



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO2-LIN-LED35-SO-MWG-D1G.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] BIO2-LIN-LED35-SO-MWG-D1G

[TESTLAB] Intertek Lake Forest

[ISSUE DATE] April 7, 2016

[MANUFAC] Prudential Ltg

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2783
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	39
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	0.70
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.23 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5892	6301	23991
55	5330	5200	18072
65	4456	4445	12115
75	3353	3589	7387
85	2275	2147	3509

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	2556.22	2556.22	2556.22	2556.22	2556.22	2556.22	2556.22	2556.22	2556.22	2556.22
2.5	2445.61	2454.47	2483.63	2537.04	2549.80	2537.04	2483.63	2454.47	2445.61	2466.84
5.0	2151.75	2189.63	2301.09	2470.58	2543.49	2470.58	2301.09	2189.63	2151.75	2207.18
7.5	1828.53	1884.09	2067.81	2366.94	2533.04	2366.94	2067.81	1884.09	1828.53	1902.92
10.0	1551.38	1610.42	1829.96	2236.25	2518.39	2236.25	1829.96	1610.42	1551.38	1626.33
12.5	1331.59	1389.44	1615.66	2084.89	2498.85	2084.89	1615.66	1389.44	1331.59	1404.72
15.0	1153.36	1209.45	1426.30	1927.64	2472.91	1927.64	1426.30	1209.45	1153.36	1224.49
17.5	1004.32	1058.50	1268.09	1775.34	2442.36	1775.34	1268.09	1058.50	1004.32	1071.05
20.0	878.20	933.17	1130.57	1624.87	2402.78	1624.87	1130.57	933.17	878.20	939.95
22.5	772.08	823.05	1008.65	1486.53	2355.24	1486.53	1008.65	823.05	772.08	828.86
25.0	681.06	724.50	899.38	1360.64	2304.71	1360.64	899.38	724.50	681.06	730.46
27.5	607.55	642.81	803.28	1244.37	2235.83	1244.37	803.28	642.81	607.55	648.19
30.0	547.41	576.14	716.52	1136.28	2160.33	1136.28	716.52	576.14	547.41	579.80
32.5	499.87	521.06	640.26	1036.24	2072.90	1036.24	640.26	521.06	499.87	524.80
35.0	460.74	474.98	572.09	939.63	1965.18	939.63	572.09	474.98	460.74	479.08
37.5	429.29	436.85	513.46	851.34	1851.92	851.34	513.46	436.85	429.29	439.72
40.0	401.57	406.24	462.94	767.95	1721.77	767.95	462.94	406.24	401.57	407.49
42.5	377.05	377.62	418.48	687.07	1590.80	687.07	418.48	377.62	377.05	379.43
45.0	355.13	352.68	379.78	615.23	1446.04	615.23	379.78	352.68	355.13	354.29
47.5	331.62	327.73	342.63	547.15	1302.63	547.15	342.63	327.73	331.62	331.49
50.0	308.36	304.34	309.86	485.40	1155.72	485.40	309.86	304.34	308.36	307.27
52.5	283.47	280.58	280.65	427.44	1016.11	427.44	280.65	280.58	283.47	284.30
55.0	260.61	258.50	254.25	375.20	883.60	375.20	254.25	258.50	260.61	260.26
57.5	234.88	234.38	229.18	327.58	757.25	327.58	229.18	234.38	234.88	237.59
60.0	209.42	211.81	204.51	283.23	639.92	283.23	204.51	211.81	209.42	214.23
62.5	185.01	189.49	182.03	244.04	533.36	244.04	182.03	189.49	185.01	191.86
65.0	160.54	166.80	160.12	206.94	436.42	206.94	160.12	166.80	160.54	168.48
67.5	135.74	145.58	138.08	173.83	351.53	173.83	138.08	145.58	135.74	147.98
70.0	112.68	123.12	117.87	144.17	277.21	144.17	117.87	123.12	112.68	124.53
72.5	93.25	102.53	97.86	117.20	215.76	117.20	97.86	102.53	93.25	103.44
75.0	73.98	81.02	79.17	91.64	162.97	91.64	79.17	81.02	73.98	83.96
77.5	56.84	63.29	62.06	68.85	117.81	68.85	62.06	63.29	56.84	65.36
80.0	41.48	46.54	44.36	48.56	78.67	48.56	44.36	46.54	41.48	48.30
82.5	27.88	31.12	29.27	30.66	49.71	30.66	29.27	31.12	27.88	32.21
85.0	16.90	17.13	15.95	16.20	26.07	16.20	15.95	17.13	16.90	19.73
87.5	7.62	8.17	6.70	5.56	8.75	5.56	6.70	8.17	7.62	9.43
90.0	3.17	2.16	1.49	1.36	1.24	1.36	1.49	2.16	3.17	3.46
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	2556.22	2556.22	2556.22	2556.22	2556.22	2556.22	2556.22
2.5	2501.14	2548.89	2547.78	2548.89	2501.14	2466.84	2445.61
5.0	2338.76	2499.25	2540.12	2499.25	2338.76	2207.18	2151.75
7.5	2111.75	2408.27	2527.69	2408.27	2111.75	1902.92	1828.53
10.0	1870.38	2287.02	2511.00	2287.02	1870.38	1626.33	1551.38
12.5	1648.33	2143.90	2487.30	2143.90	1648.33	1404.72	1331.59
15.0	1457.07	1989.83	2459.87	1989.83	1457.07	1224.49	1153.36
17.5	1295.92	1831.84	2424.06	1831.84	1295.92	1071.05	1004.32
20.0	1154.87	1679.70	2382.27	1679.70	1154.87	939.95	878.20
22.5	1029.35	1537.26	2334.60	1537.26	1029.35	828.86	772.08
25.0	918.67	1407.79	2276.34	1407.79	918.67	730.46	681.06
27.5	819.80	1289.07	2208.60	1289.07	819.80	648.19	607.55
30.0	730.95	1178.18	2129.66	1178.18	730.95	579.80	547.41
32.5	651.98	1073.75	2036.06	1073.75	651.98	524.80	499.87
35.0	582.96	974.80	1930.30	974.80	582.96	479.08	460.74
37.5	523.23	881.51	1814.76	881.51	523.23	439.72	429.29
40.0	471.66	796.12	1689.99	796.12	471.66	407.49	401.57
42.5	426.19	715.79	1555.61	715.79	426.19	379.43	377.05
45.0	384.82	639.76	1415.44	639.76	384.82	354.29	355.13
47.5	348.87	569.97	1272.99	569.97	348.87	331.49	331.62
50.0	315.64	506.32	1129.91	506.32	315.64	307.27	308.36
52.5	286.99	446.32	992.15	446.32	286.99	284.30	283.47
55.0	258.25	392.00	859.09	392.00	258.25	260.26	260.61
57.5	233.11	341.15	734.43	341.15	233.11	237.59	234.88
60.0	208.67	296.86	618.44	296.86	208.67	214.23	209.42
62.5	186.09	255.47	512.35	255.47	186.09	191.86	185.01
65.0	164.24	217.65	419.23	217.65	164.24	168.48	160.54
67.5	143.04	182.67	337.01	182.67	143.04	147.98	135.74
70.0	121.81	153.43	264.38	153.43	121.81	124.53	112.68
72.5	102.70	125.28	204.55	125.28	102.70	103.44	93.25
75.0	83.07	98.83	155.26	98.83	83.07	83.96	73.98
77.5	64.27	75.59	111.70	75.59	64.27	65.36	56.84
80.0	47.99	53.61	77.22	53.61	47.99	48.30	41.48

