



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-LIN-LED35-MO-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-MO-04-AWL-D1W

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2454
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	24
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	13769	15625	5552
55	10789	12380	5307
65	7853	9366	4689
75	5149	6540	3701
85	3200	3669	2147

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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	627.76	627.76	627.76	627.76	627.76	627.76	627.76	627.76	627.76	627.76
2.5	694.48	692.48	677.20	651.20	630.64	593.76	573.28	556.88	549.52	556.88
5.0	783.52	775.36	736.32	679.76	628.88	566.72	528.40	502.48	492.08	502.48
7.5	889.20	869.68	801.36	709.04	625.76	540.80	488.48	456.56	445.44	456.56
10.0	1013.68	979.28	874.32	738.64	622.16	516.80	453.60	418.00	406.64	418.00
12.5	1157.04	1104.56	955.84	771.12	618.56	492.72	422.48	385.76	374.48	385.76
15.0	1310.40	1238.56	1045.52	800.00	610.24	468.32	394.88	358.96	348.08	358.96
17.5	1454.64	1372.00	1137.28	829.60	602.08	445.76	370.80	336.64	326.72	336.64
20.0	1573.12	1490.40	1227.12	859.36	593.36	424.56	349.92	318.08	308.48	318.08
22.5	1658.96	1586.00	1314.24	889.04	584.96	404.72	332.64	303.20	294.88	303.20
25.0	1708.48	1652.00	1393.52	917.36	572.24	386.32	316.08	289.76	282.24	289.76
27.5	1719.20	1684.56	1458.00	942.56	559.84	368.72	302.32	278.00	271.92	278.00
30.0	1689.60	1678.48	1503.28	966.56	546.16	351.68	289.28	267.20	262.64	267.20
32.5	1621.36	1633.12	1518.24	987.36	530.96	335.68	276.48	258.32	253.60	258.32
35.0	1526.96	1556.48	1514.96	1002.08	514.96	320.48	265.60	249.60	244.88	249.60
37.5	1418.24	1454.96	1479.76	1011.28	498.24	306.40	255.28	240.64	235.92	240.64
40.0	1306.16	1343.28	1419.76	1014.00	479.76	292.24	244.24	231.20	226.48	231.20
42.5	1195.44	1231.44	1334.96	1007.44	459.60	278.72	234.00	221.52	216.40	221.52
45.0	1086.40	1120.00	1232.88	990.56	438.08	265.04	223.52	210.88	206.24	210.88
47.5	979.20	1013.68	1121.92	961.84	415.68	250.64	212.00	200.16	194.64	200.16
50.0	877.60	908.48	1010.24	920.88	392.00	236.16	200.64	188.88	182.56	188.88
52.5	781.28	807.68	899.20	866.72	366.72	220.80	188.40	177.04	170.88	177.04
55.0	690.56	712.32	792.40	800.16	339.68	204.88	175.84	164.80	159.04	164.80
57.5	603.20	623.92	692.96	723.84	310.88	188.48	162.48	152.32	146.64	152.32
60.0	520.88	543.52	600.80	641.36	280.88	171.60	148.56	139.28	134.40	139.28
62.5	442.40	465.44	517.76	558.32	250.96	154.24	134.64	126.32	121.44	126.32
65.0	370.32	392.64	441.68	477.60	221.12	136.72	120.56	113.04	108.72	113.04
67.5	305.36	324.16	370.64	400.96	191.68	119.20	106.40	99.76	96.00	99.76
70.0	246.80	261.68	304.32	329.04	162.72	101.68	92.00	86.24	82.96	86.24
72.5	194.16	206.24	243.44	264.40	134.16	84.08	77.52	72.48	70.24	72.48
75.0	148.72	158.80	188.88	206.40	106.88	67.12	62.96	58.88	57.28	58.88
77.5	110.08	118.16	140.64	155.68	81.68	51.04	49.04	46.16	44.96	46.16
80.0	78.08	83.44	98.88	110.96	58.56	36.40	35.68	33.92	33.28	33.92
82.5	51.68	54.32	63.68	72.08	37.92	23.20	23.60	23.20	22.80	23.20
85.0	31.12	31.60	35.68	39.68	20.88	12.40	13.12	13.60	13.52	13.60
87.5	16.16	16.00	16.48	16.40	7.92	3.92	5.12	6.00	6.24	6.00
90.0	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	627.76	627.76	627.76	627.76	627.76	627.76	627.76
2.5	573.28	593.76	630.64	651.20	677.20	692.48	694.48
5.0	528.40	566.72	628.88	679.76	736.32	775.36	783.52
7.5	488.48	540.80	625.76	709.04	801.36	869.68	889.20
10.0	453.60	516.80	622.16	738.64	874.32	979.28	1013.68
12.5	422.48	492.72	618.56	771.12	955.84	1104.56	1157.04
15.0	394.88	468.32	610.24	800.00	1045.52	1238.56	1310.40
17.5	370.80	445.76	602.08	829.60	1137.28	1372.00	1454.64
20.0	349.92	424.56	593.36	859.36	1227.12	1490.40	1573.12
22.5	332.64	404.72	584.96	889.04	1314.24	1586.00	1658.96
25.0	316.08	386.32	572.24	917.36	1393.52	1652.00	1708.48
27.5	302.32	368.72	559.84	942.56	1458.00	1684.56	1719.20
30.0	289.28	351.68	546.16	966.56	1503.28	1678.48	1689.60

