

PHILIPS

PHILIPS

Day-Brite

CFI

IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX16LL40-UNV-A-LFP.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO33748.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/30/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX16LL40-UNV-A-LFP

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

[LAMP] LED. LUMINAIRE OUTPUT = 15548 LMS

[TESTDATE] 10/30/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15548
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)	1.16
Spacing Criterion (90-270)	1.94
Spacing Criterion (Diagonal)	1.66
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	5124	8802	11163
55	3831	7066	9373
65	2929	4960	7993
75	2155	3166	5326
85	1064	1643	2695

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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	4003.16	4003.16	4003.16	4003.16	4003.16	4003.16	4003.16	4003.16	4003.16	4003.16
2.5	3981.05	3987.88	4008.32	4030.57	4047.07	4030.57	4008.32	3987.88	3981.05	3987.88
5.0	3965.79	3984.27	4033.03	4084.00	4105.34	4084.00	4033.03	3984.27	3965.79	3984.27
7.5	3940.24	3977.40	4071.72	4163.12	4198.35	4163.12	4071.72	3977.40	3940.24	3977.40
10.0	3901.57	3968.08	4122.32	4274.36	4320.60	4274.36	4122.32	3968.08	3901.57	3968.08
12.5	3850.72	3955.18	4186.32	4399.86	4466.70	4399.86	4186.32	3955.18	3850.72	3955.18
15.0	3785.86	3937.51	4255.95	4543.31	4628.11	4543.31	4255.95	3937.51	3785.86	3937.51
17.5	3707.63	3910.69	4328.75	4694.44	4801.25	4694.44	4328.75	3910.69	3707.63	3910.69
20.0	3614.24	3871.12	4399.17	4847.90	4977.62	4847.90	4399.17	3871.12	3614.24	3871.12
22.5	3503.10	3819.20	4462.51	5003.53	5152.47	5003.53	4462.51	3819.20	3503.10	3819.20
25.0	3375.52	3754.18	4517.91	5146.03	5312.80	5146.03	4517.91	3754.18	3375.52	3754.18
27.5	3230.97	3674.27	4559.57	5269.36	5452.26	5269.36	4559.57	3674.27	3230.97	3674.27
30.0	3069.87	3576.32	4582.45	5367.80	5563.86	5367.80	4582.45	3576.32	3069.87	3576.32
32.5	2890.90	3457.89	4577.41	5426.82	5643.67	5426.82	4577.41	3457.89	2890.90	3457.89
35.0	2700.14	3319.53	4537.67	5448.67	5684.21	5448.67	4537.67	3319.53	2700.14	3319.53
37.5	2502.35	3161.82	4460.88	5432.40	5671.86	5432.40	4460.88	3161.82	2502.35	3161.82
40.0	2298.52	2984.11	4353.47	5364.85	5602.71	5364.85	4353.47	2984.11	2298.52	2984.11
42.5	2091.70	2791.55	4209.36	5230.54	5463.20	5230.54	4209.36	2791.55	2091.70	2791.55
45.0	1888.30	2586.44	4022.29	5026.87	5258.70	5026.87	4022.29	2586.44	1888.30	2586.44
47.5	1694.90	2370.77	3793.76	4769.85	4996.20	4769.85	3793.76	2370.77	1694.90	2370.77
50.0	1514.67	2150.40	3528.78	4467.06	4688.64	4467.06	3528.78	2150.40	1514.67	2150.40
52.5	1347.59	1932.09	3238.64	4130.36	4358.60	4130.36	3238.64	1932.09	1347.59	1932.09
55.0	1196.37	1722.41	2930.57	3784.87	4040.54	3784.87	2930.57	1722.41	1196.37	1722.41
57.5	1060.08	1527.33	2620.16	3466.09	3758.78	3466.09	2620.16	1527.33	1060.08	1527.33
60.0	936.66	1346.27	2323.65	3183.72	3519.32	3183.72	2323.65	1346.27	936.66	1346.27
62.5	824.55	1176.91	2045.22	2924.89	3286.19	2924.89	2045.22	1176.91	824.55	1176.91
65.0	722.05	1021.85	1785.31	2662.37	3021.64	2662.37	1785.31	1021.85	722.05	1021.85
67.5	627.00	882.34	1545.78	2374.24	2713.59	2374.24	1545.78	882.34	627.00	882.34
70.0	538.33	755.45	1325.80	2065.78	2370.68	2065.78	1325.80	755.45	538.33	755.45
72.5	454.30	639.14	1122.58	1752.81	2014.71	1752.81	1122.58	639.14	454.30	639.14
75.0	373.61	530.57	931.52	1451.82	1669.43	1451.82	931.52	530.57	373.61	530.57
77.5	296.15	430.59	757.32	1177.35	1351.18	1177.35	757.32	430.59	296.15	430.59
80.0	222.85	338.49	603.74	938.25	1071.93	938.25	603.74	338.49	222.85	338.49
82.5	156.44	256.34	471.20	735.91	838.81	735.91	471.20	256.34	156.44	256.34
85.0	100.91	187.37	360.57	565.55	645.20	565.55	360.57	187.37	100.91	187.37
87.5	61.83	138.95	279.01	438.26	500.04	438.26	279.01	138.95	61.83	138.95
90.0	46.03	106.49	217.61	340.89	387.83	340.89	217.61	106.49	46.03	106.49
92.5	43.86	88.45	175.08	269.46	305.08	269.46	175.08	88.45	43.86	88.45
95.0	42.99	80.71	146.80	220.61	248.49	220.61	146.80	80.71	42.99	80.71
97.5	42.29	75.52	130.46	189.62	212.07	189.62	130.46	75.52	42.29	75.52
100.0	41.24	70.59	121.67	171.76	190.42	171.76	121.67	70.59	41.24	70.59
102.5	39.50	66.00	115.35	161.91	178.21	161.91	115.35	66.00	39.50	66.00
105.0	37.38	61.77	110.71	155.77	171.04	155.77	110.71	61.77	37.38	61.77
107.5	35.04	57.72	106.26	150.50	165.61	150.50	106.26	57.72	35.04	57.72
110.0	32.41	53.58	101.84	145.27	160.28	145.27	101.84	53.58	32.41	53.58
112.5	29.49	49.09	97.10	139.52	154.22	139.52	97.10	49.09	29.49	49.09
115.0	26.56	44.37	91.87	133.00	147.12	133.00	91.87	44.37	26.56	44.37
117.5	23.77	39.49	86.44	125.84	139.52	125.84	86.44	39.49	23.77	39.49
120.0	21.18	34.56	80.76	118.68	131.96	118.68	80.76	34.56	21.18	34.56
122.5	18.66	29.70	74.92	111.19	123.15	111.19	74.92	29.70	18.66	29.70
125.0	16.35	24.80	68.84	102.93	114.49	102.93	68.84	24.80	16.35	24.80
127.5	14.23	20.03	62.23	95.49	106.98	95.49	62.23	20.03	14.23	20.03
130.0	12.39	15.67	55.61	88.32	98.79	88.32	55.61	15.67	12.39	15.67
132.5	10.80	12.06	48.83	80.39	90.08	80.39	48.83	12.06	10.80	12.06

