



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-LIN-LED4-HO-SAL-D1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L021507503R01  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUE DATE]  
 [MANUFACT] PRUDENTIAL LTG.  
 [LUMCAT] BIO-LIN-LED4-HO-SAL-D1  
 [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	4367
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	47
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.20
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	10232	11350	12830
55	8678	9800	11376
65	7559	8592	10124
75	6127	6912	8247
85	4756	5022	5755

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**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>	2007.852	2007.852	2007.852	2007.852	2007.852	2007.852	2007.852	2007.852	2007.852	2007.852
<b>5</b>	1986.320	1985.564	1984.724	1984.780	1985.452	1986.992	1989.232	1989.904	1990.856	1991.248
<b>10</b>	1919.512	1918.840	1917.608	1918.756	1920.660	1923.264	1926.764	1929.200	1932.728	1935.696
<b>15</b>	1813.700	1813.532	1812.664	1815.520	1819.720	1824.368	1830.360	1836.324	1843.240	1851.332
<b>20</b>	1678.908	1679.104	1678.908	1683.052	1689.604	1696.884	1705.872	1720.264	1731.772	1735.020
<b>25</b>	1523.984	1523.704	1524.628	1529.920	1538.908	1549.492	1566.404	1570.828	1584.828	1598.520
<b>30</b>	1359.092	1357.944	1359.344	1365.868	1376.592	1393.616	1399.832	1414.112	1431.612	1452.864
<b>35</b>	1191.624	1190.224	1192.520	1199.100	1216.124	1221.976	1235.864	1258.180	1268.960	1288.056
<b>40</b>	1028.244	1027.348	1030.064	1037.512	1047.592	1059.744	1080.408	1090.152	1107.932	1129.604
<b>45</b>	874.748	873.936	877.100	886.116	892.332	906.556	918.820	937.216	951.328	970.368
<b>50</b>	731.976	731.304	734.328	742.364	748.552	759.920	772.660	787.444	803.096	820.568
<b>55</b>	601.832	601.440	604.492	609.420	616.364	625.660	637.336	650.272	664.636	679.588
<b>60</b>	488.908	488.768	491.484	495.264	501.032	508.900	518.224	528.024	541.688	555.016
<b>65</b>	386.260	385.980	388.220	391.020	395.836	401.604	409.528	418.152	428.316	439.012
<b>70</b>	284.228	284.340	285.712	288.344	291.200	295.876	300.776	307.468	314.832	322.868
<b>75</b>	191.716	191.968	192.724	194.600	196.504	198.940	202.468	206.304	210.868	216.300
<b>80</b>	112.252	112.420	112.868	113.484	114.660	115.920	117.404	119.224	121.380	123.984
<b>85</b>	50.120	50.092	50.176	50.288	50.456	50.736	51.184	51.660	52.248	52.920
<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>	2007.852	2007.852	2007.852	2007.852	2007.852	2007.852	2007.852	2007.852	2007.852
<b>5</b>	1991.108	1992.200	1991.920	1990.128	1988.644	1987.132	1987.412	1988.364	1988.672
<b>10</b>	1938.384	1941.632	1943.676	1944.320	1944.600	1944.824	1946.336	1948.016	1948.436
<b>15</b>	1862.280	1869.504	1872.500	1872.136	1873.144	1874.404	1877.036	1879.360	1880.144
<b>20</b>	1744.372	1754.312	1762.936	1770.468	1776.796	1781.724	1786.848	1791.664	1793.344
<b>25</b>	1612.828	1632.428	1643.068	1648.780	1657.656	1664.796	1670.928	1675.604	1677.284
<b>30</b>	1463.756	1480.948	1496.404	1510.292	1525.188	1537.900	1543.500	1546.776	1548.288
<b>35</b>	1307.460	1331.456	1344.364	1360.492	1374.492	1385.328	1394.680	1401.344	1403.612
<b>40</b>	1147.524	1167.908	1191.596	1205.176	1220.240	1232.224	1242.444	1249.584	1251.992
<b>45</b>	990.920	1010.408	1030.260	1050.532	1063.916	1076.600	1086.876	1094.184	1096.900
<b>50</b>	840.784	857.976	877.128	895.664	909.748	922.264	932.064	939.064	941.668
<b>55</b>	695.828	712.488	729.624	745.724	759.808	771.120	780.164	786.632	788.928
<b>60</b>	568.652	582.736	597.212	611.436	624.008	633.864	641.760	647.360	649.292
<b>65</b>	450.520	462.084	473.816	485.324	495.852	504.392	511.000	515.676	517.328
<b>70</b>	331.660	340.424	349.468	358.260	366.380	373.128	378.448	382.144	383.544
<b>75</b>	222.040	227.920	234.052	240.156	245.812	250.600	254.380	257.068	258.076
<b>80</b>	126.644	129.808	133.140	136.556	139.608	142.268	144.480	146.048	146.636
<b>85</b>	53.648	54.488	55.496	56.644	57.764	58.856	59.808	60.396	60.648
<b>90</b>	0.000	0.000	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	707.78	N.A.	16.20
0-30	1443.51	N.A.	33.10
0-40	2252.3	N.A.	51.60
0-60	3626.36	N.A.	83.00
0-80	4302.94	N.A.	98.50
0-90	4366.81	N.A.	100.00
10-90	4178.72	N.A.	95.70
20-40	1544.52	N.A.	35.40
20-50	2300.52	N.A.	52.70
40-70	1814.41	N.A.	41.60
60-80	676.57	N.A.	15.50
70-80	236.23	N.A.	5.40
80-90	63.87	N.A.	1.50
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	4366.81	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	188.09
10-20	519.69
20-30	735.73
30-40	808.79
40-50	756.00
50-60	618.06
60-70	440.34
70-80	236.23
80-90	63.87
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

