PHILIPS PHILIPS

Day-Brite CFI

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX20LL40-UNV-N-LFP.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO33708.PSO
[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUEDATE] 10/27/14
[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI
[LUMCAT] APX20LL40-UNV-N-LFP
[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K 2-95W DRIVERS 18K RESISTORS NARROW OPTICS DP-FR50 LENS
[LAMP] LED. LUMINAIRE OUTPUT = 20338 LMS
[TESTDATE] 10/27/14

CHARACTERISTICS



Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20338
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	168
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	7954	5435	4792
55	4527	2911	2630
65	3156	1962	1870
75	2274	1409	1457
85	1134	919	1120

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	19840.28	19840.28	19840.28	19840.28	19840.28	19840.28	19840.28	19840.28	19840.28	19840.289
2.5	19785.44	19788.50	19781.25	19719.40	19645.94	19719.40	19781.25	19788.50	19785.44	19788.500
5.0	19613.00	19581.10	19532.80	19443.25	19332.69	19443.25	19532.80	19581.10	19613.00	19581.100
7.5	19311.55	19236.55	19113.40	18944.40	18824.00	18944.40	19113.40	19236.55	19311.55	19236.551
10.0	18863.00	18757.10	18516.60	18264.10	18098.55	18264.10	18516.60	18757.10	18863.00	18757.100
12.5	18271.44	18121.85	17748.90	17363.05	17179.80	17363.05	17748.90	18121.85	18271.44	18121.850
15.0	17510.80	17319.75	16792.05	16304.15	16069.15	16304.15	16792.05	17319.75	17510.80	17319.750
17.5	16576.30	16344.45	15681.90	15081.20	14832.95	15081.20	15681.90	16344.45	16576.30	16344.450
20.0	15469.00	15192.65	14425.90	13729.40	13475.40	13729.40	14425.90	15192.65	15469.00	15192.650
22.5	14186.25	13877.80	13022.15	12298.90	12042.37	12298.90	13022.15	13877.80	14186.25	13877.800
25.0	12771.60	12439.65	11530.70	10823.22	10558.99	10823.22	11530.70	12439.65	12771.60	12439.650
27.5	11290.70	10926.15	10031.39	09331.180	9120.260	9331.180	10031.39	10926.15	11290.70	10926.150
30.0	9752.100	9394.690	8560.850	7888.670	7724.360	7888.670	8560.850	9394.690	9752.100	9394.690
32.5	8210.530	7905.850	7141.580	6557.470	6424.310	6557.470	7141.580	7905.850	8210.530	7905.850
35.0	6793.340	6513.220	5846.930	5356.890	5281.530	5356.890	5846.930	6513.220	6793.340	6513.220
37.5	5559.690	5280.950	4727.520	4338.010	4276.980	4338.010	4727.520	5280.950	5559.690	5280.950
40.0	4499.080	4247.590	3810.500	3493.180	3444.100	3493.180	3810.500	4247.590	4499.080	4247.590
42.5	3618.320	3417.880	3069.270	2817.120	2780.610	2817.120	3069.270	3417.880	3618.320	3417.880
45.0	2930.970	2760.470	2483.760	2285.140	2257.410	2285.140	2483.760	2760.470	2930.970	2760.470
47.5	2406.610	2248.870	2033.140	1873.370	1854.860	1873.370	2033.140	2248.870	2406.610	2248.870
50.0	1994.050	1853.320	1685.080	1564.790	1548.070	1564.790	1685.080	1853.320	1994.050	1853.320
52.5	1667.280	1551.090	1417.680	1326.970	1315.270	1326.970	1417.680	1551.090	1667.280	1551.090
55.0	1413.680	1315.970	1207.490	1140.590	1133.810	1140.590	1207.490	1315.970	1413.680	1315.970
57.5	1212.760	1129.180	1044.520	994.310	991.230	994.310	1044.520	1129.180	1212.760	1129.180
60.0	1044.740	977.210	912.670	878.590	879.890	878.590	912.670	977.210	1044.740	977.210
62.5	901.210	847.940	802.220	784.010	788.090	784.010	802.220	847.940	901.210	847.940
65.0	778.120	735.930	706.180	700.220	706.910	700.220	706.180	735.930	778.120	735.930
67.5	669.230	636.990	622.190	624.860	634.770	624.860	622.190	636.990	669.230	636.990
70.0	570.460	547.590	547.520	558.290	570.030	558.290	547.520	547.590	570.460	547.590
72.5	478.870	466.280	478.830	497.260	511.490	497.260	478.830	466.280	478.870	466.280
75.0	394.230	389.980	414.570	440.420	456.860	440.420	414.570	389.980	394.230	389.980
77.5	313.350	317.580	354.090	386.020	405.180	386.020	354.090	317.580	313.350	317.580
80.0	236.630	250.210	297.610	335.420	356.950	335.420	297.610	250.210	236.630	250.210
82.5	166.430	189.620	246.370	289.780	311.810	289.780	246.370	189.620	166.430	189.620
85.0	107.630	139.310	201.830	246.270	268.130	246.270	201.830	139.310	107.630	139.310
87.5	65.380	104.290	168.060	210.980	230.360	210.980	168.060	104.290	65.380	104.290
90.0	46.970	80.360	138.870	177.670	195.120	177.670	138.870	80.360	46.970	80.360
92.5	43.290	66.830	114.390	147.640	162.850	147.640	114.390	66.830	43.290	66.830
95.0	41.300	59.660	96.560	123.600	135.940	123.600	96.560	59.660	41.300	59.660
97.5	39.690	53.990	84.620	106.410	116.180	106.410	84.620	53.990	39.690	53.990
100.0	37.790	48.740	76.270	95.230	102.840	95.230	76.270	48.740	37.790	48.740
102.5	35.290	44.020	69.620	87.780	94.580	87.780	69.620	44.020	35.290	44.020
105.0	32.260	39.670	65.010	83.370	89.240	83.370	65.010	39.670	32.260	39.670
107.5	29.430	35.950	60.420	79.400	85.330	79.400	60.420	35.950	29.430	35.950
110.0	26.000	31.880	56.470	75.750	81.890	75.750	56.470	31.880	26.000	31.880
112.5	22.460	27.900	52.300	71.850	78.360	71.850	52.300	27.900	22.460	27.900
115.0	19.080	24.010	48.370	67.650	74.360	67.650	48.370	24.010	19.080	24.010
117.5	16.240	20.320	44.110	63.370	70.030	63.370	44.110	20.320	16.240	20.320
120.0	13.430	16.720	39.930	59.190	65.890	59.190	39.930	16.720	13.430	16.720
122.5	11.220	13.260	35.850	54.610	60.860	54.610	35.850	13.260	11.220	13.260
125.0	8.980	10.480	31.660	49.810	56.150	49.810	31.660	10.480	8.980	10.480
127.5	7.340	7.890	27.690	45.100	51.770	45.100	27.690	7.890	7.340	7.890
130.0	6.200	5.900	23.710	40.940	47.170	40.940	23.710	5.900	6.200	5.900
132.5	5.450	4.770	20.150	36.370	42.140	36.370	20.150	4.770	5.450	4.770

