



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-PSTD-REG3-LED35-MO-04-AWW-D1G.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]31680

[TESTLAB]

[ISSUE DATE]

[MANUFAC]PRUDENTIAL LIGHTING - LED LUMINAIRE

[LUMCAT]BIO-PSTD-REG3-LED35-MO-04-AWW-D1G

[LUMINAIRE]WITH WHITE INTERIOR AND LINEAR PRISMATIC PLASTIC FLAT LENS

[OTHER]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2092
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.40
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.08
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.03 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7771	8093	6942
55	6619	7094	5853
65	5820	5992	4688
75	5475	5408	3749
85	6184	5915	3092

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BIO-PSTD-REG3-LED35-MO-04-AWW-D1G.IES

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	1045.73	1045.73	1045.73	1045.73	1045.73	1045.73	1045.73	1045.73	1045.73	1045.73
2.5	1092.42	1089.41	1082.48	1061.06	1044.68	1020.60	1009.75	991.41	986.30	991.41
5.0	1120.21	1115.66	1103.48	1074.08	1041.04	994.84	955.85	920.64	910.21	920.64
7.5	1126.02	1125.53	1116.85	1081.85	1033.97	963.97	901.53	843.22	821.45	843.22
10.0	1133.37	1127.56	1116.92	1084.93	1025.36	928.13	835.73	742.56	710.36	742.56
12.5	1134.28	1130.08	1110.90	1082.62	1012.13	893.69	753.76	630.35	583.24	630.35
15.0	1122.24	1123.50	1110.76	1072.89	996.31	854.98	671.30	494.34	432.39	494.34
17.5	1097.04	1101.03	1099.14	1057.00	979.09	810.32	574.84	373.03	332.92	373.03
20.0	1067.71	1070.72	1078.63	1038.73	958.16	757.68	468.09	301.91	263.13	301.91
22.5	1052.94	1048.88	1052.24	1021.16	934.99	706.16	377.02	240.59	213.01	240.59
25.0	1042.72	1032.99	1019.83	997.29	910.77	650.23	312.13	200.41	179.06	200.41
27.5	1037.75	1024.73	994.49	975.17	880.88	594.65	259.91	168.84	150.99	168.84
30.0	1021.72	1014.02	972.09	941.85	852.04	532.28	215.95	142.87	125.37	142.87
32.5	984.27	986.30	954.52	907.27	815.92	472.92	183.40	119.84	101.92	119.84
35.0	942.97	946.75	930.86	869.68	780.78	412.16	156.59	97.72	82.04	97.72
37.5	897.26	900.55	897.82	831.53	741.72	357.63	133.84	79.87	67.48	79.87
40.0	846.37	850.99	856.87	797.23	699.16	308.35	113.54	66.50	55.44	66.50
42.5	792.82	798.42	804.93	759.78	655.06	266.63	94.57	55.09	45.99	55.09
45.0	735.84	743.68	751.31	720.37	607.04	230.51	79.52	45.85	38.15	45.85
