



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-PSTD-REG3-LED35-LO-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-LED35LO-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	1419
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	16
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	5273	5492	4711
55	4492	4814	3972
65	3949	4066	3181
75	3715	3670	2544
85	4196	4014	2098

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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	709.602	709.602	709.602	709.602	709.602	709.602	709.602	709.602	709.602	709.602
2.5	741.285	739.242	734.540	720.005	708.890	692.550	685.187	672.742	669.275	672.742
5.0	760.142	757.055	748.790	728.840	706.420	675.070	648.612	624.720	617.642	624.720
7.5	764.085	763.752	757.862	734.112	701.622	654.122	611.752	572.185	557.412	572.185
10.0	769.072	765.130	757.910	736.202	695.780	629.802	567.102	503.880	482.030	503.880
12.5	769.690	766.840	753.825	734.635	686.802	606.432	511.480	427.737	395.770	427.737
15.0	761.520	762.375	753.730	728.032	676.067	580.165	455.525	335.445	293.407	335.445
17.5	744.420	747.127	745.845	717.250	664.382	549.860	390.070	253.127	225.910	253.127
20.0	724.517	726.560	731.927	704.852	650.180	514.140	317.632	204.867	178.552	204.867
22.5	714.495	711.740	714.020	692.930	634.457	479.180	255.835	163.257	144.542	163.257
25.0	707.560	700.957	692.027	676.732	618.022	441.227	211.802	135.992	121.505	135.992
27.5	704.187	695.352	674.832	661.722	597.740	403.512	176.367	114.570	102.457	114.570
30.0	693.310	688.085	659.632	639.112	578.170	361.190	146.537	96.947	85.072	96.947
32.5	667.897	669.275	647.710	615.647	553.660	320.910	124.450	81.320	69.160	81.320
35.0	639.872	642.437	631.655	590.140	529.815	279.680	106.257	66.310	55.670	66.310
37.5	608.855	611.087	609.235	564.252	503.310	242.677	90.820	54.197	45.790	54.197
40.0	574.322	577.457	581.447	540.977	474.430	209.237	77.045	45.125	37.620	45.125
42.5	537.985	541.785	546.202	515.565	444.505	180.927	64.172	37.382	31.207	37.382
45.0	499.320	504.640	509.817	488.822	411.920	156.417	53.960	31.112	25.887	31.112
47.5	463.220	468.255	474.002	460.655	379.667	132.952	44.982	25.840	20.852	25.840
50.0	425.932	433.722	439.280	428.117	345.372	111.197	37.335	20.947	14.582	20.947
52.5	389.690	398.525	404.890	393.917	314.782	93.622	30.590	14.345	5.272	14.345
55.0	357.295	363.090	372.590	359.005	282.625	78.850	24.605	5.462	0.000	5.462
57.5	325.755	329.840	339.957	325.850	251.275	65.645	19.380	1.425	0.000	1.425
60.0	297.540	299.107	307.135	293.787	222.015	54.197	13.632	1.045	0.000	1.045
62.5	270.085	271.985	276.117	262.675	193.847	43.890	6.602	0.902	0.000	0.902
65.0	244.815	246.287	242.392	235.790	167.675	34.817	4.892	0.855	0.000	0.855
67.5	222.347	222.870	213.227	209.000	144.257	27.027	4.417	0.807	0.000	0.807
70.0	200.212	200.355	189.715	185.202	122.170	20.330	4.275	0.570	0.000	0.570
72.5	179.027	179.075	167.675	160.930	101.982	14.297	3.752	0.522	0.000	0.522
75.0	158.080	158.935	146.870	135.042	83.077	9.500	3.467	0.475	0.000	0.475
77.5	138.795	139.602	127.347	106.162	65.835	8.170	3.135	0.380	0.000	0.380
80.0	122.550	121.362	109.630	87.020	50.540	7.030	2.802	0.237	0.000	0.237
82.5	106.827	104.547	92.910	70.395	37.620	5.937	2.375	0.237	0.000	0.237
85.0	91.532	88.635	77.092	55.005	24.367	4.797	2.090	0.095	0.000	0.095
87.5	80.370	76.522	63.175	40.945	13.822	3.895	1.900	0.047	0.000	0.047
90.0	71.060	67.307	54.055	31.112	4.892	3.657	1.947	0.047	0.000	0.047
92.5	62.320	58.900	46.122	24.700	7.980	3.657	1.900	0.095	0.000	0.095
95.0	54.102	50.967	38.902	19.712	7.790	3.277	1.805	0.095	0.000	0.095
97.5	46.407	43.415	32.490	15.295	7.457	3.040	1.662	0.047	0.000	0.047
100.0	39.282	36.432	26.742	11.115	6.840	2.897	1.520	0.047	0.000	0.047
102.5	32.632	30.210	21.422	7.980	6.222	2.850	1.330	0.000	0.000	0.000
