

PHILIPS

PHILIPS

Day-Brite

CFI

IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX16LL40-UNV-W-LFA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO33729.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/28/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX16LL40-UNV-W-LFA

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

[LAMP] LED. LUMINAIRE OUTPUT = 13624 LMS

[TESTDATE] 10/28/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13624
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	123
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.40
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	7883	6713	6649
55	6758	5492	5523
65	5485	4211	4451
75	3944	2915	3226
85	1707	1611	2065

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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	4488.82	4488.82	4488.82	4488.82	4488.82	4488.82	4488.82	4488.82	4488.82	4488.82
2.5	4479.49	4485.26	4493.34	4490.69	4482.48	4490.69	4493.34	4485.26	4479.49	4485.26
5.0	4475.53	4479.99	4490.46	4490.32	4480.43	4490.32	4490.46	4479.99	4475.53	4479.99
7.5	4467.46	4471.50	4483.23	4486.74	4476.81	4486.74	4483.23	4471.50	4467.46	4471.50
10.0	4452.49	4459.10	4470.87	4480.07	4467.71	4480.07	4470.87	4459.10	4452.49	4459.10
12.5	4430.00	4441.02	4455.47	4460.80	4451.45	4460.80	4455.47	4441.02	4430.00	4441.02
15.0	4398.34	4414.52	4429.88	4434.57	4424.01	4434.57	4429.88	4414.52	4398.34	4414.52
17.5	4355.48	4376.00	4392.97	4398.66	4388.90	4398.66	4392.97	4376.00	4355.48	4376.00
20.0	4299.80	4323.47	4343.32	4352.55	4343.57	4352.55	4343.32	4323.47	4299.80	4323.47
22.5	4229.94	4255.80	4280.20	4296.97	4288.27	4296.97	4280.20	4255.80	4229.94	4255.80
25.0	4142.91	4173.43	4205.46	4226.66	4217.87	4226.66	4205.46	4173.43	4142.91	4173.43
27.5	4038.81	4074.39	4114.77	4141.60	4131.33	4141.60	4114.77	4074.39	4038.81	4074.39
30.0	3918.64	3956.95	4008.97	4040.82	4030.94	4040.82	4008.97	3956.95	3918.64	3956.95
32.5	3781.65	3824.52	3886.05	3920.87	3916.20	3920.87	3886.05	3824.52	3781.65	3824.52
35.0	3627.39	3676.52	3744.75	3787.97	3789.99	3787.97	3744.75	3676.52	3627.39	3676.52
37.5	3461.53	3514.45	3586.24	3642.34	3648.41	3642.34	3586.24	3514.45	3461.53	3514.45
40.0	3286.49	3339.79	3422.24	3484.33	3487.47	3484.33	3422.24	3339.79	3286.49	3339.79
42.5	3100.64	3158.06	3249.34	3313.87	3313.06	3313.87	3249.34	3158.06	3100.64	3158.06
45.0	2904.97	2972.14	3067.69	3127.37	3132.10	3127.37	3067.69	2972.14	2904.97	2972.14
47.5	2707.23	2776.78	2875.54	2933.51	2948.07	2933.51	2875.54	2776.78	2707.23	2776.78
50.0	2507.99	2576.55	2676.64	2741.47	2758.92	2741.47	2676.64	2576.55	2507.99	2576.55
52.5	2309.32	2377.18	2476.31	2549.51	2569.17	2549.51	2476.31	2377.18	2309.32	2377.18
55.0	2110.34	2179.72	2278.04	2354.64	2380.81	2354.64	2278.04	2179.72	2110.34	2179.72
57.5	1914.91	1984.02	2081.00	2163.32	2198.17	2163.32	2081.00	1984.02	1914.91	1984.02
60.0	1723.37	1791.61	1887.54	1979.63	2024.31	1979.63	1887.54	1791.61	1723.37	1791.61
62.5	1534.89	1600.99	1699.58	1807.43	1853.75	1807.43	1699.58	1600.99	1534.89	1600.99
65.0	1352.37	1416.58	1515.65	1635.33	1682.65	1635.33	1515.65	1416.58	1352.37	1416.58
67.5	1176.68	1239.18	1339.67	1460.55	1506.63	1460.55	1339.67	1239.18	1176.68	1239.18
70.0	1006.65	1067.38	1172.70	1288.62	1333.49	1288.62	1172.70	1067.38	1006.65	1067.38
72.5	841.75	903.05	1012.58	1125.36	1168.62	1125.36	1012.58	903.05	841.75	903.05
75.0	683.76	745.32	857.49	968.80	1011.17	968.80	857.49	745.32	683.76	745.32
77.5	532.44	596.23	710.96	820.17	862.39	820.17	710.96	596.23	532.44	596.23
80.0	391.97	457.04	575.99	684.83	724.48	684.83	575.99	457.04	391.97	457.04
82.5	265.89	333.10	455.83	564.58	601.29	564.58	455.83	333.10	265.89	333.10
85.0	161.97	231.26	353.72	457.19	494.35	457.19	353.72	231.26	161.97	231.26
87.5	89.94	162.61	280.40	376.77	410.54	376.77	280.40	162.61	89.94	162.61
90.0	62.10	120.28	224.57	312.58	342.82	312.58	224.57	120.28	62.10	120.28
92.5	59.06	100.36	184.32	261.77	288.71	261.77	184.32	100.36	59.06	100.36
95.0	57.12	93.26	158.99	223.95	247.40	223.95	158.99	93.26	57.12	93.26
97.5	55.07	87.67	145.69	198.65	218.86	198.65	145.69	87.67	55.07	87.67
100.0	52.70	81.82	137.02	183.20	200.13	183.20	137.02	81.82	52.70	81.82
102.5	49.92	76.06	129.04	172.37	187.27	172.37	129.04	76.06	49.92	76.06
105.0	47.01	70.63	122.13	163.82	177.95	163.82	122.13	70.63	47.01	70.63
107.5	44.27	65.36	115.21	155.42	169.74	155.42	115.21	65.36	44.27	65.36
110.0	41.41	60.08	108.44	147.39	161.37	147.39	108.44	60.08	41.41	60.08
112.5	38.37	54.61	101.52	139.27	153.21	139.27	101.52	54.61	38.37	54.61
115.0	35.27	48.98	94.48	130.89	144.54	130.89	94.48	48.98	35.27	48.98
117.5	32.30	43.46	87.54	122.73	135.95	122.73	87.54	43.46	32.30	43.46
120.0	29.40	37.98	80.55	115.14	128.02	115.14	80.55	37.98	29.40	37.98
122.5	26.47	32.59	73.75	107.39	119.20	107.39	73.75	32.59	26.47	32.59
125.0	23.53	27.48	66.72	98.86	110.55	98.86	66.72	27.48	23.53	27.48
127.5	20.73	22.31	59.44	91.13	102.96	91.13	59.44	22.31	20.73	22.31
130.0	18.21	17.72	52.27	83.77	94.64	83.77	52.27	17.72	18.21	17.72
132.5	15.87	14.12	45.00	75.80	85.88	75.80	45.00	14.12	15.87	14.12

