

PHILIPS**PHILIPS****Day-Brite****CFI****IES INDOOR REPORT****PHOTOMETRIC FILENAME : APX16LL40-UNV-M-LFP.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] FO33724.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/28/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX16LL40-UNV-M-LFP

[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K 2-95W DRIVERS 4.7KK RESISTORS MEDIUM OPTICS DP-FR50 LENS

[LAMP] LED. LUMINAIRE OUTPUT = 15565 LMS

[TESTDATE] 10/28/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15565
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	123.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.16
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	7843	7176	6706
55	4736	3875	3487
65	3117	2222	2031
75	2095	1370	1352
85	900	744	915

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX16LL40-UNV-M-LFP.IES

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	8696.05	8696.05	8696.05	8696.05	8696.05	8696.05	8696.05	8696.05	8696.05	8696.05
2.5	8659.79	8675.67	8697.20	8709.55	8708.72	8709.55	8697.20	8675.67	8659.79	8675.67
5.0	8640.41	8659.17	8690.37	8719.86	8711.75	8719.86	8690.37	8659.17	8640.41	8659.17
7.5	8601.99	8620.55	8675.63	8716.20	8714.60	8716.20	8675.63	8620.55	8601.99	8620.55
10.0	8532.85	8570.55	8640.58	8711.81	8702.17	8711.81	8640.58	8570.55	8532.85	8570.55
12.5	8430.63	8490.22	8591.24	8664.82	8665.40	8664.82	8591.24	8490.22	8430.63	8490.22
15.0	8278.19	8374.16	8501.45	8592.99	8592.40	8592.99	8501.45	8374.16	8278.19	8374.16
17.5	8074.90	8197.62	8364.04	8471.98	8477.29	8471.98	8364.04	8197.62	8074.90	8197.62
20.0	7810.02	7963.90	8171.91	8301.09	8303.90	8301.09	8171.91	7963.90	7810.02	7963.90
22.5	7480.02	7666.91	7912.38	8062.91	8062.49	8062.91	7912.38	7666.91	7480.02	7666.91
25.0	7086.28	7309.21	7586.15	7743.04	7736.61	7743.04	7586.15	7309.21	7086.28	7309.21
27.5	6624.93	6885.44	7188.30	7340.70	7323.76	7340.70	7188.30	6885.44	6624.93	6885.44
30.0	6131.17	6411.05	6722.85	6853.18	6829.16	6853.18	6722.85	6411.05	6131.17	6411.05
32.5	5598.53	5889.81	6197.94	6291.30	6267.84	6291.30	6197.94	5889.81	5598.53	5889.81
35.0	5036.87	5339.46	5626.53	5679.85	5655.44	5679.85	5626.53	5339.46	5036.87	5339.46
37.5	4469.91	4776.02	5020.93	5047.45	5016.18	5047.45	5020.93	4776.02	4469.91	4776.02
40.0	3916.89	4205.17	4421.50	4411.23	4369.50	4411.23	4421.50	4205.17	3916.89	4205.17
42.5	3386.77	3650.01	3835.73	3784.89	3739.09	3784.89	3835.73	3650.01	3386.77	3650.01
45.0	2890.27	3134.07	3279.07	3196.40	3158.85	3196.40	3279.07	3134.07	2890.27	3134.07
47.5	2448.14	2660.68	2770.89	2672.65	2641.26	2672.65	2770.89	2660.68	2448.14	2660.68
50.0	2069.92	2237.97	2316.42	2220.94	2190.35	2220.94	2316.42	2237.97	2069.92	2237.97
52.5	1749.68	1877.28	1932.14	1842.19	1813.57	1842.19	1932.14	1877.28	1749.68	1877.28
55.0	1479.04	1574.55	1607.35	1528.04	1503.45	1528.04	1607.35	1574.55	1479.04	1574.55
57.5	1252.54	1322.84	1341.31	1273.47	1251.71	1273.47	1341.31	1322.84	1252.54	1322.84
60.0	1063.57	1112.88	1124.70	1069.87	1054.54	1069.87	1124.70	1112.88	1063.57	1112.88
62.5	904.29	936.91	946.80	906.77	896.79	906.77	946.80	936.91	904.29	936.91
65.0	768.59	790.38	799.89	775.80	767.72	775.80	799.89	790.38	768.59	790.38
67.5	650.16	666.11	677.88	663.93	659.61	663.93	677.88	666.11	650.16	666.11
70.0	545.27	557.16	573.77	570.00	568.41	570.00	573.77	557.16	545.27	557.16
72.5	450.43	461.60	483.68	489.58	491.36	489.58	483.68	461.60	450.43	461.60
75.0	363.09	375.10	403.13	418.08	423.81	418.08	403.13	375.10	363.09	375.10
77.5	282.06	296.53	331.60	353.54	363.51	353.54	331.60	296.53	282.06	296.53
80.0	207.75	225.19	267.47	296.45	309.78	296.45	267.47	225.19	207.75	225.19
82.5	141.03	162.59	210.95	246.28	262.15	246.28	210.95	162.59	141.03	162.59
85.0	85.39	112.05	163.30	201.41	219.11	201.41	163.30	112.05	85.39	112.05
87.5	46.67	77.79	129.44	166.48	184.36	166.48	129.44	77.79	46.67	77.79
90.0	31.21	56.55	103.02	137.16	153.66	137.16	103.02	56.55	31.21	56.55
92.5	29.78	45.71	83.08	113.14	127.16	113.14	83.08	45.71	29.78	45.71
95.0	29.40	42.24	70.29	95.28	107.03	95.28	70.29	42.24	29.40	42.24
97.5	29.58	40.29	63.81	83.49	92.78	83.49	63.81	40.29	29.58	40.29
100.0	29.43	38.18	60.51	77.83	84.87	77.83	60.51	38.18	29.43	38.18
102.5	28.76	36.13	57.98	74.97	80.67	74.97	57.98	36.13	28.76	36.13
105.0	27.21	34.22	56.24	73.44	78.64	73.44	56.24	34.22	27.21	34.22
107.5	25.59	32.10	54.28	71.64	77.05	71.64	54.28	32.10	25.59	32.10
110.0	23.54	29.87	52.10	69.66	74.63	69.66	52.10	29.87	23.54	29.87
112.5	21.27	27.31	49.42	66.94	72.39	66.94	49.42	27.31	21.27	27.31
115.0	18.71	24.45	46.80	63.88	69.06	63.88	46.80	24.45	18.71	24.45
117.5	16.60	21.62	43.80	60.62	65.59	60.62	43.80	21.62	16.60	21.62
120.0	14.47	18.80	40.52	57.28	62.19	57.28	40.52	18.80	14.47	18.80
122.5	12.55	15.99	37.22	53.94	58.22	53.94	37.22	15.99	12.55	15.99
125.0	10.81	13.40	33.72	49.84	54.45	49.84	33.72	13.40	10.81	13.40
127.5	9.34	10.68	30.23	45.90	50.79	45.90	30.23	10.68	9.34	10.68
130.0	8.02	8.60	26.65	42.12	46.76	42.12	26.65	8.60	8.02	8.60
132.5	6.91	7.03	23.24	38.22	42.29	38.22	23.24	7.03	6.91	7.03