105.0	26.457	24.510	16.387	6.792	5.510	2.660	1.235	0.000	0.000	0.000
107.5	21.090	19.237	11.922	6.127	4.940	2.517	1.140	0.000	0.000	0.000
110.0	16.055	14.582	8.075	5.510	4.560	2.375	1.045	0.000	0.000	0.000
112.5	11.590	10.165	4.750	5.082	4.037	2.137	0.902	0.000	0.000	0.000
115.0	7.410	6.175	3.610	4.512	3.562	1.995	0.855	0.000	0.000	0.000
117.5	3.800	2.755	3.277	4.132	3.277	1.710	0.760	0.000	0.000	0.000
120.0	0.522	0.665	2.802	3.847	2.897	1.662	0.665	0.000	0.000	0.000
122.5	0.000	0.475	2.470	3.420	2.517	1.472	0.570	0.000	0.000	0.000
125.0	0.000	0.332	2.137	2.992	2.185	1.282	0.522	0.000	0.000	0.000
127.5	0.000	0.190	1.852	2.612	1.995	1.140	0.380	0.000	0.000	0.000
130.0	0.000	0.095	1.615	2.280	1.757	0.997	0.332	0.000	0.000	0.000
132.5	0.000	0.000	1.330	1.995	1.520	0.902	0.190	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	1.187	1.757	1.330	0.712	0.190	0.000	0.000	0.000
137.5	0.000	0.000	1.045	1.520	1.235	0.665	0.095	0.000	0.000	0.000
140.0	0.000	0.000	0.807	1.377	0.997	0.475	0.047	0.000	0.000	0.000
142.5	0.000	0.000	0.617	1.092	0.855	0.380	0.047	0.000	0.000	0.000
145.0	0.000	0.000	0.475	0.855	0.712	0.332	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.380	0.712	0.522	0.285	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.190	0.570	0.427	0.190	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.190	0.427	0.380	0.095	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.047	0.285	0.190	0.190	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.190	0.142	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.095	0.047	0.047	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.095	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	709.602	709.602	709.602	709.602	709.602	709.602	709.602
2.5	685.187	692.550	708.890	720.005	734.540	739.242	741.285
5.0	648.612	675.070	706.420	728.840	748.790	757.055	760.142
7.5	611.752	654.122	701.622	734.112	757.862	763.752	764.085
10.0	567.102	629.802	695.780	736.202	757.910	765.130	769.072
12.5	511.480	606.432	686.802	734.635	753.825	766.840	769.690
15.0	455.525	580.165	676.067	728.032	753.730	762.375	761.520
17.5	390.070	549.860	664.382	717.250	745.845	747.127	744.420
20.0	317.632	514.140	650.180	704.852	731.927	726.560	724.517
22.5	255.835	479.180	634.457	692.930	714.020	711.740	714.495
25.0	211.802	441.227	618.022	676.732	692.027	700.957	707.560
27.5	176.367	403.512	597.740	661.722	674.832	695.352	704.187
30.0	146.537	361.190	578.170	639.112	659.632	688.085	693.310
32.5	124.450	320.910	553.660	615.647	647.710	669.275	667.897
35.0	106.257	279.680	529.815	590.140	631.655	642.437	639.872
37.5	90.820	242.677	503.310	564.252	609.235	611.087	608.855
40.0	77.045	209.237	474.430	540.977	581.447	577.457	574.322
42.5	64.172	180.927	444.505	515.565	546.202	541.785	537.985
45.0	53.960	156.417	411.920	488.822	509.817	504.640	499.320
47.5	44.982	132.952	379.667	460.655	474.002	468.255	463.220
50.0	37.335	111.197	345.372	428.117	439.280	433.722	425.932
52.5	30.590	93.622	314.782	393.917	404.890	398.525	389.690
55.0	24.605	78.850	282.625	359.005	372.590	363.090	357.295
57.5	19.380	65.645	251.275	325.850	339.957	329.840	325.755
60.0	13.632	54.197	222.015	293.787	307.135	299.107	297.540
62.5	6.602	43.890	193.847	262.675	276.117	271.985	270.085
65.0	4.892	34.817	167.675	235.790	242.392	246.287	244.815
67.5	4.417	27.027	144.257	209.000	213.227	222.870	222.347
70.0	4.275	20.330	122.170	185.202	189.715	200.355	200.212
72.5	3.752	14.297	101.982	160.930	167.675	179.075	179.027
75.0	3.467	9.500	83.077	135.042	146.870	158.935	158.080
77.5	3.135	8.170	65.835	106.162	127.347	139.602	138.795
80.0	2.802	7.030	50.540	87.020	109.630	121.362	122.550

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CANDELA TABULATION - (Cont.)

