

PHILIPS

PHILIPS

Day-Brite

CFI

IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX20LL40-UNV-N-LCP.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO33709.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/27/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX20LL40-UNV-N-LCP

[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K 2-95W DRIVERS 18K RESISTORS NARROW OPTICS DP LENS

[LAMP] LED. LUMINAIRE OUTPUT = 20057 LMS

[TESTDATE] 10/27/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20057
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	168
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
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	2694	1421	1358
55	2585	1055	974
65	1597	759	935
75	1558	710	708
85	672	684	975

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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	23261.42023261.42023261.42023261.42023261.42023261.42023261.42023261.42023261.42023261.42023261.42023261.420									
2.5	23258.94923254.05123226.00023128.85023027.90023128.85023226.00023254.05123258.94923254.051									
5.0	23207.85023132.60023013.90022826.90022693.90022826.90023013.90023132.60023207.85023132.600									
7.5	23102.85022943.44922649.25022331.40022158.60022331.40022649.25022943.44923102.85022943.449									
10.0	22925.85022667.10022158.00021669.90021411.90021669.90022158.00022667.10022925.85022667.100									
12.5	22622.25022295.19921542.30120767.00020478.10020767.00021542.30122295.19922622.25022295.199									
15.0	22173.40021754.19920718.85019696.35019354.05119696.35020718.85021754.19922173.40021754.199									
17.5	21514.90020974.60019665.05118444.00018047.80118444.00019665.05120974.60021514.90020974.600									
20.0	20622.25019936.40018379.00016958.80116516.10016958.80118379.00019936.40020622.25019936.400									
22.5	19506.40018672.15016831.60015253.05014782.70015253.05016831.60018672.15019506.40018672.150									
25.0	18076.55117141.15015057.65013334.25012852.90013334.25015057.65017141.15018076.55117141.150									
27.5	16236.30015182.45013026.65011254.51010814.01011254.51013026.65015182.45016236.30015182.450									
30.0	13562.95012543.00010596.8608986.220 8623.470 8986.220 10596.86012543.00013562.95012543.000									
32.5	10128.5009329.490 7832.740 6617.880 6414.800 6617.880 7832.740 9329.490 10128.5009329.490									
35.0	6589.640 5975.860 5059.590 4395.520 4400.730 4395.520 5059.590 5975.860 6589.640 5975.860									
37.5	3585.340 3190.470 2840.620 2625.220 2735.550 2625.220 2840.620 3190.470 3585.340 3190.470									
40.0	1902.400 1546.820 1465.390 1432.380 1576.470 1432.380 1465.390 1546.820 1902.400 1546.820									
42.5	1176.370 885.860 856.760 835.790 906.870 835.790 856.760 885.860 1176.370 885.860									
45.0	992.600 665.470 649.230 625.610 639.700 625.610 649.230 665.470 992.600 665.470									
47.5	960.000 594.990 567.820 546.620 556.240 546.620 567.820 594.990 960.000 594.990									
50.0	915.460 551.050 511.210 490.980 495.110 490.980 511.210 551.050 915.460 551.050									
52.5	862.110 511.300 470.110 448.140 450.620 448.140 470.110 511.300 862.110 511.300									
55.0	807.170 478.550 437.620 406.930 419.700 406.930 437.620 478.550 807.170 478.550									
57.5	716.910 443.640 402.050 378.340 405.190 378.340 402.050 443.640 716.910 443.640									
60.0	633.720 399.080 360.340 350.120 368.500 350.120 360.340 399.080 633.720 399.080									
62.5	533.150 352.990 314.390 336.180 364.480 336.180 314.390 352.990 533.150 352.990									
65.0	393.850 307.560 273.060 318.860 353.580 318.860 273.060 307.560 393.850 307.560									
67.5	295.440 268.100 253.730 300.900 319.640 300.900 253.730 268.100 295.440 268.100									
70.0	261.950 230.480 239.480 277.250 291.010 277.250 239.480 230.480 261.950 230.480									
72.5	320.260 189.430 223.190 252.690 296.890 252.690 223.190 189.430 320.260 189.430									
75.0	270.140 150.130 208.930 216.650 221.980 216.650 208.930 150.130 270.140 150.130									
77.5	171.160 123.770 189.520 189.260 230.820 189.260 189.520 123.770 171.160 123.770									
80.0	127.510 111.010 162.540 171.120 227.750 171.120 162.540 111.010 127.510 111.010									
82.5	93.630 108.530 134.630 187.020 223.510 187.020 134.630 108.530 93.630 108.530									
85.0	63.770 104.470 150.220 193.480 233.440 193.480 150.220 104.470 63.770 104.470									
87.5	42.950 98.670 166.560 197.760 230.140 197.760 166.560 98.670 42.950 98.670									
90.0	26.750 87.040 151.500 159.340 174.670 159.340 151.500 87.040 26.750 87.040									
92.5	21.460 85.280 106.870 102.300 111.370 102.300 106.870 85.280 21.460 85.280									
95.0	24.590 65.780 50.780 53.730 65.840 53.730 50.780 65.780 24.590 65.780									
97.5	28.170 29.020 19.310 21.200 25.640 21.200 19.310 29.020 28.170 29.020									
100.0	27.590 13.190 11.420 14.040 16.260 14.040 11.420 13.190 27.590 13.190									
102.5	24.910 11.640 9.670 11.640 12.960 11.640 9.670 11.640 24.910 11.640									
105.0	21.360 10.990 8.280 10.240 11.470 10.240 8.280 10.990 21.360 10.990									
107.5	16.890 10.080 7.050 9.010 9.910 9.010 7.050 10.080 16.890 10.080									
110.0	13.100 8.790 5.960 7.810 8.390 7.810 5.960 8.790 13.100 8.790									
112.5	10.040 7.780 5.090 6.210 7.120 6.210 5.090 7.780 10.040 7.780									
115.0	8.260 7.310 4.630 5.100 6.010 5.100 4.630 7.310 8.260 7.310									
117.5	6.530 7.810 4.490 4.640 5.220 4.640 4.490 7.810 6.530 7.810									
120.0	5.330 7.890 4.180 4.250 5.010 4.250 4.180 7.890 5.330 7.890									
122.5	4.590 5.470 5.980 3.670 4.130 3.670 5.980 5.470 4.590 5.470									
125.0	3.750 3.660 9.610 4.370 4.560 4.370 9.610 3.660 3.750 3.660									
127.5	3.130 2.650 12.380 7.520 7.240 7.520 12.380 2.650 3.130 2.650									
130.0	2.910 2.530 10.870 13.140 14.370 13.140 10.870 2.530 2.910 2.530									
132.5	2.900 2.810 8.420 14.790 16.200 14.790 8.420 2.810 2.900 2.810									

