



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-LIN-LED4-MO-04-ABW-D1X.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L041412303R02  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUE DATE] 6/18/2015  
 [MANUFAC] PRUDENTIAL LIGHTING  
 [LUMCAT] BIO-LIN-LED4-SO-04-ABW-D1X  
 [LUMINAIRE] 48-1/8"L X 5-1/2"W X 5-5/8"H. LED LUMINAIRE.  
 [MORE] DIFFUSED LENS.  
 [BALLASTCAT] OSRAM OPTOTRONIC  
 [BALLAST] INPUT: 120-277VAC,  
 [LAMPCAT] N/A  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
 [\_TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2623
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	28
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.44
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6265	8417	7780
55	5633	7507	5793
65	4990	6314	4418
75	4174	4616	3218
85	3253	2796	2263

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BIO-LIN-LED4-MO-04-ABW-D1X.IES**

**CANDELA TABULATION**

	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>
<b>0</b>	913.590	913.590	913.590	913.590	913.590	913.590	913.590	913.590	913.590	913.590
<b>5</b>	904.873	905.285	906.167	907.666	909.724	913.267	916.971	920.529	923.586	926.762
<b>10</b>	887.395	888.395	891.437	896.553	902.874	911.503	921.014	930.554	939.624	948.679
<b>15</b>	859.450	861.391	867.785	877.149	889.482	904.623	920.602	936.419	951.458	965.467
<b>20</b>	821.245	824.582	834.225	849.101	867.829	888.894	910.871	931.172	949.723	966.040
<b>25</b>	774.190	778.777	791.874	811.896	835.989	862.008	887.718	910.636	929.790	945.357
<b>30</b>	718.962	724.769	741.159	765.429	793.697	822.891	850.483	873.401	891.335	904.844
<b>35</b>	657.281	664.028	682.565	709.966	740.777	771.632	798.872	820.730	836.709	848.411
<b>40</b>	590.190	597.408	617.341	645.830	677.464	708.231	734.780	754.992	769.619	780.291
<b>45</b>	520.645	528.377	548.663	575.138	605.816	634.893	659.765	678.434	691.709	699.544
<b>50</b>	449.497	457.493	478.853	505.724	527.510	554.278	577.004	593.336	602.950	606.287
<b>55</b>	379.745	386.492	402.104	424.815	448.012	468.827	488.981	506.915	508.017	506.062
<b>60</b>	318.461	322.092	335.131	353.814	375.879	393.563	411.041	423.448	421.478	414.937
<b>65</b>	247.871	254.339	261.028	275.728	293.383	308.788	320.195	324.899	323.282	313.610
<b>70</b>	186.969	189.145	193.893	203.022	215.355	223.763	230.628	234.156	230.805	221.117
<b>75</b>	126.964	127.890	130.433	136.725	138.636	145.706	150.631	151.454	147.764	140.429
<b>80</b>	75.573	74.338	75.896	73.897	77.278	80.233	81.732	81.188	78.498	74.397
<b>85</b>	33.325	31.914	30.311	30.400	30.797	31.061	30.988	30.532	29.694	28.636
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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

	<b>50</b>	<b>55</b>	<b>60</b>	<b>65</b>	<b>70</b>	<b>75</b>	<b>80</b>	<b>85</b>	<b>90</b>
<b>0</b>	913.590	913.590	913.590	913.590	913.590	913.590	913.590	913.590	913.590
<b>5</b>	929.746	932.539	935.332	937.213	938.698	940.065	941.226	942.314	943.740
<b>10</b>	956.985	964.511	971.420	976.991	981.798	985.121	987.605	990.515	992.338
<b>15</b>	977.697	988.193	997.513	1004.716	1011.095	1015.197	1017.857	1020.915	1021.371
<b>20</b>	979.373	989.898	998.483	1005.260	1010.243	1013.036	1014.962	1017.152	1016.873
<b>25</b>	957.073	965.481	972.317	977.036	980.093	981.681	982.475	983.577	984.430
<b>30</b>	914.208	921.087	926.600	930.275	932.539	933.641	933.906	935.361	935.934
<b>35</b>	856.848	862.875	867.668	869.770	870.093	869.461	868.814	869.108	869.299
<b>40</b>	787.067	790.713	791.522	788.523	784.142	778.938	775.160	772.970	772.088
<b>45</b>	702.146	699.735	693.105	682.521	671.099	660.750	653.092	648.549	646.580
<b>50</b>	602.141	592.248	577.107	560.393	544.312	530.156	519.292	513.265	511.839
<b>55</b>	495.067	478.338	458.919	439.324	422.052	408.557	397.459	391.211	390.520
<b>60</b>	399.914	382.376	360.900	342.863	327.443	313.919	305.878	301.512	301.041
<b>65</b>	298.131	280.873	264.130	249.356	238.449	229.232	223.734	219.809	219.427
<b>70</b>	208.255	194.966	182.662	172.857	164.919	159.480	155.673	153.233	152.674
<b>75</b>	131.536	123.171	115.674	109.662	105.208	102.062	99.695	98.387	97.887
<b>80</b>	69.854	65.930	62.490	59.770	57.712	56.125	55.022	54.405	54.155
<b>85</b>	27.518	26.504	25.622	24.858	24.240	23.711	23.388	23.197	23.182
<b>90</b>	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-MO-04-ABW-D1X.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	357.53	N.A.	13.60
0-30	777.53	N.A.	29.60
0-40	1282.31	N.A.	48.90
0-60	2180.49	N.A.	83.10
0-80	2588.96	N.A.	98.70
0-90	2622.94	N.A.	100.00
10-90	2534.11	N.A.	96.60
20-40	924.78	N.A.	35.30
20-50	1421.11	N.A.	54.20
40-70	1170.66	N.A.	44.60
60-80	408.47	N.A.	15.60
70-80	136.00	N.A.	5.20
80-90	33.98	N.A.	1.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2622.94	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	88.83
10-20	268.70
20-30	420.01
30-40	504.77
40-50	496.33
50-60	401.85
60-70	272.47
70-80	136.00
80-90	33.98
90-100	0.00
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

