IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX16LL40-UNV-N-LCP.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO33706.PSO
[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUEDATE] 10/27/14
[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI
[LUMCAT] APX16LL40-UNV-N-LCP
[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K 2-95W DRIVERS 4.7K RESISTORS NARROW OPTICS DP LENS
[LAMP] LED. LUMINAIRE OUTPUT = 15487 LMS
[TESTDATE] 10/27/14

CHARACTERISTICS



Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15487
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	123.2
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	2026	1108	1044
55	1917	821	754
65	1186	586	738
75	1217	522	545
85	547	499	784

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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	17913.43	17913.43	17913.43	17913.43	17913.43	17913.43	17913.43	17913.43	17913.43	17913.439
2.5	17917.40	17896.55	17117903.25	17824.00	17769.50	17824.00	17903.25	17896.55	17117917.40	17896.551
5.0	17878.60	17815.35	17017763.19	17600.90	17520.60	17600.90	17763.19	17815.35	17017878.60	17815.350
7.5	17799.30	17688.10	17017493.80	17231.05	17117104.60	17231.05	17117493.80	17688.10	17017799.30	17688.100
10.0	17656.75	17504.19	17917131.60	16726.00	16519.15	16726.00	17017131.60	17504.19	17917656.75	17504.199
12.5	17421.44	17223.55	17116671.00	16046.65	15782.65	16046.65	16671.00	17223.55	17117421.44	17223.551
15.0	17048.55	16799.94	16916057.60	15242.20	14919.00	15242.20	16057.60	16799.94	16917048.55	16799.949
17.5	16524.05	16205.45	16015265.65	14278.75	13901.15	14278.75	15265.65	16205.45	16016524.05	16205.450
20.0	15820.15	15429.55	15014278.75	13134.40	12695.95	13134.40	14278.75	15429.55	15015820.15	15429.550
22.5	14945.90	14456.40	13102.70	11820.25	11344.03	11820.25	13102.70	14456.40	14945.90	14456.400
25.0	13830.35	13260.35	11748.55	10333.95	09821.640	10333.95	11748.55	13260.35	13830.35	13260.350
27.5	12380.85	11733.75	10173.66	08706.510	8186.460	8706.510	10173.66	11733.75	12380.85	11733.750
30.0	10299.50	09714.310	8255.940	6951.760	6497.590	6951.760	8255.940	9714.310	10299.50	09714.310
32.5	7646.800	7237.190	6085.720	5120.020	4829.280	5120.020	6085.720	7237.190	7646.800	7237.190
35.0	4919.880	4627.580	3943.120	3414.660	3326.090	3414.660	3943.120	4627.580	4919.880	4627.580
37.5	2649.800	2483.160	2245.240	2041.150	2075.900	2041.150	2245.240	2483.160	2649.800	2483.160
40.0	1414.600	1227.840	1173.810	1127.340	1201.060	1127.340	1173.810	1227.840	1414.600	1227.840
42.5	876.290	697.950	683.440	662.850	689.650	662.850	683.440	697.950	876.290	697.950
45.0	746.460	517.440	506.170	487.520	491.830	487.520	506.170	517.440	746.460	517.440
47.5	721.440	463.510	440.880	425.020	429.350	425.020	440.880	463.510	721.440	463.510
50.0	685.950	431.230	398.440	382.570	381.640	382.570	398.440	431.230	685.950	431.230
52.5	643.770	401.070	365.070	348.260	348.460	348.260	365.070	401.070	643.770	401.070
55.0	598.550	375.270	340.350	315.170	325.100	315.170	340.350	375.270	598.550	375.270
57.5	524.650	347.130	314.300	290.790	312.800	290.790	314.300	347.130	524.650	347.130
60.0	455.250	310.860	283.360	268.740	285.550	268.740	283.360	310.860	455.250	310.860
62.5	383.650	273.580	246.940	256.140	285.720	256.140	246.940	273.580	383.650	273.580
65.0	292.400	242.180	210.960	243.560	278.870	243.560	210.960	242.180	292.400	242.180
67.5	225.950	210.850	188.990	229.610	248.090	229.610	188.990	210.850	225.950	210.850
70.0	200.790	181.230	174.310	213.750	225.590	213.750	174.310	181.230	200.790	181.230
72.5	241.670	151.850	163.800	194.320	230.310	194.320	163.800	151.850	241.670	151.850
75.0	210.910	124.260	153.630	168.030	170.690	168.030	153.630	124.260	210.910	124.260
77.5	135.870	102.170	144.030	146.240	179.560	146.240	144.030	102.170	135.870	102.170
80.0	102.110	84.640	124.360	130.480	181.700	130.480	124.360	84.640	102.110	84.640
82.5	75.680	75.320	105.630	142.060	178.090	142.060	105.630	75.320	75.680	75.320
85.0	51.890	69.770	109.590	146.280	187.620	146.280	109.590	69.770	51.890	69.770
87.5	34.930	66.720	124.810	151.620	181.520	151.620	124.810	66.720	34.930	66.720
90.0	21.950	60.710	118.290	122.400	134.980	122.400	118.290	60.710	21.950	60.710
92.5	16.970	52.050	87.480	79.540	85.070	79.540	87.480	52.050	16.970	52.050
95.0	18.940	43.770	42.810	41.660	49.170	41.660	42.810	43.770	18.940	43.770
97.5	22.170	22.590	16.700	16.580	19.430	16.580	16.700	22.590	22.170	22.590
100.0	21.760	11.550	8.910	10.970	12.660	10.970	8.910	11.550	21.760	11.550
102.5	19.750	10.750	7.650	8.650	10.090	8.650	7.650	10.750	19.750	10.750
105.0	17.210	10.010	6.140	7.810	8.710	7.810	6.140	10.010	17.210	10.010
107.5	13.460	8.700	5.330	6.700	7.990	6.700	5.330	8.700	13.460	8.700
110.0	10.260	7.450	4.700	5.620	6.390	5.620	4.700	7.450	10.260	7.450
112.5	8.120	6.360	4.300	4.830	5.680	4.830	4.300	6.360	8.120	6.360
115.0	6.390	5.490	3.990	4.120	4.630	4.120	3.990	5.490	6.390	5.490
117.5	5.510	5.690	3.780	3.650	4.080	3.650	3.780	5.690	5.510	5.690
120.0	4.340	4.920	3.380	3.340	3.860	3.340	3.380	4.920	4.340	4.920
122.5	3.560	3.510	5.280	3.210	3.530	3.210	5.280	3.510	3.560	3.510
125.0	2.860	2.480	7.700	3.520	3.650	3.520	7.700	2.480	2.860	2.480
127.5	2.080	2.080	8.860	6.520	5.210	6.520	8.860	2.080	2.080	2.080
130.0	2.350	2.070	7.490	10.130	11.020	10.130	7.490	2.070	2.350	2.070
132.5	2.400	2.250	5.980	10.660	12.310	10.660	5.980	2.250	2.400	2.250

