



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-LIN-LED4-MO-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-MO-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	2651
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	27
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	30.430	30.413	30.464	30.532	30.634	30.804	31.076	31.365	31.722	32.130
100	68.153	68.255	68.527	68.901	69.615	70.380	71.281	72.386	73.695	75.276
105	116.399	116.552	117.011	118.150	119.306	120.785	122.927	125.256	128.027	131.325
110	172.567	172.635	173.468	175.066	176.800	179.639	182.614	186.677	191.148	196.027
115	234.515	234.345	235.705	237.405	240.329	243.831	248.642	253.878	260.049	266.543
120	296.837	296.752	298.401	300.696	304.198	308.975	314.636	320.586	328.882	336.974
125	365.398	365.160	367.013	370.005	374.221	379.865	386.954	394.808	403.529	412.607
130	444.414	444.006	445.842	450.721	454.478	461.380	469.115	478.091	487.594	498.202
135	531.097	530.604	532.525	537.999	541.773	550.409	557.855	569.024	577.592	589.152
140	624.291	623.747	625.396	629.918	636.038	643.416	655.962	661.878	672.673	685.831
145	723.486	722.636	724.030	728.025	738.361	741.914	750.346	763.895	770.440	782.034
150	825.163	824.466	825.316	829.277	835.788	846.124	849.898	858.568	869.193	882.096
155	925.276	925.106	925.667	928.880	934.337	940.763	951.031	953.717	962.217	970.530
160	1019.337	1019.456	1019.337	1021.853	1025.831	1030.251	1035.708	1044.446	1051.433	1053.405
165	1101.175	1101.073	1100.546	1102.280	1104.830	1107.652	1111.290	1114.911	1119.110	1124.023
170	1165.418	1165.010	1164.262	1164.959	1166.115	1167.696	1169.821	1171.300	1173.442	1175.244
175	1205.980	1205.521	1205.011	1205.045	1205.453	1206.388	1207.748	1208.156	1208.734	1208.972
180	1218.900	1218.900	1218.900	1218.900	1218.900	1218.900	1218.900	1218.900	1218.900	1218.900

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	32.572	33.082	33.694	34.391	35.071	35.734	36.312	36.669	36.822
100	76.891	78.812	80.835	82.909	84.762	86.377	87.720	88.672	89.029
105	134.810	138.380	142.103	145.809	149.243	152.150	154.445	156.077	156.689
110	201.365	206.686	212.177	217.515	222.445	226.542	229.772	232.016	232.866
115	273.530	280.551	287.674	294.661	301.053	306.238	310.250	313.089	314.092
120	345.253	353.804	362.593	371.229	378.862	384.846	389.640	393.040	394.213
125	422.467	432.582	442.986	452.761	461.312	468.180	473.671	477.598	478.992
130	510.476	520.914	532.542	543.796	552.347	559.946	565.896	570.146	571.727
135	601.630	613.462	625.515	637.823	645.949	653.650	659.889	664.326	665.975
140	696.711	709.087	723.469	731.714	740.860	748.136	754.341	758.676	760.138
145	793.815	808.384	816.221	826.013	834.513	841.092	846.770	850.816	852.193
150	888.709	899.147	908.531	916.963	926.007	933.725	937.125	939.114	940.032
155	979.217	991.117	997.577	1001.045	1006.434	1010.769	1014.492	1017.331	1018.351
160	1059.083	1065.118	1070.354	1074.927	1078.769	1081.761	1084.872	1087.796	1088.816
165	1130.670	1135.056	1136.875	1136.654	1137.266	1138.031	1139.629	1141.040	1141.516
170	1176.876	1178.848	1180.089	1180.480	1180.650	1180.786	1181.704	1182.724	1182.979
175	1208.887	1209.550	1209.380	1208.292	1207.391	1206.473	1206.643	1207.221	1207.408
180	1218.900	1218.900	1218.900	1218.900	1218.900	1218.900	1218.900	1218.900	1218.900

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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	182.21	N.A.	6.90
90-120	449.56	N.A.	17.00
90-130	824.81	N.A.	31.10
90-150	1774.86	N.A.	66.90
90-180	2651.28	N.A.	100.00
110-180	2469.07	N.A.	93.10
0-180	2651.28	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	38.78
100-110	143.42
110-120	267.35
120-130	375.25
130-140	459.00
140-150	491.05
150-160	446.69
160-170	315.52
170-180	114.20

