

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PA1212LEDLX-100L35KE1-PA1315.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 101925754CRT-0061_M-100L
 [TESTLAB]Intertek
 [LAB-REF LUMCAT] 1501120955-001_M-100L
 [ISSUEDATE] 1/13/2015
 [UPDATE] 10/12/2016
 [MANUFAC]SPECTRUM LIGHTING
 [LUMCAT] PA1212LEDLX-100L-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 90W to 100L, same LED
 [OTHER] This report updated by Spectrum Lighting, scaled from 65L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10085
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	88
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	34723	34386	34182
55	37792	37169	36538
65	29222	29280	28452
75	12320	12637	12409
85	4461	4376	4364

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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>
0.0	1270.763	1270.763	1270.763	1270.763	1270.763
2.5	1339.307	1342.151	1329.430	1327.035	1323.743
5.0	1435.090	1427.756	1410.396	1417.879	1418.029
7.5	1498.546	1507.525	1496.750	1494.804	1485.974
10.0	1519.348	1508.124	1492.559	1478.042	1492.410
12.5	1522.940	1497.947	1482.981	1486.273	1499.893
15.0	1589.838	1561.702	1545.389	1545.240	1558.859
17.5	1732.614	1711.512	1691.308	1696.097	1706.423
20.0	1896.192	1890.056	1871.648	1872.247	1888.111
22.5	2011.430	1991.675	1979.852	1982.396	2002.152
25.0	2075.335	2057.376	2041.362	2048.396	2068.601
27.5	2179.499	2169.322	2150.914	2155.403	2174.111
30.0	2287.254	2280.818	2270.492	2266.152	2280.519
32.5	2359.091	2353.553	2351.159	2345.023	2350.710
35.0	2397.104	2390.669	2393.662	2386.329	2388.574
37.5	2408.778	2401.594	2399.648	2392.764	2393.812
40.0	2428.383	2419.254	2410.723	2401.145	2404.887
42.5	2486.451	2478.519	2466.247	2447.240	2452.329
45.0	2546.615	2537.934	2521.921	2502.166	2506.955
47.5	2553.050	2532.846	2510.547	2488.397	2496.030
50.0	2588.220	2567.417	2553.649	2524.615	2533.445
52.5	2593.159	2582.383	2564.723	2522.220	2530.601
55.0	2533.145	2502.315	2491.390	2445.594	2449.036
57.5	2405.186	2364.478	2346.519	2317.485	2297.880
60.0	2217.812	2179.050	2178.900	2147.022	2134.900
62.5	2009.036	1973.417	1999.158	1977.907	1951.866
65.0	1714.655	1685.321	1718.097	1701.185	1669.457
67.5	1401.117	1366.545	1406.205	1393.634	1373.131
70.0	1155.675	1137.117	1179.470	1173.634	1147.144
72.5	886.885	877.157	920.409	922.804	897.661
75.0	598.041	583.075	613.456	618.395	602.382
77.5	359.483	332.545	346.912	352.749	349.306
80.0	223.143	210.272	212.517	214.014	217.306
82.5	183.334	179.891	179.592	179.293	179.293
85.0	164.776	162.531	161.633	161.932	161.184
87.5	152.803	151.606	150.558	149.959	150.109
90.0	146.667	146.816	146.218	145.170	145.619
92.5	146.667	146.517	145.769	144.572	145.320
95.0	146.517	146.667	145.470	144.422	144.871
97.5	141.279	141.878	140.680	139.932	139.184
100.0	130.803	132.000	130.953	130.803	129.905
102.5	120.027	121.075	120.626	119.878	119.728
105.0	111.048	111.646	111.497	110.748	111.048
107.5	102.816	102.966	102.816	102.517	102.816
110.0	94.435	93.687	93.538	93.538	94.136
112.5	85.905	84.708	84.708	84.708	85.306
115.0	75.878	73.932	73.782	73.932	73.932
117.5	65.102	63.306	63.157	62.708	63.456
120.0	54.925	53.129	52.830	52.680	52.830
122.5	45.048	43.701	43.252	43.401	43.252
125.0	36.517	35.320	34.571	35.020	34.721
127.5	28.735	27.837	26.939	27.687	27.088
130.0	21.701	21.701	21.252	21.551	21.401
132.5	17.810	17.510	17.211	17.361	17.361

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CANDELA TABULATION - (Cont.)