82.5	2.375	5.937	37.620	70.395	92.910	104.547	106.827
85.0	2.090	4.797	24.367	55.005	77.092	88.635	91.532
87.5	1.900	3.895	13.822	40.945	63.175	76.522	80.370
90.0	1.947	3.657	4.892	31.112	54.055	67.307	71.060
92.5	1.900	3.657	7.980	24.700	46.122	58.900	62.320
95.0	1.805	3.277	7.790	19.712	38.902	50.967	54.102
97.5	1.662	3.040	7.457	15.295	32.490	43.415	46.407
100.0	1.520	2.897	6.840	11.115	26.742	36.432	39.282
102.5	1.330	2.850	6.222	7.980	21.422	30.210	32.632
105.0	1.235	2.660	5.510	6.792	16.387	24.510	26.457
107.5	1.140	2.517	4.940	6.127	11.922	19.237	21.090
110.0	1.045	2.375	4.560	5.510	8.075	14.582	16.055
112.5	0.902	2.137	4.037	5.082	4.750	10.165	11.590
115.0	0.855	1.995	3.562	4.512	3.610	6.175	7.410
117.5	0.760	1.710	3.277	4.132	3.277	2.755	3.800
120.0	0.665	1.662	2.897	3.847	2.802	0.665	0.522
122.5	0.570	1.472	2.517	3.420	2.470	0.475	0.000
125.0	0.522	1.282	2.185	2.992	2.137	0.332	0.000
127.5	0.380	1.140	1.995	2.612	1.852	0.190	0.000
130.0	0.332	0.997	1.757	2.280	1.615	0.095	0.000
132.5	0.190	0.902	1.520	1.995	1.330	0.000	0.000
135.0	0.190	0.712	1.330	1.757	1.187	0.000	0.000
137.5	0.095	0.665	1.235	1.520	1.045	0.000	0.000
140.0	0.047	0.475	0.997	1.377	0.807	0.000	0.000
142.5	0.047	0.380	0.855	1.092	0.617	0.000	0.000
145.0	0.000	0.332	0.712	0.855	0.475	0.000	0.000
