

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

IESNA:LM-63-2002

[TEST] FO33707.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/27/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX16LL40-UNV-N-LFP

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

[LAMP] LED. LUMINAIRE OUTPUT = 15660 LMS

[TESTDATE] 10/27/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15660
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	123.1
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	6082	4180	3648
55	3419	2210	1981
65	2361	1468	1400
75	1689	1041	1090
85	843	662	838

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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	15285.37	15285.37	15285.37	15285.37	15285.37	15285.37	15285.37	15285.37	15285.37	15285.37
2.5	15251.45	15240.40	15248.20	15197.10	15150.05	15197.10	15248.20	15240.40	15251.45	15240.40
5.0	15120.50	15086.00	15064.70	14975.35	14909.60	14975.35	15064.70	15086.00	15120.50	15086.00
7.5	14897.85	14831.00	14738.30	14604.95	14521.95	14604.95	14738.30	14831.00	14897.85	14831.00
10.0	14556.65	14472.80	14289.55	14079.90	13965.95	14079.90	14289.55	14472.80	14556.65	14472.80
12.5	14103.90	13997.85	13711.95	13403.90	13266.00	13403.90	13711.95	13997.85	14103.90	13997.85
15.0	13527.70	13393.60	12998.20	12593.45	12419.00	12593.45	12998.20	13393.60	13527.70	13393.60
17.5	12816.80	12659.20	12155.55	11656.70	11463.20	11656.70	12155.55	12659.20	12816.80	12659.20
20.0	11964.05	11781.85	11185.20	10633.12	10426.12	10633.12	11185.20	11781.85	11964.05	11781.85
22.5	10984.30	10770.30	10107.90	9531.76	9317.14	9531.76	10107.90	10770.30	10984.30	10770.30
25.0	9895.05	9664.55	8965.92	8393.77	8173.18	8393.77	8965.92	9664.55	9895.05	9664.55
27.5	8725.19	8490.67	7809.12	7238.35	7022.77	7238.35	7809.12	8490.67	8725.19	8490.67
30.0	7517.36	7300.09	6666.12	6134.33	5943.45	6134.33	6666.12	7300.09	7517.36	7300.09
32.5	6340.65	6141.65	5557.56	5106.60	4947.78	5106.60	5557.56	6141.65	6340.65	6141.65
35.0	5245.48	5052.98	4548.63	4161.23	4047.32	4161.23	4548.63	5052.98	5245.48	5052.98
37.5	4271.51	4087.86	3674.30	3366.52	3278.26	3366.52	3674.30	4087.86	4271.51	4087.86
40.0	3442.49	3282.96	2951.77	2704.11	2638.18	2704.11	2951.77	3282.96	3442.49	3282.96
42.5	2771.11	2638.69	2368.09	2174.64	2124.53	2174.64	2368.09	2638.69	2771.11	2638.69
45.0	2241.19	2126.14	1909.93	1759.63	1718.70	1759.63	1909.93	2126.14	2241.19	2126.14
47.5	1829.85	1723.43	1560.02	1434.95	1406.70	1434.95	1560.02	1723.43	1829.85	1723.43
50.0	1510.99	1417.70	1288.53	1193.44	1172.79	1193.44	1288.53	1417.70	1510.99	1417.70
52.5	1263.12	1184.70	1079.56	1006.43	992.76	1006.43	1079.56	1184.70	1263.12	1184.70
55.0	1067.76	1002.40	916.52	862.95	853.83	862.95	916.52	1002.40	1067.76	1002.40
57.5	911.14	857.06	789.99	751.00	745.39	751.00	789.99	857.06	911.14	857.06
60.0	783.36	739.16	687.85	661.26	660.27	661.26	687.85	739.16	783.36	739.16
62.5	675.65	640.25	602.23	588.26	590.56	588.26	602.23	640.25	675.65	640.25
65.0	582.06	554.57	528.46	524.19	529.26	524.19	528.46	554.57	582.06	554.57
67.5	498.65	478.49	464.20	467.26	475.15	467.26	464.20	478.49	498.65	478.49
70.0	424.19	410.20	407.23	416.34	426.37	416.34	407.23	410.20	424.19	410.20
72.5	356.53	348.70	355.04	369.77	382.28	369.77	355.04	348.70	356.53	348.70
75.0	292.73	290.48	306.11	327.06	341.78	327.06	306.11	290.48	292.73	290.48
77.5	232.07	235.12	260.28	285.66	303.08	285.66	260.28	235.12	232.07	235.12
80.0	175.37	183.84	217.34	247.58	267.02	247.58	217.34	183.84	175.37	183.84
82.5	123.82	138.30	178.47	213.10	233.27	213.10	178.47	138.30	123.82	138.30
85.0	79.97	100.02	145.38	180.53	200.55	180.53	145.38	100.02	79.97	100.02
87.5	48.68	73.07	120.35	153.98	172.10	153.98	120.35	73.07	48.68	73.07
90.0	34.83	55.93	98.73	129.11	145.61	129.11	98.73	55.93	34.83	55.93
92.5	31.76	46.52	81.28	107.24	121.40	107.24	81.28	46.52	31.76	46.52
95.0	30.30	41.84	68.81	89.83	101.44	89.83	68.81	41.84	30.30	41.84
97.5	29.07	37.89	60.43	77.38	86.50	77.38	60.43	37.89	29.07	37.89
100.0	27.62	34.26	54.37	69.12	76.40	69.12	54.37	34.26	27.62	34.26
102.5	25.83	30.88	49.66	64.05	70.04	64.05	49.66	30.88	25.83	30.88
105.0	23.70	27.92	46.02	60.55	66.08	60.55	46.02	27.92	23.70	27.92
107.5	21.46	24.98	42.82	57.66	63.37	57.66	42.82	24.98	21.46	24.98
110.0	19.10	22.19	39.82	54.80	60.74	54.80	39.82	22.19	19.10	22.19
112.5	16.55	19.21	36.84	52.10	58.00	52.10	36.84	19.21	16.55	19.21
115.0	14.08	16.24	33.76	48.86	54.95	48.86	33.76	16.24	14.08	16.24
117.5	11.81	13.45	30.85	45.67	51.83	45.67	30.85	13.45	11.81	13.45
120.0	9.82	10.96	27.80	42.74	48.80	42.74	27.80	10.96	9.82	10.96
122.5	8.21	8.62	24.81	39.37	45.20	39.37	24.81	8.62	8.21	8.62
125.0	6.67	6.77	21.86	35.69	41.52	35.69	21.86	6.77	6.67	6.77
127.5	5.43	5.17	18.87	32.29	38.27	32.29	18.87	5.17	5.43	5.17
130.0	4.65	3.97	16.14	29.32	34.97	29.32	16.14	3.97	4.65	3.97
132.5	4.01	3.62	13.69	25.91	31.21	25.91	13.69	3.62	4.01	3.62

