

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX24LL40-UNV-N.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO33712.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 10/27/14
[MANUFAC] SIGNIFY DAY-BRITE - CFI
[LUMCAT] APX24LL40-UNV-N
[LUMINAIRE] APX 4-2LP 1.0.1 4000K 2-95W DRIVERS NO RESISTORS NARROW OPTICS DIRA LENS
[LAMP] LED. LUMINAIRE OUTPUT = 22833 LMS
[TEST DATE] 10/27/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	22833
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	190.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.02
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.86
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.29 ft
Luminous Width (90-270)	1.17 ft
Luminous Height	0.50 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3246	1807	1727
55	3153	1424	1286
65	2105	1078	1250
75	2157	1016	951
85	1022	965	1355

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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	26090.68926090.68926090.68926090.68926090.68926090.68926090.68926090.68926090.68926090.68926090.68926090.689									
2.5	26032.00026058.44926052.40025958.90025837.44925958.90026052.40026058.44926032.00026058.449									
5.0	25983.55125930.94925809.60025649.44925490.40025649.44925809.60025930.94925983.55125930.949									
7.5	25858.90025705.05125394.60025073.05124889.50025073.05125394.60025705.05125858.90025705.051									
10.0	25637.15025390.65024819.40024326.15024055.19924326.15024819.40025390.65025637.15025390.650									
12.5	25289.40024954.94924107.50023315.05122983.19923315.05124107.50024954.94925289.40024954.949									
15.0	24770.10024314.44923159.94922128.85021688.10022128.85023159.94924314.44924770.10024314.449									
17.5	23997.15023434.19921973.60020700.30120214.40020700.30121973.60023434.19923997.15023434.199									
20.0	22993.85022271.00020506.10019036.44918498.10019036.44920506.10022271.00022993.85022271.000									
22.5	21714.05120811.85018759.25017120.19916552.85017120.19918759.25020811.85021714.05120811.850									
25.0	20086.90019036.05116750.90014975.10014349.95014975.10016750.90019036.05120086.90019036.051									
27.5	17986.25016862.80114471.50012615.90012081.35012615.90014471.50016862.80117986.25016862.801									
30.0	15005.95013993.60011752.50010071.3009646.970 10071.30011752.50013993.60015005.95013993.600									
32.5	11245.50010433.8908679.100 7426.930 7161.390 7426.930 8679.100 10433.89011245.50010433.890									
35.0	7428.850 6726.770 5572.610 4911.740 4905.790 4911.740 5572.610 6726.770 7428.850 6726.770									
37.5	4098.270 3704.490 3137.910 2919.980 3034.880 2919.980 3137.910 3704.490 4098.270 3704.490									
40.0	2226.610 1874.050 1675.230 1632.580 1765.310 1632.580 1675.230 1874.050 2226.610 1874.050									
42.5	1410.450 1109.050 1042.150 1016.250 1083.190 1016.250 1042.150 1109.050 1410.450 1109.050									
45.0	1196.180 850.590 825.550 804.650 813.650 804.650 825.550 850.590 1196.180 850.590									
47.5	1152.600 765.080 736.520 714.130 725.170 714.130 736.520 765.080 1152.600 765.080									
50.0	1105.200 711.140 676.040 651.940 652.790 651.940 676.040 711.140 1105.200 711.140									
52.5	1044.700 665.100 630.650 595.630 593.990 595.630 630.650 665.100 1044.700 665.100									
55.0	984.750 629.220 590.430 544.580 554.200 544.580 590.430 629.220 984.750 629.220									
57.5	886.980 590.720 545.650 511.030 543.490 511.030 545.650 590.720 886.980 590.720									
60.0	789.160 540.820 493.290 482.720 504.730 482.720 493.290 540.820 789.160 540.820									
62.5	673.060 490.080 434.490 465.050 496.580 465.050 434.490 490.080 673.060 490.080									
65.0	519.100 435.680 388.130 438.230 472.570 438.230 388.130 435.680 519.100 435.680									
67.5	402.940 386.140 366.850 410.650 429.100 410.650 366.850 386.140 402.940 386.140									
70.0	358.470 337.120 349.900 377.360 403.050 377.360 349.900 337.120 358.470 337.120									
72.5	429.850 282.800 320.280 343.610 390.360 343.610 320.280 282.800 429.850 282.800									
75.0	373.900 230.500 298.810 296.680 298.010 296.680 298.810 230.500 373.900 230.500									
77.5	250.970 195.430 269.110 253.600 300.100 253.600 269.110 195.430 250.970 195.430									
80.0	189.230 177.920 218.610 231.120 313.260 231.120 218.610 177.920 189.230 177.920									
82.5	142.870 175.930 186.330 259.510 303.530 259.510 186.330 175.930 142.870 175.930									
85.0	96.920 158.670 211.870 261.630 324.250 261.630 211.870 158.670 96.920 158.670									
87.5	57.160 142.680 226.610 249.680 278.870 249.680 226.610 142.680 57.160 142.680									
90.0	26.340 121.020 187.970 190.790 200.060 190.790 187.970 121.020 26.340 121.020									
92.5	23.580 122.650 118.480 125.710 134.060 125.710 118.480 122.650 23.580 122.650									
95.0	33.950 69.990 58.660 69.750 82.490 69.750 58.660 69.990 33.950 69.990									
97.5	45.730 30.330 34.830 45.760 49.790 45.760 34.830 30.330 45.730 30.330									
100.0	44.150 27.280 35.860 43.450 46.440 43.450 35.860 27.280 44.150 27.280									
102.5	38.440 26.360 36.330 43.390 46.590 43.390 36.330 26.360 38.440 26.360									
105.0	33.830 25.760 36.230 44.160 45.480 44.160 36.230 25.760 33.830 25.760									
107.5	26.930 25.070 33.780 42.970 45.000 42.970 33.780 25.070 26.930 25.070									
110.0	19.640 22.690 30.690 40.200 42.950 40.200 30.690 22.690 19.640 22.690									
112.5	14.980 19.410 28.550 36.330 39.380 36.330 28.550 19.410 14.980 19.410									
115.0	11.820 15.860 26.700 32.860 35.870 32.860 26.700 15.860 11.820 15.860									
117.5	9.530 13.520 24.830 30.520 33.540 30.520 24.830 13.520 9.530 13.520									
120.0	7.620 16.320 22.090 28.940 31.120 28.940 22.090 16.320 7.620 16.320									
122.5	5.830 12.090 19.620 26.420 28.990 26.420 19.620 12.090 5.830 12.090									
125.0	4.450 7.720 18.160 23.440 26.380 23.440 18.160 7.720 4.450 7.720									
127.5	3.610 5.330 21.270 21.400 24.100 21.400 21.270 5.330 3.610 5.330									
130.0	3.140 3.850 22.900 22.200 23.470 22.200 22.900 3.850 3.140 3.850									
132.5	3.050 3.370 18.690 25.500 27.130 25.500 18.690 3.370 3.050 3.370									