47.5	682.64	690.06	698.53	678.86	559.51	195.93	66.29	38.08	30.73	38.08
50.0	627.69	639.17	647.36	630.91	508.97	163.87	55.02	30.87	21.49	30.87
52.5	574.28	587.30	596.68	580.51	463.89	137.97	45.08	21.14	7.77	21.14
55.0	526.54	535.08	549.08	529.06	416.50	116.20	36.26	8.05	0.00	8.05
57.5	480.06	486.08	500.99	480.20	370.30	96.74	28.56	2.10	0.00	2.10
60.0	438.48	440.79	452.62	432.95	327.18	79.87	20.09	1.54	0.00	1.54
62.5	398.02	400.82	406.91	387.10	285.67	64.68	9.73	1.33	0.00	1.33
65.0	360.78	362.95	357.21	347.48	247.10	51.31	7.21	1.26	0.00	1.26
67.5	327.67	328.44	314.23	308.00	212.59	39.83	6.51	1.19	0.00	1.19
70.0	295.05	295.26	279.58	272.93	180.04	29.96	6.30	0.84	0.00	0.84
72.5	263.83	263.90	247.10	237.16	150.29	21.07	5.53	0.77	0.00	0.77
75.0	232.96	234.22	216.44	199.01	122.43	14.00	5.11	0.70	0.00	0.70
77.5	204.54	205.73	187.67	156.45	97.02	12.04	4.62	0.56	0.00	0.56
80.0	180.60	178.85	161.56	128.24	74.48	10.36	4.13	0.35	0.00	0.35
82.5	157.43	154.07	136.92	103.74	55.44	8.75	3.50	0.35	0.00	0.35
85.0	134.89	130.62	113.61	81.06	35.91	7.07	3.08	0.14	0.00	0.14
87.5	118.44	112.77	93.10	60.34	20.37	5.74	2.80	0.07	0.00	0.07
90.0	104.72	99.19	79.66	45.85	7.21	5.39	2.87	0.07	0.00	0.07
92.5	91.84	86.80	67.97	36.40	11.76	5.39	2.80	0.14	0.00	0.14
95.0	79.73	75.11	57.33	29.05	11.48	4.83	2.66	0.14	0.00	0.14
97.5	68.39	63.98	47.88	22.54	10.99	4.48	2.45	0.07	0.00	0.07
100.0	57.89	53.69	39.41	16.38	10.08	4.27	2.24	0.07	0.00	0.07
102.5	48.09	44.52	31.57	11.76	9.17	4.20	1.96	0.00	0.00	0.00
105.0	38.99	36.12	24.15	10.01	8.12	3.92	1.82	0.00	0.00	0.00
107.5	31.08	28.35	17.57	9.03	7.28	3.71	1.68	0.00	0.00	0.00
110.0	23.66	21.49	11.90	8.12	6.72	3.50	1.54	0.00	0.00	0.00
112.5	17.08	14.98	7.00	7.49	5.95	3.15	1.33	0.00	0.00	0.00
115.0	10.92	9.10	5.32	6.65	5.25	2.94	1.26	0.00	0.00	0.00
117.5	5.60	4.06	4.83	6.09	4.83	2.52	1.12	0.00	0.00	0.00
120.0	0.77	0.98	4.13	5.67	4.27	2.45	0.98	0.00	0.00	0.00
122.5	0.00	0.70	3.64	5.04	3.71	2.17	0.84	0.00	0.00	0.00
125.0	0.00	0.49	3.15	4.41	3.22	1.89	0.77	0.00	0.00	0.00
127.5	0.00	0.28	2.73	3.85	2.94	1.68	0.56	0.00	0.00	0.00
130.0	0.00	0.14	2.38	3.36	2.59	1.47	0.49	0.00	0.00	0.00
132.5	0.00	0.00	1.96	2.94	2.24	1.33	0.28	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BIO-PSTD-REG3-LED35-MO-04-AWW-D1G.IES

