



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-PSTD-REG3-LED35LO-04-AWW-D1G.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]31680

[TESTLAB]LIGHTING SCIENCES, INC.

[ISSUE DATE] 4/ 3/2013

[MANUFACTURER]PRUDENTIAL LIGHTING - LED LUMINAIRE

[LUMEN CATEGORY]BIO-PSTD-REG3-LED35LO-04-AWW-D1G

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

[OTHER]ONE EPTRONICS DRIVER OPERATING AT 120 VAC AND 19 WATTS

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1285
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	19
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	4774	4971	4264
55	4066	4358	3595
65	3575	3681	2880
75	3363	3322	2303
85	3798	3634	1899

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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	642.377	642.377	642.377	642.377	642.377	642.377	642.377	642.377	642.377	642.377
2.5	671.058	669.209	664.952	651.794	641.732	626.940	620.275	609.009	605.870	609.009
5.0	688.129	685.334	677.852	659.792	639.496	611.116	587.165	565.536	559.129	565.536
7.5	691.698	691.397	686.065	664.565	635.153	592.153	553.797	517.978	504.605	517.978
10.0	696.213	692.644	686.108	666.457	629.864	570.137	513.377	456.144	436.364	456.144
12.5	696.772	694.192	682.410	665.038	621.737	548.981	463.024	387.215	358.276	387.215
15.0	689.376	690.150	682.324	659.061	612.019	525.202	412.370	303.666	265.611	303.666
17.5	673.896	676.347	675.186	649.300	601.441	497.768	353.116	229.147	204.508	229.147
20.0	655.879	657.728	662.587	638.077	588.584	465.432	287.541	185.459	161.637	185.459
22.5	646.806	644.312	646.376	627.284	574.351	433.784	231.598	147.791	130.849	147.791
25.0	640.528	634.551	626.467	612.621	559.473	399.427	191.737	123.109	109.994	123.109
27.5	637.475	629.477	610.901	599.033	541.112	365.285	159.659	103.716	92.751	103.716
30.0	627.628	622.898	597.141	578.565	523.396	326.972	132.655	87.763	77.013	87.763
32.5	604.623	605.870	586.348	557.323	501.208	290.508	112.660	73.616	62.608	73.616
35.0	579.253	581.575	571.814	534.232	479.622	253.184	96.191	60.028	50.396	60.028
37.5	551.174	553.195	551.518	510.797	455.628	219.687	82.216	49.063	41.452	49.063
40.0	519.913	522.751	526.363	489.727	429.484	189.415	69.746	40.850	34.056	40.850
42.5	487.018	490.458	494.457	466.722	402.394	163.787	58.093	33.841	28.251	33.841
45.0	452.016	456.832	461.519	442.513	372.896	141.599	48.848	28.165	23.435	28.165
47.5	419.336	423.894	429.097	417.014	343.699	120.357	40.721	23.392	18.877	23.392
50.0	385.581	392.633	397.664	387.559	312.653	100.663	33.798	18.963	13.201	18.963
52.5	352.772	360.770	366.532	356.599	284.961	84.753	27.692	12.986	4.773	12.986
55.0	323.446	328.692	337.292	324.994	255.850	71.380	22.274	4.945	0.000	4.945
57.5	294.894	298.592	307.751	294.980	227.470	59.426	17.544	1.290	0.000	1.290
60.0	269.352	270.771	278.038	265.955	200.982	49.063	12.341	0.946	0.000	0.946
62.5	244.498	246.218	249.959	237.790	175.483	39.732	5.977	0.817	0.000	0.817
65.0	221.622	222.955	219.429	213.452	151.790	31.519	4.429	0.774	0.000	0.774
67.5	201.283	201.756	193.027	189.200	130.591	24.467	3.999	0.731	0.000	0.731
70.0	181.245	181.374	171.742	167.657	110.596	18.404	3.870	0.516	0.000	0.516
72.5	162.067	162.110	151.790	145.684	92.321	12.943	3.397	0.473	0.000	0.473
75.0	143.104	143.878	132.956	122.249	75.207	8.600	3.139	0.430	0.000	0.430
77.5	125.646	126.377	115.283	96.105	59.598	7.396	2.838	0.344	0.000	0.344
80.0	110.940	109.865	99.244	78.776	45.752	6.364	2.537	0.215	0.000	0.215
82.5	96.707	94.643	84.108	63.726	34.056	5.375	2.150	0.215	0.000	0.215
85.0	82.861	80.238	69.789	49.794	22.059	4.343	1.892	0.086	0.000	0.086
87.5	72.756	69.273	57.190	37.066	12.513	3.526	1.720	0.043	0.000	0.043
90.0	64.328	60.931	48.934	28.165	4.429	3.311	1.763	0.043	0.000	0.043
92.5	56.416	53.320	41.753	22.360	7.224	3.311	1.720	0.086	0.000	0.086
95.0	48.977	46.139	35.217	17.845	7.052	2.967	1.634	0.086	0.000	0.086
97.5	42.011	39.302	29.412	13.846	6.751	2.752	1.505	0.043	0.000	0.043
100.0	35.561	32.981	24.209	10.062	6.192	2.623	1.376	0.043	0.000	0.043
102.5	29.541	27.348	19.393	7.224	5.633	2.580	1.204	0.000	0.000	0.000
105.0	23.951	22.188	14.835	6.149	4.988	2.408	1.118	0.000	0.000	0.000
107.5	19.092	17.415	10.793	5.547	4.472	2.279	1.032	0.000	0.000	0.000
110.0	14.534	13.201	7.310	4.988	4.128	2.150	0.946	0.000	0.000	0.000
112.5	10.492	9.202	4.300	4.601	3.655	1.935	0.817	0.000	0.000	0.000
115.0	6.708	5.590	3.268	4.085	3.225	1.806	0.774	0.000	0.000	0.000
117.5	3.440	2.494	2.967	3.741	2.967	1.548	0.688	0.000	0.000	0.000
120.0	0.473	0.602	2.537	3.483	2.623	1.505	0.602	0.000	0.000	0.000
122.5	0.000	0.430	2.236	3.096	2.279	1.333	0.516	0.000	0.000	0.000
125.0	0.000	0.301	1.935	2.709	1.978	1.161	0.473	0.000	0.000	0.000
127.5	0.000	0.172	1.677	2.365	1.806	1.032	0.344	0.000	0.000	0.000
130.0	0.000	0.086	1.462	2.064	1.591	0.903	0.301	0.000	0.000	0.000
132.5	0.000	0.000	1.204	1.806	1.376	0.817	0.172	0.000	0.000	0.000

