



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-PSTD-REG3-LED35-SO-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-SO-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	2839
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	33.4
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	10547	10983	9421
55	8983	9627	7943
65	7899	8132	6362
75	7431	7340	5088
85	8392	8028	4196

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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	1419.205	1419.205	1419.205	1419.205	1419.205	1419.205	1419.205	1419.205	1419.205	1419.205
2.5	1482.570	1478.485	1469.080	1440.010	1417.780	1385.100	1370.375	1345.485	1338.550	1345.485
5.0	1520.285	1514.110	1497.580	1457.680	1412.840	1350.140	1297.225	1249.440	1235.285	1249.440
7.5	1528.170	1527.505	1515.725	1468.225	1403.245	1308.245	1223.505	1144.370	1114.825	1144.370
10.0	1538.145	1530.260	1515.820	1472.405	1391.560	1259.605	1134.205	1007.760	964.060	1007.760
12.5	1539.380	1533.680	1507.650	1469.270	1373.605	1212.865	1022.960	855.475	791.540	855.475
15.0	1523.040	1524.750	1507.460	1456.065	1352.135	1160.330	911.050	670.890	586.815	670.890
17.5	1488.840	1494.255	1491.690	1434.500	1328.765	1099.720	780.140	506.255	451.820	506.255
20.0	1449.035	1453.120	1463.855	1409.705	1300.360	1028.280	635.265	409.735	357.105	409.735
22.5	1428.990	1423.480	1428.040	1385.860	1268.915	958.360	511.670	326.515	289.085	326.515
25.0	1415.120	1401.915	1384.055	1353.465	1236.045	882.455	423.605	271.985	243.010	271.985
27.5	1408.375	1390.705	1349.665	1323.445	1195.480	807.025	352.735	229.140	204.915	229.140
30.0	1386.620	1376.170	1319.265	1278.225	1156.340	722.380	293.075	193.895	170.145	193.895
32.5	1335.795	1338.550	1295.420	1231.295	1107.320	641.820	248.900	162.640	138.320	162.640
35.0	1279.745	1284.875	1263.310	1180.280	1059.630	559.360	212.515	132.620	111.340	132.620
37.5	1217.710	1222.175	1218.470	1128.505	1006.620	485.355	181.640	108.395	91.580	108.395
40.0	1148.645	1154.915	1162.895	1081.955	948.860	418.475	154.090	90.250	75.240	90.250
42.5	1075.970	1083.570	1092.405	1031.130	889.010	361.855	128.345	74.765	62.415	74.765
45.0	998.640	1009.280	1019.635	977.645	823.840	312.835	107.920	62.225	51.775	62.225
47.5	926.440	936.510	948.005	921.310	759.335	265.905	89.965	51.680	41.705	51.680
50.0	851.865	867.445	878.560	856.235	690.745	222.395	74.670	41.895	29.165	41.895
52.5	779.380	797.050	809.780	787.835	629.565	187.245	61.180	28.690	10.545	28.690
55.0	714.590	726.180	745.180	718.010	565.250	157.700	49.210	10.925	0.000	10.925
57.5	651.510	659.680	679.915	651.700	502.550	131.290	38.760	2.850	0.000	2.850
60.0	595.080	598.215	614.270	587.575	444.030	108.395	27.265	2.090	0.000	2.090
62.5	540.170	543.970	552.235	525.350	387.695	87.780	13.205	1.805	0.000	1.805
65.0	489.630	492.575	484.785	471.580	335.350	69.635	9.785	1.710	0.000	1.710
67.5	444.695	445.740	426.455	418.000	288.515	54.055	8.835	1.615	0.000	1.615
70.0	400.425	400.710	379.430	370.405	244.340	40.660	8.550	1.140	0.000	1.140
72.5	358.055	358.150	335.350	321.860	203.965	28.595	7.505	1.045	0.000	1.045
75.0	316.160	317.870	293.740	270.085	166.155	19.000	6.935	0.950	0.000	0.950
77.5	277.590	279.205	254.695	212.325	131.670	16.340	6.270	0.760	0.000	0.760
80.0	245.100	242.725	219.260	174.040	101.080	14.060	5.605	0.475	0.000	0.475
82.5	213.655	209.095	185.820	140.790	75.240	11.875	4.750	0.475	0.000	0.475
85.0	183.065	177.270	154.185	110.010	48.735	9.595	4.180	0.190	0.000	0.190
87.5	160.740	153.045	126.350	81.890	27.645	7.790	3.800	0.095	0.000	0.095
90.0	142.120	134.615	108.110	62.225	9.785	7.315	3.895	0.095	0.000	0.095
92.5	124.640	117.800	92.245	49.400	15.960	7.315	3.800	0.190	0.000	0.190
95.0	108.205	101.935	77.805	39.425	15.580	6.555	3.610	0.190	0.000	0.190
97.5	92.815	86.830	64.980	30.590	14.915	6.080	3.325	0.095	0.000	0.095
100.0	78.565	72.865	53.485	22.230	13.680	5.795	3.040	0.095	0.000	0.095
