

PHILIPS

PHILIPS

Day-Brite

CFI

IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX12LL40-UNV-N-LFP.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO33951.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 12/22/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX12LL40-UNV-N-LFP

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

[LAMP] LED. LUMINAIRE OUTPUT = 11597 LMS

[TESTDATE] 12/22/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11597
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	95.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.90
Spacing Criterion (90-270)	0.80
Spacing Criterion (Diagonal)	0.86
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	4067	2841	2420
55	2313	1514	1330
65	1595	1020	955
75	1127	756	757
85	557	536	603

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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	11685.87	11685.87	11685.87	11685.87	11685.87	11685.87	11685.87	11685.87	11685.87	11685.87
2.5	11635.96	11637.61	11648.46	11622.41	11603.11	11622.41	11648.46	11637.61	11635.96	11637.61
5.0	11529.61	11513.36	11504.96	11453.16	11405.11	11453.16	11504.96	11513.36	11529.61	11513.36
7.5	11345.71	11307.21	11252.71	11147.86	11092.51	11147.86	11252.71	11307.21	11345.71	11307.21
10.0	11069.46	11016.31	10887.11	10726.41	10653.71	10726.41	10887.11	11016.31	11069.46	11016.31
12.5	10695.46	10631.46	10420.61	10170.13	10078.61	10170.13	10420.61	10631.46	10695.46	10631.46
15.0	10216.46	10145.61	9858.64	9526.36	9388.03	9526.36	9858.64	10145.61	10216.46	10145.61
17.5	9638.25	9549.40	9181.62	8778.42	8634.35	8778.42	9181.62	9549.40	9638.25	9549.40
20.0	8951.39	8837.99	8410.48	7954.59	7799.35	7954.59	8410.48	8837.99	8951.39	8837.99
22.5	8166.51	8037.12	7568.38	7095.86	6916.45	7095.86	7568.38	8037.12	8166.51	8037.12
25.0	7305.81	7175.29	6680.39	6201.90	6028.81	6201.90	6680.39	7175.29	7305.81	7175.29
27.5	6401.72	6266.78	5777.32	5307.31	5156.74	5307.31	5777.32	6266.78	6401.72	6266.78
30.0	5498.58	5342.41	4892.62	4463.43	4314.07	4463.43	4892.62	5342.41	5498.58	5342.41
32.5	4598.14	4465.63	4068.55	3695.20	3557.53	3695.20	4068.55	4465.63	4598.14	4465.63
35.0	3782.34	3665.00	3316.83	3001.37	2899.70	3001.37	3316.83	3665.00	3782.34	3665.00
37.5	3074.34	2962.14	2670.11	2410.53	2327.30	2410.53	2670.11	2962.14	3074.34	2962.14
40.0	2488.89	2379.38	2142.25	1933.75	1860.63	1933.75	2142.25	2379.38	2488.89	2379.38
42.5	2010.91	1909.23	1717.31	1555.87	1496.01	1555.87	1717.31	1909.23	2010.91	1909.23
45.0	1626.68	1538.43	1384.97	1254.31	1208.34	1254.31	1384.97	1538.43	1626.68	1538.43
47.5	1333.56	1252.24	1130.42	1026.49	987.24	1026.49	1130.42	1252.24	1333.56	1252.24
50.0	1105.15	1032.49	935.10	855.42	825.29	855.42	935.10	1032.49	1105.15	1032.49
52.5	927.93	863.37	783.97	723.21	701.79	723.21	783.97	863.37	927.93	863.37
55.0	784.07	730.06	666.83	619.85	603.60	619.85	666.83	730.06	784.07	730.06
57.5	670.44	624.67	575.90	541.36	527.80	541.36	575.90	624.67	670.44	624.67
60.0	576.88	538.78	501.31	479.01	470.16	479.01	501.31	538.78	576.88	538.78
62.5	496.76	466.20	439.76	426.71	421.00	426.71	439.76	466.20	496.76	466.20
65.0	426.94	403.63	387.50	382.58	377.27	382.58	387.50	403.63	426.94	403.63
67.5	365.14	348.57	342.22	343.23	339.56	343.23	342.22	348.57	365.14	348.57
70.0	310.33	299.58	302.19	307.20	305.52	307.20	302.19	299.58	310.33	299.58
72.5	259.19	255.22	266.22	274.91	273.79	274.91	266.22	255.22	259.19	255.22
75.0	212.12	214.13	232.75	245.34	245.00	245.34	232.75	214.13	212.12	214.13
77.5	167.61	175.31	200.90	217.16	218.63	217.16	200.90	175.31	167.61	175.31
80.0	126.57	139.05	171.70	190.65	193.15	190.65	171.70	139.05	126.57	139.05
82.5	89.00	106.53	144.79	166.50	168.90	166.50	144.79	106.53	89.00	106.53
85.0	57.33	79.45	121.26	144.01	146.48	144.01	121.26	79.45	57.33	79.45
87.5	35.12	60.41	103.21	124.31	126.79	124.31	103.21	60.41	35.12	60.41
90.0	25.84	47.32	86.43	104.59	106.36	104.59	86.43	47.32	25.84	47.32
92.5	23.89	39.70	71.54	86.51	87.64	86.51	71.54	39.70	23.89	39.70
95.0	22.87	35.36	60.02	71.37	72.73	71.37	60.02	35.36	22.87	35.36
97.5	21.85	31.23	51.68	60.13	61.42	60.13	51.68	31.23	21.85	31.23
100.0	20.59	27.50	45.19	52.92	54.01	52.92	45.19	27.50	20.59	27.50
102.5	18.87	24.16	40.10	48.14	49.68	48.14	40.10	24.16	18.87	24.16
105.0	16.88	21.19	36.22	44.88	47.01	44.88	36.22	21.19	16.88	21.19
107.5	14.91	18.53	33.09	42.07	44.68	42.07	33.09	18.53	14.91	18.53
110.0	12.87	16.18	30.26	39.73	42.64	39.73	30.26	16.18	12.87	16.18
112.5	10.87	13.67	27.60	37.38	40.68	37.38	27.60	13.67	10.87	13.67
115.0	8.98	11.26	25.08	34.94	38.32	34.94	25.08	11.26	8.98	11.26
117.5	7.31	9.08	22.60	32.47	35.87	32.47	22.60	9.08	7.31	9.08
120.0	5.85	7.04	20.21	30.14	33.67	30.14	20.21	7.04	5.85	7.04
122.5	4.53	5.27	17.74	27.67	31.07	27.67	17.74	5.27	4.53	5.27
125.0	3.42	3.67	15.54	24.88	28.42	24.88	15.54	3.67	3.42	3.67
127.5	2.51	2.33	13.16	22.51	26.07	22.51	13.16	2.33	2.51	2.33
130.0	1.77	1.33	11.03	20.18	23.54	20.18	11.03	1.33	1.77	1.33
132.5	1.23	0.90	8.97	17.70	20.88	17.70	8.97	0.90	1.23	0.90

