



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-LIN-LED4-HO-CW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L021507504R01
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] BIO-SUS-LED4-MO-CW
 [LUMINAIRE] 4-1/2"L. X 48"W. X 5"H. LED LUMINAIRE
 [MORE] LEDS WITH OPTICS
 [BALLASTCAT] OSRAM OPTOTRONIC
 [BALLAST] INPUT: 120-277VAC
 [LAMPPOSITION] 0,0
 [LAMPCAT] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4312
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
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 : BIO-LIN-LED4-HO-CW.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>
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	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	0.000
75	0.000	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	0.000
85	0.000	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	0.000
95	207.646	215.449	234.396	273.640	332.290	415.701	500.667	524.535	448.392	306.204
100	1228.309	1254.804	1288.821	1334.644	1351.117	1280.406	1082.959	812.557	543.099	313.675
105	1488.256	1481.397	1441.438	1375.444	1259.751	1098.132	910.605	725.194	546.771	374.875
110	1468.239	1455.922	1414.867	1340.127	1225.351	1080.945	917.286	751.357	599.505	462.901
115	1401.684	1387.659	1353.132	1280.100	1184.322	1067.353	931.260	793.407	663.816	554.854
120	1360.119	1349.358	1314.678	1256.742	1174.173	1073.575	960.840	843.718	731.518	635.995
125	1336.990	1328.040	1294.507	1244.527	1176.621	1091.400	994.831	891.811	795.702	708.874
130	1309.246	1301.265	1273.954	1225.836	1166.905	1096.653	1011.508	925.242	842.239	769.029
135	1261.281	1252.687	1229.584	1188.274	1138.702	1077.757	1007.071	935.493	867.994	809.778
140	1187.713	1177.615	1155.175	1124.269	1086.249	1038.079	982.897	930.852	879.571	834.997
145	1099.330	1092.496	1075.768	1053.252	1025.661	991.312	954.949	918.000	880.999	846.421
150	1022.371	1017.042	1006.663	993.174	976.905	954.720	930.495	904.204	877.965	849.328
155	968.923	967.138	960.049	950.308	939.726	925.956	909.075	889.720	870.111	848.002
160	926.364	928.276	922.003	916.368	909.355	899.895	887.629	874.497	860.625	845.274
165	891.480	891.276	887.757	884.110	879.291	873.783	866.413	858.508	850.399	842.035
170	863.965	862.920	859.146	858.712	856.596	854.607	851.878	848.104	845.121	841.678
175	848.461	845.656	846.651	845.121	844.585	844.713	845.401	844.611	844.101	843.208
180	841.500	841.500	841.500	841.500	841.500	841.500	841.500	841.500	841.500	841.500

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>
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BIO-LIN-LED4-HO-CW.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	181.560	114.214	82.951	69.232	63.928	63.291	58.420	43.809	36.363
100	232.815	173.859	151.674	143.182	136.246	124.032	108.069	90.244	81.268
105	305.184	249.696	223.227	209.661	198.772	183.829	162.690	143.080	134.742
110	377.629	332.979	304.291	288.048	271.830	248.472	222.258	202.215	194.259
115	469.914	422.382	396.882	373.447	346.290	314.440	285.753	265.990	258.799
120	563.269	514.870	476.901	444.133	413.176	378.394	348.967	329.995	323.289
125	642.498	594.124	554.803	517.216	473.637	438.396	413.380	395.454	389.665
130	710.634	663.535	622.455	581.553	541.033	501.789	475.218	461.244	456.169
135	760.461	717.187	676.591	634.720	594.991	561.433	535.755	520.863	516.579
140	793.330	753.678	715.224	675.240	639.361	608.991	587.112	574.336	570.715
145	810.696	776.551	741.361	707.140	676.846	652.392	634.695	625.030	622.327
150	820.386	791.316	762.271	734.731	711.756	693.115	680.952	673.888	671.899
155	825.001	803.760	781.371	762.399	746.436	732.513	724.149	720.375	719.049
160	829.540	815.566	801.133	788.409	777.750	767.779	763.827	761.226	761.124
165	833.875	824.950	818.040	810.823	804.142	798.864	796.773	794.784	793.866
170	836.757	834.385	831.351	827.449	824.185	820.309	820.564	819.774	820.131
175	841.525	840.990	839.077	837.777	836.757	833.671	834.232	834.666	834.054
180	841.500	841.500	841.500	841.500	841.500	841.500	841.500	841.500	841.500

