



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO2-LIN-LED35-SO-ACW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] BIO2-LIN-LED35-SO-ACW

[TESTLAB] Intertek

[ISSUE DATE]

[MANUFAC] Prudential Ltg

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2951
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	33.4
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)	4.00 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	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

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.493	0.000	0.493
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	14.133	13.650	10.783	0.000	0.000	0.000	0.000	0.000	0.000
92.5	107.068	157.227	189.745	74.413	2.163	3.748	7.875	6.825	10.437	6.825
95.0	267.666	516.925	432.169	136.804	16.159	12.085	25.410	26.334	27.562	26.334
97.5	588.808	1196.055	529.945	190.732	34.576	26.376	33.253	37.894	39.742	37.894
100.0	1330.980	1898.431	509.218	232.858	52.741	54.306	35.574	44.950	43.669	44.950
102.5	2039.709	1815.639	528.832	264.232	75.222	60.868	47.092	44.593	46.074	44.593
105.0	2043.562	1598.068	569.835	299.040	96.610	63.094	88.746	49.707	48.352	49.707
107.5	1901.109	1491.861	599.739	336.861	119.458	66.202	114.880	80.787	64.281	80.787
110.0	1807.690	1441.818	629.233	379.701	142.842	70.843	118.765	123.606	112.801	123.606
112.5	1732.132	1415.442	658.854	422.877	166.677	74.812	116.382	143.262	142.579	143.262
115.0	1687.024	1393.560	691.960	464.194	188.905	82.624	114.838	148.039	150.612	148.039
117.5	1654.600	1376.382	727.188	499.338	213.517	87.895	116.004	144.259	151.714	144.259
120.0	1624.906	1358.742	765.765	525.850	240.891	95.928	118.167	141.582	149.341	141.582
122.5	1594.456	1342.561	804.835	543.396	266.742	106.564	119.248	143.745	147.304	143.745
125.0	1559.428	1328.407	838.582	556.311	292.687	125.034	121.957	145.215	149.835	145.215
127.5	1532.065	1313.319	865.242	565.750	320.082	145.530	123.921	148.774	153.762	148.774
130.0	1498.392	1295.458	882.598	575.925	347.371	164.041	124.540	153.625	158.581	153.625
132.5	1463.920	1270.426	887.166	586.047	374.209	178.069	127.753	154.434	161.983	154.434

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CANDELA TABULATION - (Cont.)

135.0	1416.849	1233.372	883.249	596.400	402.307	190.722	132.520	155.620	164.640	155.620
137.5	1357.461	1185.681	873.285	606.238	429.870	209.958	139.671	156.313	163.422	156.313
140.0	1285.714	1134.346	861.315	617.022	453.810	245.983	152.974	157.080	162.151	157.080
142.5	1210.608	1082.025	846.037	626.220	476.154	298.221	175.381	155.515	162.078	155.515
145.0	1140.804	1033.273	831.673	635.439	498.529	354.112	205.842	158.749	164.293	158.749
147.5	1080.219	991.063	816.931	641.004	522.238	404.533	235.777	163.737	167.517	163.737
150.0	1026.018	949.788	802.515	647.944	543.396	445.242	256.126	175.770	184.180	175.770
152.5	979.293	915.747	788.802	653.719	562.642	469.896	270.007	202.933	234.685	202.933
155.0	940.117	884.992	773.755	662.088	582.844	479.577	285.190	247.821	312.469	247.821
157.5	901.351	856.327	761.302	667.432	600.894	488.901	309.613	310.075	395.503	310.075
160.0	867.940	829.983	749.752	671.391	615.688	511.591	354.259	372.214	467.502	372.214
162.5	835.443	803.796	739.084	677.460	630.619	546.861	414.498	428.946	520.611	428.946
165.0	804.835	780.591	729.046	681.807	644.290	577.888	468.678	486.402	559.776	486.402
167.5	775.992	758.404	721.224	686.217	656.932	605.178	526.575	542.125	590.961	542.125
170.0	751.023	739.116	713.884	688.684	668.629	630.136	584.451	589.606	615.688	589.606
172.5	732.364	722.515	705.831	691.761	679.024	652.260	626.472	621.936	632.436	621.936
175.0	713.023	707.773	697.441	691.194	685.671	666.435	651.189	645.907	649.393	645.907
177.5	695.383	692.443	689.052	688.275	690.238	677.103	666.865	663.316	665.983	663.316
180.0	681.691	681.691	681.691	681.691	681.691	681.691	681.691	681.691	681.691	681.691