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CANDELA TABULATION - (Cont.)

135.0	2.570	2.350	4.760	11.150	11.030	11.150	4.760	2.350	2.570	2.350
137.5	2.720	2.730	4.150	8.820	14.330	8.820	4.150	2.730	2.720	2.730
140.0	2.770	2.890	3.740	6.800	10.070	6.800	3.740	2.890	2.770	2.890
142.5	2.990	3.380	3.890	6.020	7.490	6.020	3.890	3.380	2.990	3.380
145.0	3.600	3.640	4.220	5.620	6.110	5.620	4.220	3.640	3.600	3.640
147.5	3.790	4.140	4.230	5.290	5.910	5.290	4.230	4.140	3.790	4.140
150.0	4.130	4.130	4.670	5.320	5.410	5.320	4.670	4.130	4.130	4.130
152.5	4.690	4.830	5.100	5.350	5.480	5.350	5.100	4.830	4.690	4.830
155.0	5.160	5.390	5.420	5.770	5.950	5.770	5.420	5.390	5.160	5.390
157.5	5.510	5.760	5.520	5.860	6.230	5.860	5.520	5.760	5.510	5.760
160.0	6.340	6.310	6.430	6.300	6.590	6.300	6.430	6.310	6.340	6.310
162.5	6.640	6.940	6.650	6.870	7.150	6.870	6.650	6.940	6.640	6.940
165.0	7.240	6.930	7.030	7.130	7.630	7.130	7.030	6.930	7.240	6.930
167.5	7.410	7.160	7.430	7.510	7.920	7.510	7.430	7.160	7.410	7.160
170.0	7.510	7.620	7.580	7.880	8.070	7.880	7.580	7.620	7.510	7.620
172.5	8.210	8.100	7.970	8.350	8.520	8.350	7.970	8.100	8.210	8.100
175.0	8.400	8.460	8.620	8.580	8.950	8.580	8.620	8.460	8.400	8.460
177.5	8.810	8.930	8.380	8.790	9.140	8.790	8.380	8.930	8.810	8.930
180.0	8.690	8.690	8.690	8.690	8.690	8.690	8.690	8.690	8.690	8.690

