

PHILIPS**PHILIPS****Day-Brite****CFI****IES INDOOR REPORT****PHOTOMETRIC FILENAME : APX24LL40-UNV-N-LFP.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] FO33715.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/27/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX24LL40-UNV-N-LFP

[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K 2-95W DRIVERS NO RESISTORS NARROW OPTICS DP-FR50 LENS

[LAMP] LED. LUMINAIRE OUTPUT = 22401 LMS

[TESTDATE] 10/27/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	22401
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	190.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.92
Spacing Criterion (90-270)	0.82
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	8820	5935	5203
55	5042	3231	2909
65	3541	2197	2099
75	2551	1580	1635
85	1262	1027	1259

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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	21913.561	21913.561	21913.561	21913.561	21913.561	21913.561	21913.561	21913.561	21913.561	21913.561
2.5	21825.900	21841.301	21856.150	21798.100	21727.600	21798.100	21856.150	21841.301	21825.900	21841.301
5.0	21637.301	21616.949	21577.750	21491.000	21379.301	21491.000	21577.750	21616.949	21637.301	21616.949
7.5	21300.850	21236.150	21109.949	20933.150	20810.400	20933.150	21109.949	21236.150	21300.850	21236.150
10.0	20802.500	20695.949	20433.150	20184.199	20013.301	20184.199	20433.150	20695.949	20802.500	20695.949
12.5	20138.150	19979.350	19581.250	19177.900	18998.301	19177.900	19581.250	19979.350	20138.150	19979.350
15.0	19297.150	19089.650	18530.949	17980.699	17759.400	17980.699	18530.949	19089.650	19297.150	19089.650
17.5	18266.900	18009.350	17286.051	16619.600	16387.600	16619.600	17286.051	18009.350	18266.900	18009.350
20.0	17038.650	16713.000	15873.850	15117.300	14887.150	15117.300	15873.850	16713.000	17038.650	16713.000
22.5	15634.150	15246.450	14311.700	13528.450	13279.600	13528.450	14311.700	15246.450	15634.150	15246.450
25.0	14085.050	13654.650	12678.450	11877.750	11630.530	11877.750	12678.450	13654.650	14085.050	13654.650
27.5	12411.950	11980.650	11025.900	10213.960	9991.830	10213.960	11025.900	11980.650	12411.950	11980.650
30.0	10718.700	10284.720	9353.920	8637.640	8445.070	8637.640	9353.920	10284.720	10718.700	10284.720
32.5	9050.490	8640.240	7791.080	7172.320	7004.310	7172.320	7791.080	8640.240	9050.490	8640.240
35.0	7486.470	7126.410	6381.740	5857.580	5729.120	5857.580	6381.740	7126.410	7486.470	7126.410
37.5	6095.680	5788.650	5156.160	4745.070	4649.150	4745.070	5156.160	5788.650	6095.680	5788.650
40.0	4928.070	4655.620	4151.000	3821.800	3749.150	3821.800	4151.000	4655.620	4928.070	4655.620
42.5	3994.030	3745.910	3338.340	3084.490	3020.180	3084.490	3338.340	3745.910	3994.030	3745.910
45.0	3250.370	3033.980	2712.220	2503.690	2451.040	2503.690	2712.220	3033.980	3250.370	3033.980
47.5	2660.550	2478.280	2230.270	2057.980	2022.490	2057.980	2230.270	2478.280	2660.550	2478.280
50.0	2203.230	2048.400	1851.580	1724.970	1698.780	1724.970	1851.580	2048.400	2203.230	2048.400
52.5	1850.800	1720.030	1565.990	1468.220	1448.530	1468.220	1565.990	1720.030	1850.800	1720.030
55.0	1574.530	1462.920	1340.200	1266.850	1253.970	1266.850	1340.200	1462.920	1574.530	1462.920
57.5	1350.900	1258.320	1161.870	1108.780	1101.610	1108.780	1161.870	1258.320	1350.900	1258.320
60.0	1165.650	1091.440	1017.260	982.170	981.070	982.170	1017.260	1091.440	1165.650	1091.440
62.5	1009.190	948.940	895.500	877.810	881.650	877.810	895.500	948.940	1009.190	948.940
65.0	873.130	824.740	790.700	786.810	793.470	786.810	790.700	824.740	873.130	824.740
67.5	750.840	715.040	697.430	704.030	713.450	704.030	697.430	715.040	750.840	715.040
70.0	639.420	616.530	613.110	628.420	640.820	628.420	613.110	616.530	639.420	616.530
72.5	537.550	524.980	537.260	558.780	574.090	558.780	537.260	524.980	537.550	524.980
75.0	442.180	438.940	464.720	494.480	512.450	494.480	464.720	438.940	442.180	438.940
77.5	351.330	358.230	395.570	432.720	454.400	432.720	395.570	358.230	351.330	358.230
80.0	264.490	282.290	332.050	375.500	399.780	375.500	332.050	282.290	264.490	282.290
82.5	185.680	213.850	274.390	325.260	349.960	325.260	274.390	213.850	185.680	213.850
85.0	119.730	156.830	225.370	276.990	301.500	276.990	225.370	156.830	119.730	156.830
87.5	72.880	117.470	187.800	236.770	258.740	236.770	187.800	117.470	72.880	117.470
90.0	53.030	90.800	154.850	199.480	218.280	199.480	154.850	90.800	53.030	90.800
92.5	48.990	75.370	128.020	165.260	181.470	165.260	128.020	75.370	48.990	75.370
95.0	46.620	67.590	108.210	138.490	151.530	138.490	108.210	67.590	46.620	67.590
97.5	44.840	61.180	95.500	118.950	129.510	118.950	95.500	61.180	44.840	61.180
100.0	42.500	55.170	86.370	107.390	115.440	107.390	86.370	55.170	42.500	55.170
102.5	39.390	49.590	78.930	99.820	107.010	99.820	78.930	49.590	39.390	49.590
105.0	36.060	45.030	73.300	94.970	101.380	94.970	73.300	45.030	36.060	45.030
107.5	32.700	40.540	68.560	90.420	97.670	90.420	68.560	40.540	32.700	40.540
110.0	28.650	35.940	64.080	86.340	93.500	86.340	64.080	35.940	28.650	35.940
112.5	24.840	31.380	59.460	81.840	89.160	81.840	59.460	31.380	24.840	31.380
115.0	21.070	26.930	54.680	76.740	84.440	76.740	54.680	26.930	21.070	26.930
117.5	17.750	22.370	50.080	71.910	79.490	71.910	50.080	22.370	17.750	22.370
120.0	14.690	18.380	45.340	67.140	74.640	67.140	45.340	18.380	14.690	18.380
122.5	12.100	14.610	40.710	61.990	69.110	61.990	40.710	14.610	12.100	14.610
125.0	9.770	11.360	36.040	56.390	63.250	56.390	36.040	11.360	9.770	11.360
127.5	8.260	8.480	30.770	50.910	58.460	50.910	30.770	8.480	8.260	8.480
130.0	6.660	6.250	26.670	45.890	52.990	45.890	26.670	6.250	6.660	6.250
132.5	5.570	4.920	22.530	40.920	47.080	40.920	22.530	4.920	5.570	4.920