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX16LL40-UNV-M-LFP.IES

CANDELA TABULATION - (Cont.)

135.0	6.03	5.42	19.50	33.99	37.78	33.99	19.50	5.42	6.03	5.42
137.5	5.30	4.66	16.10	29.68	33.42	29.68	16.10	4.66	5.30	4.66
140.0	4.57	4.05	12.80	25.56	28.99	25.56	12.80	4.05	4.57	4.05
142.5	3.95	3.60	9.85	21.48	24.53	21.48	9.85	3.60	3.95	3.60
145.0	3.50	3.11	7.24	17.59	20.28	17.59	7.24	3.11	3.50	3.11
147.5	3.13	2.87	5.27	13.80	16.10	13.80	5.27	2.87	3.13	2.87
150.0	2.77	2.56	3.56	10.47	12.59	10.47	3.56	2.56	2.77	2.56
152.5	2.74	2.50	3.17	7.57	9.25	7.57	3.17	2.50	2.74	2.50
155.0	2.61	2.56	3.13	5.12	6.47	5.12	3.13	2.56	2.61	2.56
157.5	2.73	2.80	3.09	4.08	4.91	4.08	3.09	2.80	2.73	2.80
160.0	2.90	2.93	3.25	3.82	4.01	3.82	3.25	2.93	2.90	2.93
162.5	3.14	3.19	3.44	3.69	3.59	3.69	3.44	3.19	3.14	3.19
165.0	3.24	3.29	3.19	3.60	3.73	3.60	3.19	3.29	3.24	3.29
167.5	3.02	2.98	3.31	3.49	3.44	3.49	3.31	2.98	3.02	2.98
170.0	3.18	3.09	3.11	3.57	3.61	3.57	3.11	3.09	3.18	3.09
172.5	3.38	3.46	3.45	3.58	3.68	3.58	3.45	3.46	3.38	3.46
175.0	3.68	3.74	3.49	3.79	3.66	3.79	3.49	3.74	3.68	3.74
177.5	3.72	3.88	3.56	3.73	3.88	3.73	3.56	3.88	3.72	3.88
180.0	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.77