Vert. Angles	**Horizontal Angles**						
	225.0	**247.5**	**270.0**	**292.5**	**315.0**	**337.5**	**360.0**
0.0	17913.43	17913.43	17913.43	17913.43	17913.43	17913.43	17913.439
2.5	17903.25	17824.00	17769.50	17824.00	17903.25	17896.55	117917.400
5.0	17763.19	17600.90	17520.60	17600.90	17763.19	17815.35	17878.600
7.5	17493.80	117231.05	117104.60	17231.05	117493.80	117688.10	17799.301
10.0	17131.60	16726.00	16519.15	16726.00	17131.60	17504.19	17656.750
12.5	16671.00	16046.65	15782.65	16046.65	16671.00	17223.55	117421.449
15.0	16057.60	15242.20	14919.00	15242.20	16057.60	16799.94	17048.551
17.5	15265.65	14278.75	13901.15	14278.75	15265.65	16205.45	16524.051
20.0	14278.75	13134.40	12695.95	13134.40	14278.75	15429.55	15820.150
22.5	13102.70	11820.25	11344.03	11820.25	13102.70	14456.40	14945.900
25.0	11748.55	10333.95	09821.640	10333.95	11748.55	13260.35	13830.350
27.5	10173.66	08706.510	8186.460	8706.510	10173.66	11733.75	12380.850
30.0	8255.940	6951.760	6497.590	6951.760	8255.940	9714.310	10299.500
32.5	6085.720	5120.020	4829.280	5120.020	6085.720	7237.190	7646.800
35.0	3943.120	3414.660	3326.090	3414.660	3943.120	4627.580	4919.880
37.5	2245.240	2041.150	2075.900	2041.150	2245.240	2483.160	2649.800
40.0	1173.810	1127.340	1201.060	1127.340	1173.810	1227.840	1414.600
42.5	683.440	662.850	689.650	662.850	683.440	697.950	876.290
45.0	506.170	487.520	491.830	487.520	506.170	517.440	746.460
47.5	440.880	425.020	429.350	425.020	440.880	463.510	721.440
50.0	398.440	382.570	381.640	382.570	398.440	431.230	685.950
52.5	365.070	348.260	348.460	348.260	365.070	401.070	643.770
55.0	340.350	315.170	325.100	315.170	340.350	375.270	598.550
57.5	314.300	290.790	312.800	290.790	314.300	347.130	524.650
60.0	283.360	268.740	285.550	268.740	283.360	310.860	455.250
62.5	246.940	256.140	285.720	256.140	246.940	273.580	383.650
65.0	210.960	243.560	278.870	243.560	210.960	242.180	292.400
67.5	188.990	229.610	248.090	229.610	188.990	210.850	225.950
70.0	174.310	213.750	225.590	213.750	174.310	181.230	200.790
72.5	163.800	194.320	230.310	194.320	163.800	151.850	241.670
75.0	153.630	168.030	170.690	168.030	153.630	124.260	210.910
77.5	144.030	146.240	179.560	146.240	144.030	102.170	135.870
80.0	124.360	130.480	181.700	130.480	124.360	84.640	102.110

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CANDELA TABULATION - (Cont.)