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CANDELA TABULATION - (Cont.)

135.0	3.55	3.27	11.25	22.84	27.72	22.84	11.25	3.27	3.55	3.27
137.5	3.15	2.89	8.92	19.78	24.25	19.78	8.92	2.89	3.15	2.89
140.0	2.78	2.82	7.15	16.83	20.84	16.83	7.15	2.82	2.78	2.82
142.5	2.65	2.70	5.52	13.93	17.63	13.93	5.52	2.70	2.65	2.70
145.0	2.54	2.66	4.24	11.52	14.76	11.52	4.24	2.66	2.54	2.66
147.5	2.44	2.50	3.48	9.26	11.79	9.26	3.48	2.50	2.44	2.50
150.0	2.58	2.51	3.15	7.25	9.57	7.25	3.15	2.51	2.58	2.51
152.5	2.58	2.66	3.04	5.77	7.51	5.77	3.04	2.66	2.58	2.66
155.0	2.68	2.97	3.27	4.58	6.04	4.58	3.27	2.97	2.68	2.97
157.5	2.93	3.24	3.49	4.12	5.24	4.12	3.49	3.24	2.93	3.24
160.0	3.46	3.70	3.71	4.05	4.59	4.05	3.71	3.70	3.46	3.70
162.5	3.79	3.92	4.11	4.23	4.67	4.23	4.11	3.92	3.79	3.92
165.0	4.08	4.35	4.20	4.40	4.75	4.40	4.20	4.35	4.08	4.35
167.5	4.15	4.38	4.31	4.67	4.85	4.67	4.31	4.38	4.15	4.38
170.0	4.22	4.48	4.49	4.85	5.05	4.85	4.49	4.48	4.22	4.48
172.5	4.75	4.74	4.85	5.16	5.38	5.16	4.85	4.74	4.75	4.74
175.0	5.07	5.37	5.21	5.33	5.45	5.33	5.21	5.37	5.07	5.37
177.5	5.40	5.53	5.06	5.38	5.72	5.38	5.06	5.53	5.40	5.53
180.0	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31

