



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-PSTD-REG3-LED35-HO-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-LED35HO-04-AWW-D1G

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

[LAMP]128 LEDS. LUMINAIRE OUTPUT = 2984 LMS

[OTHER]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3287
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	40
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	12212	12718	10909
55	10402	11148	9198
65	9146	9416	7367
75	8604	8499	5891
85	9717	9295	4858

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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	1643.29	1643.29	1643.29	1643.29	1643.29	1643.29	1643.29	1643.29	1643.29	1643.29
2.5	1716.66	1711.93	1701.04	1667.38	1641.64	1603.80	1586.75	1557.93	1549.90	1557.93
5.0	1760.33	1753.18	1734.04	1687.84	1635.92	1563.32	1502.05	1446.72	1430.33	1446.72
7.5	1769.46	1768.69	1755.05	1700.05	1624.81	1514.81	1416.69	1325.06	1290.85	1325.06
10.0	1781.01	1771.88	1755.16	1704.89	1611.28	1458.49	1313.29	1166.88	1116.28	1166.88
12.5	1782.44	1775.84	1745.70	1701.26	1590.49	1404.37	1184.48	990.55	916.52	990.55
15.0	1763.52	1765.50	1745.48	1685.97	1565.63	1343.54	1054.90	776.82	679.47	776.82
17.5	1723.92	1730.19	1727.22	1661.00	1538.57	1273.36	903.32	586.19	523.16	586.19
20.0	1677.83	1682.56	1694.99	1632.29	1505.68	1190.64	735.57	474.43	413.49	474.43
22.5	1654.62	1648.24	1653.52	1604.68	1469.27	1109.68	592.46	378.07	334.73	378.07
25.0	1638.56	1623.27	1602.59	1567.17	1431.21	1021.79	490.49	314.93	281.38	314.93
27.5	1630.75	1610.29	1562.77	1532.41	1384.24	934.45	408.43	265.32	237.27	265.32
30.0	1605.56	1593.46	1527.57	1480.05	1338.92	836.44	339.35	224.51	197.01	224.51
32.5	1546.71	1549.90	1499.96	1425.71	1282.16	743.16	288.20	188.32	160.16	188.32
35.0	1481.81	1487.75	1462.78	1366.64	1226.94	647.68	246.07	153.56	128.92	153.56
37.5	1409.98	1415.15	1410.86	1306.69	1165.56	561.99	210.32	125.51	106.04	125.51
40.0	1330.01	1337.27	1346.51	1252.79	1098.68	484.55	178.42	104.50	87.12	104.50
42.5	1245.86	1254.66	1264.89	1193.94	1029.38	418.99	148.61	86.57	72.27	86.57
45.0	1156.32	1168.64	1180.63	1132.01	953.92	362.23	124.96	72.05	59.95	72.05
47.5	1072.72	1084.38	1097.69	1066.78	879.23	307.89	104.17	59.84	48.29	59.84
50.0	986.37	1004.41	1017.28	991.43	799.81	257.51	86.46	48.51	33.77	48.51
52.5	902.44	922.90	937.64	912.23	728.97	216.81	70.84	33.22	12.21	33.22
55.0	827.42	840.84	862.84	831.38	654.50	182.60	56.98	12.65	0.00	12.65
57.5	754.38	763.84	787.27	754.60	581.90	152.02	44.88	3.30	0.00	3.30
60.0	689.04	692.67	711.26	680.35	514.14	125.51	31.57	2.42	0.00	2.42
62.5	625.46	629.86	639.43	608.30	448.91	101.64	15.29	2.09	0.00	2.09
65.0	566.94	570.35	561.33	546.04	388.30	80.63	11.33	1.98	0.00	1.98
67.5	514.91	516.12	493.79	484.00	334.07	62.59	10.23	1.87	0.00	1.87
70.0	463.65	463.98	439.34	428.89	282.92	47.08	9.90	1.32	0.00	1.32
72.5	414.59	414.70	388.30	372.68	236.17	33.11	8.69	1.21	0.00	1.21
75.0	366.08	368.06	340.12	312.73	192.39	22.00	8.03	1.10	0.00	1.10
77.5	321.42	323.29	294.91	245.85	152.46	18.92	7.26	0.88	0.00	0.88
80.0	283.80	281.05	253.88	201.52	117.04	16.28	6.49	0.55	0.00	0.55
82.5	247.39	242.11	215.16	163.02	87.12	13.75	5.50	0.55	0.00	0.55
85.0	211.97	205.26	178.53	127.38	56.43	11.11	4.84	0.22	0.00	0.22
87.5	186.12	177.21	146.30	94.82	32.01	9.02	4.40	0.11	0.00	0.11
90.0	164.56	155.87	125.18	72.05	11.33	8.47	4.51	0.11	0.00	0.11
92.5	144.32	136.40	106.81	57.20	18.48	8.47	4.40	0.22	0.00	0.22
95.0	125.29	118.03	90.09	45.65	18.04	7.59	4.18	0.22	0.00	0.22
97.5	107.47	100.54	75.24	35.42	17.27	7.04	3.85	0.11	0.00	0.11
100.0	90.97	84.37	61.93	25.74	15.84	6.71	3.52	0.11	0.00	0.11
102.5	75.57	69.96	49.61	18.48	14.41	6.60	3.08	0.00	0.00	0.00
105.0	61.27	56.76	37.95	15.73	12.76	6.16	2.86	0.00	0.00	0.00
107.5	48.84	44.55	27.61	14.19	11.44	5.83	2.64	0.00	0.00	0.00
110.0	37.18	33.77	18.70	12.76	10.56	5.50	2.42	0.00	0.00	0.00
112.5	26.84	23.54	11.00	11.77	9.35	4.95	2.09	0.00	0.00	0.00
115.0	17.16	14.30	8.36	10.45	8.25	4.62	1.98	0.00	0.00	0.00
117.5	8.80	6.38	7.59	9.57	7.59	3.96	1.76	0.00	0.00	0.00
120.0	1.21	1.54	6.49	8.91	6.71	3.85	1.54	0.00	0.00	0.00
122.5	0.00	1.10	5.72	7.92	5.83	3.41	1.32	0.00	0.00	0.00
125.0	0.00	0.77	4.95	6.93	5.06	2.97	1.21	0.00	0.00	0.00
127.5	0.00	0.44	4.29	6.05	4.62	2.64	0.88	0.00	0.00	0.00
130.0	0.00	0.22	3.74	5.28	4.07	2.31	0.77	0.00	0.00	0.00
132.5	0.00	0.00	3.08	4.62	3.52	2.09	0.44	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

