



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-LIN-LED35-SO-04-AWL-D1R.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]32273

[TESTLAB]

[ISSUE DATE]

[MANUFAC]PRUDENTIAL LIGHTING - LED WALL WASH

[LUMCAT] BIO-LIN-LED35-SO-04-AWL-D1W

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3220
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	33.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.16
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.70
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.30 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18071	20508	7287
55	14161	16249	6966
65	10306	12293	6154
75	6759	8584	4857
85	4200	4815	2818

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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>
<b>0.0</b>	823.935	823.935	823.935	823.935	823.935	823.935	823.935	823.935	823.935	823.935
<b>2.5</b>	911.505	908.880	888.825	854.700	827.715	779.310	752.430	730.905	721.245	730.905
<b>5.0</b>	1028.370	1017.660	966.420	892.185	825.405	743.820	693.525	659.505	645.855	659.505
<b>7.5</b>	1167.075	1141.455	1051.785	930.615	821.310	709.800	641.130	599.235	584.640	599.235
<b>10.0</b>	1330.455	1285.305	1147.545	969.465	816.585	678.300	595.350	548.625	533.715	548.625
<b>12.5</b>	1518.615	1449.735	1254.540	1012.095	811.860	646.695	554.505	506.310	491.505	506.310
<b>15.0</b>	1719.900	1625.610	1372.245	1050.000	800.940	614.670	518.280	471.135	456.855	471.135
<b>17.5</b>	1909.215	1800.750	1492.680	1088.850	790.230	585.060	486.675	441.840	428.820	441.840
<b>20.0</b>	2064.720	1956.150	1610.595	1127.910	778.785	557.235	459.270	417.480	404.880	417.480
<b>22.5</b>	2177.385	2081.625	1724.940	1166.865	767.760	531.195	436.590	397.950	387.030	397.950
<b>25.0</b>	2242.380	2168.250	1828.995	1204.035	751.065	507.045	414.855	380.310	370.440	380.310
<b>27.5</b>	2256.450	2210.985	1913.625	1237.110	734.790	483.945	396.795	364.875	356.895	364.875
<b>30.0</b>	2217.600	2203.005	1973.055	1268.610	716.835	461.580	379.680	350.700	344.715	350.700
<b>32.5</b>	2128.035	2143.470	1992.690	1295.910	696.885	440.580	362.880	339.045	332.850	339.045
<b>35.0</b>	2004.135	2042.880	1988.385	1315.230	675.885	420.630	348.600	327.600	321.405	327.600
<b>37.5</b>	1861.440	1909.635	1942.185	1327.305	653.940	402.150	335.055	315.840	309.645	315.840
<b>40.0</b>	1714.335	1763.055	1863.435	1330.875	629.685	383.565	320.565	303.450	297.255	303.450
<b>42.5</b>	1569.015	1616.265	1752.135	1322.265	603.225	365.820	307.125	290.745	284.025	290.745
<b>45.0</b>	1425.900	1470.000	1618.155	1300.110	574.980	347.865	293.370	276.780	270.690	276.780
<b>47.5</b>	1285.200	1330.455	1472.520	1262.415	545.580	328.965	278.250	262.710	255.465	262.710
<b>50.0</b>	1151.850	1192.380	1325.940	1208.655	514.500	309.960	263.340	247.905	239.610	247.905
<b>52.5</b>	1025.430	1060.080	1180.200	1137.570	481.320	289.800	247.275	232.365	224.280	232.365
<b>55.0</b>	906.360	934.920	1040.025	1050.210	445.830	268.905	230.790	216.300	208.740	216.300
<b>57.5</b>	791.700	818.895	909.510	950.040	408.030	247.380	213.255	199.920	192.465	199.920
<b>60.0</b>	683.655	713.370	788.550	841.785	368.655	225.225	194.985	182.805	176.400	182.805
<b>62.5</b>	580.650	610.890	679.560	732.795	329.385	202.440	176.715	165.795	159.390	165.795
<b>65.0</b>	486.045	515.340	579.705	626.850	290.220	179.445	158.235	148.365	142.695	148.365
<b>67.5</b>	400.785	425.460	486.465	526.260	251.580	156.450	139.650	130.935	126.000	130.935
<b>70.0</b>	323.925	343.455	399.420	431.865	213.570	133.455	120.750	113.190	108.885	113.190
<b>72.5</b>	254.835	270.690	319.515	347.025	176.085	110.355	101.745	95.130	92.190	95.130
<b>75.0</b>	195.195	208.425	247.905	270.900	140.280	88.095	82.635	77.280	75.180	77.280
<b>77.5</b>	144.480	155.085	184.590	204.330	107.205	66.990	64.365	60.585	59.010	60.585
<b>80.0</b>	102.480	109.515	129.780	145.635	76.860	47.775	46.830	44.520	43.680	44.520
<b>82.5</b>	67.830	71.295	83.580	94.605	49.770	30.450	30.975	30.450	29.925	30.450
<b>85.0</b>	40.845	41.475	46.830	52.080	27.405	16.275	17.220	17.850	17.745	17.850
<b>87.5</b>	21.210	21.000	21.630	21.525	10.395	5.145	6.720	7.875	8.190	7.875
<b>90.0</b>	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>
<b>0.0</b>	823.935	823.935	823.935	823.935	823.935	823.935	823.935
<b>2.5</b>	752.430	779.310	827.715	854.700	888.825	908.880	911.505
<b>5.0</b>	693.525	743.820	825.405	892.185	966.420	1017.660	1028.370
<b>7.5</b>	641.130	709.800	821.310	930.615	1051.785	1141.455	1167.075
<b>10.0</b>	595.350	678.300	816.585	969.465	1147.545	1285.305	1330.455
<b>12.5</b>	554.505	646.695	811.860	1012.095	1254.540	1449.735	1518.615
<b>15.0</b>	518.280	614.670	800.940	1050.000	1372.245	1625.610	1719.900
<b>17.5</b>	486.675	585.060	790.230	1088.850	1492.680	1800.750	1909.215
<b>20.0</b>	459.270	557.235	778.785	1127.910	1610.595	1956.150	2064.720
<b>22.5</b>	436.590	531.195	767.760	1166.865	1724.940	2081.625	2177.385
<b>25.0</b>	414.855	507.045	751.065	1204.035	1828.995	2168.250	2242.380
<b>27.5</b>	396.795	483.945	734.790	1237.110	1913.625	2210.985	2256.450
<b>30.0</b>	379.680	461.580	716.835	1268.610	1973.055	2203.005	2217.600