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PHOTOMETRIC FILENAME : BIO-PSTD-REG3-LED35LO-04-AWW-D1G.IES

CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	1.075	1.591	1.204	0.645	0.172	0.000	0.000	0.000
137.5	0.000	0.000	0.946	1.376	1.118	0.602	0.086	0.000	0.000	0.000
140.0	0.000	0.000	0.731	1.247	0.903	0.430	0.043	0.000	0.000	0.000
142.5	0.000	0.000	0.559	0.989	0.774	0.344	0.043	0.000	0.000	0.000
145.0	0.000	0.000	0.430	0.774	0.645	0.301	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.344	0.645	0.473	0.258	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.172	0.516	0.387	0.172	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.172	0.387	0.344	0.086	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.043	0.258	0.172	0.172	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.172	0.129	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.086	0.043	0.043	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.086	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**

	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	642.377	642.377	642.377	642.377	642.377	642.377	642.377
2.5	620.275	626.940	641.732	651.794	664.952	669.209	671.058
5.0	587.165	611.116	639.496	659.792	677.852	685.334	688.129
7.5	553.797	592.153	635.153	664.565	686.065	691.397	691.698
10.0	513.377	570.137	629.864	666.457	686.108	692.644	696.213
12.5	463.024	548.981	621.737	665.038	682.410	694.192	696.772
15.0	412.370	525.202	612.019	659.061	682.324	690.150	689.376
17.5	353.116	497.768	601.441	649.300	675.186	676.347	673.896
20.0	287.541	465.432	588.584	638.077	662.587	657.728	655.879
22.5	231.598	433.784	574.351	627.284	646.376	644.312	646.806
25.0	191.737	399.427	559.473	612.621	626.467	634.551	640.528
27.5	159.659	365.285	541.112	599.033	610.901	629.477	637.475
30.0	132.655	326.972	523.396	578.565	597.141	622.898	627.628
32.5	112.660	290.508	501.208	557.323	586.348	605.870	604.623
35.0	96.191	253.184	479.622	534.232	571.814	581.575	579.253
37.5	82.216	219.687	455.628	510.797	551.518	553.195	551.174
40.0	69.746	189.415	429.484	489.727	526.363	522.751	519.913
42.5	58.093	163.787	402.394	466.722	494.457	490.458	487.018
45.0	48.848	141.599	372.896	442.513	461.519	456.832	452.016
47.5	40.721	120.357	343.699	417.014	429.097	423.894	419.336
50.0	33.798	100.663	312.653	387.559	397.664	392.633	385.581
52.5	27.692	84.753	284.961	356.599	366.532	360.770	352.772
55.0	22.274	71.380	255.850	324.994	337.292	328.692	323.446
57.5	17.544	59.426	227.470	294.980	307.751	298.592	294.894
60.0	12.341	49.063	200.982	265.955	278.038	270.771	269.352
62.5	5.977	39.732	175.483	237.790	249.959	246.218	244.498
65.0	4.429	31.519	151.790	213.452	219.429	222.955	221.622
67.5	3.999	24.467	130.591	189.200	193.027	201.756	201.283
70.0	3.870	18.404	110.596	167.657	171.742	181.374	181.245
72.5	3.397	12.943	92.321	145.684	151.790	162.110	162.067
75.0	3.139	8.600	75.207	122.249	132.956	143.878	143.104
77.5	2.838	7.396	59.598	96.105	115.283	126.377	125.646
80.0	2.537	6.364	45.752	78.776	99.244	109.865	110.940

