



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-LIN-LED4-MO-CW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L021507504R01
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 3/4/2015
 [MANUFACTURER] PRUDENTIAL LTG.
 [LUMEN CATEGORY] BIO-SUS-LED4-MO-CW
 [LUMINAIRE] 4-1/2"L. X 48"W. X 5"H. LED LUMINAIRE
 [MORE] LEDS WITH OPTICS
 [BALLAST CATEGORY] OSRAM OPTOTRONIC
 [BALLAST] INPUT: 120-277VAC
 [LAMP POSITION] 0,0
 [LAMP CATEGORY] 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	2959
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BIO-LIN-LED4-MO-CW.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BIO-LIN-LED4-MO-CW.IES

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	142.503	147.857	160.860	187.792	228.042	285.285	343.595	359.975	307.720	210.140
100	842.957	861.140	884.485	915.933	927.237	878.710	743.207	557.638	372.715	215.268
105	1021.352	1016.645	989.222	943.933	864.535	753.620	624.925	497.683	375.235	257.267
110	1007.615	999.163	970.987	919.695	840.928	741.825	629.510	515.638	411.425	317.678
115	961.940	952.315	928.620	878.500	812.770	732.497	639.100	544.495	455.560	380.783
120	933.415	926.030	902.230	862.470	805.805	736.768	659.400	579.023	502.022	436.467
125	917.543	911.400	888.388	854.087	807.485	749.000	682.727	612.028	546.070	486.483
130	898.503	893.025	874.283	841.260	800.817	752.605	694.173	634.970	578.008	527.765
135	865.585	859.688	843.832	815.482	781.462	739.638	691.128	642.005	595.683	555.730
140	815.097	808.168	792.768	771.558	745.465	712.408	674.538	638.820	603.628	573.038
145	754.442	749.753	738.273	722.820	703.885	680.313	655.357	630.000	604.607	580.878
150	701.628	697.970	690.847	681.590	670.425	655.200	638.575	620.533	602.525	582.872
155	664.947	663.722	658.857	652.173	644.910	635.460	623.875	610.592	597.135	581.962
160	635.740	637.053	632.747	628.880	624.067	617.575	609.158	600.145	590.625	580.090
165	611.800	611.660	609.245	606.742	603.435	599.655	594.597	589.173	583.607	577.867
170	592.918	592.200	589.610	589.313	587.860	586.495	584.622	582.033	579.985	577.622
175	582.278	580.352	581.035	579.985	579.617	579.705	580.178	579.635	579.285	578.673
180	577.500	577.500	577.500	577.500	577.500	577.500	577.500	577.500	577.500	577.500

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BIO-LIN-LED4-MO-CW.IES

CANDELA TABULATION - (Cont.)

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	124.600	78.382	56.928	47.513	43.873	43.435	40.093	30.065	24.955
100	159.775	119.315	104.090	98.263	93.502	85.120	74.165	61.932	55.773
105	209.440	171.360	153.195	143.885	136.412	126.157	111.650	98.192	92.470
110	259.158	228.515	208.827	197.680	186.550	170.520	152.530	138.775	133.315
115	322.490	289.870	272.370	256.288	237.650	215.792	196.105	182.542	177.607
120	386.558	353.342	327.285	304.798	283.553	259.683	239.488	226.468	221.865
125	440.930	407.733	380.748	354.952	325.045	300.860	283.692	271.390	267.418
130	487.690	455.368	427.175	399.105	371.298	344.365	326.130	316.540	313.058
135	521.885	492.188	464.327	435.592	408.327	385.298	367.675	357.455	354.515
140	544.442	517.230	490.840	463.400	438.777	417.935	402.920	394.152	391.668
145	556.360	532.928	508.777	485.293	464.502	447.720	435.575	428.942	427.087
150	563.010	543.060	523.128	504.228	488.460	475.668	467.320	462.473	461.108
155	566.178	551.600	536.235	523.215	512.260	502.705	496.965	494.375	493.465
160	569.293	559.702	549.798	541.065	533.750	526.908	524.195	522.410	522.340
165	572.268	566.143	561.400	556.447	551.862	548.240	546.805	545.440	544.810
170	574.245	572.617	570.535	567.857	565.617	562.957	563.133	562.590	562.835
175	577.518	577.150	575.837	574.945	574.245	572.128	572.513	572.810	572.390
180	577.500	577.500	577.500	577.500	577.500	577.500	577.500	577.500	577.500

