

PHILIPS**PHILIPS****Day-Brite****CFI****IES INDOOR REPORT****PHOTOMETRIC FILENAME : APX12LL40-UNV-N-LFA.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] FO33953.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 12/22/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX12LL40-UNV-N-LFA

[LUMINAIRE] PHILIPS APX 4-LP 3.2.1 4000K BOARDS 95W DRIVER NARROW OPTICS NO RESISTOR DIRA-FR50 LENS

[LAMP] LED. LUMINAIRE OUTPUT = 10501 LMS

[TESTDATE] 12/22/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10501
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	95.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.94
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.29 ft
Luminous Width (90-270)	1.27 ft
Luminous Height	0.50 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4990	4008	3821
55	3712	2824	2718
65	2803	2023	1969
75	1944	1335	1362
85	785	702	873

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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	6905.70	6905.70	6905.70	6905.70	6905.70	6905.70	6905.70	6905.70	6905.70	6905.70
2.5	6877.78	6876.50	6884.99	6874.39	6861.85	6874.39	6884.99	6876.50	6877.78	6876.50
5.0	6801.57	6793.43	6803.65	6793.77	6772.76	6793.77	6803.65	6793.43	6801.57	6793.43
7.5	6674.82	6661.51	6664.64	6646.66	6630.04	6646.66	6664.64	6661.51	6674.82	6661.51
10.0	6496.02	6484.13	6472.00	6455.12	6430.07	6455.12	6472.00	6484.13	6496.02	6484.13
12.5	6270.40	6261.37	6234.81	6201.82	6175.61	6201.82	6234.81	6261.37	6270.40	6261.37
15.0	6003.11	5995.44	5958.40	5904.99	5862.31	5904.99	5958.40	5995.44	6003.11	5995.44
17.5	5700.28	5688.90	5635.39	5566.27	5528.94	5566.27	5635.39	5688.90	5700.28	5688.90
20.0	5356.76	5345.77	5278.24	5204.51	5168.64	5204.51	5278.24	5345.77	5356.76	5345.77
22.5	4996.01	4984.08	4906.36	4834.23	4790.54	4834.23	4906.36	4984.08	4996.01	4984.08
25.0	4619.97	4608.82	4525.49	4448.31	4401.21	4448.31	4525.49	4608.82	4619.97	4608.82
27.5	4224.21	4223.12	4142.43	4063.02	4022.41	4063.02	4142.43	4223.12	4224.21	4223.12
30.0	3849.14	3841.53	3765.56	3689.41	3646.44	3689.41	3765.56	3841.53	3849.14	3841.53
32.5	3480.49	3470.76	3401.68	3329.27	3292.52	3329.27	3401.68	3470.76	3480.49	3470.76
35.0	3129.16	3118.39	3052.76	2988.14	2963.76	2988.14	3052.76	3118.39	3129.16	3118.39
37.5	2798.43	2787.22	2730.13	2680.55	2658.40	2680.55	2730.13	2787.22	2798.43	2787.22
40.0	2501.18	2489.53	2443.40	2404.20	2381.39	2404.20	2443.40	2489.53	2501.18	2489.53
42.5	2234.35	2222.87	2185.67	2151.99	2132.34	2151.99	2185.67	2222.87	2234.35	2222.87