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CANDELA TABULATION - (Cont.)

135.0	9.36	8.94	41.66	72.15	81.35	72.15	41.66	8.94	9.36	8.94
137.5	8.04	7.24	34.46	63.81	72.49	63.81	34.46	7.24	8.04	7.24
140.0	6.81	6.02	27.42	55.27	63.22	55.27	27.42	6.02	6.81	6.02
142.5	5.67	4.99	20.73	46.44	54.10	46.44	20.73	4.99	5.67	4.99
145.0	4.66	4.09	14.69	37.88	44.91	37.88	14.69	4.09	4.66	4.09
147.5	3.81	3.38	9.34	29.50	35.79	29.50	9.34	3.38	3.81	3.38
150.0	3.11	2.77	4.64	21.51	27.11	21.51	4.64	2.77	3.11	2.77
152.5	2.53	2.33	3.07	13.96	18.78	13.96	3.07	2.33	2.53	2.33
155.0	2.18	2.30	2.88	7.23	11.18	7.23	2.88	2.30	2.18	2.30
157.5	2.17	2.29	2.73	3.52	5.90	3.52	2.73	2.29	2.17	2.29
160.0	2.21	2.36	2.62	3.19	3.47	3.19	2.62	2.36	2.21	2.36
162.5	2.30	2.34	2.52	2.91	3.09	2.91	2.52	2.34	2.30	2.34
165.0	2.34	2.32	2.42	2.63	2.75	2.63	2.42	2.32	2.34	2.32
167.5	2.27	2.24	2.28	2.44	2.50	2.44	2.28	2.24	2.27	2.24
170.0	2.32	2.20	2.21	2.30	2.27	2.30	2.21	2.20	2.32	2.20
172.5	2.42	2.29	2.19	2.19	2.20	2.19	2.19	2.29	2.42	2.29
175.0	2.51	2.35	2.19	2.12	2.13	2.12	2.19	2.35	2.51	2.35
177.5	2.62	2.45	2.15	2.07	2.08	2.07	2.15	2.45	2.62	2.45
180.0	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25