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	10.783	13.650	14.133	0.000
92.5	7.875	3.748	2.163	74.413	189.745	157.227	107.068
95.0	25.410	12.085	16.159	136.804	432.169	516.925	267.666
97.5	33.253	26.376	34.576	190.732	529.945	1196.055	588.808
100.0	35.574	54.306	52.741	232.858	509.218	1898.431	1330.980
102.5	47.092	60.868	75.222	264.232	528.832	1815.639	2039.709
105.0	88.746	63.094	96.610	299.040	569.835	1598.068	2043.562
107.5	114.880	66.202	119.458	336.861	599.739	1491.861	1901.109
110.0	118.765	70.843	142.842	379.701	629.233	1441.818	1807.690
112.5	116.382	74.812	166.677	422.877	658.854	1415.442	1732.132
115.0	114.838	82.624	188.905	464.194	691.960	1393.560	1687.024
117.5	116.004	87.895	213.517	499.338	727.188	1376.382	1654.600
120.0	118.167	95.928	240.891	525.850	765.765	1358.742	1624.906
122.5	119.248	106.564	266.742	543.396	804.835	1342.561	1594.456
125.0	121.957	125.034	292.687	556.311	838.582	1328.407	1559.428
127.5	123.921	145.530	320.082	565.750	865.242	1313.319	1532.065
130.0	124.540	164.041	347.371	575.925	882.598	1295.458	1498.392
132.5	127.753	178.069	374.209	586.047	887.166	1270.426	1463.920
135.0	132.520	190.722	402.307	596.400	883.249	1233.372	1416.849
137.5	139.671	209.958	429.870	606.238	873.285	1185.681	1357.461
140.0	152.974	245.983	453.810	617.022	861.315	1134.346	1285.714
142.5	175.381	298.221	476.154	626.220	846.037	1082.025	1210.608
145.0	205.842	354.112	498.529	635.439	831.673	1033.273	1140.804
147.5	235.777	404.533	522.238	641.004	816.931	991.063	1080.219
150.0	256.126	445.242	543.396	647.944	802.515	949.788	1026.018
152.5	270.007	469.896	562.642	653.719	788.802	915.747	979.293
155.0	285.190	479.577	582.844	662.088	773.755	884.992	940.117
157.5	309.613	488.901	600.894	667.432	761.302	856.327	901.351
160.0	354.259	511.591	615.688	671.391	749.752	829.983	867.940
162.5	414.498	546.861	630.619	677.460	739.084	803.796	835.443
165.0	468.678	577.888	644.290	681.807	729.046	780.591	804.835
167.5	526.575	605.178	656.932	686.217	721.224	758.404	775.992
170.0	584.451	630.136	668.629	688.684	713.884	739.116	751.023
172.5	626.472	652.260	679.024	691.761	705.831	722.515	732.364
175.0	651.189	666.435	685.671	691.194	697.441	707.773	713.023
177.5	666.865	677.103	690.238	688.275	689.052	692.443	695.383
180.0	681.691	681.691	681.691	681.691	681.691	681.691	681.691

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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	0.66	N.A.	0.00
10-90	0.66	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	0.66	N.A.	0.00
90-110	704.01	N.A.	23.90
90-120	1200.32	N.A.	40.70
90-130	1677.78	N.A.	56.90
90-150	2444.71	N.A.	82.80
90-180	2950.31	N.A.	100.00
110-180	2246.3	N.A.	76.10
0-180	2950.97	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	0.66
90-100	202.42
100-110	501.59
110-120	496.31
120-130	477.46
130-140	423.50
140-150	343.44
150-160	263.47
160-170	177.87
170-180	64.26