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CANDELA TABULATION - (Cont.)

135.0	4.950	4.010	18.420	36.030	41.400	36.030	18.420	4.010	4.950	4.010
137.5	4.340	3.750	15.010	30.600	35.910	30.600	15.010	3.750	4.340	3.750
140.0	3.790	3.320	11.720	25.950	30.750	25.950	11.720	3.320	3.790	3.320
142.5	3.290	3.040	8.820	21.610	25.730	21.610	8.820	3.040	3.290	3.040
145.0	3.460	3.110	6.460	17.560	20.950	17.560	6.460	3.110	3.460	3.110
147.5	3.300	3.190	4.980	13.840	16.860	13.840	4.980	3.190	3.300	3.190
150.0	3.150	2.940	4.230	10.590	12.980	10.590	4.230	2.940	3.150	2.940
152.5	3.020	3.500	3.710	8.190	10.030	8.190	3.710	3.500	3.020	3.500
155.0	3.660	3.670	4.030	6.210	7.550	6.210	4.030	3.670	3.660	3.670
157.5	4.080	4.080	4.330	5.190	6.640	5.190	4.330	4.080	4.080	4.080
160.0	4.540	4.550	5.040	5.060	5.680	5.060	5.040	4.550	4.540	4.550
162.5	5.270	5.320	5.060	5.680	5.810	5.680	5.060	5.320	5.270	5.320
165.0	5.460	5.220	5.360	6.100	6.020	6.100	5.360	5.220	5.460	5.220
167.5	5.470	5.510	5.590	6.330	6.110	6.330	5.590	5.510	5.470	5.510
170.0	5.920	6.050	5.970	6.630	6.680	6.630	5.970	6.050	5.920	6.050
172.5	6.340	6.340	6.400	6.810	6.840	6.810	6.400	6.340	6.340	6.340
175.0	6.680	6.880	6.820	7.270	7.020	7.270	6.820	6.880	6.680	6.880
177.5	7.390	7.230	6.730	7.090	7.380	7.090	6.730	7.230	7.390	7.230
180.0	7.240	7.240	7.240	7.240	7.240	7.240	7.240	7.240	7.240	7.240