**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	8696.05	8696.05	8696.05	8696.05	8696.05	8696.05	8696.05
2.5	8697.20	8709.55	8708.72	8709.55	8697.20	8675.67	8659.79
5.0	8690.37	8719.86	8711.75	8719.86	8690.37	8659.17	8640.41
7.5	8675.63	8716.20	8714.60	8716.20	8675.63	8620.55	8601.99
10.0	8640.58	8711.81	8702.17	8711.81	8640.58	8570.55	8532.85
12.5	8591.24	8664.82	8665.40	8664.82	8591.24	8490.22	8430.63
15.0	8501.45	8592.99	8592.40	8592.99	8501.45	8374.16	8278.19
17.5	8364.04	8471.98	8477.29	8471.98	8364.04	8197.62	8074.90
20.0	8171.91	8301.09	8303.90	8301.09	8171.91	7963.90	7810.02
22.5	7912.38	8062.91	8062.49	8062.91	7912.38	7666.91	7480.02
25.0	7586.15	7743.04	7736.61	7743.04	7586.15	7309.21	7086.28
27.5	7188.30	7340.70	7323.76	7340.70	7188.30	6885.44	6624.93
30.0	6722.85	6853.18	6829.16	6853.18	6722.85	6411.05	6131.17
32.5	6197.94	6291.30	6267.84	6291.30	6197.94	5889.81	5598.53
35.0	5626.53	5679.85	5655.44	5679.85	5626.53	5339.46	5036.87
37.5	5020.93	5047.45	5016.18	5047.45	5020.93	4776.02	4469.91
40.0	4421.50	4411.23	4369.50	4411.23	4421.50	4205.17	3916.89
42.5	3835.73	3784.89	3739.09	3784.89	3835.73	3650.01	3386.77
45.0	3279.07	3196.40	3158.85	3196.40	3279.07	3134.07	2890.27
47.5	2770.89	2672.65	2641.26	2672.65	2770.89	2660.68	2448.14
50.0	2316.42	2220.94	2190.35	2220.94	2316.42	2237.97	2069.92
52.5	1932.14	1842.19	1813.57	1842.19	1932.14	1877.28	1749.68
55.0	1607.35	1528.04	1503.45	1528.04	1607.35	1574.55	1479.04
57.5	1341.31	1273.47	1251.71	1273.47	1341.31	1322.84	1252.54
60.0	1124.70	1069.87	1054.54	1069.87	1124.70	1112.88	1063.57
62.5	946.80	906.77	896.79	906.77	946.80	936.91	904.29
65.0	799.89	775.80	767.72	775.80	799.89	790.38	768.59
67.5	677.88	663.93	659.61	663.93	677.88	666.11	650.16
70.0	573.77	570.00	568.41	570.00	573.77	557.16	545.27
72.5	483.68	489.58	491.36	489.58	483.68	461.60	450.43
75.0	403.13	418.08	423.81	418.08	403.13	375.10	363.09
77.5	331.60	353.54	363.51	353.54	331.60	296.53	282.06
80.0	267.47	296.45	309.78	296.45	267.47	225.19	207.75

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX16LL40-UNV-M-LFP.IES

CANDELA TABULATION - (Cont.)

