

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : PA1212LEDLX-65L35KE1-PA1315.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 101925754CRT-006\_M-65L  
 [TESTLAB]Intertek  
 [LAB-REF LUMCAT] 1501120955-001\_M-65L  
 [ISSUEDATE] 1/13/2015  
 [UPDATE] 6/16/2016  
 [MANUFAC]SPECTRUM LIGHTING  
 [LUMCAT] PA1212LEDLX-65L-35K-Ex-PA1315/xx/xx  
 [LUMINAIRE]LED LOW BAY - CLEAR PRISMATIC ACRYLIC ACORN DIFFUSER  
 [LAMP]N/A  
 [LAMPCAT] N/A  
 [OTHER] CCT Output Multipliers: 40K x 1.031, 30K x 0.979, 27K x 0.959  
 [OTHER] Cat. no. update from AC1316 to PA1316, same material  
 [OTHER] Cat. no. update from 60W to 65L, same LED  
 [OTHER] This report updated by Spectrum Lighting

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6739
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	56.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.50
Spacing Criterion (90-270)	2.48
Spacing Criterion (Diagonal)	2.34
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.00 ft (Diameter)
Luminous Height	0.33 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23201	22976	22840
55	25252	24836	24414
65	19525	19565	19011
75	8232	8444	8291
85	2981	2924	2916

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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>
<b>0.0</b>	849.1	849.1	849.1	849.1	849.1
<b>2.5</b>	894.9	896.8	888.3	886.7	884.5
<b>5.0</b>	958.9	954.0	942.4	947.4	947.5
<b>7.5</b>	1001.3	1007.3	1000.1	998.8	992.9
<b>10.0</b>	1015.2	1007.7	997.3	987.6	997.2
<b>12.5</b>	1017.6	1000.9	990.9	993.1	1002.2
<b>15.0</b>	1062.3	1043.5	1032.6	1032.5	1041.6
<b>17.5</b>	1157.7	1143.6	1130.1	1133.3	1140.2
<b>20.0</b>	1267.0	1262.9	1250.6	1251.0	1261.6
<b>22.5</b>	1344.0	1330.8	1322.9	1324.6	1337.8
<b>25.0</b>	1386.7	1374.7	1364.0	1368.7	1382.2
<b>27.5</b>	1456.3	1449.5	1437.2	1440.2	1452.7
<b>30.0</b>	1528.3	1524.0	1517.1	1514.2	1523.8
<b>32.5</b>	1576.3	1572.6	1571.0	1566.9	1570.7
<b>35.0</b>	1601.7	1597.4	1599.4	1594.5	1596.0
<b>37.5</b>	1609.5	1604.7	1603.4	1598.8	1599.5
<b>40.0</b>	1622.6	1616.5	1610.8	1604.4	1606.9
<b>42.5</b>	1661.4	1656.1	1647.9	1635.2	1638.6
<b>45.0</b>	1701.6	1695.8	1685.1	1671.9	1675.1
<b>47.5</b>	1705.9	1692.4	1677.5	1662.7	1667.8
<b>50.0</b>	1729.4	1715.5	1706.3	1686.9	1692.8
<b>52.5</b>	1732.7	1725.5	1713.7	1685.3	1690.9
<b>55.0</b>	1692.6	1672.0	1664.7	1634.1	1636.4
<b>57.5</b>	1607.1	1579.9	1567.9	1548.5	1535.4
<b>60.0</b>	1481.9	1456.0	1455.9	1434.6	1426.5
<b>62.5</b>	1342.4	1318.6	1335.8	1321.6	1304.2
<b>65.0</b>	1145.7	1126.1	1148.0	1136.7	1115.5
<b>67.5</b>	936.2	913.1	939.6	931.2	917.5
<b>70.0</b>	772.2	759.8	788.1	784.2	766.5
<b>72.5</b>	592.6	586.1	615.0	616.6	599.8
<b>75.0</b>	399.6	389.6	409.9	413.2	402.5
<b>77.5</b>	240.2	222.2	231.8	235.7	233.4
<b>80.0</b>	149.1	140.5	142.0	143.0	145.2
<b>82.5</b>	122.5	120.2	120.0	119.8	119.8
<b>85.0</b>	110.1	108.6	108.0	108.2	107.7
<b>87.5</b>	102.1	101.3	100.6	100.2	100.3
<b>90.0</b>	98.0	98.1	97.7	97.0	97.3
<b>92.5</b>	98.0	97.9	97.4	96.6	97.1
<b>95.0</b>	97.9	98.0	97.2	96.5	96.8
<b>97.5</b>	94.4	94.8	94.0	93.5	93.0
<b>100.0</b>	87.4	88.2	87.5	87.4	86.8
<b>102.5</b>	80.2	80.9	80.6	80.1	80.0
<b>105.0</b>	74.2	74.6	74.5	74.0	74.2
<b>107.5</b>	68.7	68.8	68.7	68.5	68.7
<b>110.0</b>	63.1	62.6	62.5	62.5	62.9
<b>112.5</b>	57.4	56.6	56.6	56.6	57.0
<b>115.0</b>	50.7	49.4	49.3	49.4	49.4
<b>117.5</b>	43.5	42.3	42.2	41.9	42.4
<b>120.0</b>	36.7	35.5	35.3	35.2	35.3
<b>122.5</b>	30.1	29.2	28.9	29.0	28.9
<b>125.0</b>	24.4	23.6	23.1	23.4	23.2
<b>127.5</b>	19.2	18.6	18.0	18.5	18.1
<b>130.0</b>	14.5	14.5	14.2	14.4	14.3
<b>132.5</b>	11.9	11.7	11.5	11.6	11.6