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CANDELA TABULATION - (Cont.)

135.0	3.050	2.910	6.290	14.940	14.990	14.940	6.290	2.910	3.050	2.910
137.5	3.000	3.200	5.550	12.300	18.280	12.300	5.550	3.200	3.000	3.200
140.0	3.730	3.920	5.060	9.000	12.960	9.000	5.060	3.920	3.730	3.920
142.5	4.030	4.340	5.310	7.800	9.730	7.800	5.310	4.340	4.030	4.340
145.0	4.310	4.640	5.440	7.290	8.300	7.290	5.440	4.640	4.310	4.640
147.5	4.960	5.110	5.530	7.320	7.650	7.320	5.530	5.110	4.960	5.110
150.0	5.400	5.570	5.950	7.060	7.230	7.060	5.950	5.570	5.400	5.570
152.5	6.010	6.130	6.540	6.900	7.360	6.900	6.540	6.130	6.010	6.130
155.0	6.370	6.810	6.920	7.130	7.870	7.130	6.920	6.810	6.370	6.810
157.5	7.280	7.390	7.470	7.840	8.080	7.840	7.470	7.390	7.280	7.390
160.0	7.850	8.220	8.090	8.320	8.650	8.320	8.090	8.220	7.850	8.220
162.5	8.400	8.640	8.400	8.780	9.250	8.780	8.400	8.640	8.400	8.640
165.0	9.050	8.940	8.830	9.260	9.600	9.260	8.830	8.940	9.050	8.940
167.5	9.470	9.170	9.540	9.640	9.890	9.640	9.540	9.170	9.470	9.170
170.0	9.500	9.640	9.760	10.250	10.350	10.250	9.760	9.640	9.500	9.640
172.5	10.380	10.350	10.220	10.670	11.240	10.670	10.220	10.350	10.380	10.350
175.0	10.810	11.060	10.750	11.420	11.590	11.420	10.750	11.060	10.810	11.060
177.5	11.190	11.660	10.850	11.590	11.720	11.590	10.850	11.660	11.190	11.660
180.0	11.400	11.400	11.400	11.400	11.400	11.400	11.400	11.400	11.400	11.400