82.5	210.95	246.28	262.15	246.28	210.95	162.59	141.03
85.0	163.30	201.41	219.11	201.41	163.30	112.05	85.39
87.5	129.44	166.48	184.36	166.48	129.44	77.79	46.67
90.0	103.02	137.16	153.66	137.16	103.02	56.55	31.21
92.5	83.08	113.14	127.16	113.14	83.08	45.71	29.78
95.0	70.29	95.28	107.03	95.28	70.29	42.24	29.40
97.5	63.81	83.49	92.78	83.49	63.81	40.29	29.58
100.0	60.51	77.83	84.87	77.83	60.51	38.18	29.43
102.5	57.98	74.97	80.67	74.97	57.98	36.13	28.76
105.0	56.24	73.44	78.64	73.44	56.24	34.22	27.21
107.5	54.28	71.64	77.05	71.64	54.28	32.10	25.59
110.0	52.10	69.66	74.63	69.66	52.10	29.87	23.54
112.5	49.42	66.94	72.39	66.94	49.42	27.31	21.27
115.0	46.80	63.88	69.06	63.88	46.80	24.45	18.71
117.5	43.80	60.62	65.59	60.62	43.80	21.62	16.60
120.0	40.52	57.28	62.19	57.28	40.52	18.80	14.47
122.5	37.22	53.94	58.22	53.94	37.22	15.99	12.55
125.0	33.72	49.84	54.45	49.84	33.72	13.40	10.81
127.5	30.23	45.90	50.79	45.90	30.23	10.68	9.34
130.0	26.65	42.12	46.76	42.12	26.65	8.60	8.02
132.5	23.24	38.22	42.29	38.22	23.24	7.03	6.91
135.0	19.50	33.99	37.78	33.99	19.50	5.42	6.03
137.5	16.10	29.68	33.42	29.68	16.10	4.66	5.30
140.0	12.80	25.56	28.99	25.56	12.80	4.05	4.57
142.5	9.85	21.48	24.53	21.48	9.85	3.60	3.95
145.0	7.24	17.59	20.28	17.59	7.24	3.11	3.50
147.5	5.27	13.80	16.10	13.80	5.27	2.87	3.13
150.0	3.56	10.47	12.59	10.47	3.56	2.56	2.77
152.5	3.17	7.57	9.25	7.57	3.17	2.50	2.74
155.0	3.13	5.12	6.47	5.12	3.13	2.56	2.61
157.5	3.09	4.08	4.91	4.08	3.09	2.80	2.73
160.0	3.25	3.82	4.01	3.82	3.25	2.93	2.90
162.5	3.44	3.69	3.59	3.69	3.44	3.19	3.14
165.0	3.19	3.60	3.73	3.60	3.19	3.29	3.24
167.5	3.31	3.49	3.44	3.49	3.31	2.98	3.02
170.0	3.11	3.57	3.61	3.57	3.11	3.09	3.18
172.5	3.45	3.58	3.68	3.58	3.45	3.46	3.38
175.0	3.49	3.79	3.66	3.79	3.49	3.74	3.68
177.5	3.56	3.73	3.88	3.73	3.56	3.88	3.72
180.0	3.77	3.77	3.77	3.77	3.77	3.77	3.77

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX16LL40-UNV-M-LFP.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3212.45	N.A.	20.60
0-30	6644.21	N.A.	42.70
0-40	10059.54	N.A.	64.60
0-60	13931.76	N.A.	89.50
0-80	15148.04	N.A.	97.30
0-90	15329.08	N.A.	98.50
10-90	14501.56	N.A.	93.20
20-40	6847.09	N.A.	44.00
20-50	9301.4	N.A.	59.80
40-70	4663.01	N.A.	30.00
60-80	1216.28	N.A.	7.80
70-80	425.48	N.A.	2.70
80-90	181.04	N.A.	1.20
90-110	136.28	N.A.	0.90
90-120	180.68	N.A.	1.20
90-130	209.88	N.A.	1.30
90-150	232.25	N.A.	1.50
90-180	235.52	N.A.	1.50
110-180	99.23	N.A.	0.60
0-180	15564.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	827.52
10-20	2384.93
20-30	3431.76
30-40	3415.33
40-50	2454.31
50-60	1417.91
60-70	790.80
70-80	425.48
80-90	181.04
90-100	78.92
100-110	57.37
110-120	44.40
120-130	29.20
130-140	15.89
140-150	6.48
150-160	1.98
160-170	0.95
170-180	0.34