CANDELA TABULATION - (Cont.)

135.0	0.00	0.00	1.75	2.59	1.96	1.05	0.28	0.00	0.00	0.00
137.5	0.00	0.00	1.54	2.24	1.82	0.98	0.14	0.00	0.00	0.00
140.0	0.00	0.00	1.19	2.03	1.47	0.70	0.07	0.00	0.00	0.00
142.5	0.00	0.00	0.91	1.61	1.26	0.56	0.07	0.00	0.00	0.00
145.0	0.00	0.00	0.70	1.26	1.05	0.49	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.56	1.05	0.77	0.42	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.28	0.84	0.63	0.28	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.28	0.63	0.56	0.14	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.07	0.42	0.28	0.28	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.28	0.21	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.14	0.07	0.07	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.14	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						
	<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	1045.73	1045.73	1045.73	1045.73	1045.73	1045.73	1045.73
2.5	1009.75	1020.60	1044.68	1061.06	1082.48	1089.41	1092.42
5.0	955.85	994.84	1041.04	1074.08	1103.48	1115.66	1120.21
7.5	901.53	963.97	1033.97	1081.85	1116.85	1125.53	1126.02
10.0	835.73	928.13	1025.36	1084.93	1116.92	1127.56	1133.37
12.5	753.76	893.69	1012.13	1082.62	1110.90	1130.08	1134.28
15.0	671.30	854.98	996.31	1072.89	1110.76	1123.50	1122.24
17.5	574.84	810.32	979.09	1057.00	1099.14	1101.03	1097.04
20.0	468.09	757.68	958.16	1038.73	1078.63	1070.72	1067.71
22.5	377.02	706.16	934.99	1021.16	1052.24	1048.88	1052.94
25.0	312.13	650.23	910.77	997.29	1019.83	1032.99	1042.72
27.5	259.91	594.65	880.88	975.17	994.49	1024.73	1037.75
30.0	215.95	532.28	852.04	941.85	972.09	1014.02	1021.72
32.5	183.40	472.92	815.92	907.27	954.52	986.30	984.27
35.0	156.59	412.16	780.78	869.68	930.86	946.75	942.97
37.5	133.84	357.63	741.72	831.53	897.82	900.55	897.26
40.0	113.54	308.35	699.16	797.23	856.87	850.99	846.37
42.5	94.57	266.63	655.06	759.78	804.93	798.42	792.82
45.0	79.52	230.51	607.04	720.37	751.31	743.68	735.84
47.5	66.29	195.93	559.51	678.86	698.53	690.06	682.64
50.0	55.02	163.87	508.97	630.91	647.36	639.17	627.69
52.5	45.08	137.97	463.89	580.51	596.68	587.30	574.28
55.0	36.26	116.20	416.50	529.06	549.08	535.08	526.54
57.5	28.56	96.74	370.30	480.20	500.99	486.08	480.06
60.0	20.09	79.87	327.18	432.95	452.62	440.79	438.48
62.5	9.73	64.68	285.67	387.10	406.91	400.82	398.02
65.0	7.21	51.31	247.10	347.48	357.21	362.95	360.78
67.5	6.51	39.83	212.59	308.00	314.23	328.44	327.67
70.0	6.30	29.96	180.04	272.93	279.58	295.26	295.05
72.5	5.53	21.07	150.29	237.16	247.10	263.90	263.83
75.0	5.11	14.00	122.43	199.01	216.44	234.22	232.96
77.5	4.62	12.04	97.02	156.45	187.67	205.73	204.54
80.0	4.13	10.36	74.48	128.24	161.56	178.85	180.60

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BIO-PSTD-REG3-LED35-MO-04-AWW-D1G.IES

CANDELA TABULATION - (Cont.)

