



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-LIN-LED4-SO-04-ABW-D1X.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L041412303R02
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 6/18/2015
 [MANUFAC] PRUDENTIAL LIGHTING
 [LUMCAT] BIO-LIN-LED4-SO-04-ABW-D1X
 [LUMINAIRE] 48-1/8"L X 5-1/2"W X 5-5/8"H. LED LUMINAIRE.
 [MORE] DIFFUSED LENS.
 [BALLASTCAT] OSRAM OPTOTRONIC
 [BALLAST] INPUT: 120-277VAC,
 [LAMPCAT] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [_TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3462
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	39
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.44
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8268	11109	10268
55	7434	9907	7645
65	6586	8333	5830
75	5508	6092	4247
85	4293	3689	2987

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	1205.691	1205.691	1205.691	1205.691	1205.691	1205.691	1205.691	1205.691	1205.691	1205.691
5	1194.186	1194.730	1195.894	1197.872	1200.588	1205.264	1210.153	1214.847	1218.883	1223.073
10	1171.120	1172.439	1176.455	1183.206	1191.548	1202.936	1215.488	1228.078	1240.048	1251.998
15	1134.240	1136.801	1145.240	1157.598	1173.875	1193.857	1214.944	1235.819	1255.665	1274.153
20	1083.820	1088.224	1100.950	1120.583	1145.298	1173.099	1202.102	1228.893	1253.376	1274.910
25	1021.720	1027.773	1045.059	1071.481	1103.278	1137.616	1171.547	1201.791	1227.069	1247.614
30	948.835	956.498	978.129	1010.158	1047.464	1085.993	1122.406	1152.651	1176.319	1194.148
35	867.432	876.337	900.800	936.962	977.624	1018.345	1054.293	1083.141	1104.229	1119.671
40	778.891	788.416	814.722	852.320	894.068	934.673	969.709	996.384	1015.687	1029.771
45	687.109	697.314	724.086	759.025	799.513	837.886	870.711	895.349	912.867	923.207
50	593.213	603.767	631.955	667.418	696.169	731.496	761.489	783.042	795.730	800.134
55	501.160	510.065	530.668	560.641	591.254	618.724	645.322	668.990	670.445	667.864
60	420.282	425.073	442.281	466.939	496.058	519.396	542.463	558.836	556.237	547.604
65	327.123	335.659	344.486	363.886	387.185	407.516	422.571	428.779	426.645	413.880
70	246.749	249.620	255.886	267.933	284.210	295.307	304.367	309.023	304.599	291.815
75	167.558	168.780	172.136	180.439	182.961	192.293	198.792	199.878	195.009	185.328
80	99.735	98.106	100.162	97.524	101.986	105.885	107.864	107.146	103.596	98.183
85	43.980	42.117	40.003	40.119	40.643	40.992	40.895	40.294	39.188	37.791
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	50	55	60	65	70	75	80	85	90
0	1205.691	1205.691	1205.691	1205.691	1205.691	1205.691	1205.691	1205.691	1205.691
5	1227.011	1230.697	1234.383	1236.866	1238.826	1240.630	1242.163	1243.598	1245.480
10	1262.959	1272.892	1282.010	1289.363	1295.707	1300.091	1303.370	1307.211	1309.616
15	1290.294	1304.146	1316.445	1325.951	1334.371	1339.783	1343.295	1347.330	1347.931
20	1292.506	1306.396	1317.726	1326.669	1333.246	1336.932	1339.473	1342.364	1341.995
25	1263.076	1274.173	1283.194	1289.421	1293.456	1295.551	1296.599	1298.054	1299.179
30	1206.505	1215.585	1222.860	1227.710	1230.697	1232.152	1232.501	1234.422	1235.179
35	1130.807	1138.761	1145.085	1147.859	1148.286	1147.452	1146.598	1146.986	1147.238
40	1038.715	1043.526	1044.593	1040.635	1034.854	1027.987	1023.001	1020.110	1018.946
45	926.641	923.459	914.710	900.742	885.668	872.011	861.903	855.909	853.309
50	794.663	781.607	761.625	739.567	718.343	699.661	685.324	677.370	675.489
55	653.353	631.276	605.649	579.788	556.993	539.184	524.537	516.292	515.380
60	527.777	504.633	476.289	452.486	432.135	414.287	403.675	397.913	397.293
65	393.451	370.676	348.579	329.082	314.687	302.524	295.268	290.088	289.584
70	274.840	257.302	241.064	228.125	217.649	210.471	205.446	202.226	201.488
75	173.591	162.553	152.659	144.724	138.846	134.694	131.571	129.844	129.185
80	92.189	87.009	82.469	78.880	76.164	74.069	72.614	71.799	71.470
85	36.317	34.978	33.814	32.805	31.991	31.292	30.865	30.613	30.594
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	471.84	N.A.	13.60
0-30	1026.13	N.A.	29.60
0-40	1692.29	N.A.	48.90
0-60	2877.65	N.A.	83.10
0-80	3416.73	N.A.	98.70
0-90	3461.57	N.A.	100.00
10-90	3344.33	N.A.	96.60
20-40	1220.45	N.A.	35.30
20-50	1875.48	N.A.	54.20
40-70	1544.95	N.A.	44.60
60-80	539.07	N.A.	15.60
70-80	179.48	N.A.	5.20
80-90	44.84	N.A.	1.30
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	3461.57	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	117.23
10-20	354.61
20-30	554.29
30-40	666.16
40-50	655.03
50-60	530.33
60-70	359.59
70-80	179.48
80-90	44.84
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