102.5	65.265	60.420	42.845	15.960	12.445	5.700	2.660	0.000	0.000	0.000
105.0	52.915	49.020	32.775	13.585	11.020	5.320	2.470	0.000	0.000	0.000
107.5	42.180	38.475	23.845	12.255	9.880	5.035	2.280	0.000	0.000	0.000
110.0	32.110	29.165	16.150	11.020	9.120	4.750	2.090	0.000	0.000	0.000
112.5	23.180	20.330	9.500	10.165	8.075	4.275	1.805	0.000	0.000	0.000
115.0	14.820	12.350	7.220	9.025	7.125	3.990	1.710	0.000	0.000	0.000
117.5	7.600	5.510	6.555	8.265	6.555	3.420	1.520	0.000	0.000	0.000
120.0	1.045	1.330	5.605	7.695	5.795	3.325	1.330	0.000	0.000	0.000
122.5	0.000	0.950	4.940	6.840	5.035	2.945	1.140	0.000	0.000	0.000
125.0	0.000	0.665	4.275	5.985	4.370	2.565	1.045	0.000	0.000	0.000
127.5	0.000	0.380	3.705	5.225	3.990	2.280	0.760	0.000	0.000	0.000
130.0	0.000	0.190	3.230	4.560	3.515	1.995	0.665	0.000	0.000	0.000
132.5	0.000	0.000	2.660	3.990	3.040	1.805	0.380	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	2.375	3.515	2.660	1.425	0.380	0.000	0.000	0.000
137.5	0.000	0.000	2.090	3.040	2.470	1.330	0.190	0.000	0.000	0.000
140.0	0.000	0.000	1.615	2.755	1.995	0.950	0.095	0.000	0.000	0.000
142.5	0.000	0.000	1.235	2.185	1.710	0.760	0.095	0.000	0.000	0.000
145.0	0.000	0.000	0.950	1.710	1.425	0.665	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.760	1.425	1.045	0.570	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.380	1.140	0.855	0.380	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.380	0.855	0.760	0.190	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.095	0.570	0.380	0.380	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.380	0.285	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.190	0.095	0.095	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.190	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	1419.205	1419.205	1419.205	1419.205	1419.205	1419.205	1419.205
2.5	1370.375	1385.100	1417.780	1440.010	1469.080	1478.485	1482.570
5.0	1297.225	1350.140	1412.840	1457.680	1497.580	1514.110	1520.285
7.5	1223.505	1308.245	1403.245	1468.225	1515.725	1527.505	1528.170
10.0	1134.205	1259.605	1391.560	1472.405	1515.820	1530.260	1538.145
12.5	1022.960	1212.865	1373.605	1469.270	1507.650	1533.680	1539.380
15.0	911.050	1160.330	1352.135	1456.065	1507.460	1524.750	1523.040
17.5	780.140	1099.720	1328.765	1434.500	1491.690	1494.255	1488.840
20.0	635.265	1028.280	1300.360	1409.705	1463.855	1453.120	1449.035
22.5	511.670	958.360	1268.915	1385.860	1428.040	1423.480	1428.990
25.0	423.605	882.455	1236.045	1353.465	1384.055	1401.915	1415.120
27.5	352.735	807.025	1195.480	1323.445	1349.665	1390.705	1408.375
30.0	293.075	722.380	1156.340	1278.225	1319.265	1376.170	1386.620
32.5	248.900	641.820	1107.320	1231.295	1295.420	1338.550	1335.795
35.0	212.515	559.360	1059.630	1180.280	1263.310	1284.875	1279.745
37.5	181.640	485.355	1006.620	1128.505	1218.470	1222.175	1217.710
40.0	154.090	418.475	948.860	1081.955	1162.895	1154.915	1148.645
42.5	128.345	361.855	889.010	1031.130	1092.405	1083.570	1075.970
45.0	107.920	312.835	823.840	977.645	1019.635	1009.280	998.640
47.5	89.965	265.905	759.335	921.310	948.005	936.510	926.440
50.0	74.670	222.395	690.745	856.235	878.560	867.445	851.865
52.5	61.180	187.245	629.565	787.835	809.780	797.050	779.380
55.0	49.210	157.700	565.250	718.010	745.180	726.180	714.590
57.5	38.760	131.290	502.550	651.700	679.915	659.680	651.510
60.0	27.265	108.395	444.030	587.575	614.270	598.215	595.080
62.5	13.205	87.780	387.695	525.350	552.235	543.970	540.170
65.0	9.785	69.635	335.350	471.580	484.785	492.575	489.630
67.5	8.835	54.055	288.515	418.000	426.455	445.740	444.695
70.0	8.550	40.660	244.340	370.405	379.430	400.710	400.425
72.5	7.505	28.595	203.965	321.860	335.350	358.150	358.055
75.0	6.935	19.000	166.155	270.085	293.740	317.870	316.160
77.5	6.270	16.340	131.670	212.325	254.695	279.205	277.590
80.0	5.605	14.060	101.080	174.040	219.260	242.725	245.100

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CANDELA TABULATION - (Cont.)