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CANDELA TABULATION - (Cont.)

135.0	0.88	0.53	7.08	15.30	18.22	15.30	7.08	0.53	0.88	0.53
137.5	0.57	0.32	5.34	12.95	15.65	12.95	5.34	0.32	0.57	0.32
140.0	0.34	0.15	3.80	10.75	13.23	10.75	3.80	0.15	0.34	0.15
142.5	0.14	0.02	2.57	8.60	10.86	8.60	2.57	0.02	0.14	0.02
145.0	0.05	0.00	1.51	6.71	8.64	6.71	1.51	0.00	0.05	0.00
147.5	0.00	0.01	0.85	5.01	6.73	5.01	0.85	0.01	0.00	0.01
150.0	0.04	0.05	0.33	3.56	4.97	3.56	0.33	0.05	0.04	0.05
152.5	0.09	0.16	0.42	2.34	3.48	2.34	0.42	0.16	0.09	0.16
155.0	0.25	0.38	0.62	1.44	2.38	1.44	0.62	0.38	0.25	0.38
157.5	0.53	0.65	0.77	1.08	1.71	1.08	0.77	0.65	0.53	0.65
160.0	0.82	0.94	1.10	1.36	1.47	1.36	1.10	0.94	0.82	0.94
162.5	1.11	1.22	1.30	1.48	1.69	1.48	1.30	1.22	1.11	1.22
165.0	1.40	1.50	1.51	1.71	1.81	1.71	1.51	1.50	1.40	1.50
167.5	1.43	1.57	1.55	1.87	2.00	1.87	1.55	1.57	1.43	1.57
170.0	1.61	1.74	1.72	2.03	2.14	2.03	1.72	1.74	1.61	1.74
172.5	2.04	2.08	2.01	2.26	2.44	2.26	2.01	2.08	2.04	2.08
175.0	2.28	2.35	2.29	2.46	2.67	2.46	2.29	2.35	2.28	2.35
177.5	2.50	2.60	2.31	2.63	2.77	2.63	2.31	2.60	2.50	2.60
180.0	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52