**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	15285.37	15285.37	15285.37	15285.37	15285.37	15285.37	15285.37
2.5	15248.20	15197.10	15150.05	15197.10	15248.20	15240.40	15251.45
5.0	15064.70	14975.35	14909.60	14975.35	15064.70	15086.00	15120.50
7.5	14738.30	14604.95	14521.95	14604.95	14738.30	14831.00	14897.85
10.0	14289.55	14079.90	13965.95	14079.90	14289.55	14472.80	14556.65
12.5	13711.95	13403.90	13266.00	13403.90	13711.95	13997.85	14103.90
15.0	12998.20	12593.45	12419.00	12593.45	12998.20	13393.60	13527.70
17.5	12155.55	11656.70	11463.20	11656.70	12155.55	12659.20	12816.80
20.0	11185.20	10633.12	10426.12	10633.12	11185.20	11781.85	11964.05
22.5	10107.90	9531.76	9317.14	9531.76	10107.90	10770.30	10984.30
25.0	8965.92	8393.77	8173.18	8393.77	8965.92	9664.55	9895.05
27.5	7809.12	7238.35	7022.77	7238.35	7809.12	8490.67	8725.19
30.0	6666.12	6134.33	5943.45	6134.33	6666.12	7300.09	7517.36
32.5	5557.56	5106.60	4947.78	5106.60	5557.56	6141.65	6340.65
35.0	4548.63	4161.23	4047.32	4161.23	4548.63	5052.98	5245.48
37.5	3674.30	3366.52	3278.26	3366.52	3674.30	4087.86	4271.51
40.0	2951.77	2704.11	2638.18	2704.11	2951.77	3282.96	3442.49
42.5	2368.09	2174.64	2124.53	2174.64	2368.09	2638.69	2771.11
45.0	1909.93	1759.63	1718.70	1759.63	1909.93	2126.14	2241.19
47.5	1560.02	1434.95	1406.70	1434.95	1560.02	1723.43	1829.85
50.0	1288.53	1193.44	1172.79	1193.44	1288.53	1417.70	1510.99
52.5	1079.56	1006.43	992.76	1006.43	1079.56	1184.70	1263.12
55.0	916.52	862.95	853.83	862.95	916.52	1002.40	1067.76
57.5	789.99	751.00	745.39	751.00	789.99	857.06	911.14
60.0	687.85	661.26	660.27	661.26	687.85	739.16	783.36
62.5	602.23	588.26	590.56	588.26	602.23	640.25	675.65
65.0	528.46	524.19	529.26	524.19	528.46	554.57	582.06
67.5	464.20	467.26	475.15	467.26	464.20	478.49	498.65
70.0	407.23	416.34	426.37	416.34	407.23	410.20	424.19
72.5	355.04	369.77	382.28	369.77	355.04	348.70	356.53
75.0	306.11	327.06	341.78	327.06	306.11	290.48	292.73
77.5	260.28	285.66	303.08	285.66	260.28	235.12	232.07
80.0	217.34	247.58	267.02	247.58	217.34	183.84	175.37

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CANDELA TABULATION - (Cont.)