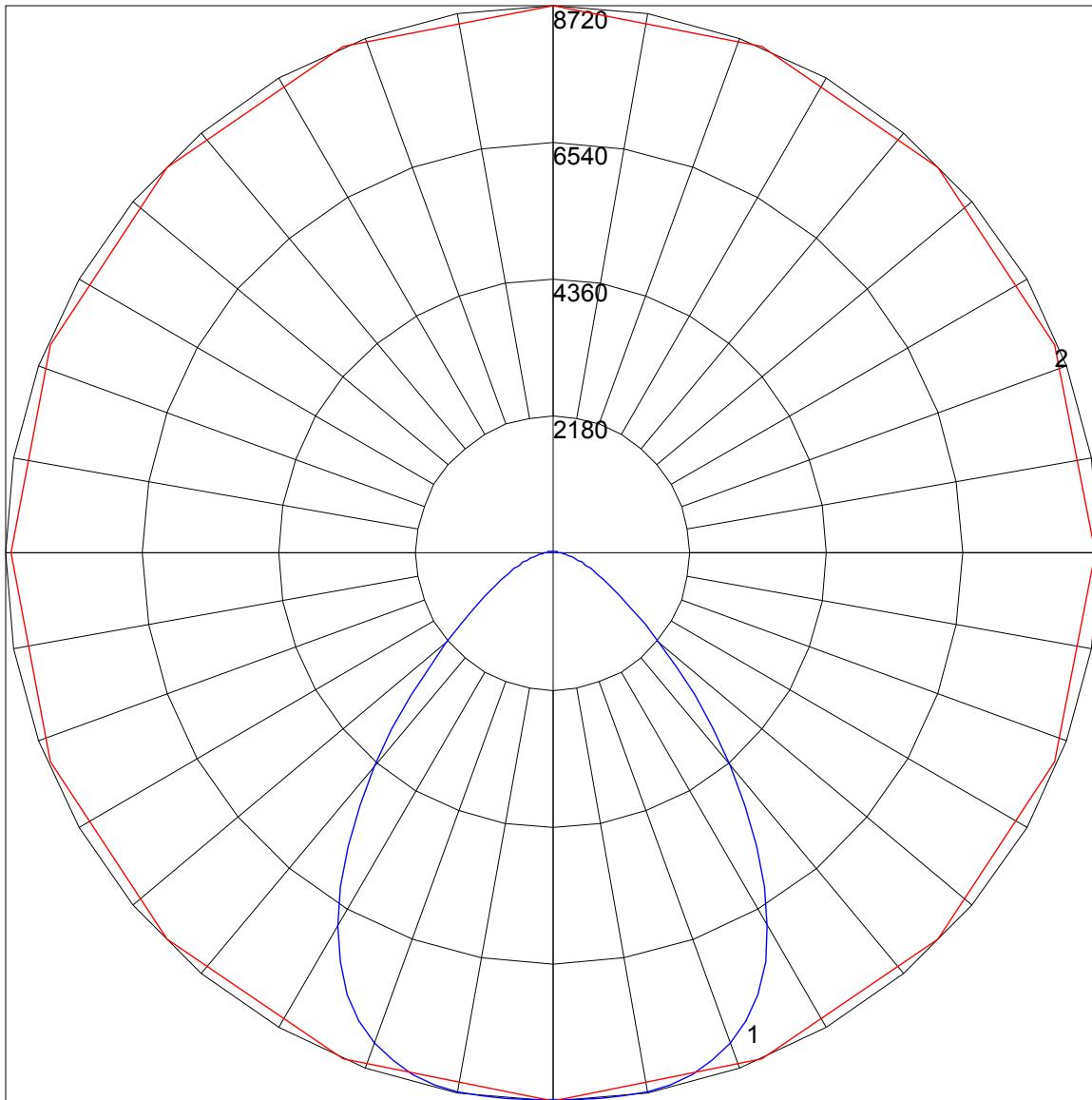
IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX16LL40-UNV-M-LFP.IES

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	98
1	111	107	103	100	108	104	101	99	100	97	95	96	94	92	92	91	89	87
2	103	96	91	86	100	94	89	85	90	86	83	87	84	81	84	81	79	77
3	95	87	80	75	93	85	79	74	82	77	73	79	75	71	77	73	70	68
4	89	79	71	66	87	77	71	65	75	69	64	72	67	63	70	66	62	60
5	83	72	64	59	81	71	64	58	68	62	57	66	61	57	65	60	56	54
6	77	66	58	53	75	65	58	52	63	57	52	61	56	51	60	55	51	49
7	72	60	53	48	71	60	52	47	58	52	47	57	51	47	55	50	46	44
8	68	56	48	43	66	55	48	43	54	47	43	53	47	42	51	46	42	40
9	64	52	45	40	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

POLAR GRAPH



Maximum Candela = 8719.86 Located At Horizontal Angle = 67.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)