45.0	1996.20	1984.37	1954.00	1923.50	1907.76	1923.50	1954.00	1984.37	1996.20	1984.37
47.5	1781.30	1769.60	1748.58	1721.70	1708.33	1721.70	1748.58	1769.60	1781.30	1769.60
50.0	1587.68	1577.80	1563.43	1544.08	1533.91	1544.08	1563.43	1577.80	1587.68	1577.80
52.5	1414.59	1408.78	1394.94	1384.97	1377.45	1384.97	1394.94	1408.78	1414.59	1408.78
55.0	1258.23	1254.43	1243.33	1238.35	1233.73	1238.35	1243.33	1254.43	1258.23	1254.43
57.5	1116.62	1115.05	1110.93	1105.70	1102.19	1105.70	1110.93	1115.05	1116.62	1115.05
60.0	985.14	987.08	987.58	986.93	985.44	986.93	987.58	987.08	985.14	987.08
62.5	863.32	868.74	873.58	878.53	877.92	878.53	873.58	868.74	863.32	868.74
65.0	750.12	757.62	768.14	776.88	777.35	776.88	768.14	757.62	750.12	757.62
67.5	644.66	654.45	669.52	680.84	684.16	680.84	669.52	654.45	644.66	654.45
70.0	546.16	558.20	576.02	591.83	597.11	591.83	576.02	558.20	546.16	558.20
72.5	453.30	467.54	490.17	510.13	516.00	510.13	490.17	467.54	453.30	467.54
75.0	365.70	382.10	410.88	433.57	441.10	433.57	410.88	382.10	365.70	382.10
77.5	282.30	301.12	335.27	362.37	372.44	362.37	335.27	301.12	282.30	301.12
80.0	205.41	227.03	265.80	298.15	310.03	298.15	265.80	227.03	205.41	227.03
82.5	136.72	161.25	206.17	243.65	256.28	243.65	206.17	161.25	136.72	161.25
85.0	80.81	107.97	158.81	198.75	211.94	198.75	158.81	107.97	80.81	107.97
87.5	42.55	72.96	125.53	165.48	178.23	165.48	125.53	72.96	42.55	72.96
90.0	28.20	52.40	98.91	136.27	148.86	136.27	98.91	52.40	28.20	52.40
92.5	26.73	43.47	79.46	111.90	123.58	111.90	79.46	43.47	26.73	43.47
95.0	25.88	40.37	68.78	94.97	104.83	94.97	68.78	40.37	25.88	40.37
97.5	24.74	37.37	63.61	85.26	93.18	85.26	63.61	37.37	24.74	37.37
100.0	23.37	34.28	59.38	79.70	86.68	79.70	59.38	34.28	23.37	34.28
102.5	21.63	31.24	55.35	75.19	82.13	75.19	55.35	31.24	21.63	31.24
105.0	19.80	28.24	51.68	71.23	78.26	71.23	51.68	28.24	19.80	28.24
107.5	18.05	25.37	48.12	67.18	74.35	67.18	48.12	25.37	18.05	25.37
110.0	16.27	22.48	44.61	63.19	70.35	63.19	44.61	22.48	16.27	22.48
112.5	14.44	19.59	40.90	59.04	66.39	59.04	40.90	19.59	14.44	19.59
115.0	12.67	16.76	37.16	54.90	62.02	54.90	37.16	16.76	12.67	16.76
117.5	11.08	14.09	33.77	50.74	57.68	50.74	33.77	14.09	11.08	14.09
120.0	9.59	11.59	30.27	46.85	53.63	46.85	30.27	11.59	9.59	11.59
122.5	8.17	9.27	26.84	42.94	49.03	42.94	26.84	9.27	8.17	9.27
125.0	6.83	7.30	23.49	38.62	44.79	38.62	23.49	7.30	6.83	7.30
127.5	5.69	5.41	20.17	34.83	40.85	34.83	20.17	5.41	5.69	5.41
130.0	4.68	3.85	16.88	31.15	36.66	31.15	16.88	3.85	4.68	3.85
132.5	3.78	3.00	13.77	27.39	32.39	27.39	13.77	3.00	3.78	3.00