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	276.48	335.68	530.96	987.36	1518.24	1633.12	1621.36
<b>35.0</b>	265.60	320.48	514.96	1002.08	1514.96	1556.48	1526.96
<b>37.5</b>	255.28	306.40	498.24	1011.28	1479.76	1454.96	1418.24
<b>40.0</b>	244.24	292.24	479.76	1014.00	1419.76	1343.28	1306.16
<b>42.5</b>	234.00	278.72	459.60	1007.44	1334.96	1231.44	1195.44
<b>45.0</b>	223.52	265.04	438.08	990.56	1232.88	1120.00	1086.40
<b>47.5</b>	212.00	250.64	415.68	961.84	1121.92	1013.68	979.20
<b>50.0</b>	200.64	236.16	392.00	920.88	1010.24	908.48	877.60
<b>52.5</b>	188.40	220.80	366.72	866.72	899.20	807.68	781.28
<b>55.0</b>	175.84	204.88	339.68	800.16	792.40	712.32	690.56
<b>57.5</b>	162.48	188.48	310.88	723.84	692.96	623.92	603.20
<b>60.0</b>	148.56	171.60	280.88	641.36	600.80	543.52	520.88
<b>62.5</b>	134.64	154.24	250.96	558.32	517.76	465.44	442.40
<b>65.0</b>	120.56	136.72	221.12	477.60	441.68	392.64	370.32
<b>67.5</b>	106.40	119.20	191.68	400.96	370.64	324.16	305.36
<b>70.0</b>	92.00	101.68	162.72	329.04	304.32	261.68	246.80
<b>72.5</b>	77.52	84.08	134.16	264.40	243.44	206.24	194.16
<b>75.0</b>	62.96	67.12	106.88	206.40	188.88	158.80	148.72
<b>77.5</b>	49.04	51.04	81.68	155.68	140.64	118.16	110.08
<b>80.0</b>	35.68	36.40	58.56	110.96	98.88	83.44	78.08
<b>82.5</b>	23.60	23.20	37.92	72.08	63.68	54.32	51.68
<b>85.0</b>	13.12	12.40	20.88	39.68	35.68	31.60	31.12
<b>87.5</b>	5.12	3.92	7.92	16.40	16.48	16.00	16.16
<b>90.0</b>	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	266.79	N.A.	10.90
0-30	642.00	N.A.	26.20
0-40	1132.47	N.A.	46.20
0-60	2029.57	N.A.	82.70
0-80	2424.32	N.A.	98.80
0-90	2453.7	N.A.	100.00
10-90	2392.34	N.A.	97.50
20-40	865.68	N.A.	35.30
20-50	1358.81	N.A.	55.40
40-70	1163.54	N.A.	47.40
60-80	394.75	N.A.	16.10
70-80	128.30	N.A.	5.20
80-90	29.38	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	2453.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	61.36
10-20	205.43
20-30	375.21
30-40	490.47
40-50	493.12
50-60	403.98
60-70	266.44
70-80	128.30
80-90	29.38
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

