PHILIPS PHILIPS

Day-Brite CFI

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO33705.PSO
[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUEDATE] 10/24/14
[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI
[LUMCAT] APX16LL40-UNV-N-LFA
[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K 2-95W DRIVERS 4.7K RESISTORS NARROW OPTICS DIRA-FR50 LENS
[LAMP] LED. LUMINAIRE OUTPUT = 14121 LMS
[TESTDATE] 10/24/14

CHARACTERISTICS



Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14121
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	123.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.94
Spacing Criterion (90-270)	0.92
Spacing Criterion (Diagonal)	0.98
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	7330	5764	5466
55	5446	4035	3851
65	4107	2853	2766
75	2845	1840	1889
85	1158	927	1177

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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	9257.80	9257.80	9257.80	9257.80	9257.80	9257.80	9257.80	9257.80	9257.80	9257.80
2.5	9221.65	9223.99	9230.39	9208.45	9189.43	9208.45	9230.39	9223.99	9221.65	9223.99
5.0	9122.94	9117.35	9122.00	9098.88	9073.05	9098.88	9122.00	9117.35	9122.94	9117.35
7.5	8958.59	8942.15	8936.20	8906.71	8881.35	8906.71	8936.20	8942.15	8958.59	8942.15
10.0	8723.85	8704.22	8681.79	8649.19	8611.99	8649.19	8681.79	8704.22	8723.85	8704.22
12.5	8424.04	8404.23	8367.63	8307.76	8280.41	8307.76	8367.63	8404.23	8424.04	8404.23
15.0	8073.61	8051.10	7992.03	7907.68	7880.65	7907.68	7992.03	8051.10	8073.61	8051.10
17.5	7677.19	7650.39	7567.28	7464.85	7435.73	7464.85	7567.28	7650.39	7677.19	7650.39
20.0	7232.98	7195.84	7098.95	6987.34	6959.35	6987.34	7098.95	7195.84	7232.98	7195.84
22.5	6751.80	6707.76	6600.78	6488.62	6459.69	6488.62	6600.78	6707.76	6751.80	6707.76
25.0	6255.33	6203.29	6086.35	5970.98	5945.10	5970.98	6086.35	6203.29	6255.33	6203.29
27.5	5751.26	5692.57	5575.34	5455.36	5438.57	5455.36	5575.34	5692.57	5751.26	5692.57
30.0	5232.50	5176.93	5069.28	4952.55	4934.93	4952.55	5069.28	5176.93	5232.50	5176.93
32.5	4726.40	4677.65	4578.48	4471.45	4456.78	4471.45	4578.48	4677.65	4726.40	4677.65
35.0	4247.70	4204.37	4106.95	4015.34	4008.74	4015.34	4106.95	4204.37	4247.70	4204.37
37.5	3807.14	3761.06	3674.03	3601.21	3597.24	3601.21	3674.03	3761.06	3807.14	3761.06
40.0	3401.20	3356.44	3287.25	3226.47	3221.60	3226.47	3287.25	3356.44	3401.20	3356.44
42.5	3031.04	2996.06	2943.57	2889.15	2880.71	2889.15	2943.57	2996.06	3031.04	2996.06
45.0	2700.99	2676.20	2633.75	2585.44	2574.95	2585.44	2633.75	2676.20	2700.99	2676.20
47.5	2409.49	2385.61	2355.77	2312.89	2306.45	2312.89	2355.77	2385.61	2409.49	2385.61
50.0	2149.07	2125.28	2103.22	2072.48	2069.37	2072.48	2103.22	2125.28	2149.07	2125.28
52.5	1914.01	1895.95	1877.28	1857.39	1855.10	1857.39	1877.28	1895.95	1914.01	1895.95
55.0	1700.74	1688.78	1673.61	1662.03	1660.03	1662.03	1673.61	1688.78	1700.74	1688.78
57.5	1507.08	1498.97	1491.31	1483.37	1483.74	1483.37	1491.31	1498.97	1507.08	1498.97
60.0	1329.53	1326.93	1324.81	1322.90	1325.71	1322.90	1324.81	1326.93	1329.53	1326.93
62.5	1165.39	1167.96	1172.08	1176.35	1181.76	1176.35	1172.08	1167.96	1165.39	1167.96
65.0	1012.49	1019.57	1026.76	1041.17	1045.68	1041.17	1026.76	1019.57	1012.49	1019.57
67.5	870.56	879.02	891.89	911.09	918.29	911.09	891.89	879.02	870.56	879.02
70.0	738.00	747.68	767.12	791.28	800.10	791.28	767.12	747.68	738.00	747.68
72.5	612.47	626.51	650.62	681.64	691.91	681.64	650.62	626.51	612.47	626.51
75.0	493.22	511.29	541.32	579.56	592.04	579.56	541.32	511.29	493.22	511.29
77.5	381.03	402.26	439.21	483.84	499.34	483.84	439.21	402.26	381.03	402.26
80.0	277.84	301.66	347.28	397.21	415.05	397.21	347.28	301.66	277.84	301.66
82.5	185.86	213.62	267.78	323.48	342.96	323.48	267.78	213.62	185.86	213.62
85.0	109.82	142.48	203.56	261.04	281.70	261.04	203.56	142.48	109.82	142.48
87.5	58.09	96.08	158.80	214.64	235.08	214.64	158.80	96.08	58.09	96.08
90.0	38.97	68.87	124.40	176.62	196.27	176.62	124.40	68.87	38.97	68.87
92.5	36.83	57.12	101.26	146.10	163.92	146.10	101.26	57.12	36.83	57.12
95.0	35.63	53.41	87.47	124.58	140.40	124.58	87.47	53.41	35.63	53.41
97.5	34.42	49.71	80.87	111.25	124.42	111.25	80.87	49.71	34.42	49.71
100.0	32.46	46.03	75.99	103.48	114.35	103.48	75.99	46.03	32.46	46.03
102.5	30.46	42.71	71.49	97.70	108.01	97.70	71.49	42.71	30.46	42.71
105.0	28.28	38.84	67.34	93.19	102.85	93.19	67.34	38.84	28.28	38.84
107.5	26.06	35.45	62.93	87.94	97.92	87.94	62.93	35.45	26.06	35.45
110.0	23.74	32.12	58.77	83.05	92.72	83.05	58.77	32.12	23.74	32.12
112.5	21.58	28.14	53.71	77.69	87.16	77.69	53.71	28.14	21.58	28.14
115.0	19.20	24.63	49.69	72.49	81.67	72.49	49.69	24.63	19.20	24.63
117.5	16.88	21.16	45.11	67.17	76.12	67.17	45.11	21.16	16.88	21.16
120.0	14.91	17.89	40.86	62.14	71.02	62.14	40.86	17.89	14.91	17.89
122.5	13.13	14.75	36.64	56.96	65.11	56.96	36.64	14.75	13.13	14.75
125.0	11.36	12.08	32.22	51.35	59.48	51.35	32.22	12.08	11.36	12.08
127.5	9.85	9.34	27.97	46.77	54.65	46.77	27.97	9.34	9.85	9.34
130.0	8.48	7.85	24.02	41.85	49.12	41.85	24.02	7.85	8.48	7.85
132.5	7.17	6.37	20.17	37.20	43.42	37.20	20.17	6.37	7.17	6.37