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CANDELA TABULATION - (Cont.)

82.5	2.150	5.375	34.056	63.726	84.108	94.643	96.707
85.0	1.892	4.343	22.059	49.794	69.789	80.238	82.861
87.5	1.720	3.526	12.513	37.066	57.190	69.273	72.756
90.0	1.763	3.311	4.429	28.165	48.934	60.931	64.328
92.5	1.720	3.311	7.224	22.360	41.753	53.320	56.416
95.0	1.634	2.967	7.052	17.845	35.217	46.139	48.977
97.5	1.505	2.752	6.751	13.846	29.412	39.302	42.011
100.0	1.376	2.623	6.192	10.062	24.209	32.981	35.561
102.5	1.204	2.580	5.633	7.224	19.393	27.348	29.541
105.0	1.118	2.408	4.988	6.149	14.835	22.188	23.951
107.5	1.032	2.279	4.472	5.547	10.793	17.415	19.092
110.0	0.946	2.150	4.128	4.988	7.310	13.201	14.534
112.5	0.817	1.935	3.655	4.601	4.300	9.202	10.492
115.0	0.774	1.806	3.225	4.085	3.268	5.590	6.708
117.5	0.688	1.548	2.967	3.741	2.967	2.494	3.440
120.0	0.602	1.505	2.623	3.483	2.537	0.602	0.473
122.5	0.516	1.333	2.279	3.096	2.236	0.430	0.000
125.0	0.473	1.161	1.978	2.709	1.935	0.301	0.000
127.5	0.344	1.032	1.806	2.365	1.677	0.172	0.000
130.0	0.301	0.903	1.591	2.064	1.462	0.086	0.000
132.5	0.172	0.817	1.376	1.806	1.204	0.000	0.000
135.0	0.172	0.645	1.204	1.591	1.075	0.000	0.000
137.5	0.086	0.602	1.118	1.376	0.946	0.000	0.000
140.0	0.043	0.430	0.903	1.247	0.731	0.000	0.000
142.5	0.043	0.344	0.774	0.989	0.559	0.000	0.000
145.0	0.000	0.301	0.645	0.774	0.430	0.000	0.000
147.5	0.000	0.258	0.473	0.645	0.344	0.000	0.000
150.0	0.000	0.172	0.387	0.516	0.172	0.000	0.000
152.5	0.000	0.086	0.344	0.387	0.172	0.000	0.000
155.0	0.000	0.172	0.172	0.258	0.043	0.000	0.000
157.5	0.000	0.000	0.129	0.172	0.000	0.000	0.000
160.0	0.000	0.043	0.043	0.086	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.086	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	211.80	N.A.	16.50
0-30	415.35	N.A.	32.30
0-40	641.14	N.A.	49.90
0-60	1021.73	N.A.	79.50
0-80	1215.21	N.A.	94.60
0-90	1252.98	N.A.	97.50
10-90	1193.78	N.A.	92.90
20-40	429.33	N.A.	33.40
20-50	640.63	N.A.	49.90
40-70	499.85	N.A.	38.90
60-80	193.47	N.A.	15.10
70-80	74.22	N.A.	5.80
80-90	37.77	N.A.	2.90
90-110	27.25	N.A.	2.10
90-120	30.18	N.A.	2.30
90-130	31.17	N.A.	2.40
90-150	31.81	N.A.	2.50
90-180	31.85	N.A.	2.50
110-180	4.60	N.A.	0.40
0-180	1284.83	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	59.20
10-20	152.60
20-30	203.54
30-40	225.79
40-50	211.30
50-60	169.30
60-70	119.26
70-80	74.22
80-90	37.77
90-100	18.61
100-110	8.64
110-120	2.93
120-130	0.98
130-140	0.47
140-150	0.18
150-160	0.04
160-170	0.00
170-180	0.00

