



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-LIN-LED35-HO-04-ABW-TMW-D1X.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L041412303R01  
 [TESTLAB]  
 [ISSUE DATE]  
 [MANUFAC] PRUDENTIAL LIGHTING  
 [LUMCAT] BIO-LIN-LED35-HO-04-ABW-D1X  
 [LUMINAIRE] 48-1/8"L X 5-1/2"W X 5-5/8"H. LED LUMINAIRE.  
 [MORE] DIFFUSED LENS.  
 [BALLASTCAT] OSRAM OPTOTRONIC UNV/DIM/L  
 [BALLAST] INPUT: 120-277VAC,  
 [LAMPPOSITION] 0,0  
 [LAMPCAT] N/A  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE]

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3836
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.44
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9163	12311	11379
55	8239	10980	8473
65	7299	9234	6461
75	6105	6752	4707
85	4758	4089	3310

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**CANDELA TABULATION**

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
<b>0</b>	1336.204	1336.204	1336.204	1336.204	1336.204	1336.204	1336.204	1336.204	1336.204	1336.204
<b>5</b>	1323.454	1324.056	1325.346	1327.539	1330.549	1335.731	1341.149	1346.352	1350.824	1355.468
<b>10</b>	1297.891	1299.353	1303.803	1311.285	1320.530	1333.151	1347.061	1361.015	1374.280	1387.524
<b>15</b>	1257.019	1259.857	1269.210	1282.905	1300.944	1323.089	1346.459	1369.593	1391.588	1412.077
<b>20</b>	1201.141	1206.021	1220.125	1241.883	1269.274	1300.084	1332.226	1361.918	1389.051	1412.916
<b>25</b>	1132.319	1139.027	1158.184	1187.467	1222.705	1260.760	1298.364	1331.882	1359.897	1382.665
<b>30</b>	1051.544	1060.036	1084.009	1119.505	1160.850	1203.549	1243.904	1277.423	1303.653	1323.411
<b>35</b>	961.330	971.198	998.310	1038.386	1083.450	1128.578	1168.418	1200.388	1223.759	1240.873
<b>40</b>	863.204	873.760	902.914	944.581	990.849	1035.849	1074.678	1104.240	1125.633	1141.242
<b>45</b>	761.487	772.796	802.466	841.188	886.058	928.585	964.963	992.268	1011.683	1023.142
<b>50</b>	657.427	669.123	700.363	739.665	771.528	810.679	843.918	867.805	881.866	886.746
<b>55</b>	555.410	565.278	588.111	621.329	655.256	685.700	715.176	741.406	743.019	740.159
<b>60</b>	465.776	471.087	490.157	517.484	549.755	575.620	601.183	619.329	616.448	606.881
<b>65</b>	362.533	371.993	381.776	403.276	429.097	451.629	468.313	475.193	472.828	458.681
<b>70</b>	273.459	276.641	283.585	296.937	314.975	327.273	337.314	342.474	337.572	323.403
<b>75</b>	185.696	187.050	190.770	199.972	202.767	213.108	220.311	221.515	216.118	205.390
<b>80</b>	110.532	108.726	111.005	108.081	113.026	117.347	119.540	118.745	114.810	108.812
<b>85</b>	48.741	46.677	44.333	44.462	45.043	45.430	45.322	44.656	43.430	41.882
<b>90</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>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
<b>0</b>	1336.204	1336.204	1336.204	1336.204	1336.204	1336.204	1336.204	1336.204	1336.204
<b>5</b>	1359.832	1363.917	1368.002	1370.754	1372.926	1374.925	1376.624	1378.215	1380.300
<b>10</b>	1399.672	1410.680	1420.785	1428.933	1435.964	1440.823	1444.456	1448.713	1451.379
<b>15</b>	1429.965	1445.316	1458.947	1469.482	1478.813	1484.812	1488.703	1493.175	1493.842
<b>20</b>	1432.416	1447.810	1460.366	1470.278	1477.566	1481.651	1484.468	1487.671	1487.263
<b>25</b>	1399.801	1412.099	1422.096	1428.998	1433.470	1435.792	1436.953	1438.565	1439.812
<b>30</b>	1337.107	1347.169	1355.231	1360.606	1363.917	1365.530	1365.917	1368.045	1368.884
<b>35</b>	1253.214	1262.029	1269.038	1272.112	1272.585	1271.661	1270.715	1271.145	1271.424
<b>40</b>	1151.153	1156.485	1157.668	1153.282	1146.875	1139.264	1133.738	1130.535	1129.245
<b>45</b>	1026.948	1023.422	1013.725	998.245	981.540	966.404	955.202	948.559	945.678
<b>50</b>	880.683	866.214	844.069	819.623	796.102	775.398	759.509	750.694	748.609
<b>55</b>	724.077	699.610	671.209	642.549	617.287	597.550	581.317	572.180	571.169
<b>60</b>	584.908	559.258	527.847	501.466	478.913	459.133	447.372	440.987	440.299
<b>65</b>	436.042	410.801	386.312	364.705	348.752	335.271	327.230	321.490	320.931
<b>70</b>	304.591	285.155	267.159	252.819	241.209	233.254	227.685	224.116	223.299
<b>75</b>	192.382	180.149	169.184	160.390	153.876	149.275	145.813	143.900	143.169
<b>80</b>	102.168	96.428	91.397	87.419	84.409	82.087	80.475	79.572	79.206
<b>85</b>	40.248	38.765	37.475	36.357	35.454	34.680	34.207	33.927	33.906
<b>90</b>	0.000	0.000	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	522.92	N.A.	13.60
0-30	1137.21	N.A.	29.60
0-40	1875.48	N.A.	48.90
0-60	3189.15	N.A.	83.10
0-80	3786.58	N.A.	98.70
0-90	3836.27	N.A.	100.00
10-90	3706.35	N.A.	96.60
20-40	1352.57	N.A.	35.30
20-50	2078.5	N.A.	54.20
40-70	1712.19	N.A.	44.60
60-80	597.43	N.A.	15.60
70-80	198.91	N.A.	5.20
80-90	49.69	N.A.	1.30
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	3836.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	129.92
10-20	392.99
20-30	614.29
30-40	738.27
40-50	725.93
50-60	587.74
60-70	398.52
70-80	198.91
80-90	49.69
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