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	9.3	9.3	9.1	9.4	9.3
<b>137.5</b>	7.4	7.5	7.4	7.5	7.5
<b>140.0</b>	6.0	5.9	5.8	6.0	6.0
<b>142.5</b>	4.8	4.6	4.8	4.8	5.1
<b>145.0</b>	3.7	3.7	3.8	3.9	3.9
<b>147.5</b>	2.8	2.7	2.7	2.7	2.9
<b>150.0</b>	2.0	2.1	1.8	2.0	2.1
<b>152.5</b>	1.4	1.4	1.3	1.4	1.4
<b>155.0</b>	0.9	0.8	0.9	0.8	1.0
<b>157.5</b>	0.7	0.4	0.5	0.5	0.6
<b>160.0</b>	0.4	0.3	0.3	0.3	0.2
<b>162.5</b>	0.2	0.1	0.2	0.1	0.1
<b>165.0</b>	0.2	0.2	0.2	0.2	0.1
<b>167.5</b>	0.3	0.2	0.2	0.3	0.2
<b>170.0</b>	0.2	0.3	0.0	0.1	0.2
<b>172.5</b>	0.1	0.1	0.0	0.0	0.1
<b>175.0</b>	0.1	0.0	0.0	0.0	0.0
<b>177.5</b>	0.0	0.0	0.0	0.0	0.0
<b>180.0</b>	0.0	0.0	0.0	0.0	0.0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	401.52	N.A.	6.00
0-30	1045.62	N.A.	15.50
0-40	2041.88	N.A.	30.30
0-60	4792.67	N.A.	71.10
0-80	6351.37	N.A.	94.30
0-90	6474.03	N.A.	96.10
10-90	6381.53	N.A.	94.70
20-40	1640.36	N.A.	24.30
20-50	2932.76	N.A.	43.50
40-70	3863.08	N.A.	57.30
60-80	1558.69	N.A.	23.10
70-80	446.40	N.A.	6.60
80-90	122.67	N.A.	1.80
90-110	183.04	N.A.	2.70
90-120	232.28	N.A.	3.40
90-130	253.99	N.A.	3.80
90-150	263.99	N.A.	3.90
90-180	264.52	N.A.	3.90
110-180	81.48	N.A.	1.20
0-180	6738.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	92.50
10-20	309.02
20-30	644.09
30-40	996.27
40-50	1292.4
50-60	1458.39
60-70	1112.29
70-80	446.40
80-90	122.67
90-100	103.99
100-110	79.05
110-120	49.24
120-130	21.71
130-140	7.55
140-150	2.45
150-160	0.47
160-170	0.06
170-180	0.01