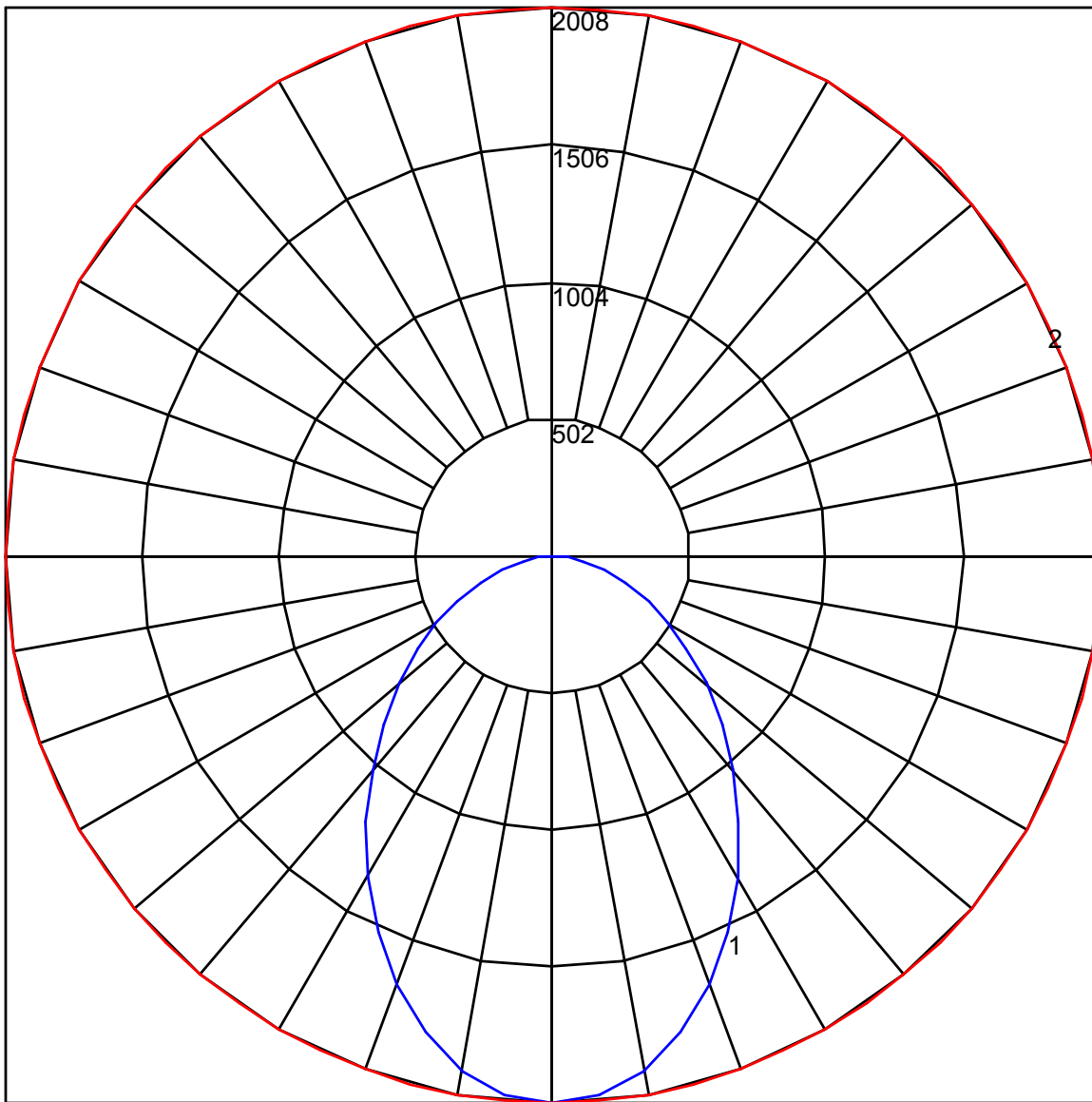
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	61	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

POLAR GRAPH



Maximum Candela = 2007.852 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)