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BIO-LIN-LED4-HO-CW.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	977.51	N.A.	22.70
90-120	1691.57	N.A.	39.20
90-130	2408.05	N.A.	55.80
90-150	3602.12	N.A.	83.50
90-180	4312.23	N.A.	100.00
110-180	3334.72	N.A.	77.30
0-180	4312.23	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	289.98
100-110	687.53
110-120	714.06
120-130	716.49
130-140	659.02
140-150	535.05
150-160	391.01
160-170	238.80
170-180	80.30

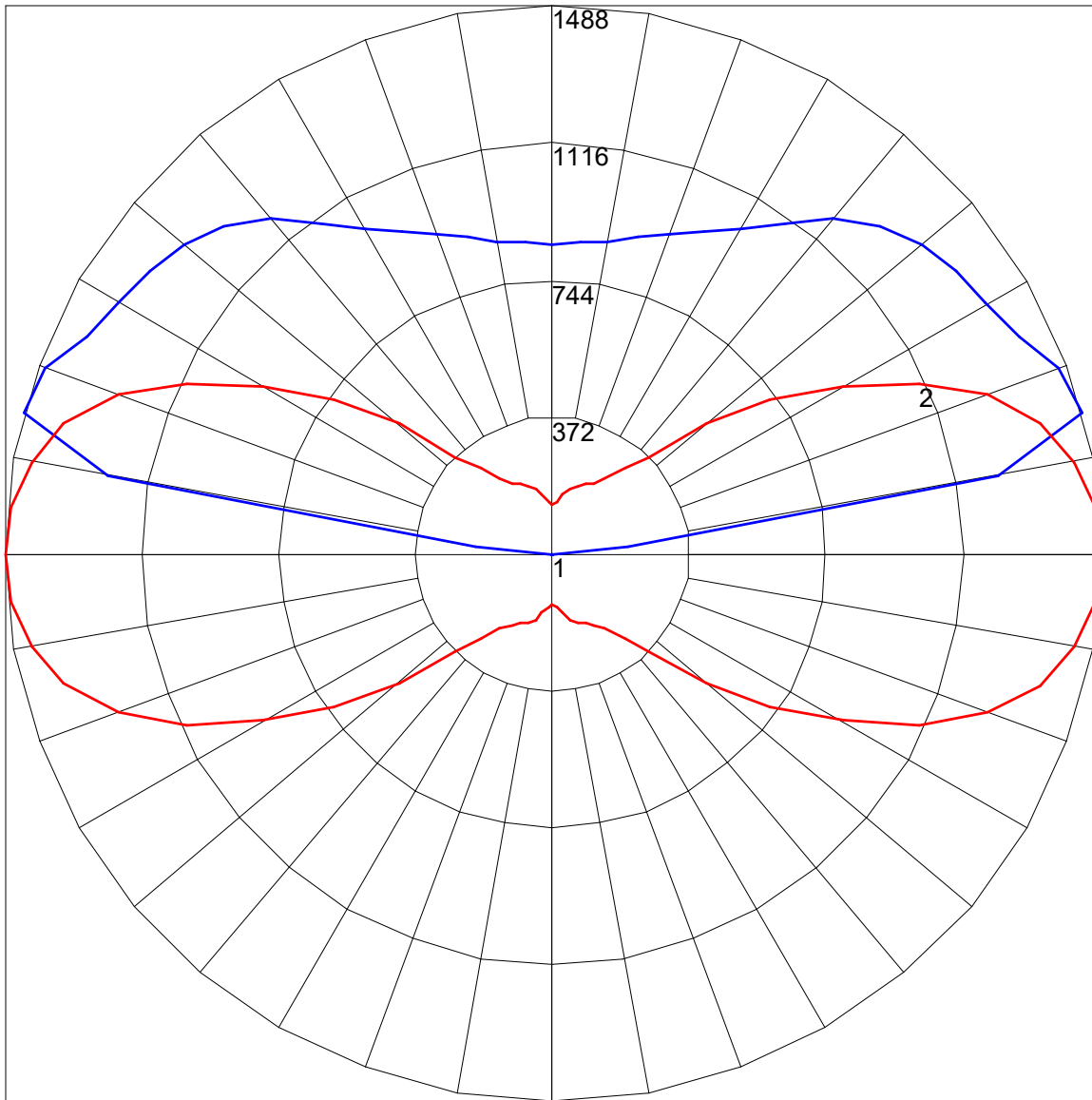
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BIO-LIN-LED4-HO-CW.IES

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 = 1488.256 Located At Horizontal Angle = 0, Vertical Angle = 105
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (105) (Through Max. Cd.)