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CANDELA TABULATION - (Cont.)

135.0	6.48	5.50	16.27	32.38	38.23	32.38	16.27	5.50	6.48	5.50
137.5	5.44	4.81	12.82	27.94	33.23	27.94	12.82	4.81	5.44	4.81
140.0	4.50	4.11	9.77	23.40	27.99	23.40	9.77	4.11	4.50	4.11
142.5	3.93	3.40	7.43	18.99	23.54	18.99	7.43	3.40	3.93	3.40
145.0	3.16	3.14	5.35	15.23	18.98	15.23	5.35	3.14	3.16	3.14
147.5	2.76	2.56	4.06	11.59	14.92	11.59	4.06	2.56	2.76	2.56
150.0	2.31	2.48	3.30	8.71	11.34	8.71	3.30	2.48	2.31	2.48
152.5	2.17	2.66	3.33	6.11	8.31	6.11	3.33	2.66	2.17	2.66
155.0	2.51	2.61	3.31	4.71	5.87	4.71	3.31	2.61	2.51	2.61
157.5	2.67	2.78	3.27	3.90	4.93	3.90	3.27	2.78	2.67	2.78
160.0	2.61	3.19	3.14	3.87	3.90	3.87	3.14	3.19	2.61	3.19
162.5	2.80	3.18	3.34	3.78	3.76	3.78	3.34	3.18	2.80	3.18
165.0	3.07	3.25	3.49	3.77	3.65	3.77	3.49	3.25	3.07	3.25
167.5	2.93	2.92	3.21	3.63	3.57	3.63	3.21	2.92	2.93	2.92
170.0	3.10	3.08	3.29	3.67	3.41	3.67	3.29	3.08	3.10	3.08
172.5	3.44	3.26	3.30	3.49	3.66	3.49	3.30	3.26	3.44	3.26
175.0	3.32	3.76	3.55	3.80	3.64	3.80	3.55	3.76	3.32	3.76
177.5	3.58	3.99	3.57	3.65	3.83	3.65	3.57	3.99	3.58	3.99
180.0	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50