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135.0	13.66	11.53	37.56	67.64	77.20	67.64	37.56	11.53	13.66	11.53
137.5	11.58	9.70	30.46	59.40	68.34	59.40	30.46	9.70	11.58	9.70
140.0	9.59	7.95	23.71	51.19	59.42	51.19	23.71	7.95	9.59	7.95
142.5	7.72	6.36	17.59	42.63	50.47	42.63	17.59	6.36	7.72	6.36
145.0	6.05	4.98	12.21	34.43	41.63	34.43	12.21	4.98	6.05	4.98
147.5	4.59	3.83	7.55	26.54	32.82	26.54	7.55	3.83	4.59	3.83
150.0	3.41	3.05	3.78	18.99	24.49	18.99	3.78	3.05	3.41	3.05
152.5	2.60	2.78	3.29	12.06	16.68	12.06	3.29	2.78	2.60	2.78
155.0	2.51	2.74	3.11	6.13	9.72	6.13	3.11	2.74	2.51	2.74
157.5	2.49	2.69	2.96	3.54	5.71	3.54	2.96	2.69	2.49	2.69
160.0	2.50	2.63	2.79	3.22	3.37	3.22	2.79	2.63	2.50	2.63
162.5	2.49	2.60	2.68	2.94	3.04	2.94	2.68	2.60	2.49	2.60
165.0	2.50	2.52	2.56	2.71	2.72	2.71	2.56	2.52	2.50	2.52
167.5	2.39	2.40	2.42	2.52	2.49	2.52	2.42	2.40	2.39	2.40
170.0	2.36	2.32	2.33	2.33	2.27	2.33	2.33	2.32	2.36	2.32
172.5	2.46	2.40	2.31	2.27	2.23	2.27	2.31	2.40	2.46	2.40
175.0	2.54	2.46	2.33	2.25	2.20	2.25	2.33	2.46	2.54	2.46
177.5	2.59	2.51	2.27	2.17	2.15	2.17	2.27	2.51	2.59	2.51
180.0	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31

