



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-LIN-LED4-HO-SAL-D2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L021507503R02
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 6/16/2015
 [MANUFACT] PRUDENTIAL LTG.
 [LUMCAT] BIO-LIN-LED4-HO-SAL-D2
 [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
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 120VAC
 [TEST PROCEDURE] IESNA:LM-79-08

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	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

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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

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
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	50.120	50.092	50.176	50.288	50.456	50.736	51.184	51.660	52.248	52.920
100	112.252	112.420	112.868	113.484	114.660	115.920	117.404	119.224	121.380	123.984
105	191.716	191.968	192.724	194.600	196.504	198.940	202.468	206.304	210.868	216.300
110	284.228	284.340	285.712	288.344	291.200	295.876	300.776	307.468	314.832	322.868
115	386.260	385.980	388.220	391.020	395.836	401.604	409.528	418.152	428.316	439.012
120	488.908	488.768	491.484	495.264	501.032	508.900	518.224	528.024	541.688	555.016
125	601.832	601.440	604.492	609.420	616.364	625.660	637.336	650.272	664.636	679.588
130	731.976	731.304	734.328	742.364	748.552	759.920	772.660	787.444	803.096	820.568
135	874.748	873.936	877.100	886.116	892.332	906.556	918.820	937.216	951.328	970.368
140	1028.244	1027.348	1030.064	1037.512	1047.592	1059.744	1080.408	1090.152	1107.932	1129.604
145	1191.624	1190.224	1192.520	1199.100	1216.124	1221.976	1235.864	1258.180	1268.960	1288.056
150	1359.092	1357.944	1359.344	1365.868	1376.592	1393.616	1399.832	1414.112	1431.612	1452.864
155	1523.984	1523.704	1524.628	1529.920	1538.908	1549.492	1566.404	1570.828	1584.828	1598.520
160	1678.908	1679.104	1678.908	1683.052	1689.604	1696.884	1705.872	1720.264	1731.772	1735.020
165	1813.700	1813.532	1812.664	1815.520	1819.720	1824.368	1830.360	1836.324	1843.240	1851.332
170	1919.512	1918.840	1917.608	1918.756	1920.660	1923.264	1926.764	1929.200	1932.728	1935.696
175	1986.320	1985.564	1984.724	1984.780	1985.452	1986.992	1989.232	1989.904	1990.856	1991.248
180	2007.600	2007.600	2007.600	2007.600	2007.600	2007.600	2007.600	2007.600	2007.600	2007.600

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
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

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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	53.648	54.488	55.496	56.644	57.764	58.856	59.808	60.396	60.648
100	126.644	129.808	133.140	136.556	139.608	142.268	144.480	146.048	146.636
105	222.040	227.920	234.052	240.156	245.812	250.600	254.380	257.068	258.076
110	331.660	340.424	349.468	358.260	366.380	373.128	378.448	382.144	383.544
115	450.520	462.084	473.816	485.324	495.852	504.392	511.000	515.676	517.328
120	568.652	582.736	597.212	611.436	624.008	633.864	641.760	647.360	649.292
125	695.828	712.488	729.624	745.724	759.808	771.120	780.164	786.632	788.928
130	840.784	857.976	877.128	895.664	909.748	922.264	932.064	939.064	941.668
135	990.920	1010.408	1030.260	1050.532	1063.916	1076.600	1086.876	1094.184	1096.900
140	1147.524	1167.908	1191.596	1205.176	1220.240	1232.224	1242.444	1249.584	1251.992
145	1307.460	1331.456	1344.364	1360.492	1374.492	1385.328	1394.680	1401.344	1403.612
150	1463.756	1480.948	1496.404	1510.292	1525.188	1537.900	1543.500	1546.776	1548.288
155	1612.828	1632.428	1643.068	1648.780	1657.656	1664.796	1670.928	1675.604	1677.284
160	1744.372	1754.312	1762.936	1770.468	1776.796	1781.724	1786.848	1791.664	1793.344
165	1862.280	1869.504	1872.500	1872.136	1873.144	1874.404	1877.036	1879.360	1880.144
170	1938.384	1941.632	1943.676	1944.320	1944.600	1944.824	1946.336	1948.016	1948.436
175	1991.108	1992.200	1991.920	1990.128	1988.644	1987.132	1987.412	1988.364	1988.672
180	2007.600	2007.600	2007.600	2007.600	2007.600	2007.600	2007.600	2007.600	2007.600