**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	4003.16	4003.16	4003.16	4003.16	4003.16	4003.16	4003.16
2.5	4008.32	4030.57	4047.07	4030.57	4008.32	3987.88	3981.05
5.0	4033.03	4084.00	4105.34	4084.00	4033.03	3984.27	3965.79
7.5	4071.72	4163.12	4198.35	4163.12	4071.72	3977.40	3940.24
10.0	4122.32	4274.36	4320.60	4274.36	4122.32	3968.08	3901.57
12.5	4186.32	4399.86	4466.70	4399.86	4186.32	3955.18	3850.72
15.0	4255.95	4543.31	4628.11	4543.31	4255.95	3937.51	3785.86
17.5	4328.75	4694.44	4801.25	4694.44	4328.75	3910.69	3707.63
20.0	4399.17	4847.90	4977.62	4847.90	4399.17	3871.12	3614.24
22.5	4462.51	5003.53	5152.47	5003.53	4462.51	3819.20	3503.10
25.0	4517.91	5146.03	5312.80	5146.03	4517.91	3754.18	3375.52
27.5	4559.57	5269.36	5452.26	5269.36	4559.57	3674.27	3230.97
30.0	4582.45	5367.80	5563.86	5367.80	4582.45	3576.32	3069.87
32.5	4577.41	5426.82	5643.67	5426.82	4577.41	3457.89	2890.90
35.0	4537.67	5448.67	5684.21	5448.67	4537.67	3319.53	2700.14
37.5	4460.88	5432.40	5671.86	5432.40	4460.88	3161.82	2502.35
40.0	4353.47	5364.85	5602.71	5364.85	4353.47	2984.11	2298.52
42.5	4209.36	5230.54	5463.20	5230.54	4209.36	2791.55	2091.70
45.0	4022.29	5026.87	5258.70	5026.87	4022.29	2586.44	1888.30
47.5	3793.76	4769.85	4996.20	4769.85	3793.76	2370.77	1694.90
50.0	3528.78	4467.06	4688.64	4467.06	3528.78	2150.40	1514.67
52.5	3238.64	4130.36	4358.60	4130.36	3238.64	1932.09	1347.59
55.0	2930.57	3784.87	4040.54	3784.87	2930.57	1722.41	1196.37
57.5	2620.16	3466.09	3758.78	3466.09	2620.16	1527.33	1060.08
60.0	2323.65	3183.72	3519.32	3183.72	2323.65	1346.27	936.66
62.5	2045.22	2924.89	3286.19	2924.89	2045.22	1176.91	824.55
65.0	1785.31	2662.37	3021.64	2662.37	1785.31	1021.85	722.05
67.5	1545.78	2374.24	2713.59	2374.24	1545.78	882.34	627.00
70.0	1325.80	2065.78	2370.68	2065.78	1325.80	755.45	538.33
72.5	1122.58	1752.81	2014.71	1752.81	1122.58	639.14	454.30
75.0	931.52	1451.82	1669.43	1451.82	931.52	530.57	373.61
77.5	757.32	1177.35	1351.18	1177.35	757.32	430.59	296.15
80.0	603.74	938.25	1071.93	938.25	603.74	338.49	222.85

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CANDELA TABULATION - (Cont.)