**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	4488.82	4488.82	4488.82	4488.82	4488.82	4488.82	4488.82
2.5	4493.34	4490.69	4482.48	4490.69	4493.34	4485.26	4479.49
5.0	4490.46	4490.32	4480.43	4490.32	4490.46	4479.99	4475.53
7.5	4483.23	4486.74	4476.81	4486.74	4483.23	4471.50	4467.46
10.0	4470.87	4480.07	4467.71	4480.07	4470.87	4459.10	4452.49
12.5	4455.47	4460.80	4451.45	4460.80	4455.47	4441.02	4430.00
15.0	4429.88	4434.57	4424.01	4434.57	4429.88	4414.52	4398.34
17.5	4392.97	4398.66	4388.90	4398.66	4392.97	4376.00	4355.48
20.0	4343.32	4352.55	4343.57	4352.55	4343.32	4323.47	4299.80
22.5	4280.20	4296.97	4288.27	4296.97	4280.20	4255.80	4229.94
25.0	4205.46	4226.66	4217.87	4226.66	4205.46	4173.43	4142.91
27.5	4114.77	4141.60	4131.33	4141.60	4114.77	4074.39	4038.81
30.0	4008.97	4040.82	4030.94	4040.82	4008.97	3956.95	3918.64
32.5	3886.05	3920.87	3916.20	3920.87	3886.05	3824.52	3781.65
35.0	3744.75	3787.97	3789.99	3787.97	3744.75	3676.52	3627.39
37.5	3586.24	3642.34	3648.41	3642.34	3586.24	3514.45	3461.53
40.0	3422.24	3484.33	3487.47	3484.33	3422.24	3339.79	3286.49
42.5	3249.34	3313.87	3313.06	3313.87	3249.34	3158.06	3100.64
45.0	3067.69	3127.37	3132.10	3127.37	3067.69	2972.14	2904.97
47.5	2875.54	2933.51	2948.07	2933.51	2875.54	2776.78	2707.23
50.0	2676.64	2741.47	2758.92	2741.47	2676.64	2576.55	2507.99
52.5	2476.31	2549.51	2569.17	2549.51	2476.31	2377.18	2309.32
55.0	2278.04	2354.64	2380.81	2354.64	2278.04	2179.72	2110.34
57.5	2081.00	2163.32	2198.17	2163.32	2081.00	1984.02	1914.91
60.0	1887.54	1979.63	2024.31	1979.63	1887.54	1791.61	1723.37
62.5	1699.58	1807.43	1853.75	1807.43	1699.58	1600.99	1534.89
65.0	1515.65	1635.33	1682.65	1635.33	1515.65	1416.58	1352.37
67.5	1339.67	1460.55	1506.63	1460.55	1339.67	1239.18	1176.68
70.0	1172.70	1288.62	1333.49	1288.62	1172.70	1067.38	1006.65
72.5	1012.58	1125.36	1168.62	1125.36	1012.58	903.05	841.75
75.0	857.49	968.80	1011.17	968.80	857.49	745.32	683.76
77.5	710.96	820.17	862.39	820.17	710.96	596.23	532.44
80.0	575.99	684.83	724.48	684.83	575.99	457.04	391.97

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CANDELA TABULATION - (Cont.)

