



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L021507503R01
 [TESTLAB] LIGHT LABORATORY, INC.
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] BIO-LIN-LED4-SO-SAL-D1
 [LUMINAIRE] 4-1/2"L. X 48"W. X 5"H. LED LUMINAIRE
 [MORE] DIFFUSED LENS
 [BALLASTCAT] OSRAM OPTOTRONIC
 [ISSUEDATE]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3743
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	39
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	8770	9729	10997
55	7439	8400	9751
65	6479	7364	8678
75	5251	5925	7069
85	4077	4305	4933

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	1721.016	1721.016	1721.016	1721.016	1721.016	1721.016	1721.016	1721.016	1721.016	1721.016
5	1702.560	1701.912	1701.192	1701.240	1701.816	1703.136	1705.056	1705.632	1706.448	1706.784
10	1645.296	1644.720	1643.664	1644.648	1646.280	1648.512	1651.512	1653.600	1656.624	1659.168
15	1554.600	1554.456	1553.712	1556.160	1559.760	1563.744	1568.880	1573.992	1579.920	1586.856
20	1439.064	1439.232	1439.064	1442.616	1448.232	1454.472	1462.176	1474.512	1484.376	1487.160
25	1306.272	1306.032	1306.824	1311.360	1319.064	1328.136	1342.632	1346.424	1358.424	1370.160
30	1164.936	1163.952	1165.152	1170.744	1179.936	1194.528	1199.856	1212.096	1227.096	1245.312
35	1021.392	1020.192	1022.160	1027.800	1042.392	1047.408	1059.312	1078.440	1087.680	1104.048
40	881.352	880.584	882.912	889.296	897.936	908.352	926.064	934.416	949.656	968.232
45	749.784	749.088	751.800	759.528	764.856	777.048	787.560	803.328	815.424	831.744
50	627.408	626.832	629.424	636.312	641.616	651.360	662.280	674.952	688.368	703.344
55	515.856	515.520	518.136	522.360	528.312	536.280	546.288	557.376	569.688	582.504
60	419.064	418.944	421.272	424.512	429.456	436.200	444.192	452.592	464.304	475.728
65	331.080	330.840	332.760	335.160	339.288	344.232	351.024	358.416	367.128	376.296
70	243.624	243.720	244.896	247.152	249.600	253.608	257.808	263.544	269.856	276.744
75	164.328	164.544	165.192	166.800	168.432	170.520	173.544	176.832	180.744	185.400
80	96.216	96.360	96.744	97.272	98.280	99.360	100.632	102.192	104.040	106.272
85	42.960	42.936	43.008	43.104	43.248	43.488	43.872	44.280	44.784	45.360
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
0	1721.016	1721.016	1721.016	1721.016	1721.016	1721.016	1721.016	1721.016	1721.016
5	1706.664	1707.600	1707.360	1705.824	1704.552	1703.256	1703.496	1704.312	1704.576
10	1661.472	1664.256	1666.008	1666.560	1666.800	1666.992	1668.288	1669.728	1670.088
15	1596.240	1602.432	1605.000	1604.688	1605.552	1606.632	1608.888	1610.880	1611.552
20	1495.176	1503.696	1511.088	1517.544	1522.968	1527.192	1531.584	1535.712	1537.152
25	1382.424	1399.224	1408.344	1413.240	1420.848	1426.968	1432.224	1436.232	1437.672
30	1254.648	1269.384	1282.632	1294.536	1307.304	1318.200	1323.000	1325.808	1327.104
35	1120.680	1141.248	1152.312	1166.136	1178.136	1187.424	1195.440	1201.152	1203.096
40	983.592	1001.064	1021.368	1033.008	1045.920	1056.192	1064.952	1071.072	1073.136
45	849.360	866.064	883.080	900.456	911.928	922.800	931.608	937.872	940.200
50	720.672	735.408	751.824	767.712	779.784	790.512	798.912	804.912	807.144
55	596.424	610.704	625.392	639.192	651.264	660.960	668.712	674.256	676.224
60	487.416	499.488	511.896	524.088	534.864	543.312	550.080	554.880	556.536
65	386.160	396.072	406.128	415.992	425.016	432.336	438.000	442.008	443.424
70	284.280	291.792	299.544	307.080	314.040	319.824	324.384	327.552	328.752
75	190.320	195.360	200.616	205.848	210.696	214.800	218.040	220.344	221.208
80	108.552	111.264	114.120	117.048	119.664	121.944	123.840	125.184	125.688
85	45.984	46.704	47.568	48.552	49.512	50.448	51.264	51.768	51.984
90	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	606.67	N.A.	16.20
0-30	1237.29	N.A.	33.10
0-40	1930.54	N.A.	51.60
0-60	3108.31	N.A.	83.00
0-80	3688.23	N.A.	98.50
0-90	3742.98	N.A.	100.00
10-90	3581.76	N.A.	95.70
20-40	1323.87	N.A.	35.40
20-50	1971.88	N.A.	52.70
40-70	1555.21	N.A.	41.60
60-80	579.92	N.A.	15.50
70-80	202.48	N.A.	5.40
80-90	54.75	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	3742.98	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	161.22
10-20	445.45
20-30	630.63
30-40	693.25
40-50	648.00
50-60	529.77
60-70	377.44
70-80	202.48
80-90	54.75
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