82.5	178.47	213.10	233.27	213.10	178.47	138.30	123.82
85.0	145.38	180.53	200.55	180.53	145.38	100.02	79.97
87.5	120.35	153.98	172.10	153.98	120.35	73.07	48.68
90.0	98.73	129.11	145.61	129.11	98.73	55.93	34.83
92.5	81.28	107.24	121.40	107.24	81.28	46.52	31.76
95.0	68.81	89.83	101.44	89.83	68.81	41.84	30.30
97.5	60.43	77.38	86.50	77.38	60.43	37.89	29.07
100.0	54.37	69.12	76.40	69.12	54.37	34.26	27.62
102.5	49.66	64.05	70.04	64.05	49.66	30.88	25.83
105.0	46.02	60.55	66.08	60.55	46.02	27.92	23.70
107.5	42.82	57.66	63.37	57.66	42.82	24.98	21.46
110.0	39.82	54.80	60.74	54.80	39.82	22.19	19.10
112.5	36.84	52.10	58.00	52.10	36.84	19.21	16.55
115.0	33.76	48.86	54.95	48.86	33.76	16.24	14.08
117.5	30.85	45.67	51.83	45.67	30.85	13.45	11.81
120.0	27.80	42.74	48.80	42.74	27.80	10.96	9.82
122.5	24.81	39.37	45.20	39.37	24.81	8.62	8.21
125.0	21.86	35.69	41.52	35.69	21.86	6.77	6.67
127.5	18.87	32.29	38.27	32.29	18.87	5.17	5.43
130.0	16.14	29.32	34.97	29.32	16.14	3.97	4.65
132.5	13.69	25.91	31.21	25.91	13.69	3.62	4.01
135.0	11.25	22.84	27.72	22.84	11.25	3.27	3.55
137.5	8.92	19.78	24.25	19.78	8.92	2.89	3.15
140.0	7.15	16.83	20.84	16.83	7.15	2.82	2.78
142.5	5.52	13.93	17.63	13.93	5.52	2.70	2.65
145.0	4.24	11.52	14.76	11.52	4.24	2.66	2.54
147.5	3.48	9.26	11.79	9.26	3.48	2.50	2.44
150.0	3.15	7.25	9.57	7.25	3.15	2.51	2.58
152.5	3.04	5.77	7.51	5.77	3.04	2.66	2.58
155.0	3.27	4.58	6.04	4.58	3.27	2.97	2.68
157.5	3.49	4.12	5.24	4.12	3.49	3.24	2.93
160.0	3.71	4.05	4.59	4.05	3.71	3.70	3.46
162.5	4.11	4.23	4.67	4.23	4.11	3.92	3.79
165.0	4.20	4.40	4.75	4.40	4.20	4.35	4.08
167.5	4.31	4.67	4.85	4.67	4.31	4.38	4.15
170.0	4.49	4.85	5.05	4.85	4.49	4.48	4.22
172.5	4.85	5.16	5.38	5.16	4.85	4.74	4.75
175.0	5.21	5.33	5.45	5.33	5.21	5.37	5.07
177.5	5.06	5.38	5.72	5.38	5.06	5.53	5.40
180.0	5.31	5.31	5.31	5.31	5.31	5.31	5.31

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5021.88	N.A.	32.10
0-30	9121.9	N.A.	58.20
0-40	12027.4	N.A.	76.80
0-60	14433.65	N.A.	92.20
0-80	15304.81	N.A.	97.70
0-90	15465.19	N.A.	98.80
10-90	14054.09	N.A.	89.70
20-40	7005.51	N.A.	44.70
20-50	8553.76	N.A.	54.60
40-70	2947.78	N.A.	18.80
60-80	871.16	N.A.	5.60
70-80	329.63	N.A.	2.10
80-90	160.38	N.A.	1.00
90-110	123.14	N.A.	0.80
90-120	156.37	N.A.	1.00
90-130	176.43	N.A.	1.10
90-150	191.22	N.A.	1.20
90-180	194.76	N.A.	1.20
110-180	71.62	N.A.	0.50
0-180	15659.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1411.1
10-20	3610.78
20-30	4100.02
30-40	2905.5
40-50	1548.25
50-60	858.00
60-70	541.53
70-80	329.63
80-90	160.38
90-100	75.29
100-110	47.86
110-120	33.22
120-130	20.06
130-140	10.39
140-150	4.40
150-160	1.86
160-170	1.21
170-180	0.48