82.5	455.83	564.58	601.29	564.58	455.83	333.10	265.89
85.0	353.72	457.19	494.35	457.19	353.72	231.26	161.97
87.5	280.40	376.77	410.54	376.77	280.40	162.61	89.94
90.0	224.57	312.58	342.82	312.58	224.57	120.28	62.10
92.5	184.32	261.77	288.71	261.77	184.32	100.36	59.06
95.0	158.99	223.95	247.40	223.95	158.99	93.26	57.12
97.5	145.69	198.65	218.86	198.65	145.69	87.67	55.07
100.0	137.02	183.20	200.13	183.20	137.02	81.82	52.70
102.5	129.04	172.37	187.27	172.37	129.04	76.06	49.92
105.0	122.13	163.82	177.95	163.82	122.13	70.63	47.01
107.5	115.21	155.42	169.74	155.42	115.21	65.36	44.27
110.0	108.44	147.39	161.37	147.39	108.44	60.08	41.41
112.5	101.52	139.27	153.21	139.27	101.52	54.61	38.37
115.0	94.48	130.89	144.54	130.89	94.48	48.98	35.27
117.5	87.54	122.73	135.95	122.73	87.54	43.46	32.30
120.0	80.55	115.14	128.02	115.14	80.55	37.98	29.40
122.5	73.75	107.39	119.20	107.39	73.75	32.59	26.47
125.0	66.72	98.86	110.55	98.86	66.72	27.48	23.53
127.5	59.44	91.13	102.96	91.13	59.44	22.31	20.73
130.0	52.27	83.77	94.64	83.77	52.27	17.72	18.21
132.5	45.00	75.80	85.88	75.80	45.00	14.12	15.87
135.0	37.56	67.64	77.20	67.64	37.56	11.53	13.66
137.5	30.46	59.40	68.34	59.40	30.46	9.70	11.58
140.0	23.71	51.19	59.42	51.19	23.71	7.95	9.59
142.5	17.59	42.63	50.47	42.63	17.59	6.36	7.72
145.0	12.21	34.43	41.63	34.43	12.21	4.98	6.05
147.5	7.55	26.54	32.82	26.54	7.55	3.83	4.59
150.0	3.78	18.99	24.49	18.99	3.78	3.05	3.41
152.5	3.29	12.06	16.68	12.06	3.29	2.78	2.60
155.0	3.11	6.13	9.72	6.13	3.11	2.74	2.51
157.5	2.96	3.54	5.71	3.54	2.96	2.69	2.49
160.0	2.79	3.22	3.37	3.22	2.79	2.63	2.50
162.5	2.68	2.94	3.04	2.94	2.68	2.60	2.49
165.0	2.56	2.71	2.72	2.71	2.56	2.52	2.50
167.5	2.42	2.52	2.49	2.52	2.42	2.40	2.39
170.0	2.33	2.33	2.27	2.33	2.33	2.32	2.36
172.5	2.31	2.27	2.23	2.27	2.31	2.40	2.46
175.0	2.33	2.25	2.20	2.25	2.33	2.46	2.54
177.5	2.27	2.17	2.15	2.17	2.27	2.51	2.59
180.0	2.31	2.31	2.31	2.31	2.31	2.31	2.31

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1677.06	N.A.	12.30
0-30	3609.41	N.A.	26.50
0-40	5938.47	N.A.	43.60
0-60	10312.55	N.A.	75.70
0-80	12729.43	N.A.	93.40
0-90	13124.15	N.A.	96.30
10-90	12696.6	N.A.	93.20
20-40	4261.42	N.A.	31.30
20-50	6608.65	N.A.	48.50
40-70	5882.35	N.A.	43.20
60-80	2416.88	N.A.	17.70
70-80	908.60	N.A.	6.70
80-90	394.72	N.A.	2.90
90-110	302.69	N.A.	2.20
90-120	393.32	N.A.	2.90
90-130	452.00	N.A.	3.30
90-150	496.03	N.A.	3.60
90-180	499.55	N.A.	3.70
110-180	196.86	N.A.	1.40
0-180	13623.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	427.55
10-20	1249.5
20-30	1932.36
30-40	2329.06
40-50	2347.23
50-60	2026.85
60-70	1508.28
70-80	908.60
80-90	394.72
90-100	178.21
100-110	124.48
110-120	90.63
120-130	58.69
130-140	31.77
140-150	12.26
150-160	2.55
160-170	0.75
170-180	0.22