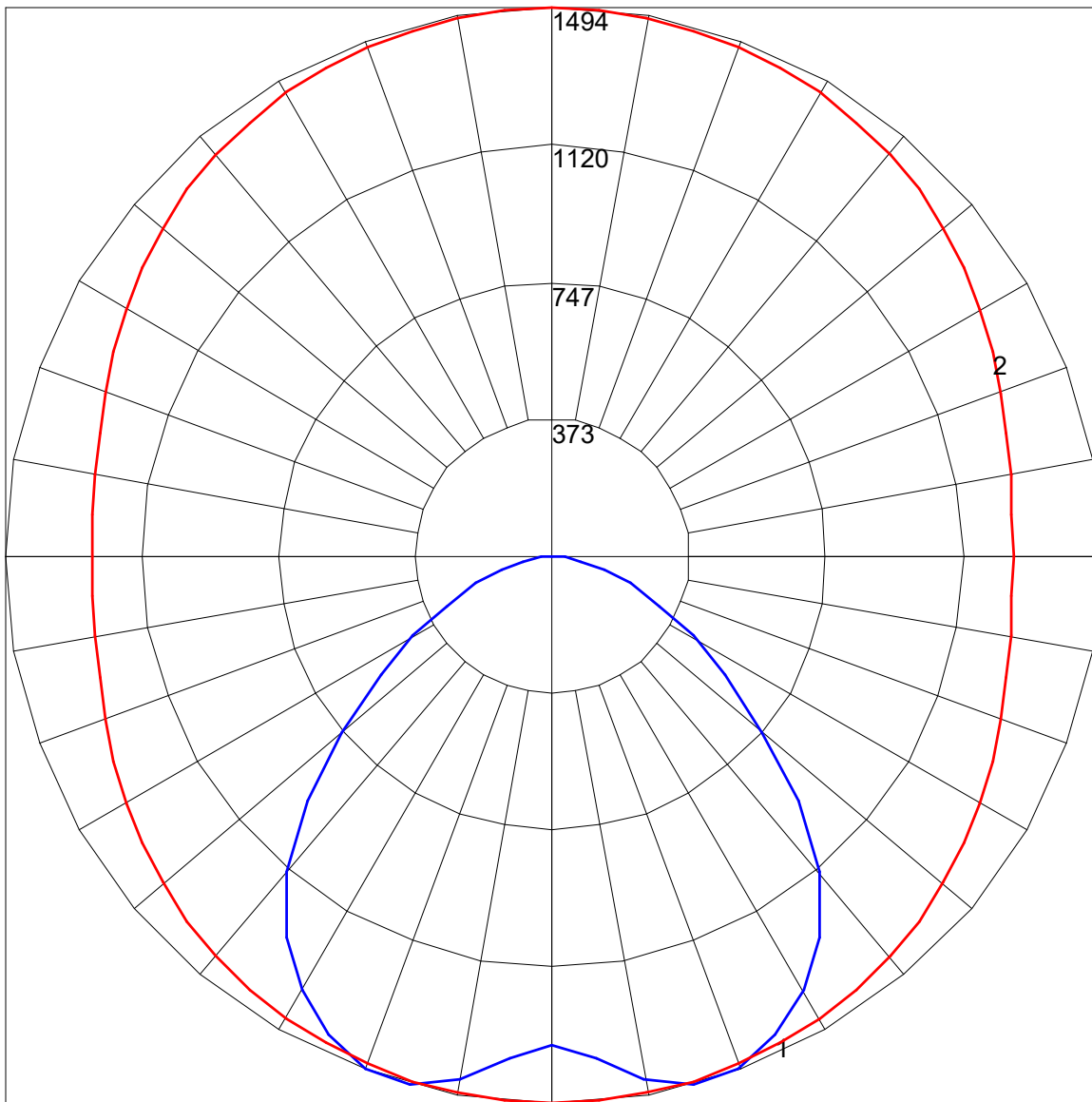
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1493.842 Located At Horizontal Angle = 90, Vertical Angle = 15  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)