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CANDELA TABULATION - (Cont.)

135.0	4.580	3.860	16.550	31.960	37.020	31.960	16.550	3.860	4.580	3.860
137.5	4.190	3.540	13.410	27.570	32.510	27.570	13.410	3.540	4.190	3.540
140.0	3.570	3.270	10.600	23.510	27.710	23.510	10.600	3.270	3.570	3.270
142.5	3.430	3.250	8.170	19.500	23.440	19.500	8.170	3.250	3.430	3.250
145.0	3.250	3.050	6.360	15.940	19.330	15.940	6.360	3.050	3.250	3.050
147.5	3.130	3.150	4.900	12.710	15.600	12.710	4.900	3.150	3.130	3.150
150.0	3.040	3.180	4.190	9.800	12.220	9.800	4.190	3.180	3.040	3.180
152.5	3.270	3.340	3.870	7.530	9.450	7.530	3.870	3.340	3.270	3.340
155.0	3.360	3.670	3.950	5.860	7.390	5.860	3.950	3.670	3.360	3.670
157.5	3.770	4.080	4.210	5.220	6.380	5.220	4.210	4.080	3.770	4.080
160.0	4.390	4.520	4.590	5.020	5.600	5.020	4.590	4.520	4.390	4.520
162.5	4.850	4.840	4.880	5.260	5.470	5.260	4.880	4.840	4.850	4.840
165.0	5.230	5.250	5.160	5.470	5.630	5.470	5.160	5.250	5.230	5.250
167.5	5.270	5.290	5.210	5.690	5.830	5.690	5.210	5.290	5.270	5.290
170.0	5.590	5.490	5.480	5.890	6.070	5.890	5.480	5.490	5.590	5.490
172.5	5.950	6.020	5.810	6.290	6.480	6.290	5.810	6.020	5.950	6.020
175.0	6.380	6.340	6.380	6.570	6.790	6.570	6.380	6.340	6.380	6.340
177.5	6.770	6.970	6.290	6.790	6.900	6.790	6.290	6.970	6.770	6.970
180.0	6.730	6.730	6.730	6.730	6.730	6.730	6.730	6.730	6.730	6.730