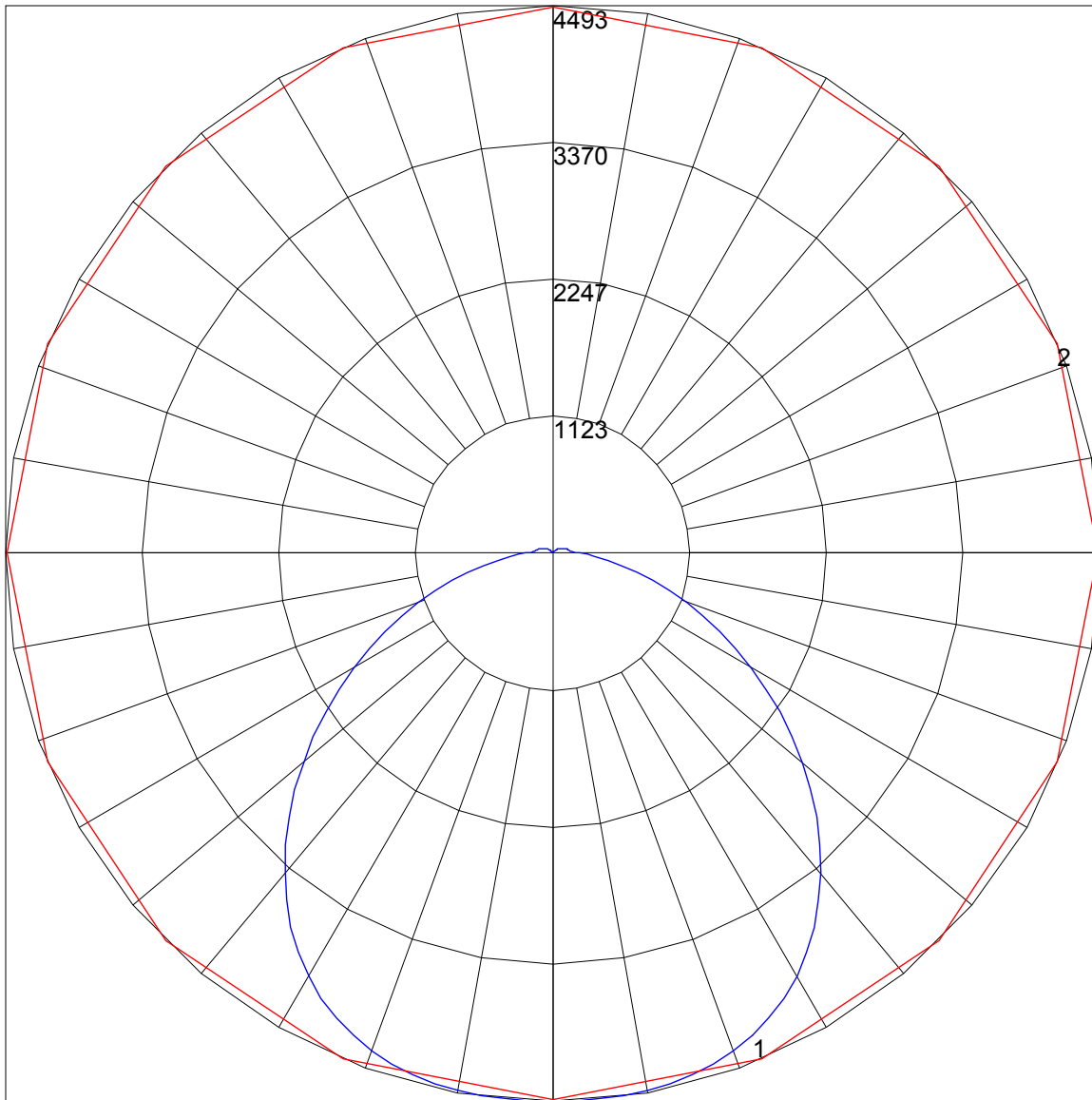
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	108	103	98	94	104	100	96	92	95	92	89	91	88	85	86	84	82	80
2	98	89	83	77	95	87	81	76	83	78	73	79	75	71	76	72	69	67
3	89	79	70	64	86	77	69	63	73	67	61	70	65	60	67	62	58	56
4	82	70	61	54	79	68	60	54	65	58	52	62	56	51	60	55	50	48
5	75	62	53	47	73	61	53	46	58	51	45	56	50	45	54	48	44	42
6	69	56	47	41	67	55	47	40	53	45	40	51	44	39	49	43	38	36
7	64	51	42	36	62	50	42	36	48	41	35	46	40	35	45	39	34	32
8	60	46	38	32	58	46	37	32	44	37	31	42	36	31	41	35	31	29
9	56	43	34	29	54	42	34	29	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 4493.34 Located At Horizontal Angle = 45, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)