82.5	105.630	142.060	178.090	142.060	105.630	75.320	75.680
85.0	109.590	146.280	187.620	146.280	109.590	69.770	51.890
87.5	124.810	151.620	181.520	151.620	124.810	66.720	34.930
90.0	118.290	122.400	134.980	122.400	118.290	60.710	21.950
92.5	87.480	79.540	85.070	79.540	87.480	52.050	16.970
95.0	42.810	41.660	49.170	41.660	42.810	43.770	18.940
97.5	16.700	16.580	19.430	16.580	16.700	22.590	22.170
100.0	8.910	10.970	12.660	10.970	8.910	11.550	21.760
102.5	7.650	8.650	10.090	8.650	7.650	10.750	19.750
105.0	6.140	7.810	8.710	7.810	6.140	10.010	17.210
107.5	5.330	6.700	7.990	6.700	5.330	8.700	13.460
110.0	4.700	5.620	6.390	5.620	4.700	7.450	10.260
112.5	4.300	4.830	5.680	4.830	4.300	6.360	8.120
115.0	3.990	4.120	4.630	4.120	3.990	5.490	6.390
117.5	3.780	3.650	4.080	3.650	3.780	5.690	5.510
120.0	3.380	3.340	3.860	3.340	3.380	4.920	4.340
122.5	5.280	3.210	3.530	3.210	5.280	3.510	3.560
125.0	7.700	3.520	3.650	3.520	7.700	2.480	2.860
127.5	8.860	6.520	5.210	6.520	8.860	2.080	2.080
130.0	7.490	10.130	11.020	10.130	7.490	2.070	2.350
132.5	5.980	10.660	12.310	10.660	5.980	2.250	2.400
135.0	4.760	11.150	11.030	11.150	4.760	2.350	2.570
137.5	4.150	8.820	14.330	8.820	4.150	2.730	2.720
140.0	3.740	6.800	10.070	6.800	3.740	2.890	2.770
142.5	3.890	6.020	7.490	6.020	3.890	3.380	2.990
145.0	4.220	5.620	6.110	5.620	4.220	3.640	3.600
147.5	4.230	5.290	5.910	5.290	4.230	4.140	3.790
150.0	4.670	5.320	5.410	5.320	4.670	4.130	4.130
152.5	5.100	5.350	5.480	5.350	5.100	4.830	4.690
155.0	5.420	5.770	5.950	5.770	5.420	5.390	5.160
157.5	5.520	5.860	6.230	5.860	5.520	5.760	5.510
160.0	6.430	6.300	6.590	6.300	6.430	6.310	6.340
162.5	6.650	6.870	7.150	6.870	6.650	6.940	6.640
165.0	7.030	7.130	7.630	7.130	7.030	6.930	7.240
167.5	7.430	7.510	7.920	7.510	7.430	7.160	7.410
170.0	7.580	7.880	8.070	7.880	7.580	7.620	7.510
172.5	7.970	8.350	8.520	8.350	7.970	8.100	8.210
175.0	8.620	8.580	8.950	8.580	8.620	8.460	8.400
177.5	8.380	8.790	9.140	8.790	8.380	8.930	8.810
180.0	8.690	8.690	8.690	8.690	8.690	8.690	8.690

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6137.89	N.A.	39.60
0-30	11433.21	N.A.	73.80
0-40	14051.86	N.A.	90.70
0-60	14869.76	N.A.	96.00
0-80	15284.46	N.A.	98.70
0-90	15405.63	N.A.	99.50
10-90	13733.58	N.A.	88.70
20-40	7913.98	N.A.	51.10
20-50	8398.54	N.A.	54.20
40-70	1063.34	N.A.	6.90
60-80	414.69	N.A.	2.70
70-80	169.26	N.A.	1.10
80-90	121.18	N.A.	0.80
90-110	59.22	N.A.	0.40
90-120	64.22	N.A.	0.40
90-130	68.39	N.A.	0.40
90-150	76.11	N.A.	0.50
90-180	81.42	N.A.	0.50
110-180	22.19	N.A.	0.10
0-180	15487.05	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1672.06
10-20	4465.83
20-30	5295.32
30-40	2618.65
40-50	484.57
50-60	333.33
60-70	245.44
70-80	169.26
80-90	121.18
90-100	49.44
100-110	9.79
110-120	5.00
120-130	4.16
130-140	4.79
140-150	2.94
150-160	2.52
160-170	2.00
170-180	0.79