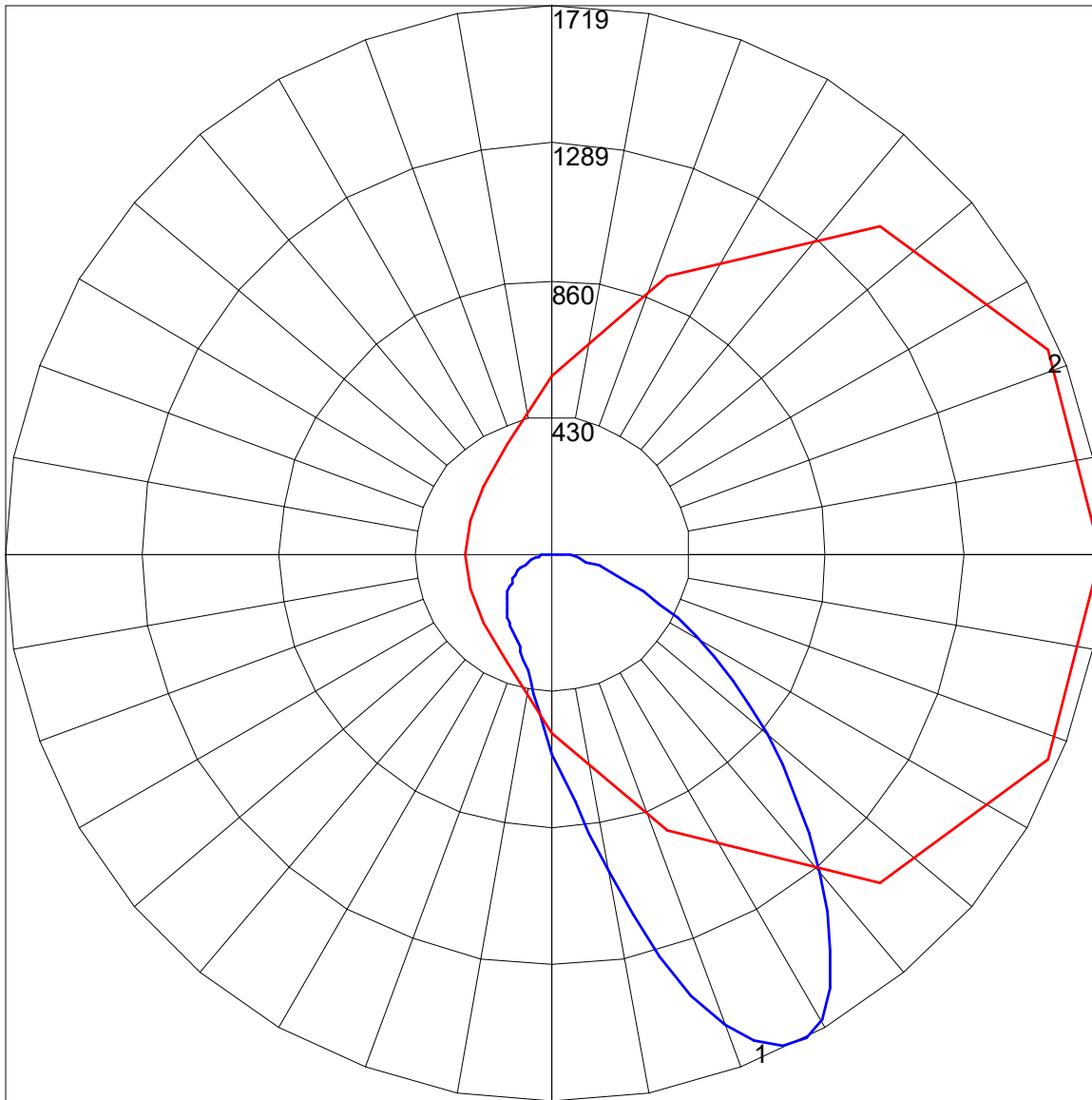
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	102	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	56	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	36	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 = 1719.2 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.)