Vert. Angles	**Horizontal Angles**						
	225.0	**247.5**	**270.0**	**292.5**	**315.0**	**337.5**	**360.0**
0.0	19840.28	19840.28	19840.28	19840.28	19840.28	19840.28	19840.289
2.5	19781.25	19719.40	19645.94	19719.40	19781.25	19788.50	19785.449
5.0	19532.80	119443.25	19332.69	19443.25	19532.80	119581.10	19613.000
7.5	19113.40	18944.40	18824.00	18944.40	19113.40	19236.55	119311.551
10.0	18516.60	18264.10	18098.55	118264.10	18516.60	18757.10	18863.000
12.5	17748.90	17363.05	117179.80	117363.05	117748.90	18121.85	18271.449
15.0	16792.05	116304.15	16069.15	16304.15	16792.05	117319.75	17510.801
17.5	15681.90	15081.20	14832.95	15081.20	15681.90	16344.45	16576.301
20.0	14425.90	13729.40	13475.40	13729.40	14425.90	15192.65	15469.000
22.5	13022.15	12298.90	12042.37	12298.90	13022.15	13877.80	14186.250
25.0	11530.70	10823.22	10558.99	10823.22	11530.70	12439.65	12771.600
27.5	10031.39	09331.180	9120.260	9331.180	10031.39	10926.15	11290.700
30.0	8560.850	7888.670	7724.360	7888.670	8560.850	9394.690	9752.100
32.5	7141.580	6557.470	6424.310	6557.470	7141.580	7905.850	8210.530
35.0	5846.930	5356.890	5281.530	5356.890	5846.930	6513.220	6793.340
37.5	4727.520	4338.010	4276.980	4338.010	4727.520	5280.950	5559.690
40.0	3810.500	3493.180	3444.100	3493.180	3810.500	4247.590	4499.080
42.5	3069.270	2817.120	2780.610	2817.120	3069.270	3417.880	3618.320
45.0	2483.760	2285.140	2257.410	2285.140	2483.760	2760.470	2930.970
47.5	2033.140	1873.370	1854.860	1873.370	2033.140	2248.870	2406.610
50.0	1685.080	1564.790	1548.070	1564.790	1685.080	1853.320	1994.050
52.5	1417.680	1326.970	1315.270	1326.970	1417.680	1551.090	1667.280
55.0	1207.490	1140.590	1133.810	1140.590	1207.490	1315.970	1413.680
57.5	1044.520	994.310	991.230	994.310	1044.520	1129.180	1212.760
60.0	912.670	878.590	879.890	878.590	912.670	977.210	1044.740
62.5	802.220	784.010	788.090	784.010	802.220	847.940	901.210
65.0	706.180	700.220	706.910	700.220	706.180	735.930	778.120
67.5	622.190	624.860	634.770	624.860	622.190	636.990	669.230
70.0	547.520	558.290	570.030	558.290	547.520	547.590	570.460
72.5	478.830	497.260	511.490	497.260	478.830	466.280	478.870
75.0	414.570	440.420	456.860	440.420	414.570	389.980	394.230
77.5	354.090	386.020	405.180	386.020	354.090	317.580	313.350
80.0	297.610	335.420	356.950	335.420	297.610	250.210	236.630

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CANDELA TABULATION - (Cont.)