135.0	0.00	0.00	2.75	4.07	3.08	1.65	0.44	0.00	0.00	0.00
137.5	0.00	0.00	2.42	3.52	2.86	1.54	0.22	0.00	0.00	0.00
140.0	0.00	0.00	1.87	3.19	2.31	1.10	0.11	0.00	0.00	0.00
142.5	0.00	0.00	1.43	2.53	1.98	0.88	0.11	0.00	0.00	0.00
145.0	0.00	0.00	1.10	1.98	1.65	0.77	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.88	1.65	1.21	0.66	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.44	1.32	0.99	0.44	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.44	0.99	0.88	0.22	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.11	0.66	0.44	0.44	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.44	0.33	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.22	0.11	0.11	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.22	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	1643.29	1643.29	1643.29	1643.29	1643.29	1643.29	1643.29
2.5	1586.75	1603.80	1641.64	1667.38	1701.04	1711.93	1716.66
5.0	1502.05	1563.32	1635.92	1687.84	1734.04	1753.18	1760.33
7.5	1416.69	1514.81	1624.81	1700.05	1755.05	1768.69	1769.46
10.0	1313.29	1458.49	1611.28	1704.89	1755.16	1771.88	1781.01
12.5	1184.48	1404.37	1590.49	1701.26	1745.70	1775.84	1782.44
15.0	1054.90	1343.54	1565.63	1685.97	1745.48	1765.50	1763.52
17.5	903.32	1273.36	1538.57	1661.00	1727.22	1730.19	1723.92
20.0	735.57	1190.64	1505.68	1632.29	1694.99	1682.56	1677.83
22.5	592.46	1109.68	1469.27	1604.68	1653.52	1648.24	1654.62
25.0	490.49	1021.79	1431.21	1567.17	1602.59	1623.27	1638.56
27.5	408.43	934.45	1384.24	1532.41	1562.77	1610.29	1630.75
30.0	339.35	836.44	1338.92	1480.05	1527.57	1593.46	1605.56
32.5	288.20	743.16	1282.16	1425.71	1499.96	1549.90	1546.71
35.0	246.07	647.68	1226.94	1366.64	1462.78	1487.75	1481.81
37.5	210.32	561.99	1165.56	1306.69	1410.86	1415.15	1409.98
40.0	178.42	484.55	1098.68	1252.79	1346.51	1337.27	1330.01
42.5	148.61	418.99	1029.38	1193.94	1264.89	1254.66	1245.86
45.0	124.96	362.23	953.92	1132.01	1180.63	1168.64	1156.32
47.5	104.17	307.89	879.23	1066.78	1097.69	1084.38	1072.72
50.0	86.46	257.51	799.81	991.43	1017.28	1004.41	986.37
52.5	70.84	216.81	728.97	912.23	937.64	922.90	902.44
55.0	56.98	182.60	654.50	831.38	862.84	840.84	827.42
57.5	44.88	152.02	581.90	754.60	787.27	763.84	754.38
60.0	31.57	125.51	514.14	680.35	711.26	692.67	689.04
62.5	15.29	101.64	448.91	608.30	639.43	629.86	625.46
65.0	11.33	80.63	388.30	546.04	561.33	570.35	566.94
67.5	10.23	62.59	334.07	484.00	493.79	516.12	514.91
70.0	9.90	47.08	282.92	428.89	439.34	463.98	463.65
72.5	8.69	33.11	236.17	372.68	388.30	414.70	414.59
75.0	8.03	22.00	192.39	312.73	340.12	368.06	366.08
77.5	7.26	18.92	152.46	245.85	294.91	323.29	321.42
80.0	6.49	16.28	117.04	201.52	253.88	281.05	283.80