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

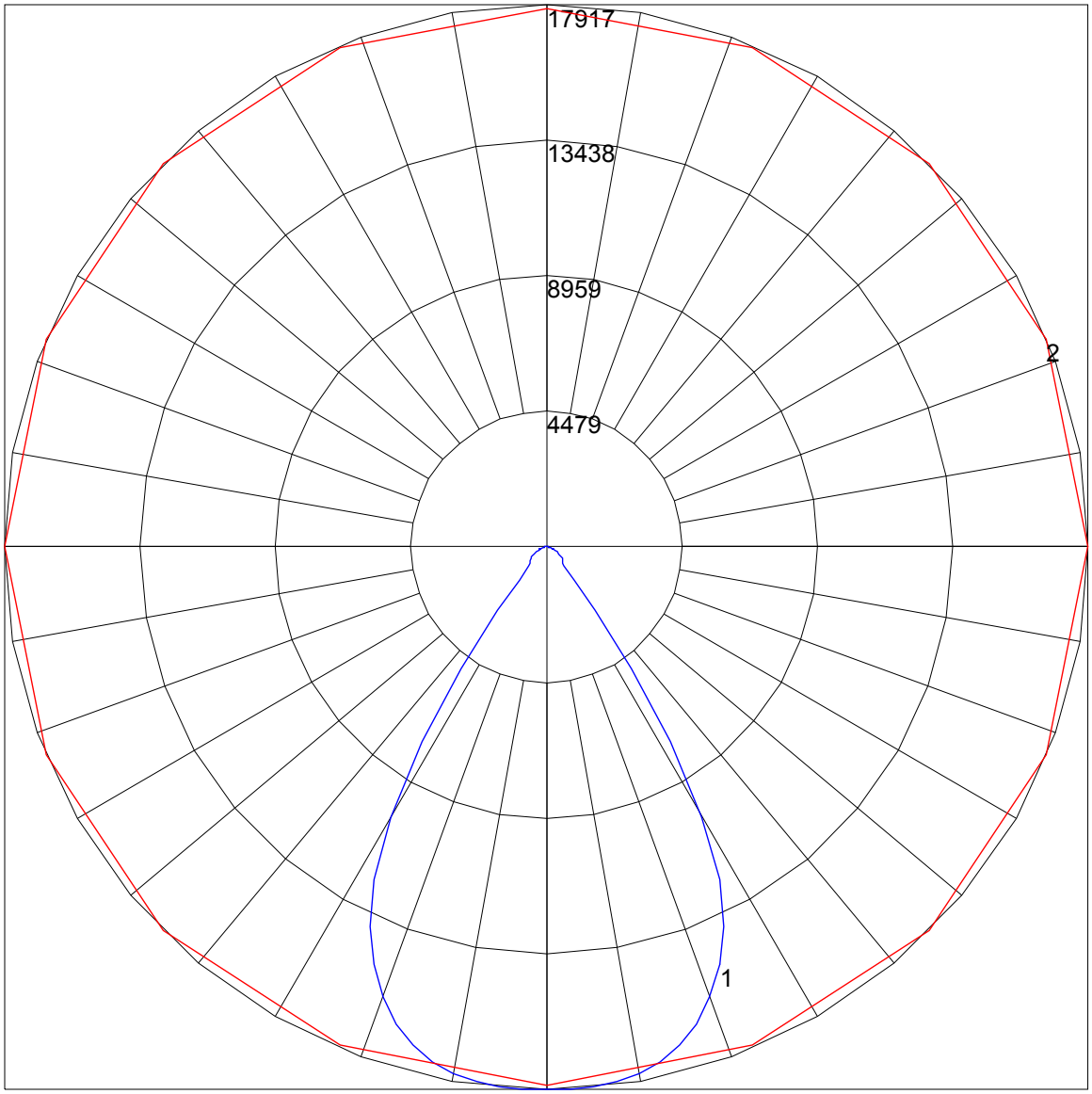
Effective Floor Cavity Reflectance 0.20

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	63	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

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Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX16LL40-UNV-N-LCP.IES

POLAR GRAPH



Maximum Candela = 17917.4 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

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