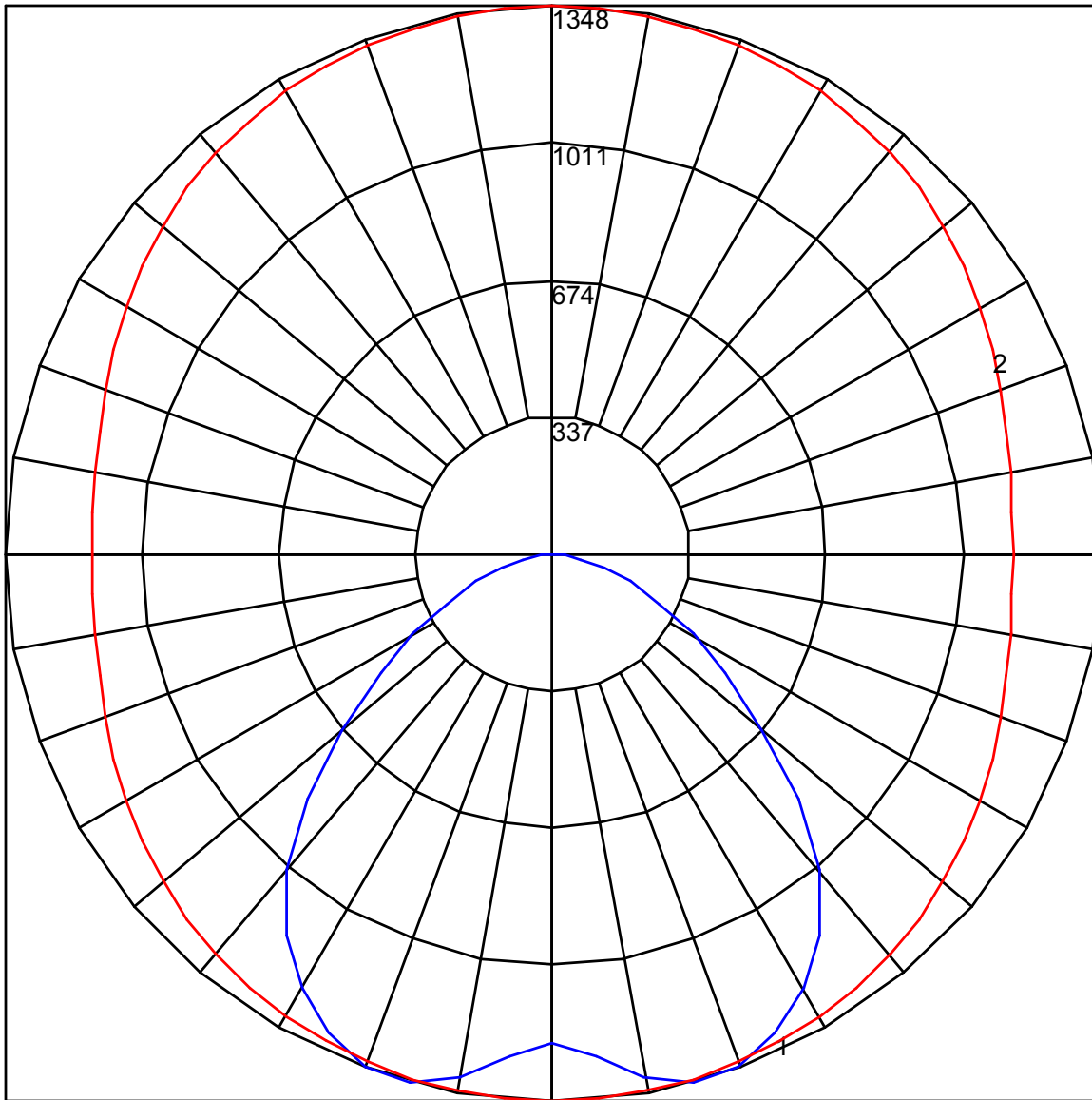
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	105	101	97	107	103	99	96	98	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1347.931 Located At Horizontal Angle = 90, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)