82.5	3.50	8.75	55.44	103.74	136.92	154.07	157.43
85.0	3.08	7.07	35.91	81.06	113.61	130.62	134.89
87.5	2.80	5.74	20.37	60.34	93.10	112.77	118.44
90.0	2.87	5.39	7.21	45.85	79.66	99.19	104.72
92.5	2.80	5.39	11.76	36.40	67.97	86.80	91.84
95.0	2.66	4.83	11.48	29.05	57.33	75.11	79.73
97.5	2.45	4.48	10.99	22.54	47.88	63.98	68.39
100.0	2.24	4.27	10.08	16.38	39.41	53.69	57.89
102.5	1.96	4.20	9.17	11.76	31.57	44.52	48.09
105.0	1.82	3.92	8.12	10.01	24.15	36.12	38.99
107.5	1.68	3.71	7.28	9.03	17.57	28.35	31.08
110.0	1.54	3.50	6.72	8.12	11.90	21.49	23.66
112.5	1.33	3.15	5.95	7.49	7.00	14.98	17.08
115.0	1.26	2.94	5.25	6.65	5.32	9.10	10.92
117.5	1.12	2.52	4.83	6.09	4.83	4.06	5.60
120.0	0.98	2.45	4.27	5.67	4.13	0.98	0.77
122.5	0.84	2.17	3.71	5.04	3.64	0.70	0.00
125.0	0.77	1.89	3.22	4.41	3.15	0.49	0.00
127.5	0.56	1.68	2.94	3.85	2.73	0.28	0.00
130.0	0.49	1.47	2.59	3.36	2.38	0.14	0.00
132.5	0.28	1.33	2.24	2.94	1.96	0.00	0.00
135.0	0.28	1.05	1.96	2.59	1.75	0.00	0.00
137.5	0.14	0.98	1.82	2.24	1.54	0.00	0.00
140.0	0.07	0.70	1.47	2.03	1.19	0.00	0.00
142.5	0.07	0.56	1.26	1.61	0.91	0.00	0.00
145.0	0.00	0.49	1.05	1.26	0.70	0.00	0.00
147.5	0.00	0.42	0.77	1.05	0.56	0.00	0.00
150.0	0.00	0.28	0.63	0.84	0.28	0.00	0.00
152.5	0.00	0.14	0.56	0.63	0.28	0.00	0.00
155.0	0.00	0.28	0.28	0.42	0.07	0.00	0.00
157.5	0.00	0.00	0.21	0.28	0.00	0.00	0.00
160.0	0.00	0.07	0.07	0.14	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.14	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BIO-PSTD-REG3-LED35-MO-04-AWW-D1G.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	344.79	N.A.	16.50
0-30	676.15	N.A.	32.30
0-40	1043.71	N.A.	49.90
0-60	1663.29	N.A.	79.50
0-80	1978.24	N.A.	94.60
0-90	2039.73	N.A.	97.50
10-90	1943.36	N.A.	92.90
20-40	698.92	N.A.	33.40
20-50	1042.89	N.A.	49.90
40-70	813.72	N.A.	38.90
60-80	314.96	N.A.	15.10
70-80	120.82	N.A.	5.80
80-90	61.49	N.A.	2.90
90-110	44.37	N.A.	2.10
90-120	49.14	N.A.	2.30
90-130	50.74	N.A.	2.40
90-150	51.78	N.A.	2.50
90-180	51.85	N.A.	2.50
110-180	7.48	N.A.	0.40
0-180	2091.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	96.37
10-20	248.42
20-30	331.35
30-40	367.56
40-50	343.97
50-60	275.60
60-70	194.14
70-80	120.82
80-90	61.49
90-100	30.30
100-110	14.06
110-120	4.77
120-130	1.60
130-140	0.76
140-150	0.29
150-160	0.07
160-170	0.00
170-180	0.00