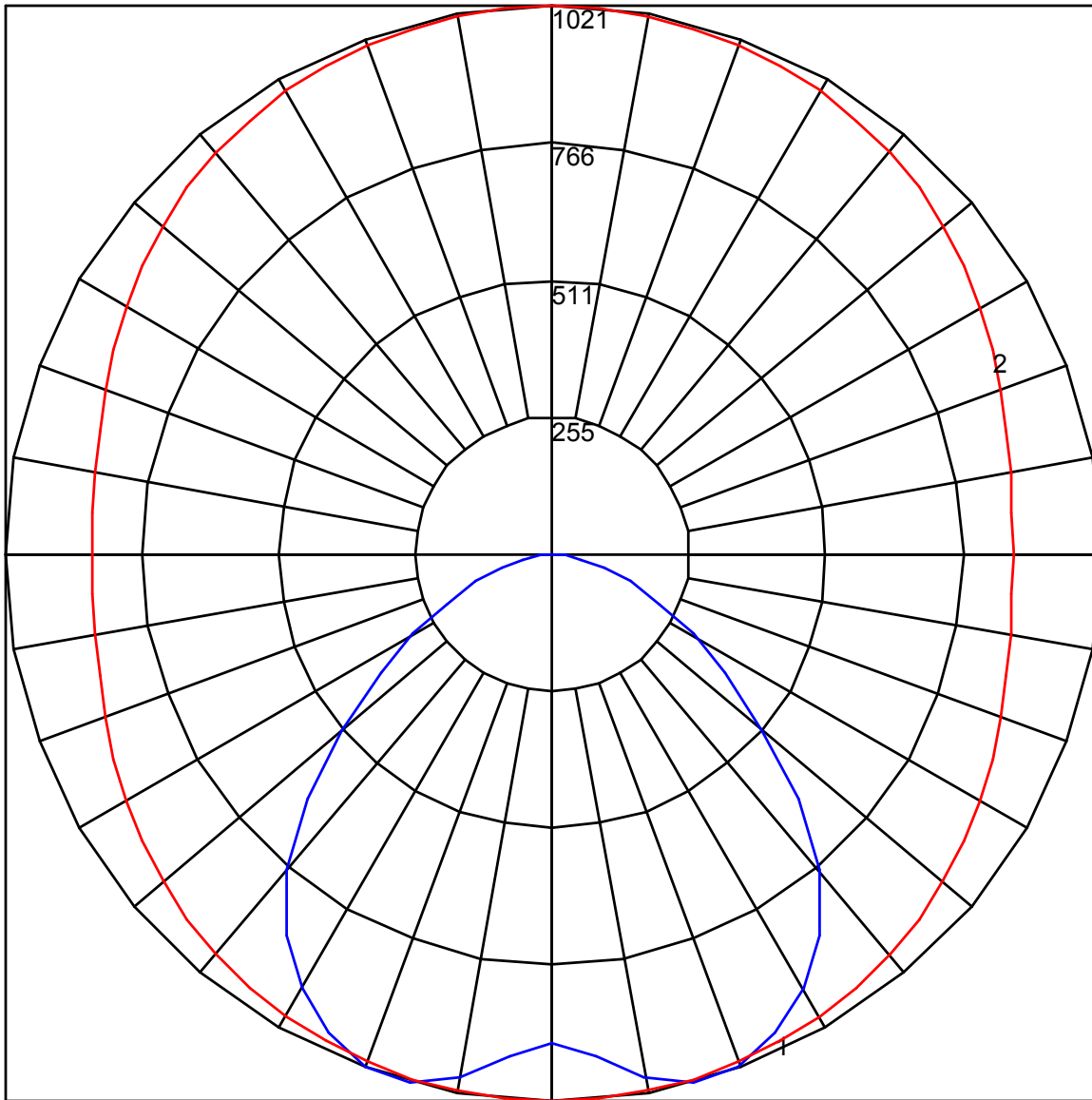
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BIO-LIN-LED4-MO-04-ABW-D1X.IES**

**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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1021.371 Located At Horizontal Angle = 90, Vertical Angle = 15  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)