147.5	0.000	0.285	0.522	0.712	0.380	0.000	0.000
150.0	0.000	0.190	0.427	0.570	0.190	0.000	0.000
152.5	0.000	0.095	0.380	0.427	0.190	0.000	0.000
155.0	0.000	0.190	0.190	0.285	0.047	0.000	0.000
157.5	0.000	0.000	0.142	0.190	0.000	0.000	0.000
160.0	0.000	0.047	0.047	0.095	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.095	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	233.97	N.A.	16.50
0-30	458.81	N.A.	32.30
0-40	708.23	N.A.	49.90
0-60	1128.66	N.A.	79.50
0-80	1342.38	N.A.	94.60
0-90	1384.1	N.A.	97.50
10-90	1318.71	N.A.	92.90
20-40	474.26	N.A.	33.40
20-50	707.67	N.A.	49.90
40-70	552.16	N.A.	38.90
60-80	213.72	N.A.	15.10
70-80	81.98	N.A.	5.80
80-90	41.73	N.A.	2.90
90-110	30.11	N.A.	2.10
90-120	33.34	N.A.	2.30
90-130	34.43	N.A.	2.40
90-150	35.14	N.A.	2.50
90-180	35.18	N.A.	2.50
110-180	5.08	N.A.	0.40
0-180	1419.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	65.40
10-20	168.57
20-30	224.85
30-40	249.42
40-50	233.41
50-60	187.02
60-70	131.74
70-80	81.98
80-90	41.73
90-100	20.56
100-110	9.54
110-120	3.24
120-130	1.08
130-140	0.51
140-150	0.20
150-160	0.04
160-170	0.00
170-180	0.00

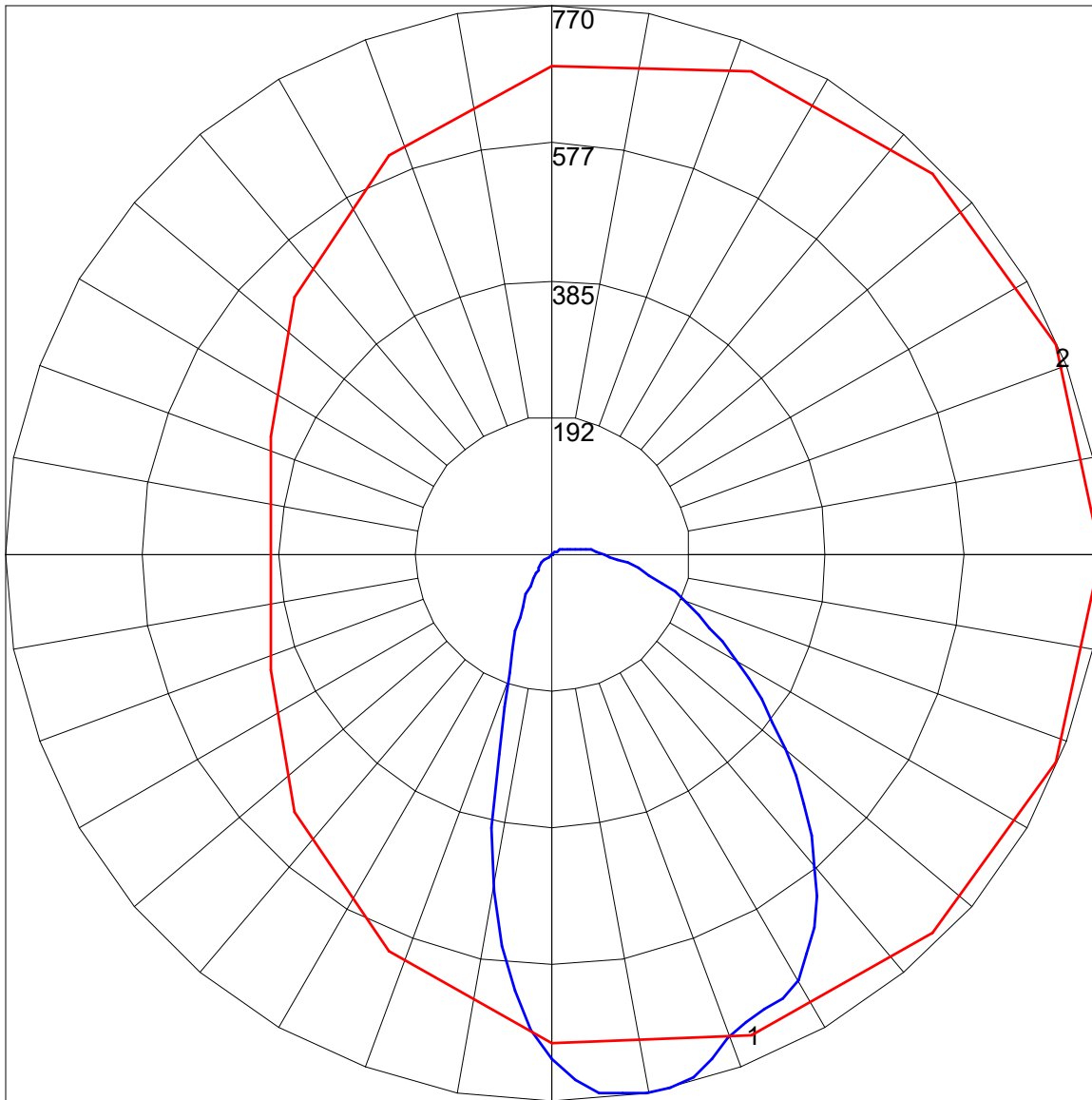
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	42	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 = 769.69 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.)