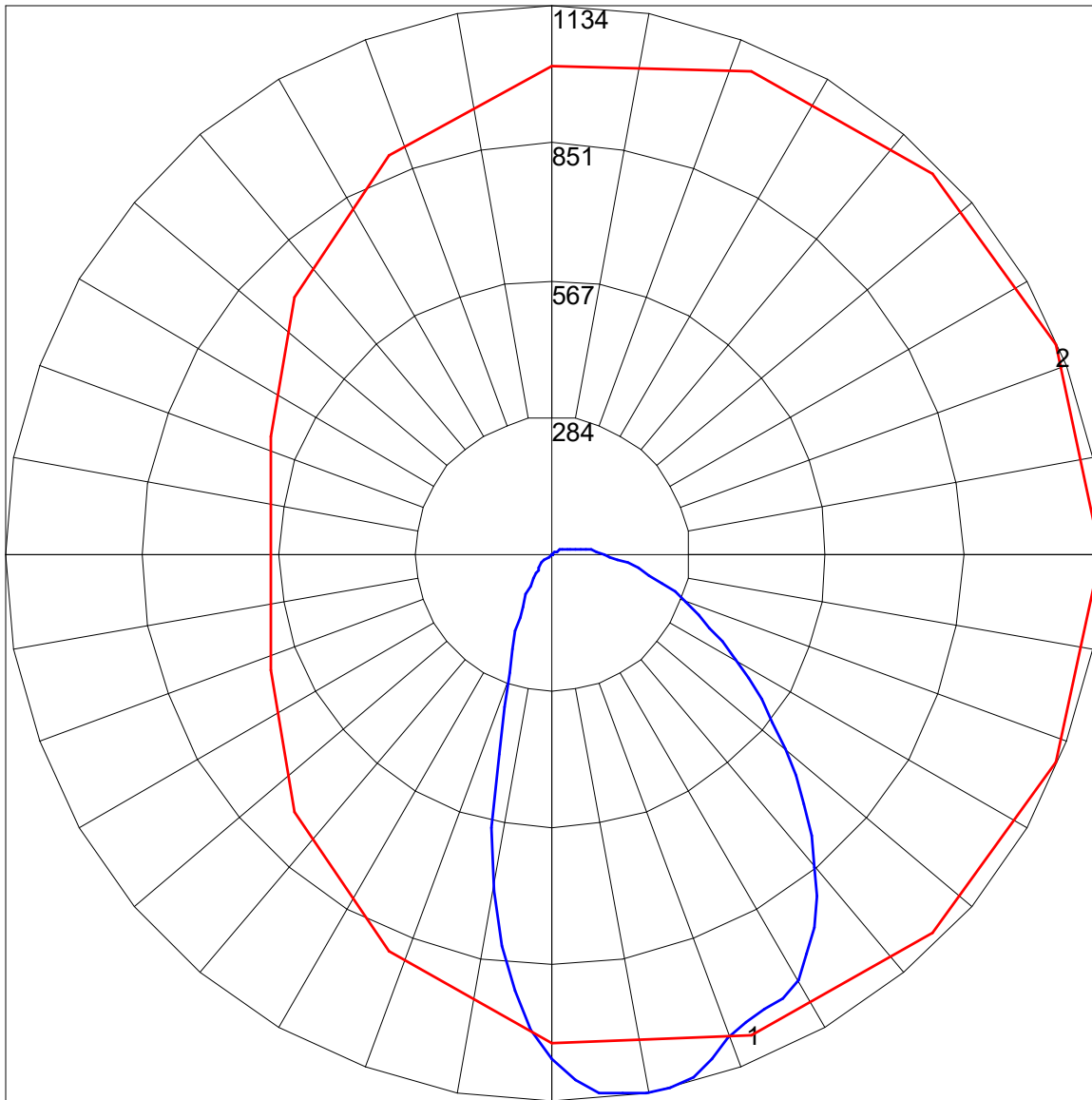
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BIO-PSTD-REG3-LED35-MO-04-AWW-D1G.IES

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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	108	104	100	96	105	101	97	94	97	93	91	92	90	87	88	86	84	82
2	99	91	85	79	96	89	83	78	85	80	76	82	78	74	78	75	72	70
3	91	81	73	67	88	79	72	66	76	70	65	73	68	63	70	66	62	60
4	84	72	64	58	81	71	63	57	68	61	56	66	60	55	63	58	54	52
5	78	65	57	50	75	64	56	50	62	55	49	59	53	49	57	52	48	46
6	72	59	51	45	70	58	50	44	56	49	44	54	48	43	53	47	43	41
7	67	54	46	40	65	53	45	40	51	44	39	50	43	39	48	43	38	36
8	63	50	42	36	61	49	41	36	47	40	35	46	40	35	45	39	35	33
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 1134.28 Located At Horizontal Angle = 0, Vertical Angle = 12.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (12.5) (Through Max. Cd.)