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CANDELA TABULATION - (Cont.)

135.0	3.060	2.510	13.690	27.190	28.890	27.190	13.690	2.510	3.060	2.510
137.5	3.170	2.840	10.930	23.090	28.450	23.090	10.930	2.840	3.170	2.840
140.0	3.320	2.890	8.770	17.890	23.960	17.890	8.770	2.890	3.320	2.890
142.5	3.440	3.230	7.690	14.830	17.440	14.830	7.690	3.230	3.440	3.230
145.0	3.580	3.550	6.450	12.870	14.490	12.870	6.450	3.550	3.580	3.550
147.5	3.830	3.760	5.440	11.030	12.290	11.030	5.440	3.760	3.830	3.760
150.0	4.010	3.670	4.540	9.510	10.780	9.510	4.540	3.670	4.010	3.670
152.5	4.310	4.050	4.050	7.890	9.320	7.890	4.050	4.050	4.310	4.050
155.0	4.670	4.600	4.510	6.690	7.850	6.690	4.510	4.600	4.670	4.600
157.5	5.200	5.120	4.980	6.090	7.180	6.090	4.980	5.120	5.200	5.120
160.0	6.240	6.180	5.780	5.950	6.650	5.950	5.780	6.180	6.240	6.180
162.5	6.840	6.770	6.560	6.670	6.700	6.670	6.560	6.770	6.840	6.770
165.0	7.530	7.420	7.050	7.270	7.090	7.270	7.050	7.420	7.530	7.420
167.5	7.370	7.490	7.430	7.710	8.060	7.710	7.430	7.490	7.370	7.490
170.0	8.060	8.000	7.740	8.340	8.410	8.340	7.740	8.000	8.060	8.000
172.5	8.680	8.760	8.510	8.870	9.340	8.870	8.510	8.760	8.680	8.760
175.0	9.460	9.180	8.990	9.370	9.750	9.370	8.990	9.180	9.460	9.180
177.5	9.880	10.080	9.080	9.680	10.070	9.680	9.080	10.080	9.880	10.080
180.0	9.830	9.830	9.830	9.830	9.830	9.830	9.830	9.830	9.830	9.830