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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	300.10	N.A.	6.90
90-120	740.45	N.A.	17.00
90-130	1358.51	N.A.	31.10
90-150	2923.3	N.A.	66.90
90-180	4366.81	N.A.	100.00
110-180	4066.7	N.A.	93.10
0-180	4366.81	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	63.87
100-110	236.23
110-120	440.34
120-130	618.06
130-140	756.00
140-150	808.79
150-160	735.73
160-170	519.69
170-180	188.09

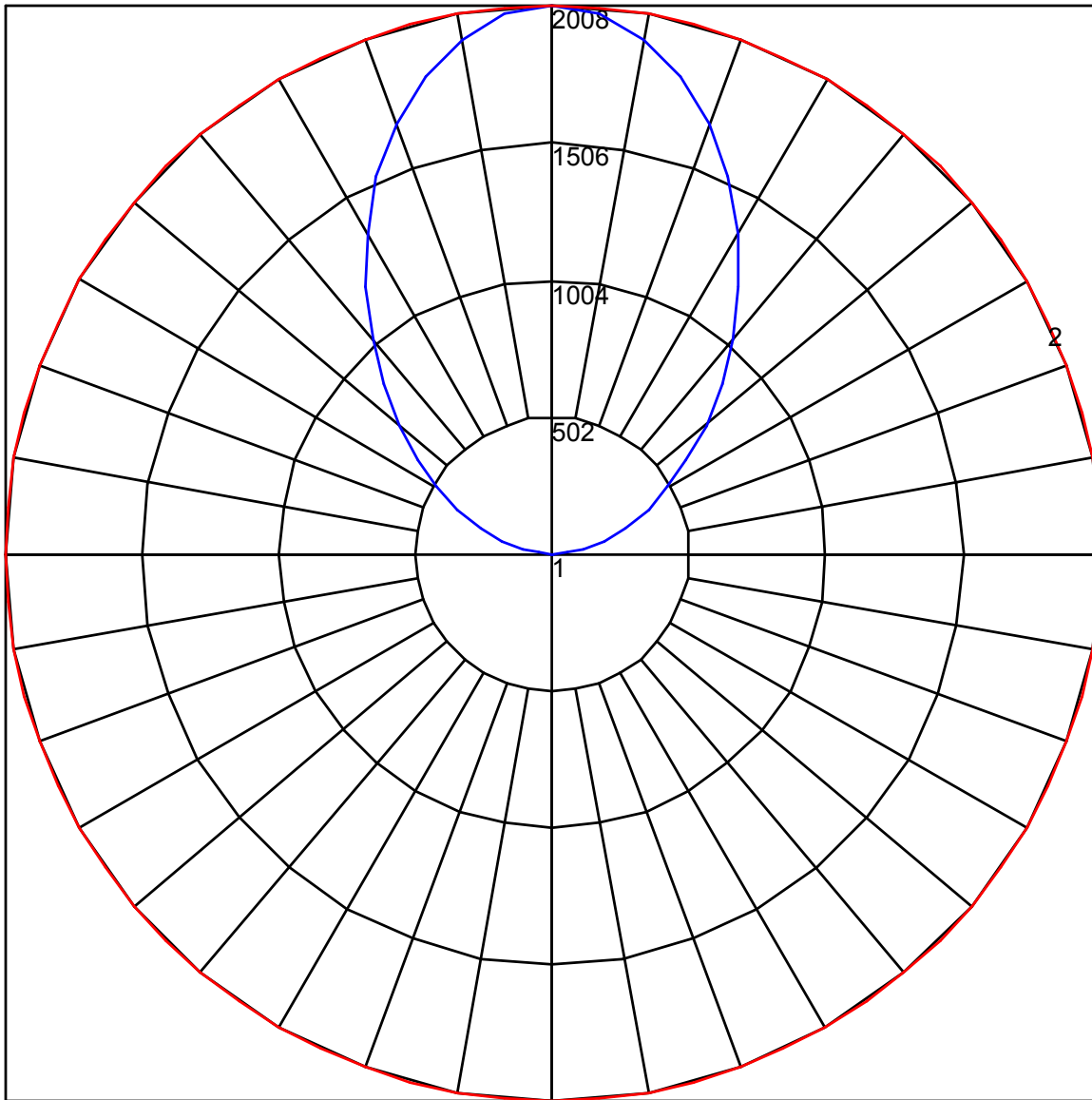
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 2007.6 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.)