.91	N.A.	100.00
110-180	3703.6	N.A.	93.10
0-180	3976.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	58.17
100-110	215.14
110-120	401.03
120-130	562.88
130-140	688.50
140-150	736.58
150-160	670.04
160-170	473.29
170-180	171.29

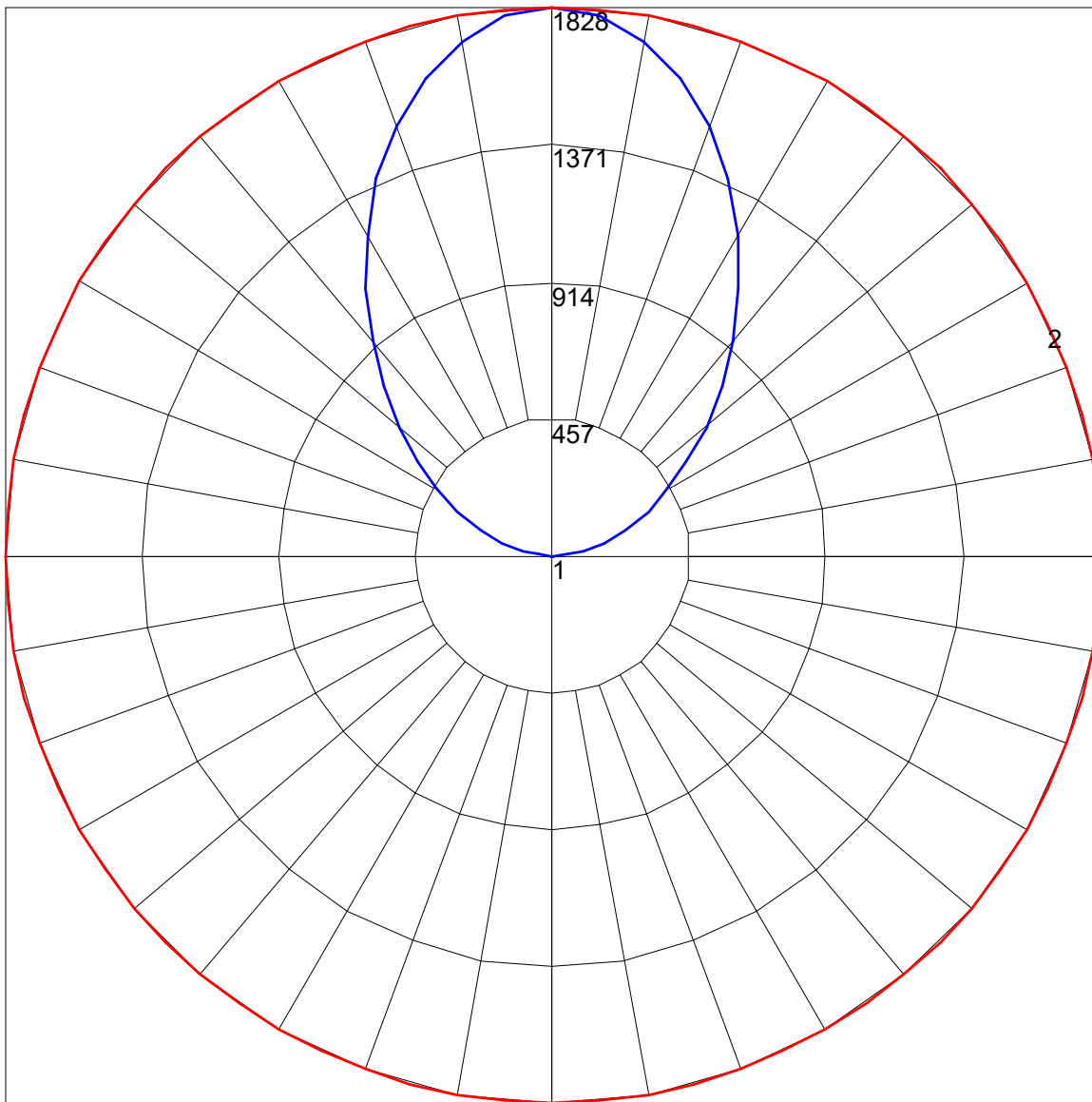
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BIO2-LIN-LED4-HO-SYM.IES**

**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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 1828.35 Located At Horizontal Angle = 0, Vertical Angle = 180  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)