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CANDELA TABULATION - (Cont.)

82.5	31.57	36.55	45.61	36.55	31.57	32.21	27.88
85.0	18.87	19.52	23.86	19.52	18.87	19.73	16.90
87.5	7.04	8.19	7.17	8.19	7.04	9.43	7.62
90.0	1.85	1.78	0.64	1.78	1.85	3.46	3.17
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	660.83	N.A.	23.70
0-30	1180.52	N.A.	42.40
0-40	1684.8	N.A.	60.50
0-60	2449.31	N.A.	88.00
0-80	2758.83	N.A.	99.10
0-90	2782.27	N.A.	100.00
10-90	2571.99	N.A.	92.40
20-40	1023.96	N.A.	36.80
20-50	1459.82	N.A.	52.50
40-70	973.15	N.A.	35.00
60-80	309.52	N.A.	11.10
70-80	100.89	N.A.	3.60
80-90	23.44	N.A.	0.80
90-110	0.28	N.A.	0.00
90-120	0.28	N.A.	0.00
90-130	0.28	N.A.	0.00
90-150	0.28	N.A.	0.00
90-180	0.28	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2782.55	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	210.28
10-20	450.55
20-30	519.68
30-40	504.28
40-50	435.86
50-60	328.66
60-70	208.64
70-80	100.89
80-90	23.44
90-100	0.28
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