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CANDELA TABULATION - (Cont.)

82.5	5.50	13.75	87.12	163.02	215.16	242.11	247.39
85.0	4.84	11.11	56.43	127.38	178.53	205.26	211.97
87.5	4.40	9.02	32.01	94.82	146.30	177.21	186.12
90.0	4.51	8.47	11.33	72.05	125.18	155.87	164.56
92.5	4.40	8.47	18.48	57.20	106.81	136.40	144.32
95.0	4.18	7.59	18.04	45.65	90.09	118.03	125.29
97.5	3.85	7.04	17.27	35.42	75.24	100.54	107.47
100.0	3.52	6.71	15.84	25.74	61.93	84.37	90.97
102.5	3.08	6.60	14.41	18.48	49.61	69.96	75.57
105.0	2.86	6.16	12.76	15.73	37.95	56.76	61.27
107.5	2.64	5.83	11.44	14.19	27.61	44.55	48.84
110.0	2.42	5.50	10.56	12.76	18.70	33.77	37.18
112.5	2.09	4.95	9.35	11.77	11.00	23.54	26.84
115.0	1.98	4.62	8.25	10.45	8.36	14.30	17.16
117.5	1.76	3.96	7.59	9.57	7.59	6.38	8.80
120.0	1.54	3.85	6.71	8.91	6.49	1.54	1.21
122.5	1.32	3.41	5.83	7.92	5.72	1.10	0.00
125.0	1.21	2.97	5.06	6.93	4.95	0.77	0.00
127.5	0.88	2.64	4.62	6.05	4.29	0.44	0.00
130.0	0.77	2.31	4.07	5.28	3.74	0.22	0.00
132.5	0.44	2.09	3.52	4.62	3.08	0.00	0.00
135.0	0.44	1.65	3.08	4.07	2.75	0.00	0.00
137.5	0.22	1.54	2.86	3.52	2.42	0.00	0.00
140.0	0.11	1.10	2.31	3.19	1.87	0.00	0.00
142.5	0.11	0.88	1.98	2.53	1.43	0.00	0.00
145.0	0.00	0.77	1.65	1.98	1.10	0.00	0.00
147.5	0.00	0.66	1.21	1.65	0.88	0.00	0.00
150.0	0.00	0.44	0.99	1.32	0.44	0.00	0.00
152.5	0.00	0.22	0.88	0.99	0.44	0.00	0.00
155.0	0.00	0.44	0.44	0.66	0.11	0.00	0.00
157.5	0.00	0.00	0.33	0.44	0.00	0.00	0.00
160.0	0.00	0.11	0.11	0.22	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.22	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	541.82	N.A.	16.50
0-30	1062.52	N.A.	32.30
0-40	1640.12	N.A.	49.90
0-60	2613.74	N.A.	79.50
0-80	3108.67	N.A.	94.60
0-90	3205.3	N.A.	97.50
10-90	3053.85	N.A.	92.90
20-40	1098.3	N.A.	33.40
20-50	1638.83	N.A.	49.90
40-70	1278.7	N.A.	38.90
60-80	494.93	N.A.	15.10
70-80	189.85	N.A.	5.80
80-90	96.63	N.A.	2.90
90-110	69.72	N.A.	2.10
90-120	77.22	N.A.	2.30
90-130	79.73	N.A.	2.40
90-150	81.37	N.A.	2.50
90-180	81.48	N.A.	2.50
110-180	11.76	N.A.	0.40
0-180	3286.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	151.45
10-20	390.37
20-30	520.70
30-40	577.60
40-50	540.53
50-60	433.09
60-70	305.08
70-80	189.85
80-90	96.63
90-100	47.62
100-110	22.10
110-120	7.50
120-130	2.51
130-140	1.19
140-150	0.45
150-160	0.10
160-170	0.00
170-180	0.00