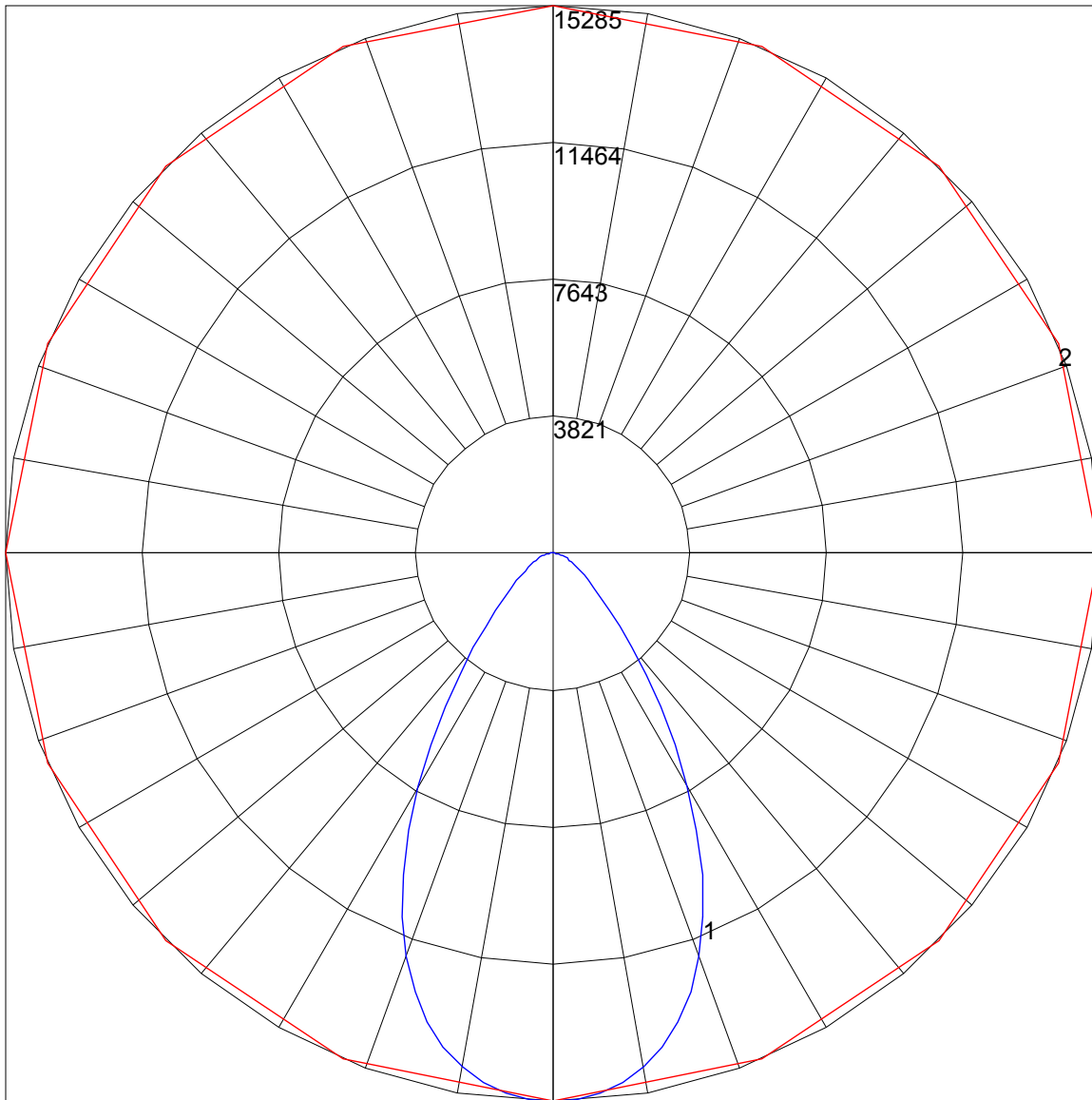
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	99	97	98	96	94	94	93	91	89
2	105	99	94	90	102	97	93	89	94	90	87	90	87	85	87	85	83	81
3	99	91	85	80	96	89	84	79	86	82	78	84	80	77	81	78	75	73
4	93	84	77	72	91	83	77	72	80	75	71	78	73	70	76	72	69	67
5	87	78	71	66	85	77	70	66	75	69	65	73	68	64	71	67	63	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	66	62	59	57
7	78	67	61	56	76	67	60	56	65	59	55	64	59	55	62	58	54	53
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	45	43

POLAR GRAPH



Maximum Candela = 15285.37 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.)