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	362.880	440.580	696.885	1295.910	1992.690	2143.470	2128.035
<b>35.0</b>	348.600	420.630	675.885	1315.230	1988.385	2042.880	2004.135
<b>37.5</b>	335.055	402.150	653.940	1327.305	1942.185	1909.635	1861.440
<b>40.0</b>	320.565	383.565	629.685	1330.875	1863.435	1763.055	1714.335
<b>42.5</b>	307.125	365.820	603.225	1322.265	1752.135	1616.265	1569.015
<b>45.0</b>	293.370	347.865	574.980	1300.110	1618.155	1470.000	1425.900
<b>47.5</b>	278.250	328.965	545.580	1262.415	1472.520	1330.455	1285.200
<b>50.0</b>	263.340	309.960	514.500	1208.655	1325.940	1192.380	1151.850
<b>52.5</b>	247.275	289.800	481.320	1137.570	1180.200	1060.080	1025.430
<b>55.0</b>	230.790	268.905	445.830	1050.210	1040.025	934.920	906.360
<b>57.5</b>	213.255	247.380	408.030	950.040	909.510	818.895	791.700
<b>60.0</b>	194.985	225.225	368.655	841.785	788.550	713.370	683.655
<b>62.5</b>	176.715	202.440	329.385	732.795	679.560	610.890	580.650
<b>65.0</b>	158.235	179.445	290.220	626.850	579.705	515.340	486.045
<b>67.5</b>	139.650	156.450	251.580	526.260	486.465	425.460	400.785
<b>70.0</b>	120.750	133.455	213.570	431.865	399.420	343.455	323.925
<b>72.5</b>	101.745	110.355	176.085	347.025	319.515	270.690	254.835
<b>75.0</b>	82.635	88.095	140.280	270.900	247.905	208.425	195.195
<b>77.5</b>	64.365	66.990	107.205	204.330	184.590	155.085	144.480
<b>80.0</b>	46.830	47.775	76.860	145.635	129.780	109.515	102.480
<b>82.5</b>	30.975	30.450	49.770	94.605	83.580	71.295	67.830
<b>85.0</b>	17.220	16.275	27.405	52.080	46.830	41.475	40.845
<b>87.5</b>	6.720	5.145	10.395	21.525	21.630	21.000	21.210
<b>90.0</b>	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	350.16	N.A.	10.90
0-30	842.62	N.A.	26.20
0-40	1486.37	N.A.	46.20
0-60	2663.81	N.A.	82.70
0-80	3181.91	N.A.	98.80
0-90	3220.48	N.A.	100.00
10-90	3139.95	N.A.	97.50
20-40	1136.21	N.A.	35.30
20-50	1783.43	N.A.	55.40
40-70	1527.15	N.A.	47.40
60-80	518.10	N.A.	16.10
70-80	168.40	N.A.	5.20
80-90	38.57	N.A.	1.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3220.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	80.53
10-20	269.63
20-30	492.46
30-40	643.74
40-50	647.23
50-60	530.22
60-70	349.71
70-80	168.40
80-90	38.57
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