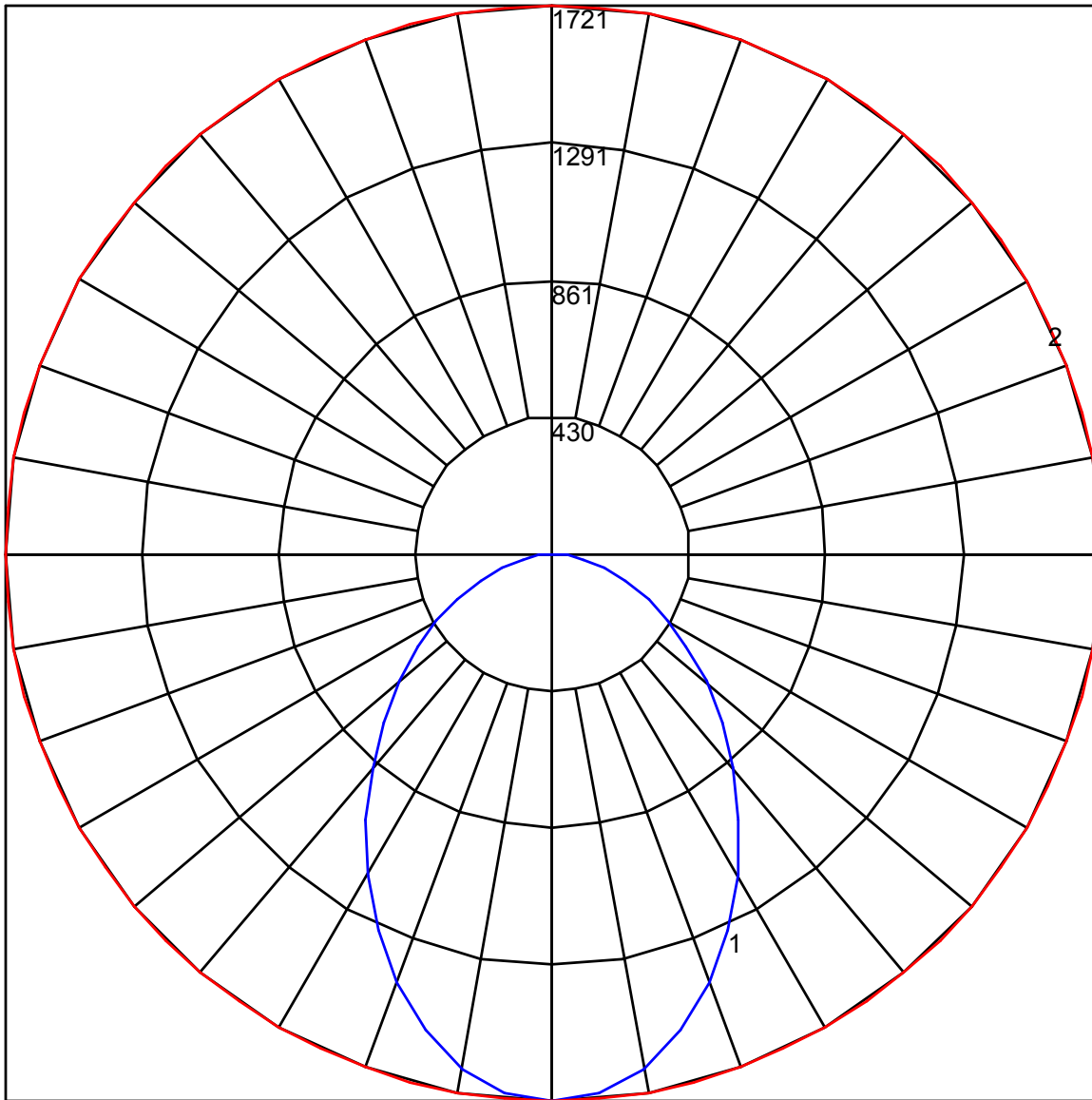
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1721.016 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.)