Vert. Angles	**Horizontal Angles**						
	225.0	**247.5**	**270.0**	**292.5**	**315.0**	**337.5**	**360.0**
0.0	9257.80	9257.80	9257.80	9257.80	9257.80	9257.80	9257.80
2.5	9230.39	9208.45	9189.43	9208.45	9230.39	9223.99	9221.65
5.0	9122.00	9098.88	9073.05	9098.88	9122.00	9117.35	9122.94
7.5	8936.20	8906.71	8881.35	8906.71	8936.20	8942.15	8958.59
10.0	8681.79	8649.19	8611.99	8649.19	8681.79	8704.22	8723.85
12.5	8367.63	8307.76	8280.41	8307.76	8367.63	8404.23	8424.04
15.0	7992.03	7907.68	7880.65	7907.68	7992.03	8051.10	8073.61
17.5	7567.28	7464.85	7435.73	7464.85	7567.28	7650.39	7677.19
20.0	7098.95	6987.34	6959.35	6987.34	7098.95	7195.84	7232.98
22.5	6600.78	6488.62	6459.69	6488.62	6600.78	6707.76	6751.80
25.0	6086.35	5970.98	5945.10	5970.98	6086.35	6203.29	6255.33
27.5	5575.34	5455.36	5438.57	5455.36	5575.34	5692.57	5751.26
30.0	5069.28	4952.55	4934.93	4952.55	5069.28	5176.93	5232.50
32.5	4578.48	4471.45	4456.78	4471.45	4578.48	4677.65	4726.40
35.0	4106.95	4015.34	4008.74	4015.34	4106.95	4204.37	4247.70
37.5	3674.03	3601.21	3597.24	3601.21	3674.03	3761.06	3807.14
40.0	3287.25	3226.47	3221.60	3226.47	3287.25	3356.44	3401.20
42.5	2943.57	2889.15	2880.71	2889.15	2943.57	2996.06	3031.04
45.0	2633.75	2585.44	2574.95	2585.44	2633.75	2676.20	2700.99
47.5	2355.77	2312.89	2306.45	2312.89	2355.77	2385.61	2409.49
50.0	2103.22	2072.48	2069.37	2072.48	2103.22	2125.28	2149.07
52.5	1877.28	1857.39	1855.10	1857.39	1877.28	1895.95	1914.01
55.0	1673.61	1662.03	1660.03	1662.03	1673.61	1688.78	1700.74
57.5	1491.31	1483.37	1483.74	1483.37	1491.31	1498.97	1507.08
60.0	1324.81	1322.90	1325.71	1322.90	1324.81	1326.93	1329.53
62.5	1172.08	1176.35	1181.76	1176.35	1172.08	1167.96	1165.39
65.0	1026.76	1041.17	1045.68	1041.17	1026.76	1019.57	1012.49
67.5	891.89	911.09	918.29	911.09	891.89	879.02	870.56
70.0	767.12	791.28	800.10	791.28	767.12	747.68	738.00
72.5	650.62	681.64	691.91	681.64	650.62	626.51	612.47
75.0	541.32	579.56	592.04	579.56	541.32	511.29	493.22
77.5	439.21	483.84	499.34	483.84	439.21	402.26	381.03
80.0	347.28	397.21	415.05	397.21	347.28	301.66	277.84

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CANDELA TABULATION - (Cont.)