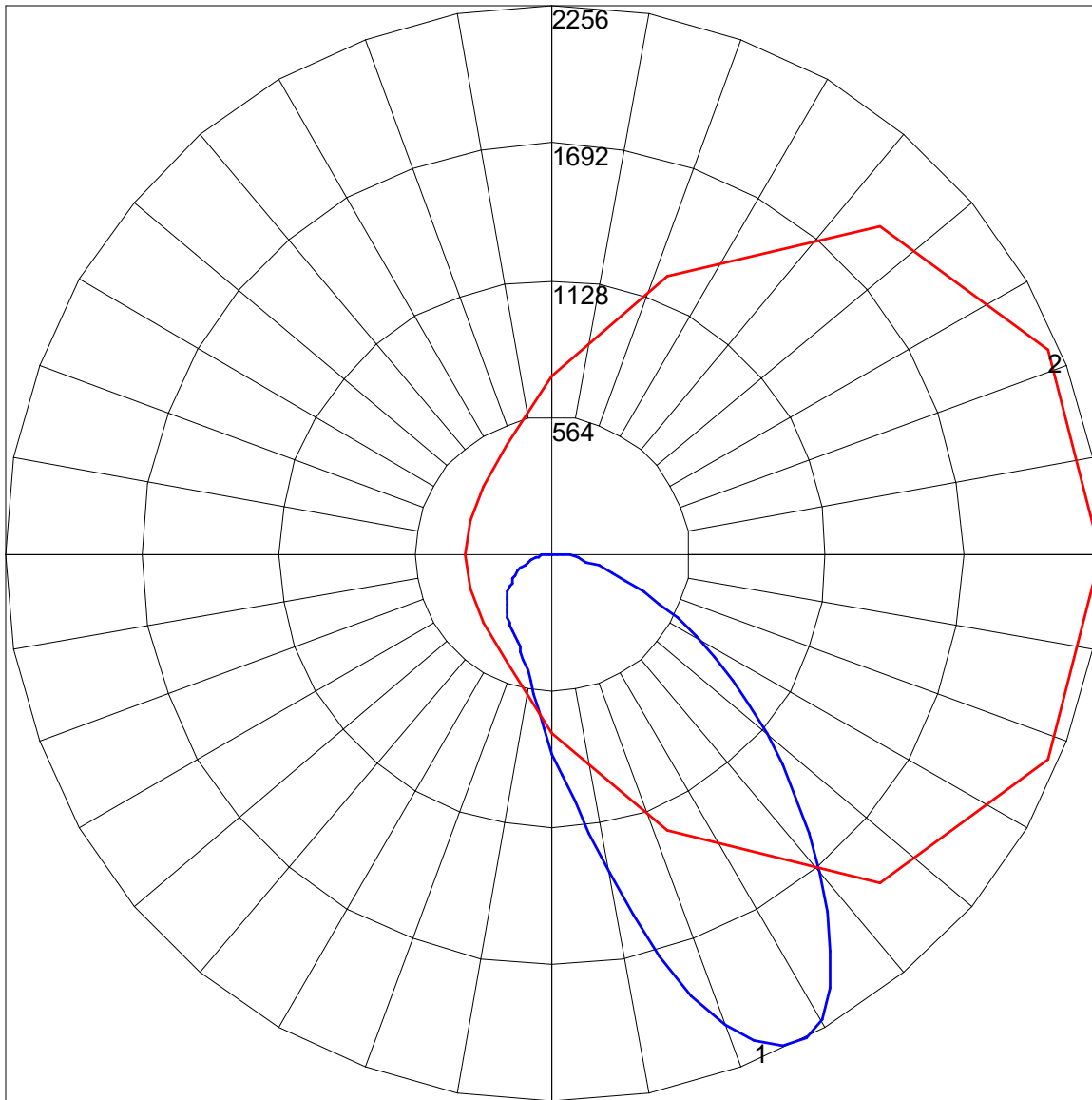
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 2256.45 Located At Horizontal Angle = 0, Vertical Angle = 27.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)