Vert. 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	23261.420	23261.420	23261.420	23261.420	23261.420	23261.420	23261.420
2.5	23226.000	23128.850	23027.900	23128.850	23226.000	23254.051	23258.949
5.0	23013.900	22826.900	22693.900	22826.900	23013.900	23132.600	23207.850
7.5	22649.250	22331.400	22158.600	22331.400	22649.250	22943.449	23102.850
10.0	22158.000	21669.900	21411.900	21669.900	22158.000	22667.100	22925.850
12.5	21542.301	20767.000	20478.100	20767.000	21542.301	22295.199	22622.250
15.0	20718.850	19696.350	19354.051	19696.350	20718.850	21754.199	22173.400
17.5	19665.051	18444.000	18047.801	18444.000	19665.051	20974.600	21514.900
20.0	18379.000	16958.801	16516.100	16958.801	18379.000	19936.400	20622.250
22.5	16831.600	15253.050	14782.700	15253.050	16831.600	18672.150	19506.400
25.0	15057.650	13334.250	12852.900	13334.250	15057.650	17141.150	18076.551
27.5	13026.650	11254.510	10814.010	11254.510	13026.650	15182.450	16236.300
30.0	10596.860	8986.220	8623.470	8986.220	10596.860	12543.000	13562.950
32.5	7832.740	6617.880	6414.800	6617.880	7832.740	9329.490	10128.500
35.0	5059.590	4395.520	4400.730	4395.520	5059.590	5975.860	6589.640
37.5	2840.620	2625.220	2735.550	2625.220	2840.620	3190.470	3585.340
40.0	1465.390	1432.380	1576.470	1432.380	1465.390	1546.820	1902.400
42.5	856.760	835.790	906.870	835.790	856.760	885.860	1176.370
45.0	649.230	625.610	639.700	625.610	649.230	665.470	992.600
47.5	567.820	546.620	556.240	546.620	567.820	594.990	960.000
50.0	511.210	490.980	495.110	490.980	511.210	551.050	915.460
52.5	470.110	448.140	450.620	448.140	470.110	511.300	862.110
55.0	437.620	406.930	419.700	406.930	437.620	478.550	807.170
57.5	402.050	378.340	405.190	378.340	402.050	443.640	716.910
60.0	360.340	350.120	368.500	350.120	360.340	399.080	633.720
62.5	314.390	336.180	364.480	336.180	314.390	352.990	533.150
65.0	273.060	318.860	353.580	318.860	273.060	307.560	393.850
67.5	253.730	300.900	319.640	300.900	253.730	268.100	295.440
70.0	239.480	277.250	291.010	277.250	239.480	230.480	261.950
72.5	223.190	252.690	296.890	252.690	223.190	189.430	320.260
75.0	208.930	216.650	221.980	216.650	208.930	150.130	270.140
77.5	189.520	189.260	230.820	189.260	189.520	123.770	171.160
80.0	162.540	171.120	227.750	171.120	162.540	111.010	127.510

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CANDELA TABULATION - (Cont.)