**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	11685.87	11685.87	11685.87	11685.87	11685.87	11685.87	11685.87
2.5	11648.46	11622.41	11603.11	11622.41	11648.46	11637.61	11635.96
5.0	11504.96	11453.16	11405.11	11453.16	11504.96	11513.36	11529.61
7.5	11252.71	11147.86	11092.51	11147.86	11252.71	11307.21	11345.71
10.0	10887.11	10726.41	10653.71	10726.41	10887.11	11016.31	11069.46
12.5	10420.61	10170.13	10078.61	10170.13	10420.61	10631.46	10695.46
15.0	9858.64	9526.36	9388.03	9526.36	9858.64	10145.61	10216.46
17.5	9181.62	8778.42	8634.35	8778.42	9181.62	9549.40	9638.25
20.0	8410.48	7954.59	7799.35	7954.59	8410.48	8837.99	8951.39
22.5	7568.38	7095.86	6916.45	7095.86	7568.38	8037.12	8166.51
25.0	6680.39	6201.90	6028.81	6201.90	6680.39	7175.29	7305.81
27.5	5777.32	5307.31	5156.74	5307.31	5777.32	6266.78	6401.72
30.0	4892.62	4463.43	4314.07	4463.43	4892.62	5342.41	5498.58
32.5	4068.55	3695.20	3557.53	3695.20	4068.55	4465.63	4598.14
35.0	3316.83	3001.37	2899.70	3001.37	3316.83	3665.00	3782.34
37.5	2670.11	2410.53	2327.30	2410.53	2670.11	2962.14	3074.34
40.0	2142.25	1933.75	1860.63	1933.75	2142.25	2379.38	2488.89
42.5	1717.31	1555.87	1496.01	1555.87	1717.31	1909.23	2010.91
45.0	1384.97	1254.31	1208.34	1254.31	1384.97	1538.43	1626.68
47.5	1130.42	1026.49	987.24	1026.49	1130.42	1252.24	1333.56
50.0	935.10	855.42	825.29	855.42	935.10	1032.49	1105.15
52.5	783.97	723.21	701.79	723.21	783.97	863.37	927.93
55.0	666.83	619.85	603.60	619.85	666.83	730.06	784.07
57.5	575.90	541.36	527.80	541.36	575.90	624.67	670.44
60.0	501.31	479.01	470.16	479.01	501.31	538.78	576.88
62.5	439.76	426.71	421.00	426.71	439.76	466.20	496.76
65.0	387.50	382.58	377.27	382.58	387.50	403.63	426.94
67.5	342.22	343.23	339.56	343.23	342.22	348.57	365.14
70.0	302.19	307.20	305.52	307.20	302.19	299.58	310.33
72.5	266.22	274.91	273.79	274.91	266.22	255.22	259.19
75.0	232.75	245.34	245.00	245.34	232.75	214.13	212.12
77.5	200.90	217.16	218.63	217.16	200.90	175.31	167.61
80.0	171.70	190.65	193.15	190.65	171.70	139.05	126.57

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CANDELA TABULATION - (Cont.)