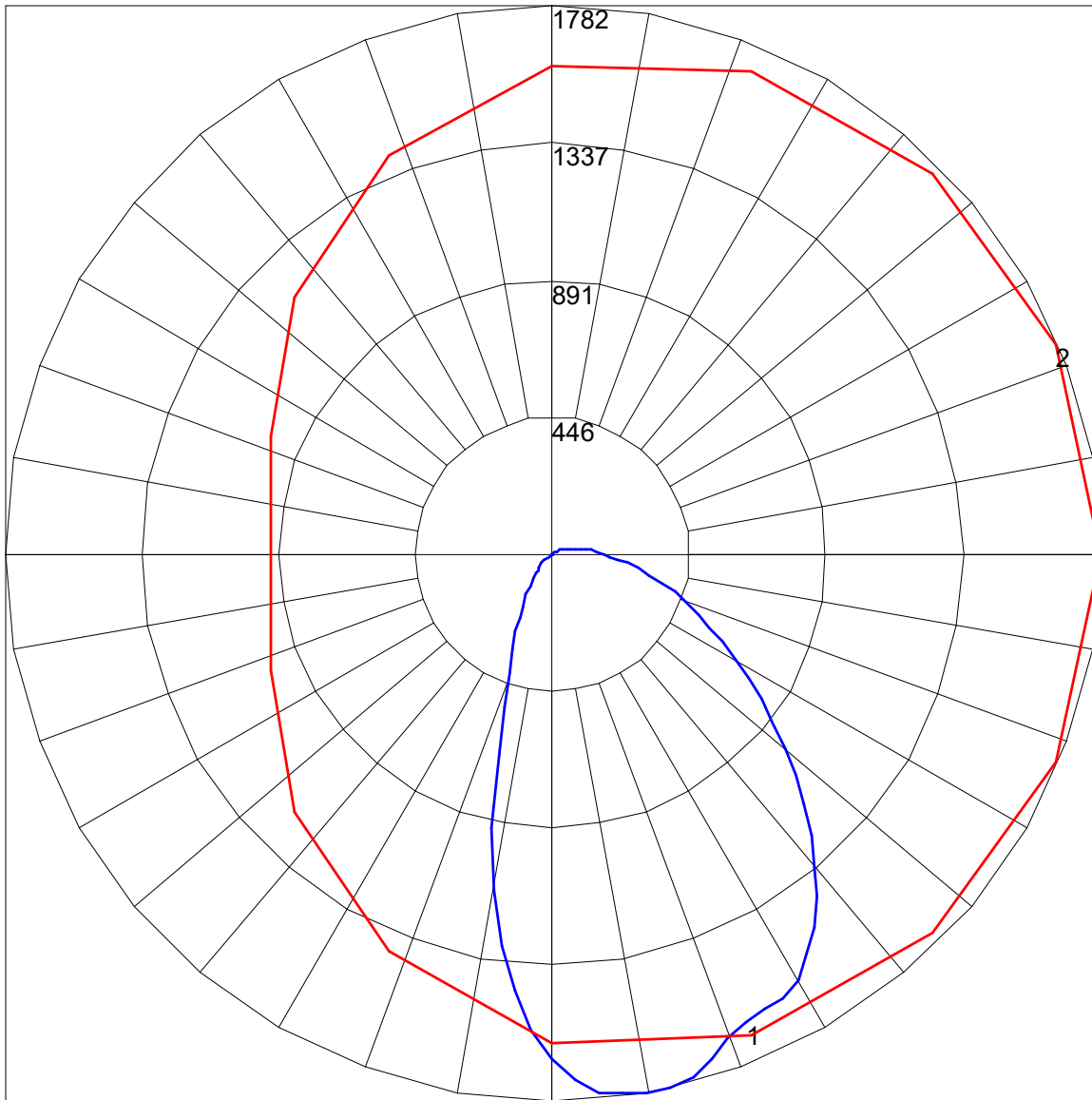
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	60	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 = 1782.44 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.)