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BIO-LIN-LED4-MO-CW.IES

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	670.84	N.A.	22.70
90-120	1160.88	N.A.	39.20
90-130	1652.59	N.A.	55.80
90-150	2472.05	N.A.	83.50
90-180	2959.37	N.A.	100.00
110-180	2288.53	N.A.	77.30
0-180	2959.37	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	199.01
100-110	471.83
110-120	490.04
120-130	491.71
130-140	452.27
140-150	367.19
150-160	268.34
160-170	163.88
170-180	55.10

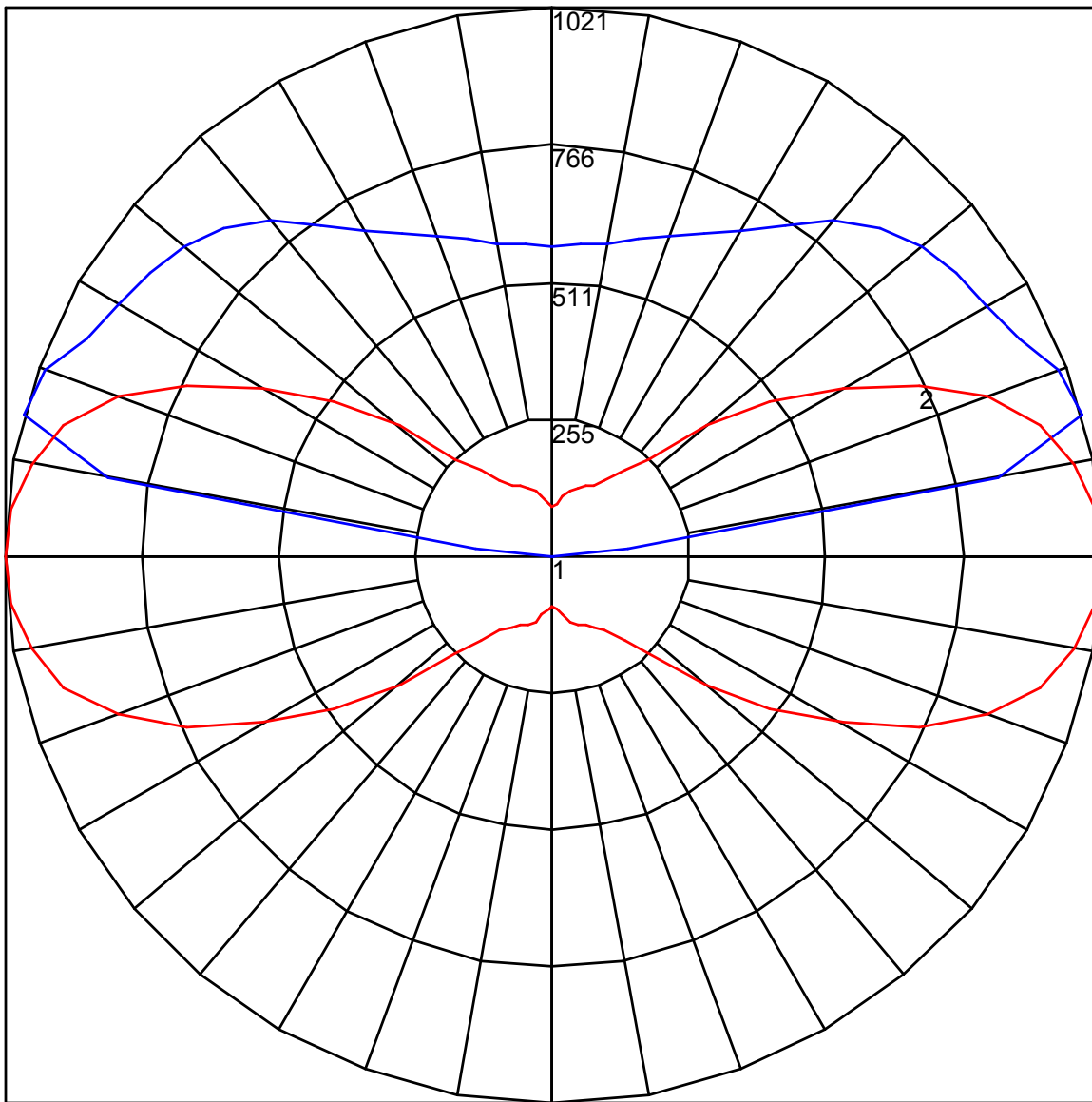
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BIO-LIN-LED4-MO-CW.IES

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	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 = 1021.352 Located At Horizontal Angle = 0, Vertical Angle = 105
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (105) (Through Max. Cd.)