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	26090.68926090	68926090	68926090	68926090	68926090	68926090	68926090
2.5	26052.40025958	90025837	44925958	90026052	40026058	44926032	000
5.0	25809.60025649	44925490	40025649	44925809	60025930	94925983	551
7.5	25394.60025073	05124889	50025073	05125394	60025705	05125858	900
10.0	24819.40024326	15024055	19924326	15024819	40025390	65025637	150
12.5	24107.50023315	05122983	19923315	05124107	50024954	94925289	400
15.0	23159.94922128	85021688	10022128	85023159	94924314	44924770	100
17.5	21973.60020700	30120214	40020700	30121973	60023434	19923997	150
20.0	20506.10019036	44918498	10019036	44920506	10022271	00022993	850
22.5	18759.25017120	19916552	85017120	19918759	25020811	85021714	051
25.0	16750.90014975	10014349	95014975	10016750	90019036	05120086	900
27.5	14471.50012615	90012081	35012615	90014471	50016862	80117986	250
30.0	11752.50010071	3009646	970 10071	30011752	50013993	60015005	950
32.5	8679.100 7426	930 7161	390 7426	930 8679	100 10433	89011245	500
35.0	5572.610 4911	740 4905	790 4911	740 5572	610 6726	770 7428	850
37.5	3137.910 2919	980 3034	880 2919	980 3137	910 3704	490 4098	270
40.0	1675.230 1632	580 1765	310 1632	580 1675	230 1874	050 2226	610
42.5	1042.150 1016	250 1083	190 1016	250 1042	150 1109	050 1410	450
45.0	825.550 804	650 813	650 804	650 825	550 850	590 1196	180
47.5	736.520 714	130 725	170 714	130 736	520 765	080 1152	600
50.0	676.040 651	940 652	790 651	940 676	040 711	140 1105	200
52.5	630.650 595	630 593	990 595	630 630	650 665	100 1044	700
55.0	590.430 544	580 554	200 544	580 590	430 629	220 984	750
57.5	545.650 511	030 543	490 511	030 545	650 590	720 886	980
60.0	493.290 482	720 504	730 482	720 493	290 540	820 789	160
62.5	434.490 465	050 496	580 465	050 434	490 490	080 673	060
65.0	388.130 438	230 472	570 438	230 388	130 435	680 519	100
67.5	366.850 410	650 429	100 410	650 366	850 386	140 402	940
70.0	349.900 377	360 403	050 377	360 349	900 337	120 358	470
72.5	320.280 343	610 390	360 343	610 320	280 282	800 429	850
75.0	298.810 296	680 298	010 296	680 298	810 230	500 373	900
77.5	269.110 253	600 300	100 253	600 269	110 195	430 250	970
80.0	218.610 231	120 313	260 231	120 218	610 177	920 189	230

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CANDELA TABULATION - (Cont.)