82.5	267.78	323.48	342.96	323.48	267.78	213.62	185.86
85.0	203.56	261.04	281.70	261.04	203.56	142.48	109.82
87.5	158.80	214.64	235.08	214.64	158.80	96.08	58.09
90.0	124.40	176.62	196.27	176.62	124.40	68.87	38.97
92.5	101.26	146.10	163.92	146.10	101.26	57.12	36.83
95.0	87.47	124.58	140.40	124.58	87.47	53.41	35.63
97.5	80.87	111.25	124.42	111.25	80.87	49.71	34.42
100.0	75.99	103.48	114.35	103.48	75.99	46.03	32.46
102.5	71.49	97.70	108.01	97.70	71.49	42.71	30.46
105.0	67.34	93.19	102.85	93.19	67.34	38.84	28.28
107.5	62.93	87.94	97.92	87.94	62.93	35.45	26.06
110.0	58.77	83.05	92.72	83.05	58.77	32.12	23.74
112.5	53.71	77.69	87.16	77.69	53.71	28.14	21.58
115.0	49.69	72.49	81.67	72.49	49.69	24.63	19.20
117.5	45.11	67.17	76.12	67.17	45.11	21.16	16.88
120.0	40.86	62.14	71.02	62.14	40.86	17.89	14.91
122.5	36.64	56.96	65.11	56.96	36.64	14.75	13.13
125.0	32.22	51.35	59.48	51.35	32.22	12.08	11.36
127.5	27.97	46.77	54.65	46.77	27.97	9.34	9.85
130.0	24.02	41.85	49.12	41.85	24.02	7.85	8.48
132.5	20.17	37.20	43.42	37.20	20.17	6.37	7.17
135.0	16.27	32.38	38.23	32.38	16.27	5.50	6.48
137.5	12.82	27.94	33.23	27.94	12.82	4.81	5.44
140.0	9.77	23.40	27.99	23.40	9.77	4.11	4.50
142.5	7.43	18.99	23.54	18.99	7.43	3.40	3.93
145.0	5.35	15.23	18.98	15.23	5.35	3.14	3.16
147.5	4.06	11.59	14.92	11.59	4.06	2.56	2.76
150.0	3.30	8.71	11.34	8.71	3.30	2.48	2.31
152.5	3.33	6.11	8.31	6.11	3.33	2.66	2.17
155.0	3.31	4.71	5.87	4.71	3.31	2.61	2.51
157.5	3.27	3.90	4.93	3.90	3.27	2.78	2.67
160.0	3.14	3.87	3.90	3.87	3.14	3.19	2.61
162.5	3.34	3.78	3.76	3.78	3.34	3.18	2.80
165.0	3.49	3.77	3.65	3.77	3.49	3.25	3.07
167.5	3.21	3.63	3.57	3.63	3.21	2.92	2.93
170.0	3.29	3.67	3.41	3.67	3.29	3.08	3.10
172.5	3.30	3.49	3.66	3.49	3.30	3.26	3.44
175.0	3.55	3.80	3.64	3.80	3.55	3.76	3.32
177.5	3.57	3.65	3.83	3.65	3.57	3.99	3.58
180.0	3.50	3.50	3.50	3.50	3.50	3.50	3.50

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3085.26	N.A.	21.80
0-30	5875.8	N.A.	41.60
0-40	8454.91	N.A.	59.90
0-60	12010.55	N.A.	85.10
0-80	13614.35	N.A.	96.40
0-90	13847.82	N.A.	98.10
10-90	12992.15	N.A.	92.00
20-40	5369.65	N.A.	38.00
20-50	7415.45	N.A.	52.50
40-70	4580.21	N.A.	32.40
60-80	1603.8	N.A.	11.40
70-80	579.23	N.A.	4.10
80-90	233.48	N.A.	1.70
90-110	170.63	N.A.	1.20
90-120	219.70	N.A.	1.60
90-130	249.44	N.A.	1.80
90-150	270.20	N.A.	1.90
90-180	273.35	N.A.	1.90
110-180	102.72	N.A.	0.70
0-180	14121.17	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	855.67
10-20	2229.59
20-30	2790.54
30-40	2579.11
40-50	2045.8
50-60	1509.84
60-70	1024.56
70-80	579.23
80-90	233.48
90-100	100.49
100-110	70.15
110-120	49.06
120-130	29.74
130-140	15.06
140-150	5.71
150-160	1.86
160-170	0.96
170-180	0.33