82.5	4.750	11.875	75.240	140.790	185.820	209.095	213.655
85.0	4.180	9.595	48.735	110.010	154.185	177.270	183.065
87.5	3.800	7.790	27.645	81.890	126.350	153.045	160.740
90.0	3.895	7.315	9.785	62.225	108.110	134.615	142.120
92.5	3.800	7.315	15.960	49.400	92.245	117.800	124.640
95.0	3.610	6.555	15.580	39.425	77.805	101.935	108.205
97.5	3.325	6.080	14.915	30.590	64.980	86.830	92.815
100.0	3.040	5.795	13.680	22.230	53.485	72.865	78.565
102.5	2.660	5.700	12.445	15.960	42.845	60.420	65.265
105.0	2.470	5.320	11.020	13.585	32.775	49.020	52.915
107.5	2.280	5.035	9.880	12.255	23.845	38.475	42.180
110.0	2.090	4.750	9.120	11.020	16.150	29.165	32.110
112.5	1.805	4.275	8.075	10.165	9.500	20.330	23.180
115.0	1.710	3.990	7.125	9.025	7.220	12.350	14.820
117.5	1.520	3.420	6.555	8.265	6.555	5.510	7.600
120.0	1.330	3.325	5.795	7.695	5.605	1.330	1.045
122.5	1.140	2.945	5.035	6.840	4.940	0.950	0.000
125.0	1.045	2.565	4.370	5.985	4.275	0.665	0.000
127.5	0.760	2.280	3.990	5.225	3.705	0.380	0.000
130.0	0.665	1.995	3.515	4.560	3.230	0.190	0.000
132.5	0.380	1.805	3.040	3.990	2.660	0.000	0.000
135.0	0.380	1.425	2.660	3.515	2.375	0.000	0.000
137.5	0.190	1.330	2.470	3.040	2.090	0.000	0.000
140.0	0.095	0.950	1.995	2.755	1.615	0.000	0.000
142.5	0.095	0.760	1.710	2.185	1.235	0.000	0.000
145.0	0.000	0.665	1.425	1.710	0.950	0.000	0.000