82.5	134.630	187.020	223.510	187.020	134.630	108.530	93.630
85.0	150.220	193.480	233.440	193.480	150.220	104.470	63.770
87.5	166.560	197.760	230.140	197.760	166.560	98.670	42.950
90.0	151.500	159.340	174.670	159.340	151.500	87.040	26.750
92.5	106.870	102.300	111.370	102.300	106.870	85.280	21.460
95.0	50.780	53.730	65.840	53.730	50.780	65.780	24.590
97.5	19.310	21.200	25.640	21.200	19.310	29.020	28.170
100.0	11.420	14.040	16.260	14.040	11.420	13.190	27.590
102.5	9.670	11.640	12.960	11.640	9.670	11.640	24.910
105.0	8.280	10.240	11.470	10.240	8.280	10.990	21.360
107.5	7.050	9.010	9.910	9.010	7.050	10.080	16.890
110.0	5.960	7.810	8.390	7.810	5.960	8.790	13.100
112.5	5.090	6.210	7.120	6.210	5.090	7.780	10.040
115.0	4.630	5.100	6.010	5.100	4.630	7.310	8.260
117.5	4.490	4.640	5.220	4.640	4.490	7.810	6.530
120.0	4.180	4.250	5.010	4.250	4.180	7.890	5.330
122.5	5.980	3.670	4.130	3.670	5.980	5.470	4.590
125.0	9.610	4.370	4.560	4.370	9.610	3.660	3.750
127.5	12.380	7.520	7.240	7.520	12.380	2.650	3.130
130.0	10.870	13.140	14.370	13.140	10.870	2.530	2.910
132.5	8.420	14.790	16.200	14.790	8.420	2.810	2.900
135.0	6.290	14.940	14.990	14.940	6.290	2.910	3.050
137.5	5.550	12.300	18.280	12.300	5.550	3.200	3.000
140.0	5.060	9.000	12.960	9.000	5.060	3.920	3.730
142.5	5.310	7.800	9.730	7.800	5.310	4.340	4.030
145.0	5.440	7.290	8.300	7.290	5.440	4.640	4.310
147.5	5.530	7.320	7.650	7.320	5.530	5.110	4.960
150.0	5.950	7.060	7.230	7.060	5.950	5.570	5.400
152.5	6.540	6.900	7.360	6.900	6.540	6.130	6.010
155.0	6.920	7.130	7.870	7.130	6.920	6.810	6.370
157.5	7.470	7.840	8.080	7.840	7.470	7.390	7.280
160.0	8.090	8.320	8.650	8.320	8.090	8.220	7.850
162.5	8.400	8.780	9.250	8.780	8.400	8.640	8.400
165.0	8.830	9.260	9.600	9.260	8.830	8.940	9.050
167.5	9.540	9.640	9.890	9.640	9.540	9.170	9.470
170.0	9.760	10.250	10.350	10.250	9.760	9.640	9.500
172.5	10.220	10.670	11.240	10.670	10.220	10.350	10.380
175.0	10.750	11.420	11.590	11.420	10.750	11.060	10.810
177.5	10.850	11.590	11.720	11.590	10.850	11.660	11.190
180.0	11.400	11.400	11.400	11.400	11.400	11.400	11.400

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7947.09	N.A.	39.60
0-30	14799.66	N.A.	73.80
0-40	18195.83	N.A.	90.70
0-60	19252.28	N.A.	96.00
0-80	19791.46	N.A.	98.70
0-90	19951.38	N.A.	99.50
10-90	17783.64	N.A.	88.70
20-40	10248.74	N.A.	51.10
20-50	10872.42	N.A.	54.20
40-70	1376.41	N.A.	6.90
60-80	539.18	N.A.	2.70
70-80	219.22	N.A.	1.10
80-90	159.92	N.A.	0.80
90-110	77.31	N.A.	0.40
90-120	83.65	N.A.	0.40
90-130	89.08	N.A.	0.40
90-150	99.30	N.A.	0.50
90-180	106.12	N.A.	0.50
110-180	28.81	N.A.	0.10
0-180	20057.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2167.74
10-20	5779.34
20-30	6852.57
30-40	3396.17
40-50	623.67
50-60	432.77
60-70	319.96
70-80	219.22
80-90	159.92
90-100	65.10
100-110	12.21
110-120	6.35
120-130	5.43
130-140	6.37
140-150	3.85
150-160	3.26
160-170	2.55
170-180	1.02