**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	21913.561	21913.561	21913.561	21913.561	21913.561	21913.561	21913.561
2.5	21856.150	21798.100	21727.600	21798.100	21856.150	21841.301	21825.900
5.0	21577.750	21491.000	21379.301	21491.000	21577.750	21616.949	21637.301
7.5	21109.949	20933.150	20810.400	20933.150	21109.949	21236.150	21300.850
10.0	20433.150	20184.199	20013.301	20184.199	20433.150	20695.949	20802.500
12.5	19581.250	19177.900	18998.301	19177.900	19581.250	19979.350	20138.150
15.0	18530.949	17980.699	17759.400	17980.699	18530.949	19089.650	19297.150
17.5	17286.051	16619.600	16387.600	16619.600	17286.051	18009.350	18266.900
20.0	15873.850	15117.300	14887.150	15117.300	15873.850	16713.000	17038.650
22.5	14311.700	13528.450	13279.600	13528.450	14311.700	15246.450	15634.150
25.0	12678.450	11877.750	11630.530	11877.750	12678.450	13654.650	14085.050
27.5	11025.900	10213.960	9991.830	10213.960	11025.900	11980.650	12411.950
30.0	9353.920	8637.640	8445.070	8637.640	9353.920	10284.720	10718.700
32.5	7791.080	7172.320	7004.310	7172.320	7791.080	8640.240	9050.490
35.0	6381.740	5857.580	5729.120	5857.580	6381.740	7126.410	7486.470
37.5	5156.160	4745.070	4649.150	4745.070	5156.160	5788.650	6095.680
40.0	4151.000	3821.800	3749.150	3821.800	4151.000	4655.620	4928.070
42.5	3338.340	3084.490	3020.180	3084.490	3338.340	3745.910	3994.030
45.0	2712.220	2503.690	2451.040	2503.690	2712.220	3033.980	3250.370
47.5	2230.270	2057.980	2022.490	2057.980	2230.270	2478.280	2660.550
50.0	1851.580	1724.970	1698.780	1724.970	1851.580	2048.400	2203.230
52.5	1565.990	1468.220	1448.530	1468.220	1565.990	1720.030	1850.800
55.0	1340.200	1266.850	1253.970	1266.850	1340.200	1462.920	1574.530
57.5	1161.870	1108.780	1101.610	1108.780	1161.870	1258.320	1350.900
60.0	1017.260	982.170	981.070	982.170	1017.260	1091.440	1165.650
62.5	895.500	877.810	881.650	877.810	895.500	948.940	1009.190
65.0	790.700	786.810	793.470	786.810	790.700	824.740	873.130
67.5	697.430	704.030	713.450	704.030	697.430	715.040	750.840
70.0	613.110	628.420	640.820	628.420	613.110	616.530	639.420
72.5	537.260	558.780	574.090	558.780	537.260	524.980	537.550
75.0	464.720	494.480	512.450	494.480	464.720	438.940	442.180
77.5	395.570	432.720	454.400	432.720	395.570	358.230	351.330
80.0	332.050	375.500	399.780	375.500	332.050	282.290	264.490

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CANDELA TABULATION - (Cont.)