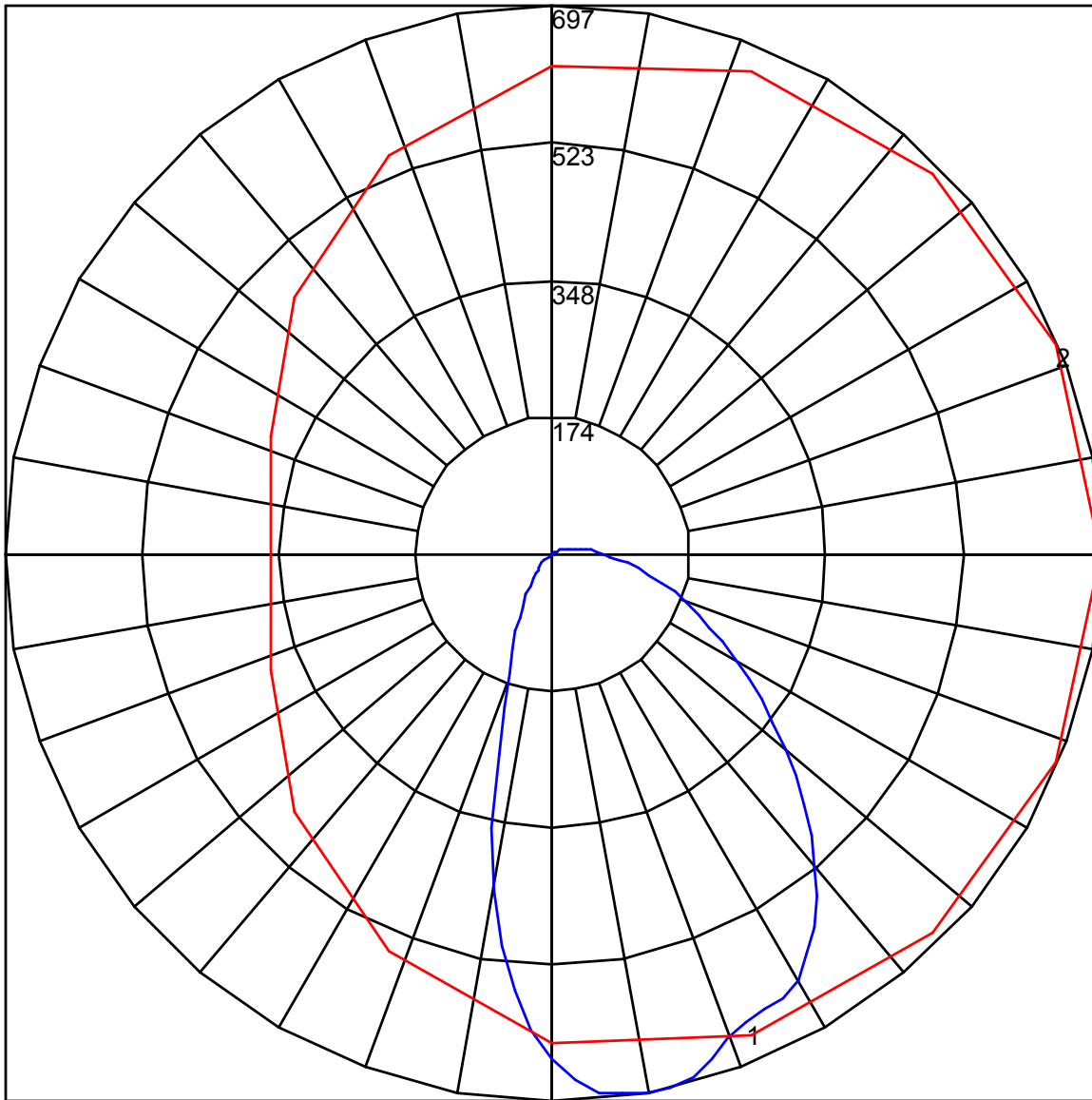
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 696.772 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.)