82.5	144.79	166.50	168.90	166.50	144.79	106.53	89.00
85.0	121.26	144.01	146.48	144.01	121.26	79.45	57.33
87.5	103.21	124.31	126.79	124.31	103.21	60.41	35.12
90.0	86.43	104.59	106.36	104.59	86.43	47.32	25.84
92.5	71.54	86.51	87.64	86.51	71.54	39.70	23.89
95.0	60.02	71.37	72.73	71.37	60.02	35.36	22.87
97.5	51.68	60.13	61.42	60.13	51.68	31.23	21.85
100.0	45.19	52.92	54.01	52.92	45.19	27.50	20.59
102.5	40.10	48.14	49.68	48.14	40.10	24.16	18.87
105.0	36.22	44.88	47.01	44.88	36.22	21.19	16.88
107.5	33.09	42.07	44.68	42.07	33.09	18.53	14.91
110.0	30.26	39.73	42.64	39.73	30.26	16.18	12.87
112.5	27.60	37.38	40.68	37.38	27.60	13.67	10.87
115.0	25.08	34.94	38.32	34.94	25.08	11.26	8.98
117.5	22.60	32.47	35.87	32.47	22.60	9.08	7.31
120.0	20.21	30.14	33.67	30.14	20.21	7.04	5.85
122.5	17.74	27.67	31.07	27.67	17.74	5.27	4.53
125.0	15.54	24.88	28.42	24.88	15.54	3.67	3.42
127.5	13.16	22.51	26.07	22.51	13.16	2.33	2.51
130.0	11.03	20.18	23.54	20.18	11.03	1.33	1.77
132.5	8.97	17.70	20.88	17.70	8.97	0.90	1.23
135.0	7.08	15.30	18.22	15.30	7.08	0.53	0.88
137.5	5.34	12.95	15.65	12.95	5.34	0.32	0.57
140.0	3.80	10.75	13.23	10.75	3.80	0.15	0.34
142.5	2.57	8.60	10.86	8.60	2.57	0.02	0.14
145.0	1.51	6.71	8.64	6.71	1.51	0.00	0.05
147.5	0.85	5.01	6.73	5.01	0.85	0.01	0.00
150.0	0.33	3.56	4.97	3.56	0.33	0.05	0.04
152.5	0.42	2.34	3.48	2.34	0.42	0.16	0.09
155.0	0.62	1.44	2.38	1.44	0.62	0.38	0.25
157.5	0.77	1.08	1.71	1.08	0.77	0.65	0.53
160.0	1.10	1.36	1.47	1.36	1.10	0.94	0.82
162.5	1.30	1.48	1.69	1.48	1.30	1.22	1.11
165.0	1.51	1.71	1.81	1.71	1.51	1.50	1.40
167.5	1.55	1.87	2.00	1.87	1.55	1.57	1.43
170.0	1.72	2.03	2.14	2.03	1.72	1.74	1.61
172.5	2.01	2.26	2.44	2.26	2.01	2.08	2.04
175.0	2.29	2.46	2.67	2.46	2.29	2.35	2.28
177.5	2.31	2.63	2.77	2.63	2.31	2.60	2.50
180.0	2.52	2.52	2.52	2.52	2.52	2.52	2.52

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3807.04	N.A.	32.80
0-30	6845.83	N.A.	59.00
0-40	8951.54	N.A.	77.20
0-60	10688.75	N.A.	92.20
0-80	11328.18	N.A.	97.70
0-90	11453.89	N.A.	98.80
10-90	10377.05	N.A.	89.50
20-40	5144.5	N.A.	44.40
20-50	6260.06	N.A.	54.00
40-70	2131.93	N.A.	18.40
60-80	639.44	N.A.	5.50
70-80	244.71	N.A.	2.10
80-90	125.70	N.A.	1.10
90-110	96.43	N.A.	0.80
90-120	120.10	N.A.	1.00
90-130	133.73	N.A.	1.20
90-150	142.25	N.A.	1.20
90-180	143.40	N.A.	1.20
110-180	46.97	N.A.	0.40
0-180	11597.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1076.84
10-20	2730.2
20-30	3038.8
30-40	2105.71
40-50	1115.56
50-60	621.64
60-70	394.73
70-80	244.71
80-90	125.70
90-100	60.49
100-110	35.94
110-120	23.67
120-130	13.64
130-140	6.41
140-150	2.11
150-160	0.52
160-170	0.42
170-180	0.21