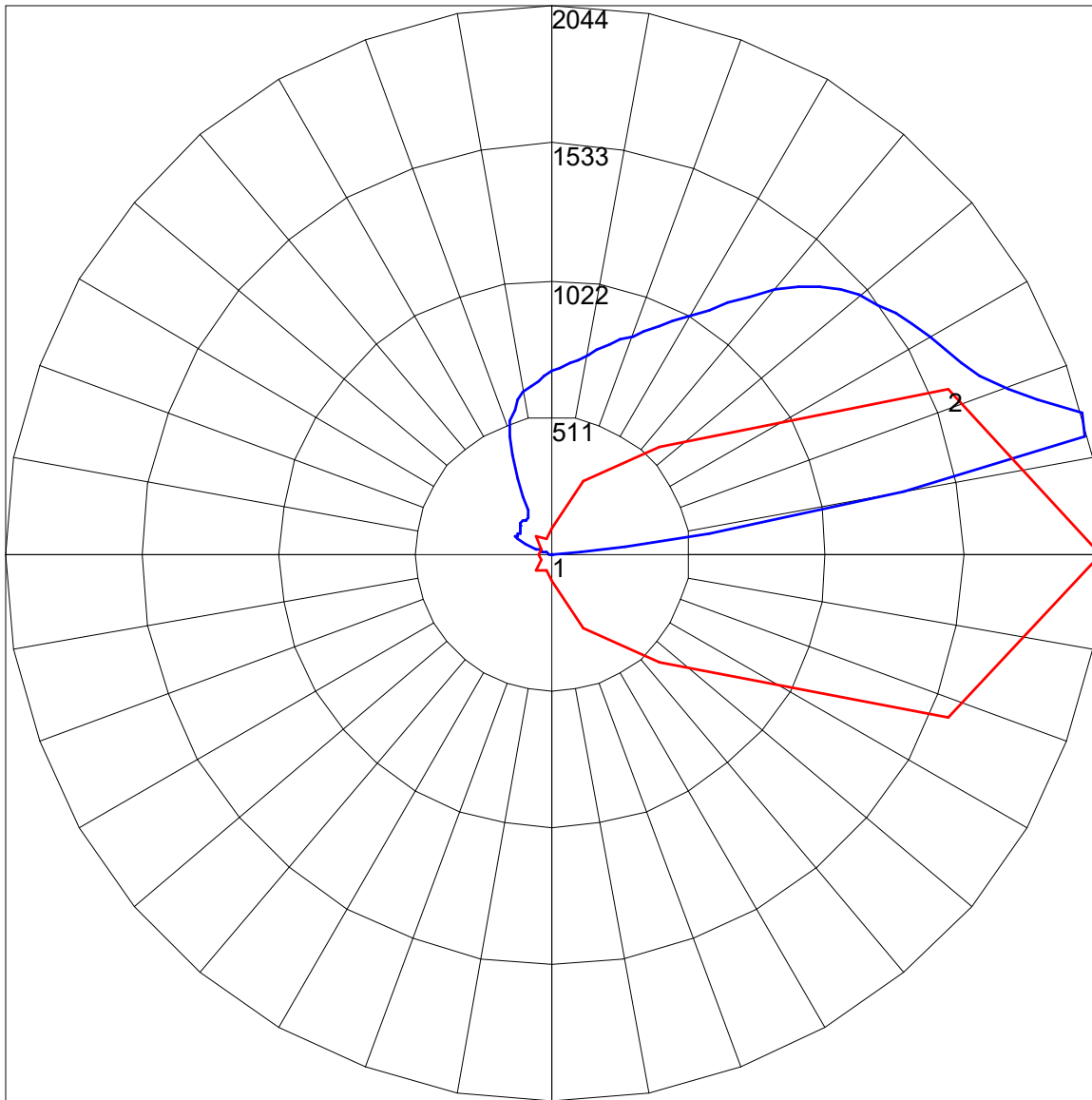
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	27	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 = 2043.562 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.)