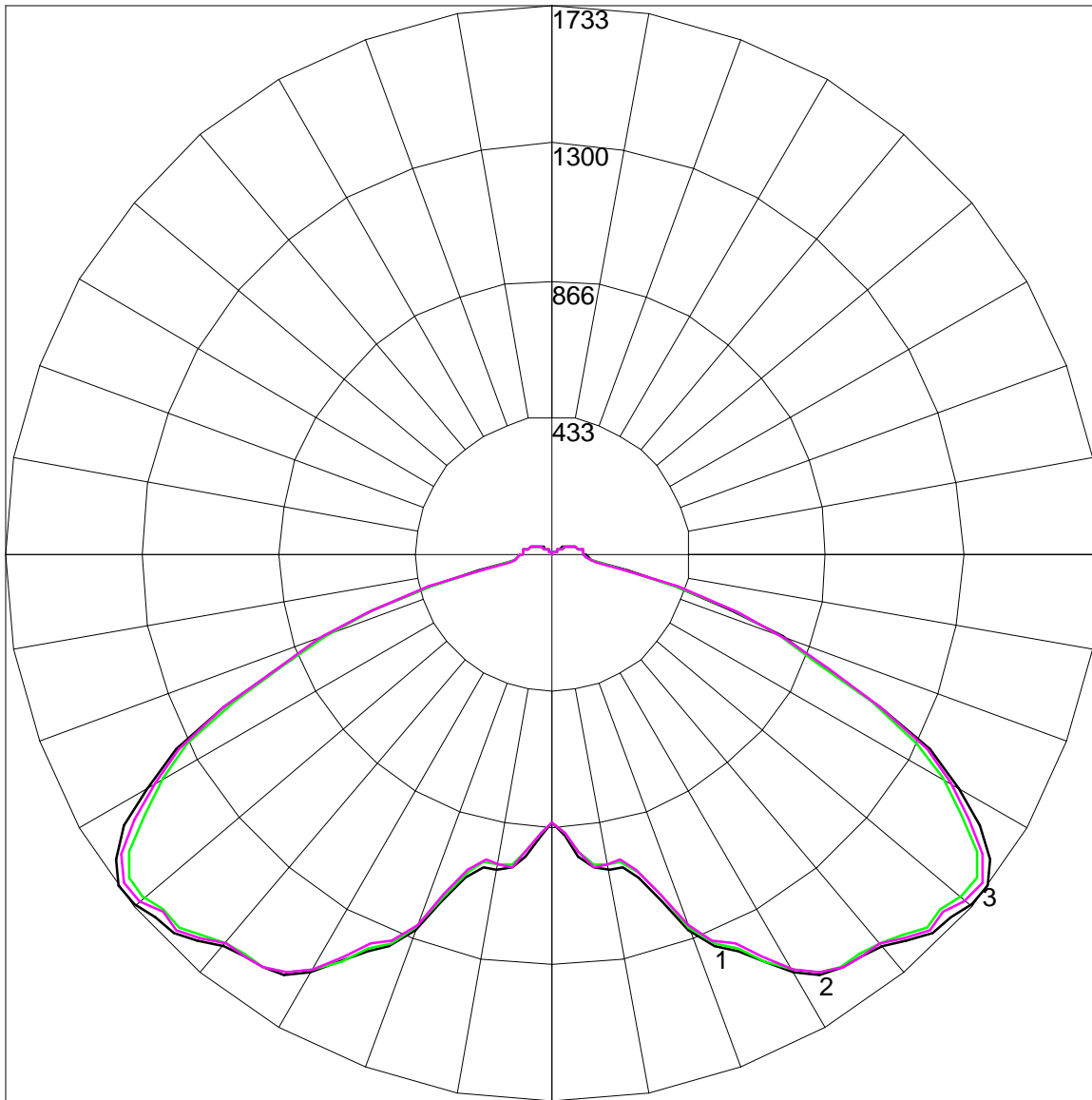
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	109	109	109	103	103	103	98	98	98	96
1	107	102	97	93	104	99	95	91	94	91	87	89	87	84	85	83	81	78
2	96	87	80	73	93	85	78	72	80	75	70	77	72	68	73	69	65	63
3	86	75	66	59	83	73	65	58	69	62	56	66	60	55	63	58	53	51
4	78	65	55	48	75	63	54	47	60	52	46	57	51	45	55	49	44	42
5	71	57	47	40	68	55	46	39	53	45	39	50	43	38	48	42	37	35
6	65	50	41	34	62	49	40	33	47	39	33	45	37	32	43	36	31	29
7	59	45	35	29	57	44	35	28	42	34	28	40	33	27	38	32	27	25
8	55	40	31	25	53	39	31	25	38	30	24	36	29	24	35	28	23	21
9	51	36	28	22	49	36	27	22	34	27	21	33	26	21	31	25	21	19
10	47	33	25	19	46	33	24	19	31	24	19	30	23	18	29	23	18	16

POLAR GRAPH



Maximum Candela = 1732.7 Located At Horizontal Angle = 0, Vertical Angle = 52.5

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)

# 3 - Vertical Plane Through Horizontal Angles (45 - 225)