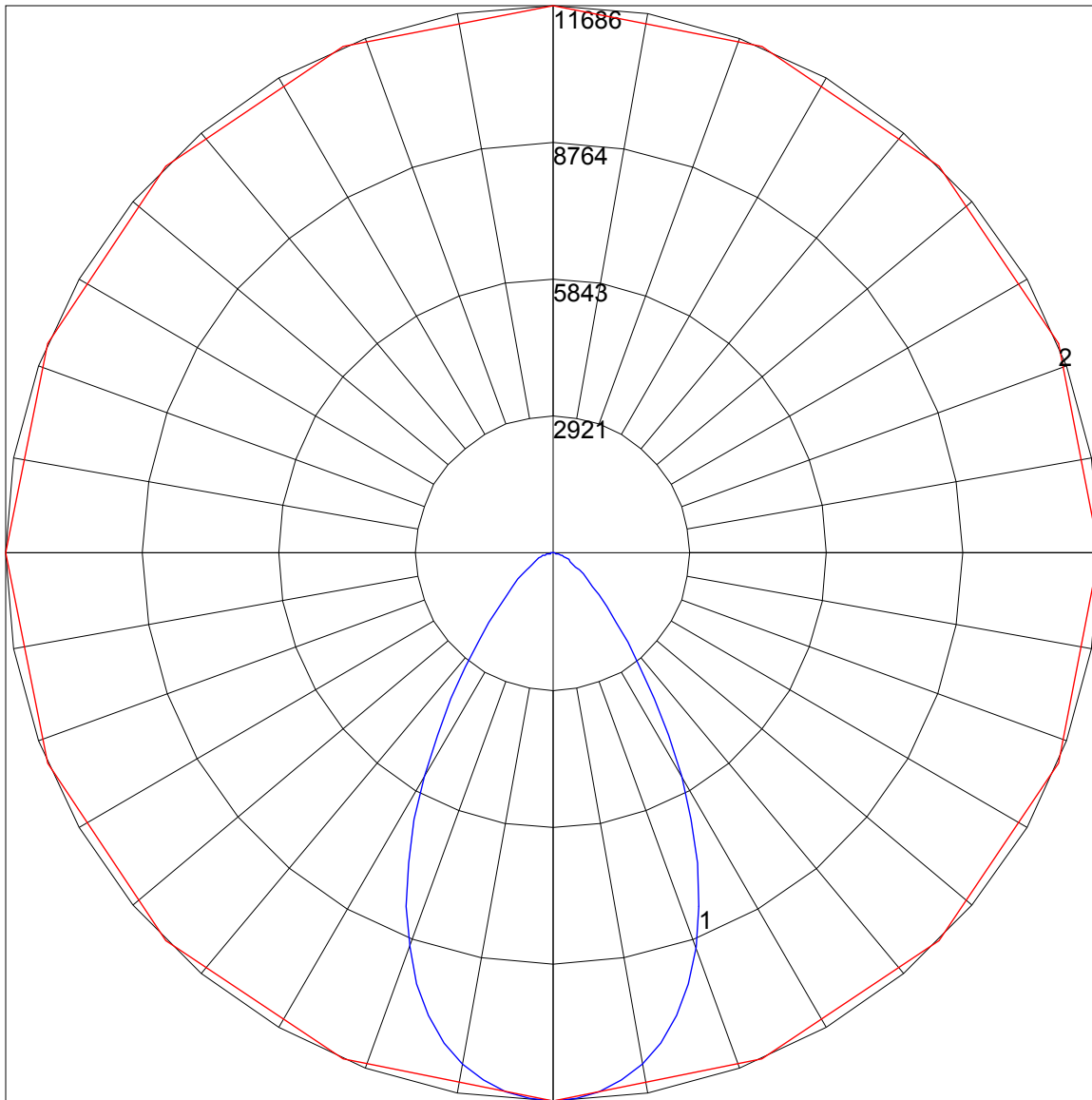
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	80	87	82	78	84	80	77	81	78	75	74
4	93	84	78	73	91	83	77	72	80	75	71	78	74	70	76	72	69	67
5	88	78	71	66	86	77	71	66	75	69	65	73	68	64	71	67	64	62
6	83	73	66	61	81	72	65	61	70	64	60	68	63	60	67	62	59	57
7	78	68	61	56	77	67	61	56	65	60	56	64	59	55	63	58	55	53
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	51	48	46
10	67	56	50	46	66	56	50	46	55	49	45	54	49	45	53	48	45	44

POLAR GRAPH



Maximum Candela = 11685.87 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.)