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CANDELA TABULATION - (Cont.)

135.0	3.04	2.28	10.86	23.60	28.28	23.60	10.86	2.28	3.04	2.28
137.5	2.33	1.61	8.18	19.97	24.25	19.97	8.18	1.61	2.33	1.61
140.0	1.66	1.08	5.77	16.44	20.21	16.44	5.77	1.08	1.66	1.08
142.5	1.09	0.64	3.75	13.05	16.56	13.05	3.75	0.64	1.09	0.64
145.0	0.58	0.27	2.28	9.92	12.98	9.92	2.28	0.27	0.58	0.27
147.5	0.25	0.04	1.10	7.18	9.72	7.18	1.10	0.04	0.25	0.04
150.0	0.05	0.00	0.40	4.82	6.88	4.82	0.40	0.00	0.05	0.00
152.5	0.01	0.02	0.31	2.83	4.49	2.83	0.31	0.02	0.01	0.02
155.0	0.10	0.15	0.34	1.38	2.64	1.38	0.34	0.15	0.10	0.15
157.5	0.22	0.26	0.32	0.81	1.45	0.81	0.32	0.26	0.22	0.26
160.0	0.35	0.41	0.45	0.78	1.08	0.78	0.45	0.41	0.35	0.41
162.5	0.48	0.55	0.51	0.85	1.00	0.85	0.51	0.55	0.48	0.55
165.0	0.53	0.57	0.62	0.79	0.97	0.79	0.62	0.57	0.53	0.57
167.5	0.57	0.59	0.61	0.86	0.98	0.86	0.61	0.59	0.57	0.59
170.0	0.66	0.65	0.62	0.87	1.08	0.87	0.62	0.65	0.66	0.65
172.5	0.84	0.89	0.85	0.97	1.16	0.97	0.85	0.89	0.84	0.89
175.0	1.01	1.02	0.93	1.12	1.23	1.12	0.93	1.02	1.01	1.02
177.5	1.11	1.17	0.99	1.14	1.29	1.14	0.99	1.17	1.11	1.17
180.0	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11

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	6905.70	6905.70	6905.70	6905.70	6905.70	6905.70	6905.70
2.5	6884.99	6874.39	6861.85	6874.39	6884.99	6876.50	6877.78
5.0	6803.65	6793.77	6772.76	6793.77	6803.65	6793.43	6801.57
7.5	6664.64	6646.66	6630.04	6646.66	6664.64	6661.51	6674.82
10.0	6472.00	6455.12	6430.07	6455.12	6472.00	6484.13	6496.02
12.5	6234.81	6201.82	6175.61	6201.82	6234.81	6261.37	6270.40
15.0	5958.40	5904.99	5862.31	5904.99	5958.40	5995.44	6003.11
17.5	5635.39	5566.27	5528.94	5566.27	5635.39	5688.90	5700.28
20.0	5278.24	5204.51	5168.64	5204.51	5278.24	5345.77	5356.76
22.5	4906.36	4834.23	4790.54	4834.23	4906.36	4984.08	4996.01
25.0	4525.49	4448.31	4401.21	4448.31	4525.49	4608.82	4619.97
27.5	4142.43	4063.02	4022.41	4063.02	4142.43	4223.12	4224.21
30.0	3765.56	3689.41	3646.44	3689.41	3765.56	3841.53	3849.14
32.5	3401.68	3329.27	3292.52	3329.27	3401.68	3470.76	3480.49
35.0	3052.76	2988.14	2963.76	2988.14	3052.76	3118.39	3129.16
37.5	2730.13	2680.55	2658.40	2680.55	2730.13	2787.22	2798.43
40.0	2443.40	2404.20	2381.39	2404.20	2443.40	2489.53	2501.18
42.5	2185.67	2151.99	2132.34	2151.99	2185.67	2222.87	2234.35
45.0	1954.00	1923.50	1907.76	1923.50	1954.00	1984.37	1996.20
47.5	1748.58	1721.70	1708.33	1721.70	1748.58	1769.60	1781.30
50.0	1563.43	1544.08	1533.91	1544.08	1563.43	1577.80	1587.68
52.5	1394.94	1384.97	1377.45	1384.97	1394.94	1408.78	1414.59
55.0	1243.33	1238.35	1233.73	1238.35	1243.33	1254.43	1258.23
57.5	1110.93	1105.70	1102.19	1105.70	1110.93	1115.05	1116.62
60.0	987.58	986.93	985.44	986.93	987.58	987.08	985.14
62.5	873.58	878.53	877.92	878.53	873.58	868.74	863.32
65.0	768.14	776.88	777.35	776.88	768.14	757.62	750.12
67.5	669.52	680.84	684.16	680.84	669.52	654.45	644.66
70.0	576.02	591.83	597.11	591.83	576.02	558.20	546.16
72.5	490.17	510.13	516.00	510.13	490.17	467.54	453.30
75.0	410.88	433.57	441.10	433.57	410.88	382.10	365.70
77.5	335.27	362.37	372.44	362.37	335.27	301.12	282.30
80.0	265.80	298.15	310.03	298.15	265.80	227.03	205.41

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CANDELA TABULATION - (Cont.)