82.5	186.330	259.510	303.530	259.510	186.330	175.930	142.870
85.0	211.870	261.630	324.250	261.630	211.870	158.670	96.920
87.5	226.610	249.680	278.870	249.680	226.610	142.680	57.160
90.0	187.970	190.790	200.060	190.790	187.970	121.020	26.340
92.5	118.480	125.710	134.060	125.710	118.480	122.650	23.580
95.0	58.660	69.750	82.490	69.750	58.660	69.990	33.950
97.5	34.830	45.760	49.790	45.760	34.830	30.330	45.730
100.0	35.860	43.450	46.440	43.450	35.860	27.280	44.150
102.5	36.330	43.390	46.590	43.390	36.330	26.360	38.440
105.0	36.230	44.160	45.480	44.160	36.230	25.760	33.830
107.5	33.780	42.970	45.000	42.970	33.780	25.070	26.930
110.0	30.690	40.200	42.950	40.200	30.690	22.690	19.640
112.5	28.550	36.330	39.380	36.330	28.550	19.410	14.980
115.0	26.700	32.860	35.870	32.860	26.700	15.860	11.820
117.5	24.830	30.520	33.540	30.520	24.830	13.520	9.530
120.0	22.090	28.940	31.120	28.940	22.090	16.320	7.620
122.5	19.620	26.420	28.990	26.420	19.620	12.090	5.830
125.0	18.160	23.440	26.380	23.440	18.160	7.720	4.450
127.5	21.270	21.400	24.100	21.400	21.270	5.330	3.610
130.0	22.900	22.200	23.470	22.200	22.900	3.850	3.140
132.5	18.690	25.500	27.130	25.500	18.690	3.370	3.050
135.0	13.690	27.190	28.890	27.190	13.690	2.510	3.060
137.5	10.930	23.090	28.450	23.090	10.930	2.840	3.170
140.0	8.770	17.890	23.960	17.890	8.770	2.890	3.320
142.5	7.690	14.830	17.440	14.830	7.690	3.230	3.440
145.0	6.450	12.870	14.490	12.870	6.450	3.550	3.580
147.5	5.440	11.030	12.290	11.030	5.440	3.760	3.830
150.0	4.540	9.510	10.780	9.510	4.540	3.670	4.010
152.5	4.050	7.890	9.320	7.890	4.050	4.050	4.310
155.0	4.510	6.690	7.850	6.690	4.510	4.600	4.670
157.5	4.980	6.090	7.180	6.090	4.980	5.120	5.200
160.0	5.780	5.950	6.650	5.950	5.780	6.180	6.240
162.5	6.560	6.670	6.700	6.670	6.560	6.770	6.840
165.0	7.050	7.270	7.090	7.270	7.050	7.420	7.530
167.5	7.430	7.710	8.060	7.710	7.430	7.490	7.370
170.0	7.740	8.340	8.410	8.340	7.740	8.000	8.060
172.5	8.510	8.870	9.340	8.870	8.510	8.760	8.680
175.0	8.990	9.370	9.750	9.370	8.990	9.180	9.460
177.5	9.080	9.680	10.070	9.680	9.080	10.080	9.880
180.0	9.830	9.830	9.830	9.830	9.830	9.830	9.830

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8899.71	N.A.	39.00
0-30	16541.32	N.A.	72.40
0-40	20341.7	N.A.	89.10
0-60	21679.09	N.A.	94.90
0-80	22427.86	N.A.	98.20
0-90	22647.42	N.A.	99.20
10-90	20216.51	N.A.	88.50
20-40	11442.00	N.A.	50.10
20-50	12211.92	N.A.	53.50
40-70	1777.69	N.A.	7.80
60-80	748.77	N.A.	3.30
70-80	308.46	N.A.	1.40
80-90	219.56	N.A.	1.00
90-110	122.70	N.A.	0.50
90-120	148.00	N.A.	0.60
90-130	163.57	N.A.	0.70
90-150	179.81	N.A.	0.80
90-180	185.32	N.A.	0.80
110-180	62.62	N.A.	0.30
0-180	22832.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2430.91
10-20	6468.8
20-30	7641.62
30-40	3800.38
40-50	769.92
50-60	567.46
60-70	440.31
70-80	308.46
80-90	219.56
90-100	84.95
100-110	37.75
110-120	25.31
120-130	15.57
130-140	11.06
140-150	5.18
150-160	2.66
160-170	2.00
170-180	0.85