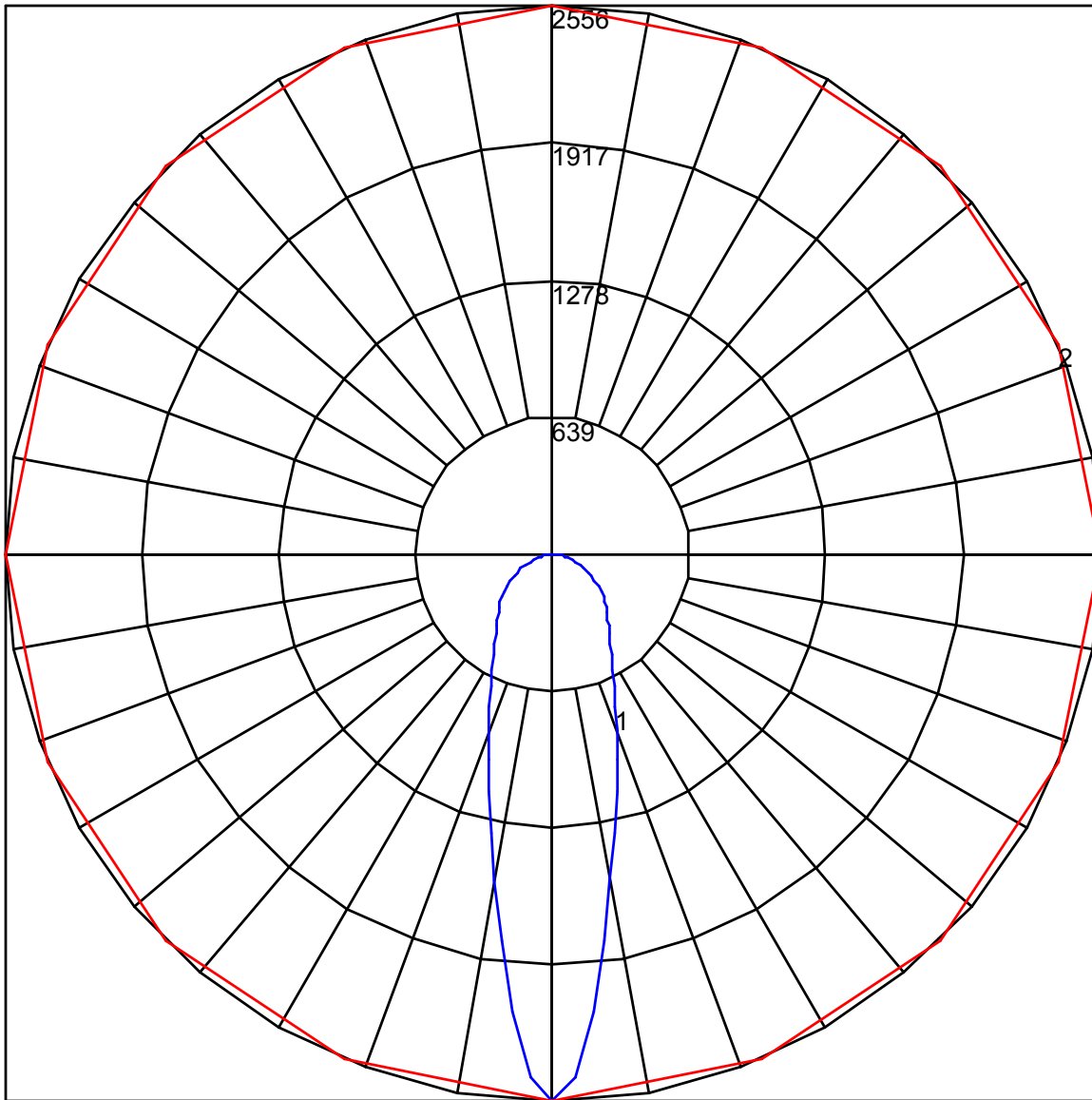
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	107	103	100	108	105	101	98	100	98	95	97	94	93	93	91	90	88
2	102	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	65	62	60
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44
8	68	56	48	43	66	55	48	43	54	47	43	53	47	42	51	46	42	40
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	37	59	48	41	36	47	41	36	46	40	36	45	40	36	34

POLAR GRAPH



Maximum Candela = 2556.22 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.)