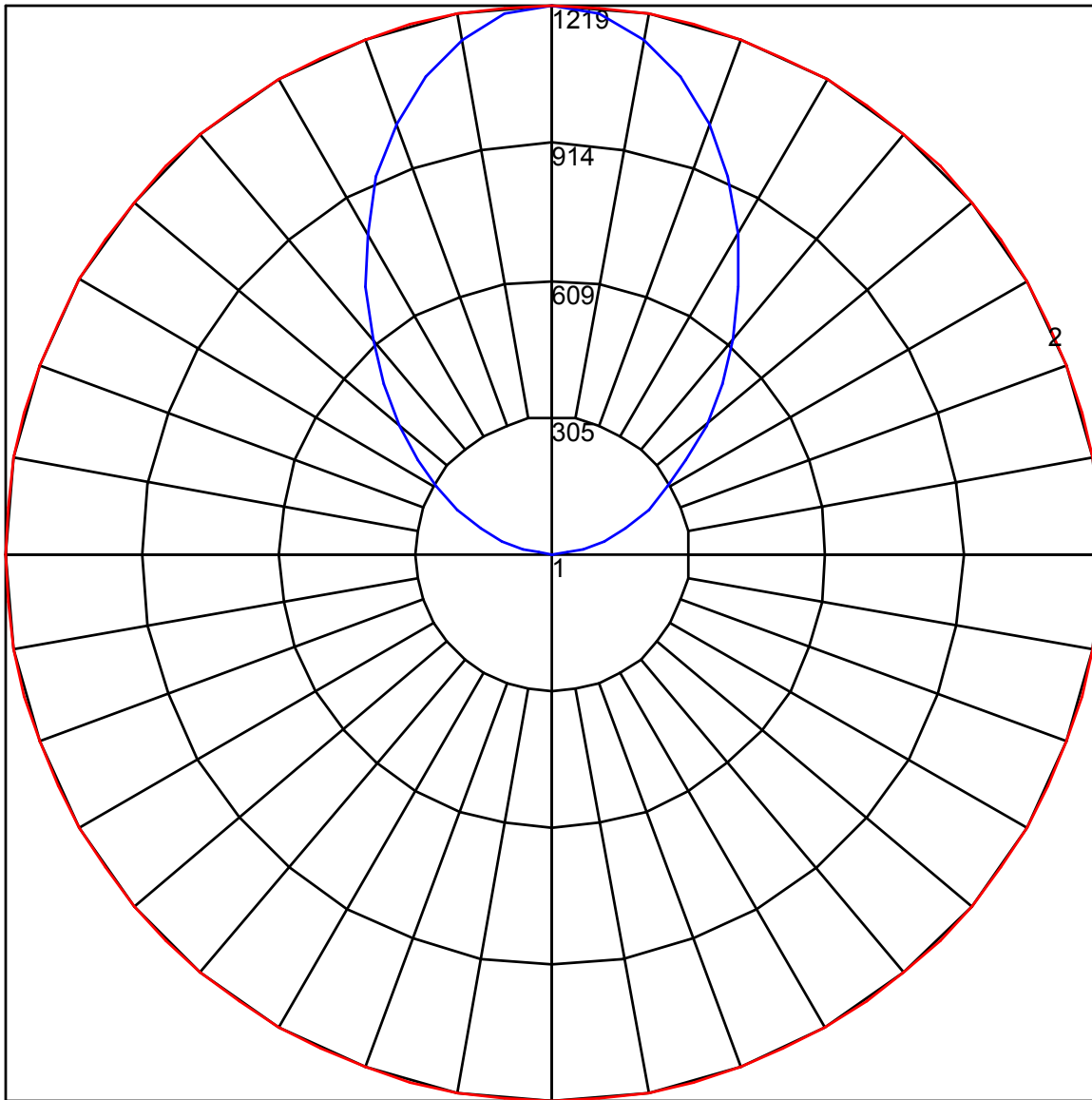
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1218.9 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.)