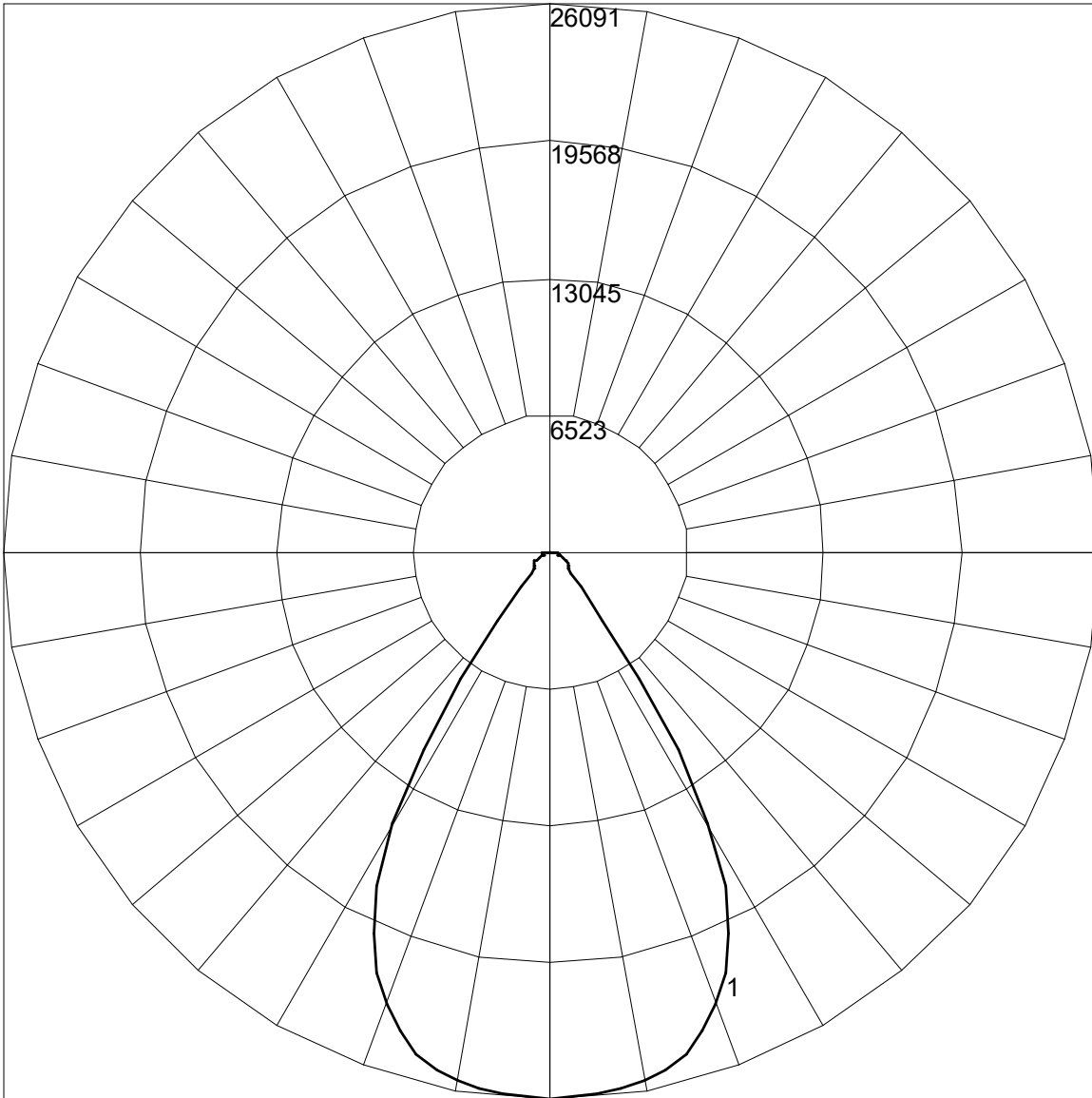
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	113	110	107	104	110	107	105	103	103	101	99	99	98	96	96	94	93	91
2	107	101	97	93	104	100	96	92	96	93	90	93	90	88	90	88	86	84
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78
4	96	88	82	78	94	87	82	77	85	80	76	83	79	75	81	77	74	73
5	91	83	77	72	89	82	76	72	80	75	71	78	74	70	76	73	70	68
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64
7	82	73	67	63	81	72	66	62	71	66	62	70	65	62	68	64	61	60
8	79	69	63	59	77	68	63	59	67	62	58	66	61	58	65	61	58	56
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	57	54	53
10	71	62	56	52	70	61	56	52	60	55	52	60	55	52	59	54	51	50

POLAR GRAPH



Maximum Candela = 26090.689 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)