82.5	274.390	325.260	349.960	325.260	274.390	213.850	185.680
85.0	225.370	276.990	301.500	276.990	225.370	156.830	119.730
87.5	187.800	236.770	258.740	236.770	187.800	117.470	72.880
90.0	154.850	199.480	218.280	199.480	154.850	90.800	53.030
92.5	128.020	165.260	181.470	165.260	128.020	75.370	48.990
95.0	108.210	138.490	151.530	138.490	108.210	67.590	46.620
97.5	95.500	118.950	129.510	118.950	95.500	61.180	44.840
100.0	86.370	107.390	115.440	107.390	86.370	55.170	42.500
102.5	78.930	99.820	107.010	99.820	78.930	49.590	39.390
105.0	73.300	94.970	101.380	94.970	73.300	45.030	36.060
107.5	68.560	90.420	97.670	90.420	68.560	40.540	32.700
110.0	64.080	86.340	93.500	86.340	64.080	35.940	28.650
112.5	59.460	81.840	89.160	81.840	59.460	31.380	24.840
115.0	54.680	76.740	84.440	76.740	54.680	26.930	21.070
117.5	50.080	71.910	79.490	71.910	50.080	22.370	17.750
120.0	45.340	67.140	74.640	67.140	45.340	18.380	14.690
122.5	40.710	61.990	69.110	61.990	40.710	14.610	12.100
125.0	36.040	56.390	63.250	56.390	36.040	11.360	9.770
127.5	30.770	50.910	58.460	50.910	30.770	8.480	8.260
130.0	26.670	45.890	52.990	45.890	26.670	6.250	6.660
132.5	22.530	40.920	47.080	40.920	22.530	4.920	5.570
135.0	18.420	36.030	41.400	36.030	18.420	4.010	4.950
137.5	15.010	30.600	35.910	30.600	15.010	3.750	4.340
140.0	11.720	25.950	30.750	25.950	11.720	3.320	3.790
142.5	8.820	21.610	25.730	21.610	8.820	3.040	3.290
145.0	6.460	17.560	20.950	17.560	6.460	3.110	3.460
147.5	4.980	13.840	16.860	13.840	4.980	3.190	3.300
150.0	4.230	10.590	12.980	10.590	4.230	2.940	3.150
152.5	3.710	8.190	10.030	8.190	3.710	3.500	3.020
155.0	4.030	6.210	7.550	6.210	4.030	3.670	3.660
157.5	4.330	5.190	6.640	5.190	4.330	4.080	4.080
160.0	5.040	5.060	5.680	5.060	5.040	4.550	4.540
162.5	5.060	5.680	5.810	5.680	5.060	5.320	5.270
165.0	5.360	6.100	6.020	6.100	5.360	5.220	5.460
167.5	5.590	6.330	6.110	6.330	5.590	5.510	5.470
170.0	5.970	6.630	6.680	6.630	5.970	6.050	5.920
172.5	6.400	6.810	6.840	6.810	6.400	6.340	6.340
175.0	6.820	7.270	7.020	7.270	6.820	6.880	6.680
177.5	6.730	7.090	7.380	7.090	6.730	7.230	7.390
180.0	7.240	7.240	7.240	7.240	7.240	7.240	7.240

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7171.38	N.A.	32.00
0-30	12979.08	N.A.	57.90
0-40	17079.74	N.A.	76.20
0-60	20544.38	N.A.	91.70
0-80	21851.61	N.A.	97.50
0-90	22097.54	N.A.	98.60
10-90	20076.25	N.A.	89.60
20-40	9908.36	N.A.	44.20
20-50	12117.85	N.A.	54.10
40-70	4273.68	N.A.	19.10
60-80	1307.22	N.A.	5.80
70-80	498.18	N.A.	2.20
80-90	245.95	N.A.	1.10
90-110	192.17	N.A.	0.90
90-120	244.72	N.A.	1.10
90-130	276.48	N.A.	1.20
90-150	298.99	N.A.	1.30
90-180	303.62	N.A.	1.40
110-180	111.45	N.A.	0.50
0-180	22401.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2021.3
10-20	5150.08
20-30	5807.7
30-40	4100.66
40-50	2209.49
50-60	1255.15
60-70	809.04
70-80	498.18
80-90	245.95
90-100	116.99
100-110	75.18
110-120	52.55
120-130	31.76
130-140	16.07
140-150	6.44
150-160	2.43
160-170	1.57
170-180	0.64

