

PHILIPS

PHILIPS

Day-Brite



IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX24LL40-UNV-N.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO33712.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/27/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX24LL40-UNV-N

[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K 2-95W DRIVERS NO RESISTORS NARROW OPTICS DIRA LENS

[LAMP] LED. LUMINAIRE OUTPUT = 22833 LMS

[TESTDATE] 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	26090.689	26090.689	26090.689	26090.689	26090.689	26090.689	26090.689	26090.689	26090.689	26090.689
2.5	26032.000	26058.449	26052.400	25958.900	25837.449	25958.900	26052.400	26058.449	26032.000	26058.449
5.0	25983.551	25930.949	25809.600	25649.449	25490.400	25649.449	25809.600	25930.949	25983.551	25930.949
7.5	25858.900	25705.051	25394.600	25073.051	24889.500	25073.051	25394.600	25705.051	25858.900	25705.051
10.0	25637.150	25390.650	24819.400	24326.150	24055.199	24326.150	24819.400	25390.650	25637.150	25390.650
12.5	25289.400	24954.949	24107.500	23315.051	22983.199	23315.051	24107.500	24954.949	25289.400	24954.949
15.0	24770.100	24314.449	23159.949	22128.850	21688.100	22128.850	23159.949	24314.449	24770.100	24314.449
17.5	23997.150	23434.199	21973.600	20700.301	20214.400	20700.301	21973.600	23434.199	23997.150	23434.199
20.0	22993.850	22271.000	20506.100	19036.449	18498.100	19036.449	20506.100	22271.000	22993.850	22271.000
22.5	21714.051	210811.850	18759.250	17120.199	16552.850	17120.199	18759.250	210811.850	21714.051	210811.850
25.0	20086.900	19036.051	16750.900	14975.100	14349.950	14975.100	16750.900	19036.051	20086.900	19036.051
27.5	17986.250	16862.801	14471.500	12615.900	12081.350	12615.900	14471.500	16862.801	17986.250	16862.801
30.0	15005.950	13993.600	11752.500	10071.300	9646.970	10071.300	11752.500	13993.600	15005.950	13993.600
32.5	11245.500	10433.890	8679.100	7426.930	7161.390	7426.930	8679.100	10433.890	11245.500	10433.890
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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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	26090.68926090	26090.68926090	26090.68926090	26090.68926090	26090.68926090	26090.68926090
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	10433.890	11245.500
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	22427.85	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

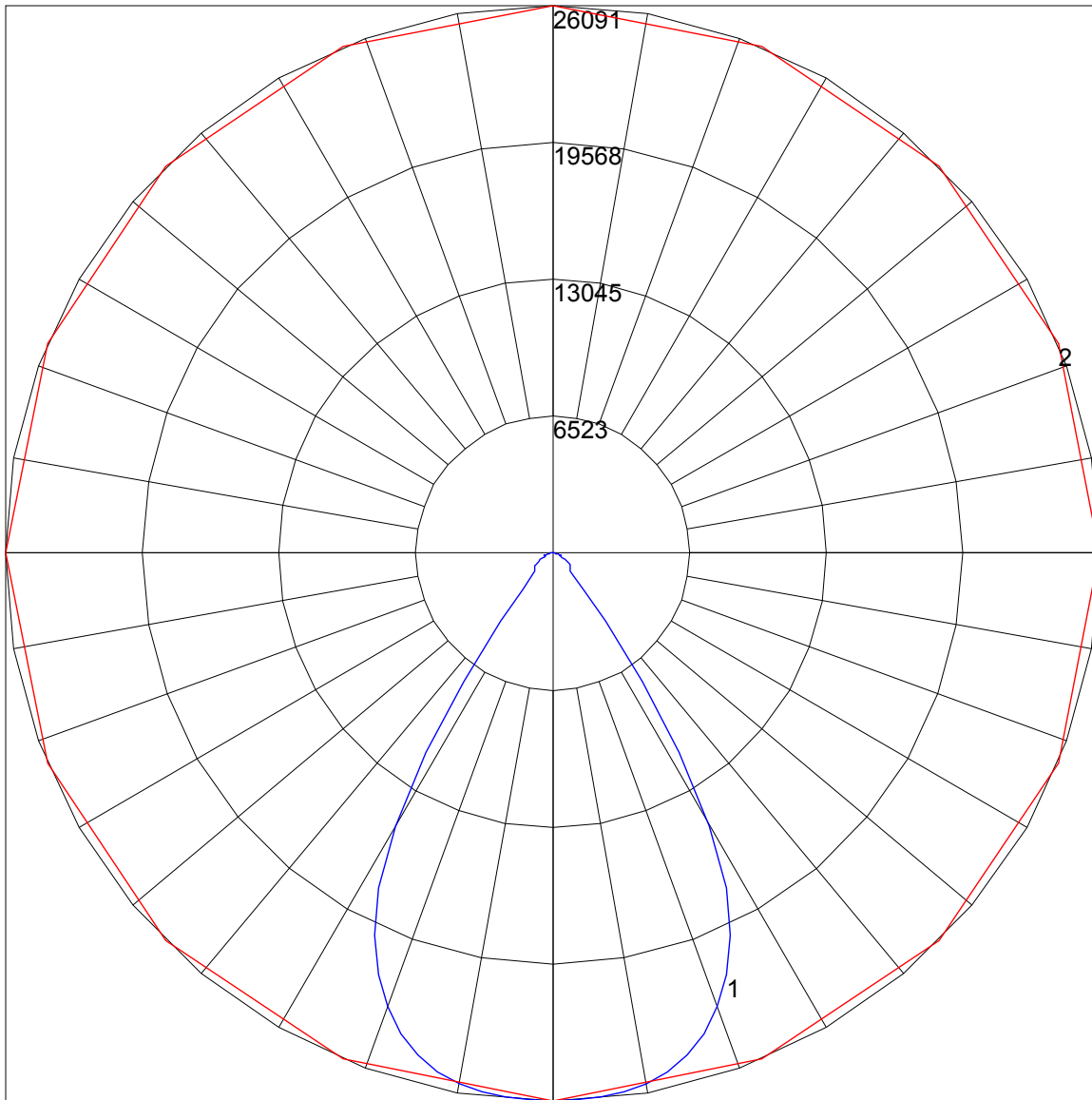
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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
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) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)