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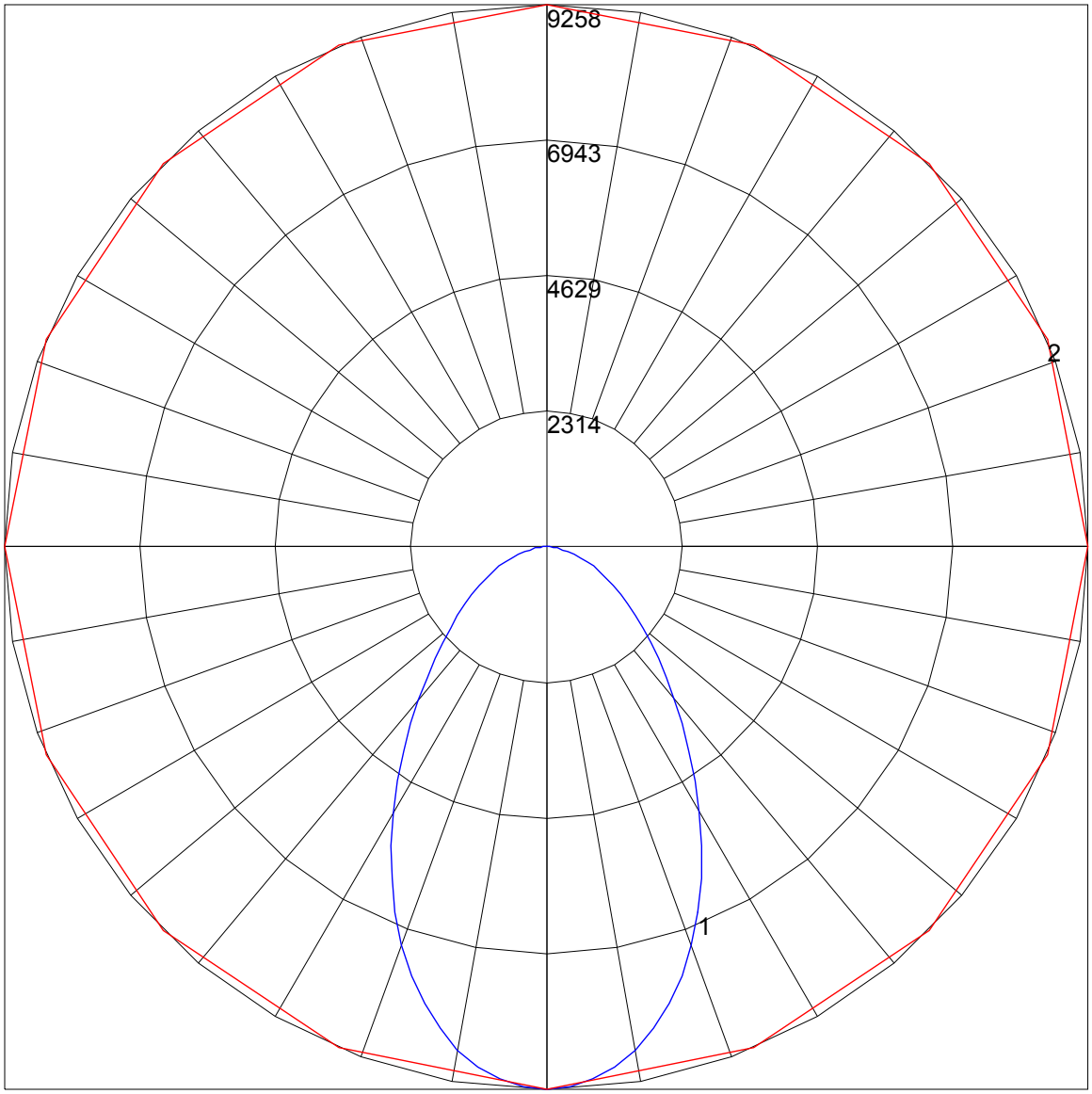
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	100	100	98
1	110	106	102	99	107	103	100	97	99	96	94	95	92	90	91	89	87	85
2	102	94	89	84	99	92	87	83	89	84	80	85	82	78	82	79	76	74
3	94	85	78	72	92	83	77	72	80	75	70	77	73	69	75	71	67	65
4	87	77	69	63	85	75	68	63	73	67	62	70	65	61	68	64	60	58
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52
6	76	64	56	51	74	63	56	50	61	55	50	59	54	49	58	53	49	47
7	71	59	51	46	69	58	51	46	57	50	45	55	49	45	54	48	44	42
8	67	55	47	42	65	54	47	42	52	46	41	51	45	41	50	45	41	39
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33

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

POLAR GRAPH



Maximum Candela = 9257.8 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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Results derived from content of manufacturers photometric file.