82.5	246.370	289.780	311.810	289.780	246.370	189.620	166.430
85.0	201.830	246.270	268.130	246.270	201.830	139.310	107.630
87.5	168.060	210.980	230.360	210.980	168.060	104.290	65.380
90.0	138.870	177.670	195.120	177.670	138.870	80.360	46.970
92.5	114.390	147.640	162.850	147.640	114.390	66.830	43.290
95.0	96.560	123.600	135.940	123.600	96.560	59.660	41.300
97.5	84.620	106.410	116.180	106.410	84.620	53.990	39.690
100.0	76.270	95.230	102.840	95.230	76.270	48.740	37.790
102.5	69.620	87.780	94.580	87.780	69.620	44.020	35.290
105.0	65.010	83.370	89.240	83.370	65.010	39.670	32.260
107.5	60.420	79.400	85.330	79.400	60.420	35.950	29.430
110.0	56.470	75.750	81.890	75.750	56.470	31.880	26.000
112.5	52.300	71.850	78.360	71.850	52.300	27.900	22.460
115.0	48.370	67.650	74.360	67.650	48.370	24.010	19.080
117.5	44.110	63.370	70.030	63.370	44.110	20.320	16.240
120.0	39.930	59.190	65.890	59.190	39.930	16.720	13.430
122.5	35.850	54.610	60.860	54.610	35.850	13.260	11.220
125.0	31.660	49.810	56.150	49.810	31.660	10.480	8.980
127.5	27.690	45.100	51.770	45.100	27.690	7.890	7.340
130.0	23.710	40.940	47.170	40.940	23.710	5.900	6.200
132.5	20.150	36.370	42.140	36.370	20.150	4.770	5.450
135.0	16.550	31.960	37.020	31.960	16.550	3.860	4.580
137.5	13.410	27.570	32.510	27.570	13.410	3.540	4.190
140.0	10.600	23.510	27.710	23.510	10.600	3.270	3.570
142.5	8.170	19.500	23.440	19.500	8.170	3.250	3.430
145.0	6.360	15.940	19.330	15.940	6.360	3.050	3.250
147.5	4.900	12.710	15.600	12.710	4.900	3.150	3.130
150.0	4.190	9.800	12.220	9.800	4.190	3.180	3.040
152.5	3.870	7.530	9.450	7.530	3.870	3.340	3.270
155.0	3.950	5.860	7.390	5.860	3.950	3.670	3.360
157.5	4.210	5.220	6.380	5.220	4.210	4.080	3.770
160.0	4.590	5.020	5.600	5.020	4.590	4.520	4.390
162.5	4.880	5.260	5.470	5.260	4.880	4.840	4.850
165.0	5.160	5.470	5.630	5.470	5.160	5.250	5.230
167.5	5.210	5.690	5.830	5.690	5.210	5.290	5.270
170.0	5.480	5.890	6.070	5.890	5.480	5.490	5.590
172.5	5.810	6.290	6.480	6.290	5.810	6.020	5.950
175.0	6.380	6.570	6.790	6.570	6.380	6.340	6.380
177.5	6.290	6.790	6.900	6.790	6.290	6.970	6.770
180.0	6.730	6.730	6.730	6.730	6.730	6.730	6.730

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6500.15	N.A.	32.00
0-30	11786.34	N.A.	58.00
0-40	15535.88	N.A.	76.40
0-60	18683.02	N.A.	91.90
0-80	19848.83	N.A.	97.60
0-90	20068.21	N.A.	98.70
10-90	18238.03	N.A.	89.70
20-40	9035.74	N.A.	44.40
20-50	11051.41	N.A.	54.30
40-70	3869.18	N.A.	19.00
60-80	1165.81	N.A.	5.70
70-80	443.77	N.A.	2.20
80-90	219.38	N.A.	1.10
90-110	170.60	N.A.	0.80
90-120	217.03	N.A.	1.10
90-130	245.24	N.A.	1.20
90-150	265.68	N.A.	1.30
90-180	270.09	N.A.	1.30
110-180	99.50	N.A.	0.50
0-180	20338.31	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1830.18
10-20	4669.96
20-30	5286.19
30-40	3749.55
40-50	2015.67
50-60	1131.46
60-70	722.05
70-80	443.77
80-90	219.38
90-100	104.24
100-110	66.36
110-120	46.44
120-130	28.21
130-140	14.46
140-150	5.98
150-160	2.35
160-170	1.48
170-180	0.59