82.5	206.17	243.65	256.28	243.65	206.17	161.25	136.72
85.0	158.81	198.75	211.94	198.75	158.81	107.97	80.81
87.5	125.53	165.48	178.23	165.48	125.53	72.96	42.55
90.0	98.91	136.27	148.86	136.27	98.91	52.40	28.20
92.5	79.46	111.90	123.58	111.90	79.46	43.47	26.73
95.0	68.78	94.97	104.83	94.97	68.78	40.37	25.88
97.5	63.61	85.26	93.18	85.26	63.61	37.37	24.74
100.0	59.38	79.70	86.68	79.70	59.38	34.28	23.37
102.5	55.35	75.19	82.13	75.19	55.35	31.24	21.63
105.0	51.68	71.23	78.26	71.23	51.68	28.24	19.80
107.5	48.12	67.18	74.35	67.18	48.12	25.37	18.05
110.0	44.61	63.19	70.35	63.19	44.61	22.48	16.27
112.5	40.90	59.04	66.39	59.04	40.90	19.59	14.44
115.0	37.16	54.90	62.02	54.90	37.16	16.76	12.67
117.5	33.77	50.74	57.68	50.74	33.77	14.09	11.08
120.0	30.27	46.85	53.63	46.85	30.27	11.59	9.59
122.5	26.84	42.94	49.03	42.94	26.84	9.27	8.17
125.0	23.49	38.62	44.79	38.62	23.49	7.30	6.83
127.5	20.17	34.83	40.85	34.83	20.17	5.41	5.69
130.0	16.88	31.15	36.66	31.15	16.88	3.85	4.68
132.5	13.77	27.39	32.39	27.39	13.77	3.00	3.78
135.0	10.86	23.60	28.28	23.60	10.86	2.28	3.04
137.5	8.18	19.97	24.25	19.97	8.18	1.61	2.33
140.0	5.77	16.44	20.21	16.44	5.77	1.08	1.66
142.5	3.75	13.05	16.56	13.05	3.75	0.64	1.09
145.0	2.28	9.92	12.98	9.92	2.28	0.27	0.58
147.5	1.10	7.18	9.72	7.18	1.10	0.04	0.25
150.0	0.40	4.82	6.88	4.82	0.40	0.00	0.05
152.5	0.31	2.83	4.49	2.83	0.31	0.02	0.01
155.0	0.34	1.38	2.64	1.38	0.34	0.15	0.10
157.5	0.32	0.81	1.45	0.81	0.32	0.26	0.22
160.0	0.45	0.78	1.08	0.78	0.45	0.41	0.35
162.5	0.51	0.85	1.00	0.85	0.51	0.55	0.48
165.0	0.62	0.79	0.97	0.79	0.62	0.57	0.53
167.5	0.61	0.86	0.98	0.86	0.61	0.59	0.57
170.0	0.62	0.87	1.08	0.87	0.62	0.65	0.66
172.5	0.85	0.97	1.16	0.97	0.85	0.89	0.84
175.0	0.93	1.12	1.23	1.12	0.93	1.02	1.01
177.5	0.99	1.14	1.29	1.14	0.99	1.17	1.11
180.0	1.11	1.11	1.11	1.11	1.11	1.11	1.11

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2298.6	N.A.	21.90
0-30	4370.47	N.A.	41.60
0-40	6283.31	N.A.	59.80
0-60	8923.7	N.A.	85.00
0-80	10121.21	N.A.	96.40
0-90	10298.7	N.A.	98.10
10-90	9660.56	N.A.	92.00
20-40	3984.71	N.A.	37.90
20-50	5502.72	N.A.	52.40
40-70	3403.92	N.A.	32.40
60-80	1197.5	N.A.	11.40
70-80	433.97	N.A.	4.10
80-90	177.50	N.A.	1.70
90-110	129.95	N.A.	1.20
90-120	166.39	N.A.	1.60
90-130	187.97	N.A.	1.80
90-150	201.52	N.A.	1.90
90-180	202.29	N.A.	1.90
110-180	72.35	N.A.	0.70
0-180	10501.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	638.15
10-20	1660.45
20-30	2071.87
30-40	1912.84
40-50	1518.01
50-60	1122.38
60-70	763.53
70-80	433.97
80-90	177.50
90-100	76.89
100-110	53.06
110-120	36.44
120-130	21.58
130-140	10.32
140-150	3.23
150-160	0.50
160-170	0.19
170-180	0.09