135.0	13.918	13.918	13.619	14.068	13.918
137.5	11.075	11.225	11.075	11.225	11.225
140.0	8.980	8.830	8.680	8.980	8.980
142.5	7.184	6.884	7.184	7.184	7.633
145.0	5.537	5.537	5.687	5.837	5.837
147.5	4.190	4.041	4.041	4.041	4.340
150.0	2.993	3.143	2.694	2.993	3.143
152.5	2.095	2.095	1.946	2.095	2.095
155.0	1.347	1.197	1.347	1.197	1.497
157.5	1.048	0.599	0.748	0.748	0.898
160.0	0.599	0.449	0.449	0.449	0.299
162.5	0.299	0.150	0.299	0.150	0.150
165.0	0.299	0.299	0.299	0.299	0.150
167.5	0.449	0.299	0.299	0.449	0.299
170.0	0.299	0.449	0.000	0.150	0.299
172.5	0.150	0.150	0.000	0.000	0.150
175.0	0.150	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	600.91	N.A.	6.00
0-30	1564.87	N.A.	15.50
0-40	3055.88	N.A.	30.30
0-60	7172.72	N.A.	71.10
0-80	9505.46	N.A.	94.30
0-90	9689.03	N.A.	96.10
10-90	9550.59	N.A.	94.70
20-40	2454.97	N.A.	24.30
20-50	4389.18	N.A.	43.50
40-70	5781.49	N.A.	57.30
60-80	2332.74	N.A.	23.10
70-80	668.08	N.A.	6.60
80-90	183.58	N.A.	1.80
90-110	273.94	N.A.	2.70
90-120	347.62	N.A.	3.40
90-130	380.12	N.A.	3.80
90-150	395.08	N.A.	3.90
90-180	395.88	N.A.	3.90
110-180	121.94	N.A.	1.20
0-180	10084.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	138.44
10-20	462.47
20-30	963.95
30-40	1491.01
40-50	1934.21
50-60	2182.63
60-70	1664.66
70-80	668.08
80-90	183.58
90-100	155.64
100-110	118.30
110-120	73.69
120-130	32.50
130-140	11.30
140-150	3.67
150-160	0.71
160-170	0.08
170-180	0.01

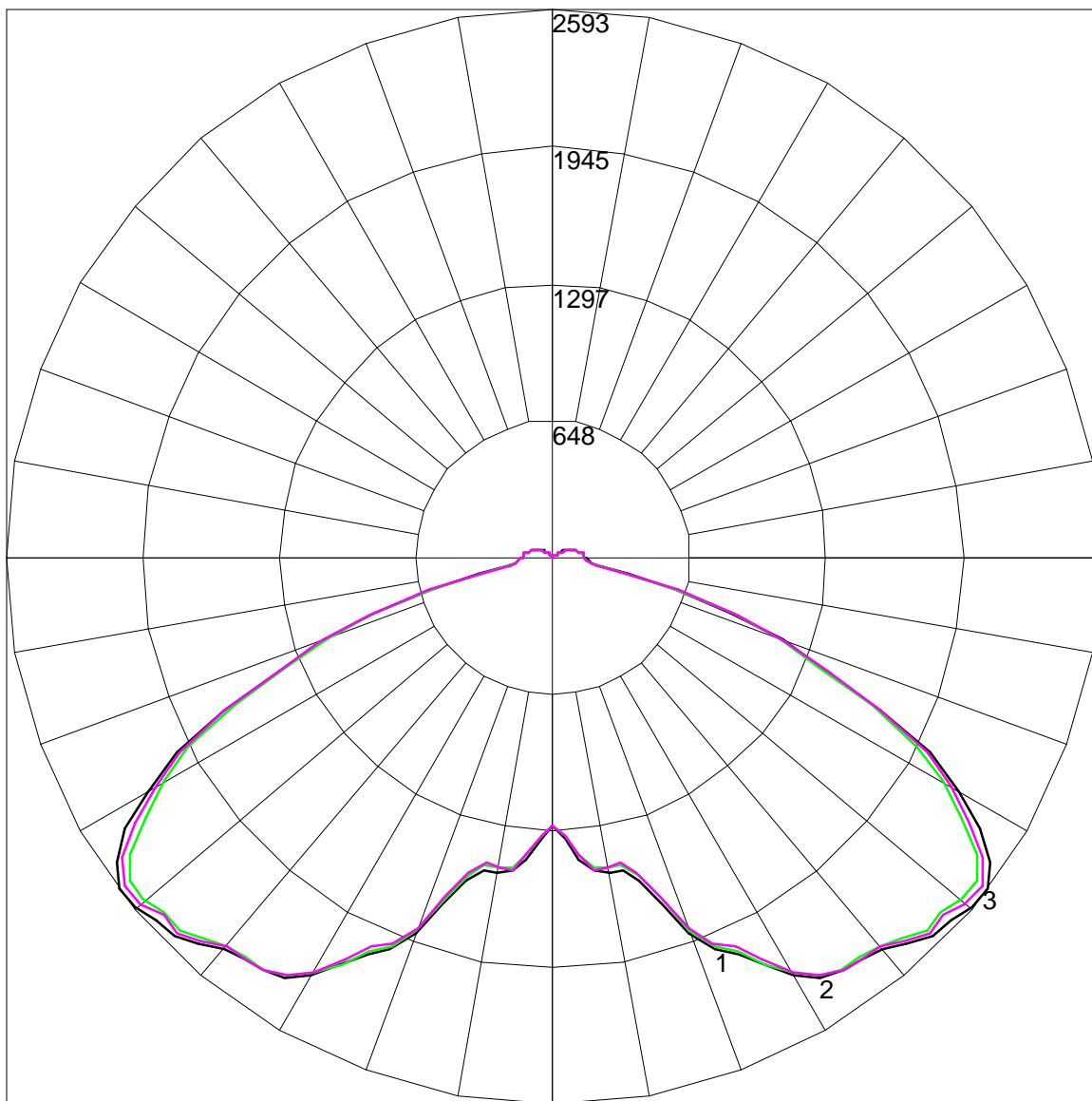
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2593.159 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)