82.5	471.20	735.91	838.81	735.91	471.20	256.34	156.44
85.0	360.57	565.55	645.20	565.55	360.57	187.37	100.91
87.5	279.01	438.26	500.04	438.26	279.01	138.95	61.83
90.0	217.61	340.89	387.83	340.89	217.61	106.49	46.03
92.5	175.08	269.46	305.08	269.46	175.08	88.45	43.86
95.0	146.80	220.61	248.49	220.61	146.80	80.71	42.99
97.5	130.46	189.62	212.07	189.62	130.46	75.52	42.29
100.0	121.67	171.76	190.42	171.76	121.67	70.59	41.24
102.5	115.35	161.91	178.21	161.91	115.35	66.00	39.50
105.0	110.71	155.77	171.04	155.77	110.71	61.77	37.38
107.5	106.26	150.50	165.61	150.50	106.26	57.72	35.04
110.0	101.84	145.27	160.28	145.27	101.84	53.58	32.41
112.5	97.10	139.52	154.22	139.52	97.10	49.09	29.49
115.0	91.87	133.00	147.12	133.00	91.87	44.37	26.56
117.5	86.44	125.84	139.52	125.84	86.44	39.49	23.77
120.0	80.76	118.68	131.96	118.68	80.76	34.56	21.18
122.5	74.92	111.19	123.15	111.19	74.92	29.70	18.66
125.0	68.84	102.93	114.49	102.93	68.84	24.80	16.35
127.5	62.23	95.49	106.98	95.49	62.23	20.03	14.23
130.0	55.61	88.32	98.79	88.32	55.61	15.67	12.39
132.5	48.83	80.39	90.08	80.39	48.83	12.06	10.80
135.0	41.66	72.15	81.35	72.15	41.66	8.94	9.36
137.5	34.46	63.81	72.49	63.81	34.46	7.24	8.04
140.0	27.42	55.27	63.22	55.27	27.42	6.02	6.81
142.5	20.73	46.44	54.10	46.44	20.73	4.99	5.67
145.0	14.69	37.88	44.91	37.88	14.69	4.09	4.66
147.5	9.34	29.50	35.79	29.50	9.34	3.38	3.81
150.0	4.64	21.51	27.11	21.51	4.64	2.77	3.11
152.5	3.07	13.96	18.78	13.96	3.07	2.33	2.53
155.0	2.88	7.23	11.18	7.23	2.88	2.30	2.18
157.5	2.73	3.52	5.90	3.52	2.73	2.29	2.17
160.0	2.62	3.19	3.47	3.19	2.62	2.36	2.21
162.5	2.52	2.91	3.09	2.91	2.52	2.34	2.30
165.0	2.42	2.63	2.75	2.63	2.42	2.32	2.34
167.5	2.28	2.44	2.50	2.44	2.28	2.24	2.27
170.0	2.21	2.30	2.27	2.30	2.21	2.20	2.32
172.5	2.19	2.19	2.20	2.19	2.19	2.29	2.42
175.0	2.19	2.12	2.13	2.12	2.19	2.35	2.51
177.5	2.15	2.07	2.08	2.07	2.15	2.45	2.62
180.0	2.25	2.25	2.25	2.25	2.25	2.25	2.25

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1592.00	N.A.	10.20
0-30	3643.09	N.A.	23.40
0-40	6372.84	N.A.	41.00
0-60	11770.19	N.A.	75.70
0-80	14636.86	N.A.	94.10
0-90	15065.21	N.A.	96.90
10-90	14677.45	N.A.	94.40
20-40	4780.85	N.A.	30.70
20-50	7697.68	N.A.	49.50
40-70	7213.19	N.A.	46.40
60-80	2866.67	N.A.	18.40
70-80	1050.82	N.A.	6.80
80-90	428.35	N.A.	2.80
90-110	285.92	N.A.	1.80
90-120	374.21	N.A.	2.40
90-130	433.28	N.A.	2.80
90-150	479.38	N.A.	3.10
90-180	483.00	N.A.	3.10
110-180	197.08	N.A.	1.30
0-180	15548.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	387.77
10-20	1204.23
20-30	2051.1
30-40	2729.75
40-50	2916.84
50-60	2480.51
60-70	1815.85
70-80	1050.82
80-90	428.35
90-100	170.94
100-110	114.98
110-120	88.29
120-130	59.08
130-140	32.92
140-150	13.18
150-160	2.69
160-170	0.71
170-180	0.21