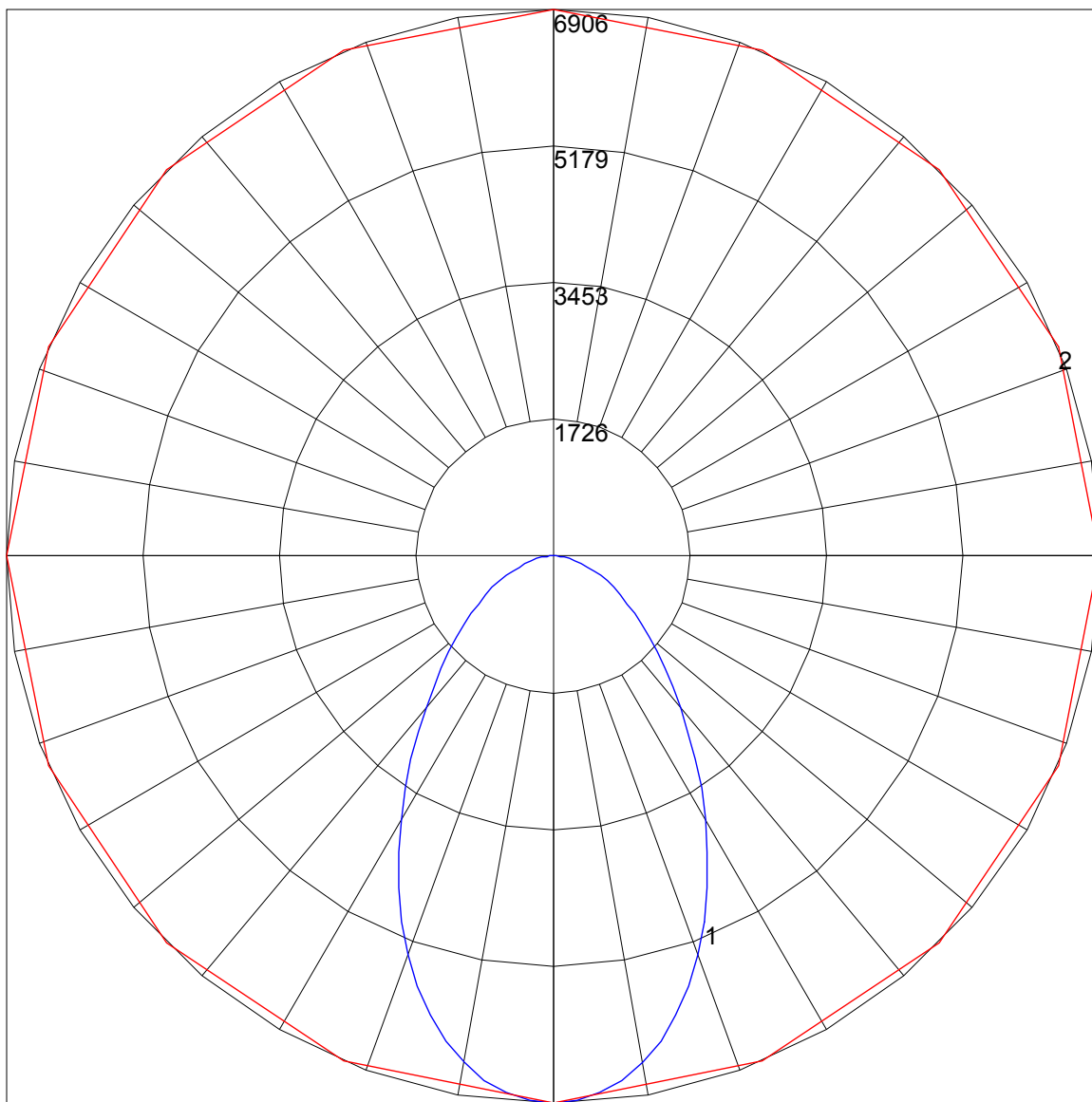
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	71	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

POLAR GRAPH



Maximum Candela = 6905.7 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.)