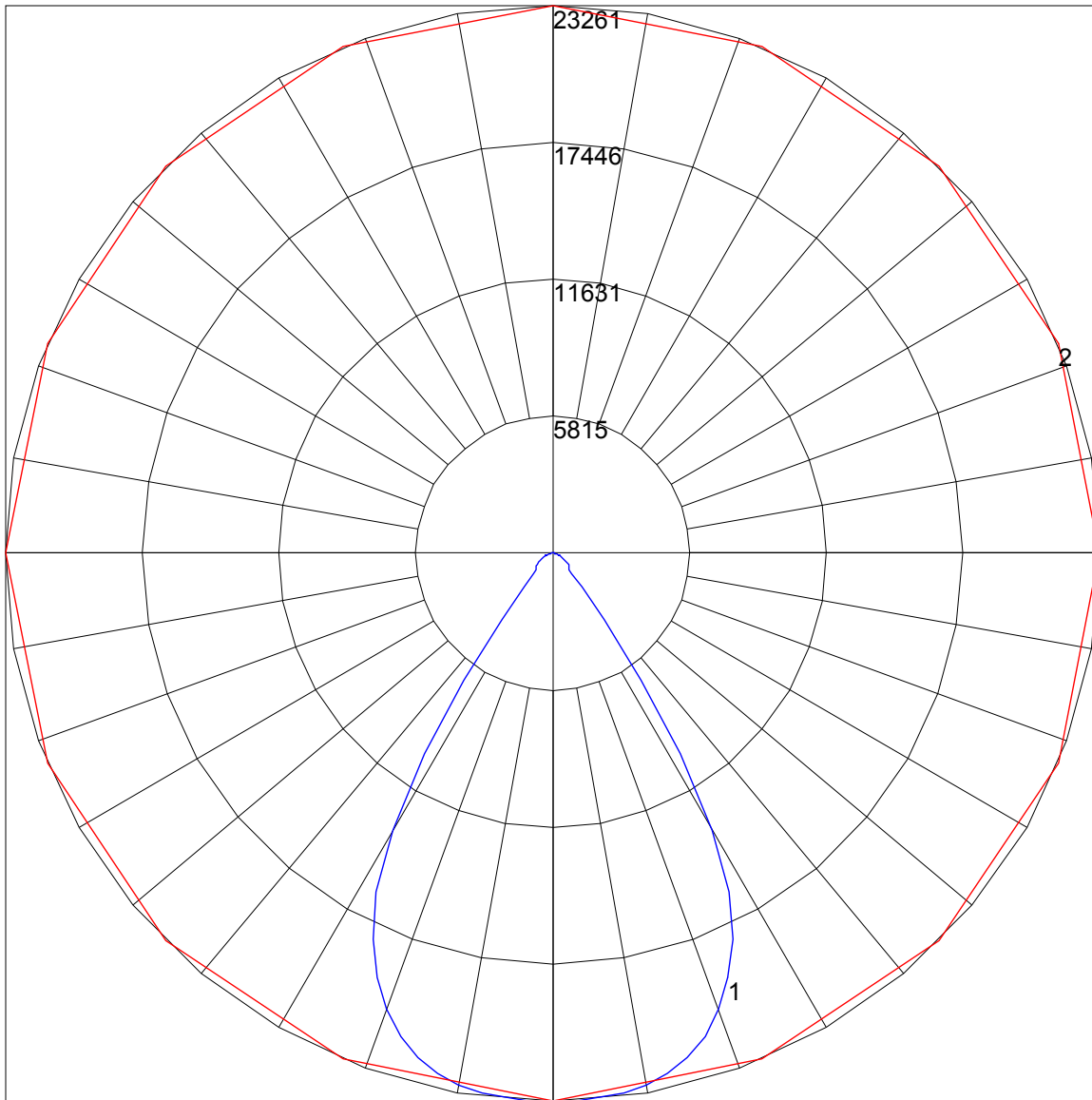
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	99
1	113	110	107	105	110	108	105	103	103	102	100	100	98	97	96	95	94	92
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	102	95	90	86	100	94	89	85	91	87	84	88	85	82	86	83	81	79
4	97	89	83	79	95	88	82	78	85	81	77	83	79	76	81	78	75	74
5	92	83	77	73	90	82	77	73	80	76	72	79	74	71	77	73	71	69
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65
7	83	74	68	63	82	73	67	63	72	67	63	70	66	62	69	65	62	61
8	79	70	64	60	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	63	58	55	54
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51

POLAR GRAPH



Maximum Candela = 23261.42 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.)