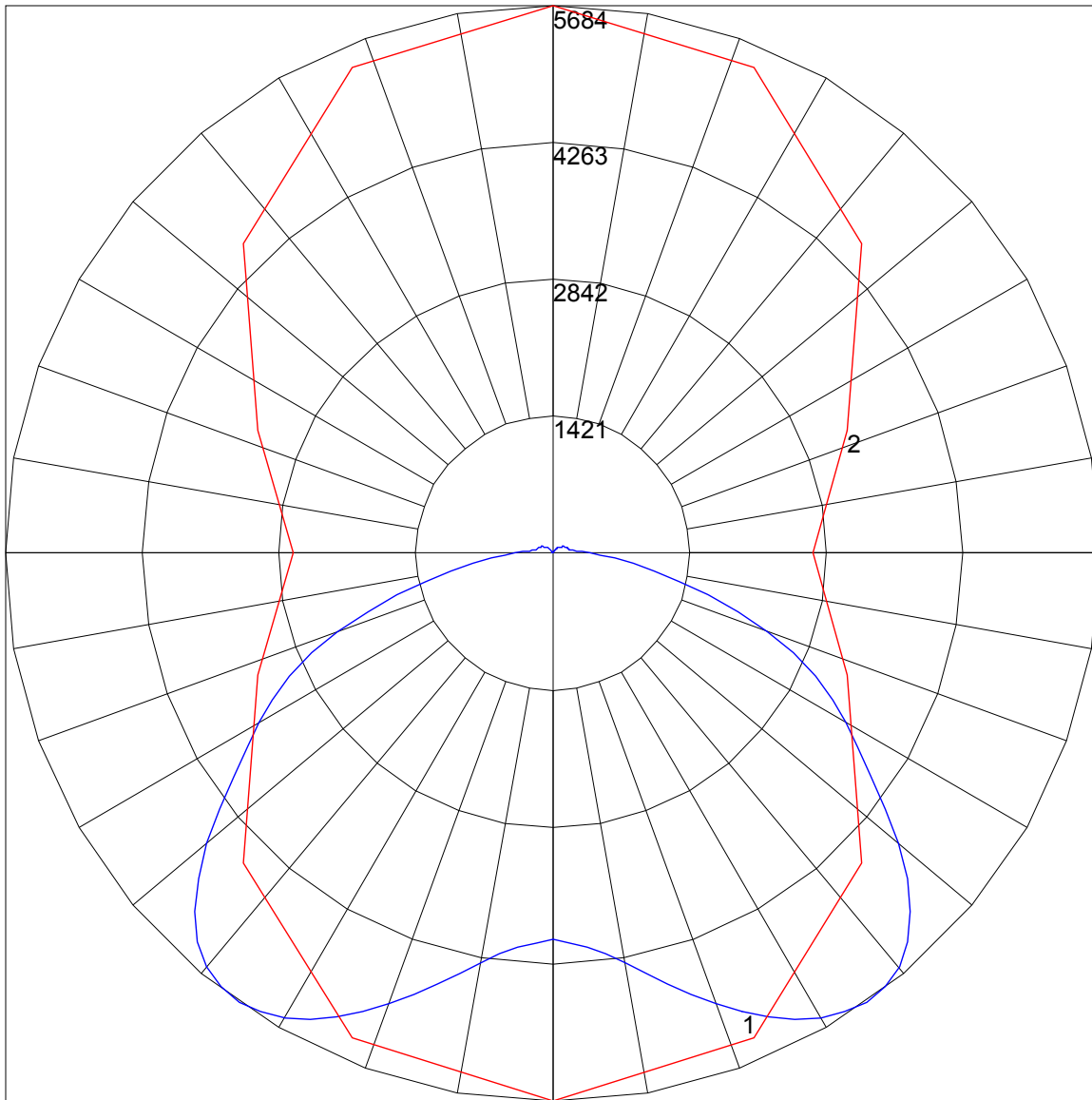
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	97
1	108	103	98	94	104	100	96	92	95	92	89	91	88	86	87	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	78	67	59	52	64	57	51	62	55	50	59	54	49	47
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	53	47	42	40
6	68	55	46	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	41	34	61	49	40	34	47	39	34	45	38	33	43	37	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	36	30	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22

POLAR GRAPH



Maximum Candela = 5684.21 Located At Horizontal Angle = 90, Vertical Angle = 35
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)