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

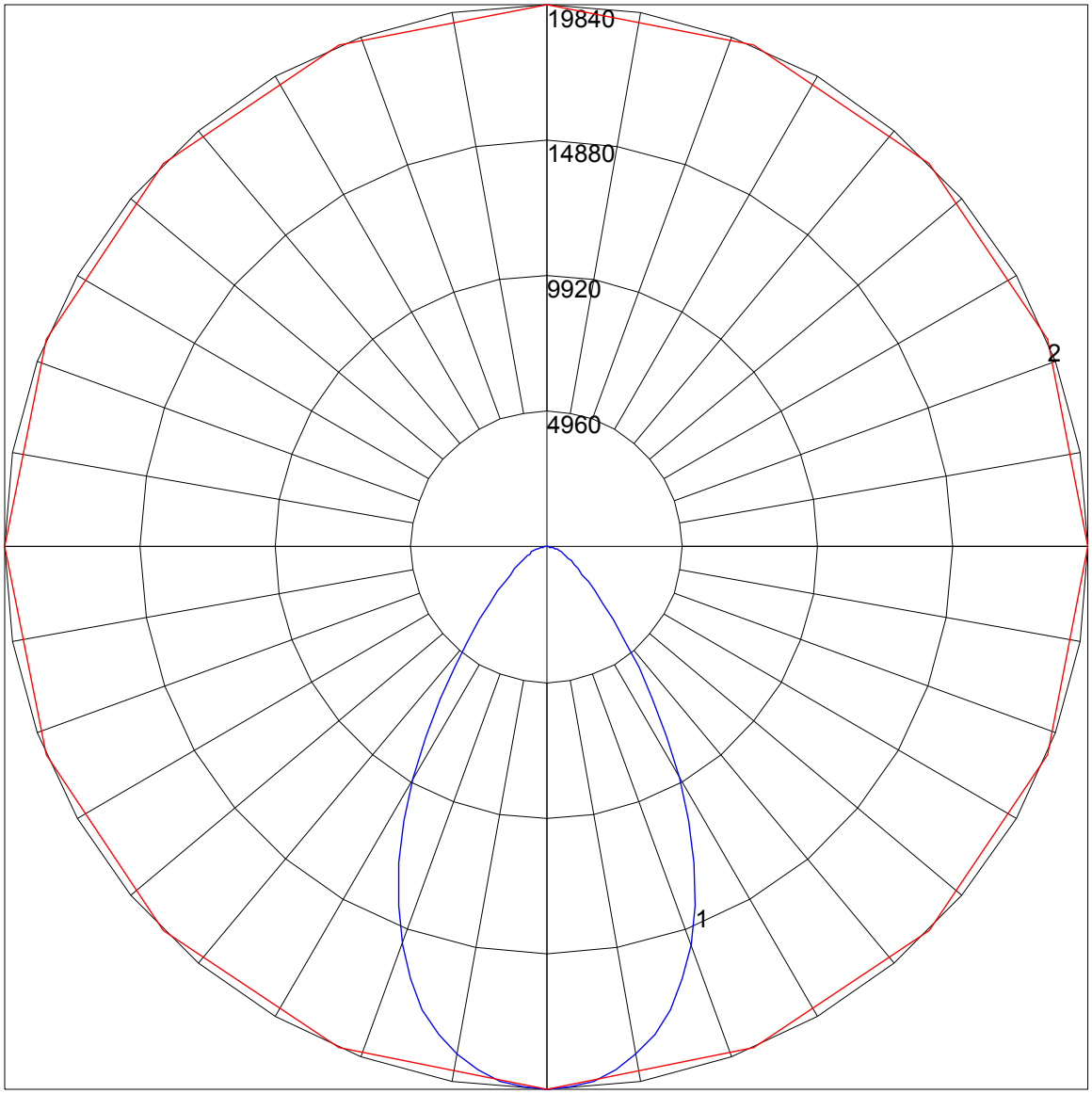
Effective Floor Cavity Reflectance 0.20

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	101	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	81
3	98	91	85	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73
4	93	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	67	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	51	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

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Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX20LL40-UNV-N-LFP.IES

POLAR GRAPH



Maximum Candela = 19840.289 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.)

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