147.5	0.000	0.570	1.045	1.425	0.760	0.000	0.000
150.0	0.000	0.380	0.855	1.140	0.380	0.000	0.000
152.5	0.000	0.190	0.760	0.855	0.380	0.000	0.000
155.0	0.000	0.380	0.380	0.570	0.095	0.000	0.000
157.5	0.000	0.000	0.285	0.380	0.000	0.000	0.000
160.0	0.000	0.095	0.095	0.190	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.190	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	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	467.94	N.A.	16.50
0-30	917.63	N.A.	32.30
0-40	1416.46	N.A.	49.90
0-60	2257.32	N.A.	79.50
0-80	2684.76	N.A.	94.60
0-90	2768.21	N.A.	97.50
10-90	2637.42	N.A.	92.90
20-40	948.53	N.A.	33.40
20-50	1415.35	N.A.	49.90
40-70	1104.33	N.A.	38.90
60-80	427.44	N.A.	15.10
70-80	163.96	N.A.	5.80
80-90	83.45	N.A.	2.90
90-110	60.21	N.A.	2.10
90-120	66.69	N.A.	2.30
90-130	68.86	N.A.	2.40
90-150	70.28	N.A.	2.50
90-180	70.37	N.A.	2.50
110-180	10.16	N.A.	0.40
0-180	2838.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	130.79
10-20	337.14
20-30	449.69
30-40	498.84
40-50	466.82
50-60	374.03
60-70	263.48
70-80	163.96
80-90	83.45
90-100	41.12
100-110	19.09
110-120	6.47
120-130	2.17
130-140	1.03
140-150	0.39
150-160	0.09
160-170	0.00
170-180	0.00

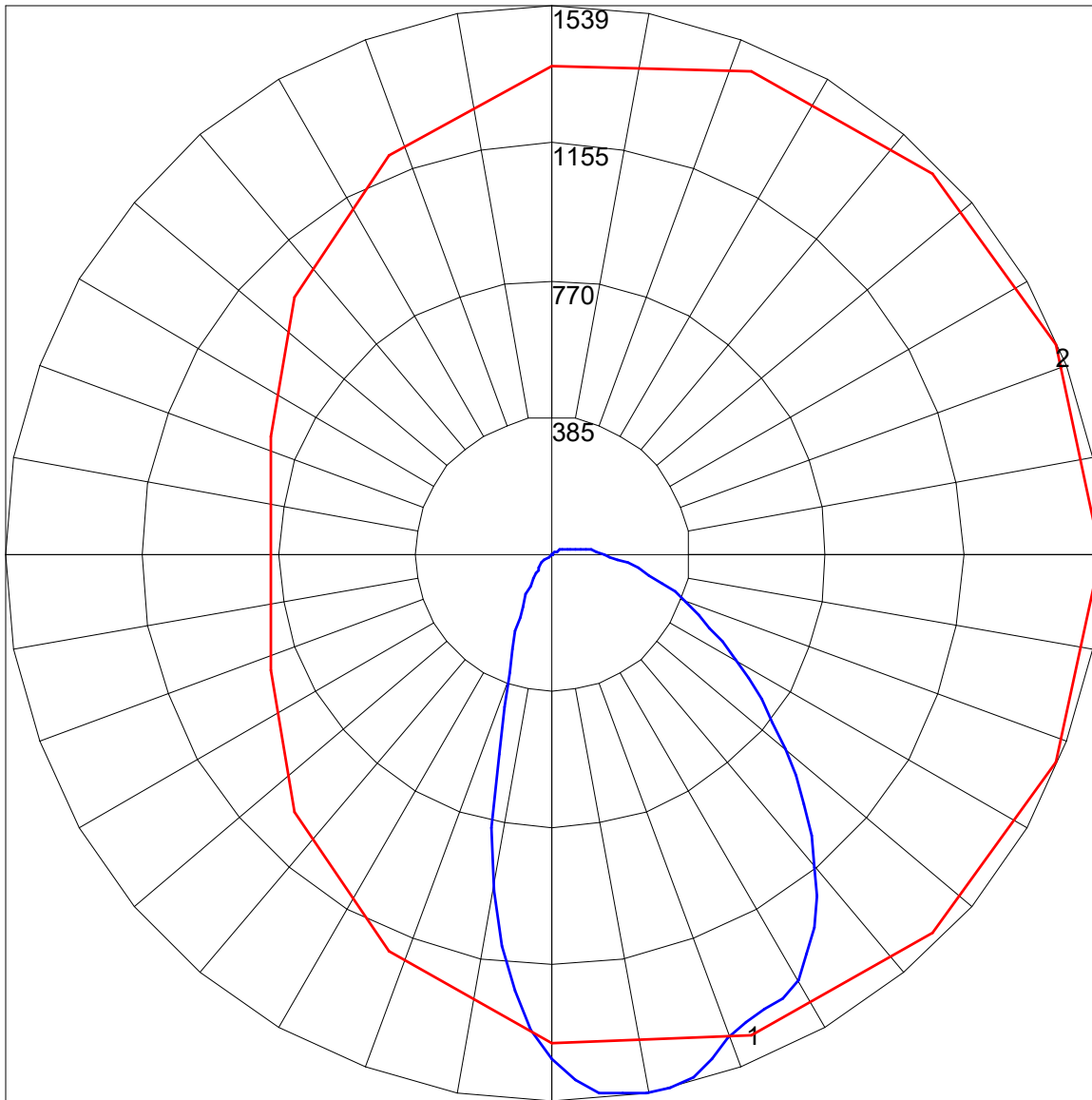
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1539.38 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.)