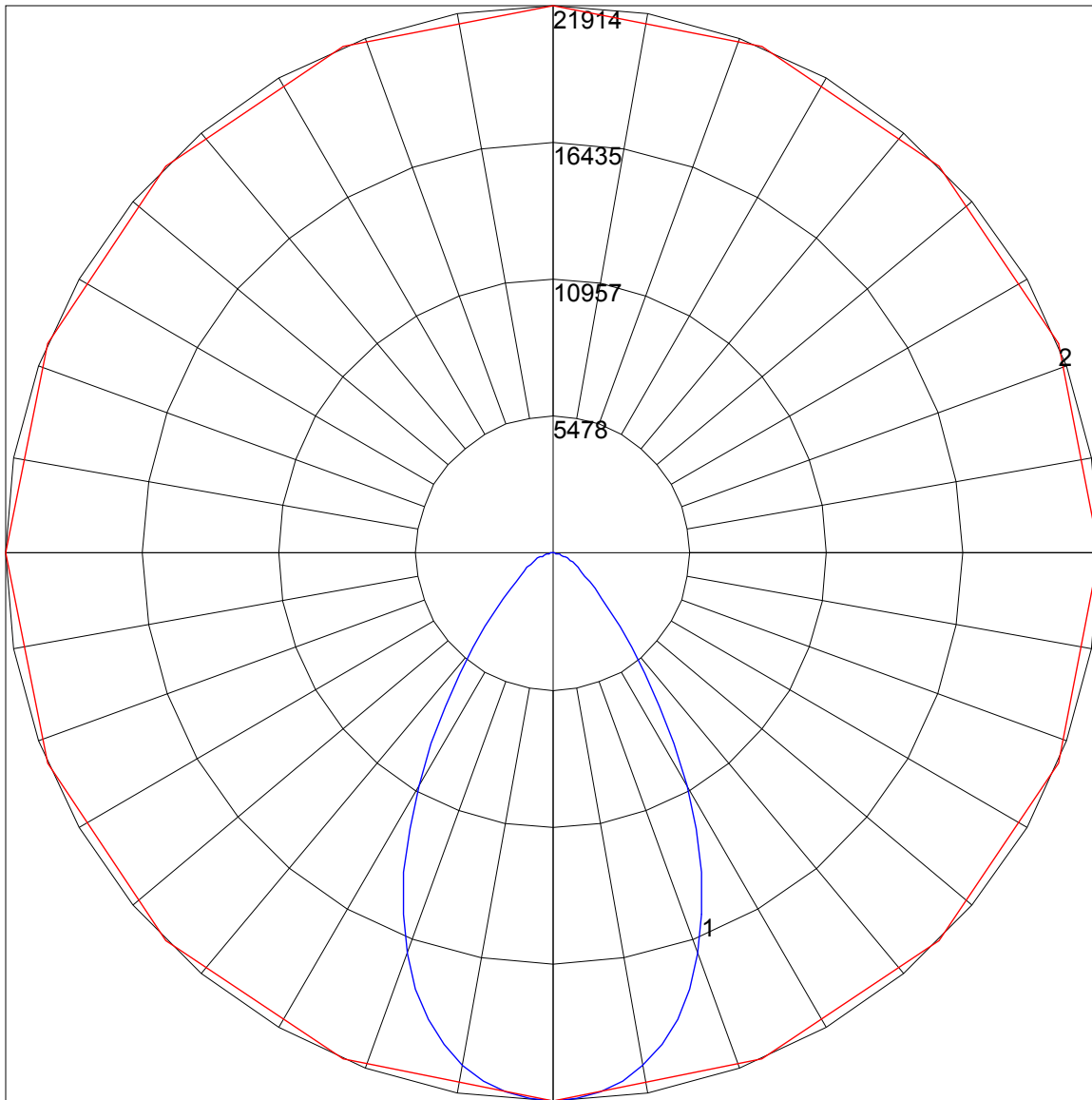
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	105	105	105	101	101	101	99
1	112	108	105	102	109	106	103	100	101	99	97	97	96	94	94	92	91	89
2	105	99	94	90	102	97	92	89	93	90	86	90	87	84	87	85	82	80
3	98	91	85	80	96	89	84	79	86	82	78	83	80	76	81	78	75	73
4	92	84	77	72	90	82	76	72	80	75	71	78	73	70	76	72	69	67
5	87	77	71	66	85	76	70	65	74	69	65	72	68	64	71	66	63	61
6	82	72	65	60	81	71	65	60	69	64	59	68	63	59	66	62	58	57
7	78	67	60	56	76	66	60	55	65	59	55	64	58	55	62	58	54	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	50	49
9	70	59	53	48	69	59	52	48	57	52	48	56	51	47	55	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	52	48	44	43

POLAR GRAPH



Maximum Candela = 21913.561 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.)