

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

IESNA:LM-63-2002

[TEST] FO33967.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 12/23/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX12LL40-UNV-W-LFP

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

[LAMP] LED. LUMINAIRE OUTPUT = 11400 LMS

[TESTDATE] 12/23/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11400
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	95.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.58
Spacing Criterion (90-270)	1.68
Spacing Criterion (Diagonal)	1.58
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	6662	5993	6163
55	5136	4455	4494
65	3639	2920	3244
75	2374	1815	1938
85	1016	955	1098

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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	3129.05	3129.05	3129.05	3129.05	3129.05	3129.05	3129.05	3129.05	3129.05	3129.05
2.5	3134.59	3134.51	3142.72	3144.30	3147.38	3144.30	3142.72	3134.51	3134.59	3134.51
5.0	3177.94	3173.84	3178.67	3176.58	3176.63	3176.58	3178.67	3173.84	3177.94	3173.84
7.5	3244.55	3236.93	3234.37	3224.34	3225.09	3224.34	3234.37	3236.93	3244.55	3236.93
10.0	3328.17	3318.55	3306.36	3293.22	3285.57	3293.22	3306.36	3318.55	3328.17	3318.55
12.5	3420.54	3411.21	3392.87	3367.63	3360.75	3367.63	3392.87	3411.21	3420.54	3411.21
15.0	3512.17	3506.00	3483.59	3451.78	3444.01	3451.78	3483.59	3506.00	3512.17	3506.00
17.5	3594.37	3591.16	3568.89	3538.81	3529.92	3538.81	3568.89	3591.16	3594.37	3591.16
20.0	3655.32	3658.36	3643.80	3620.34	3613.07	3620.34	3643.80	3658.36	3655.32	3658.36
22.5	3689.47	3698.04	3696.66	3691.28	3693.72	3691.28	3696.66	3698.04	3689.47	3698.04
25.0	3693.50	3709.79	3725.61	3740.17	3753.76	3740.17	3725.61	3709.79	3693.50	3709.79
27.5	3663.74	3690.47	3726.98	3766.06	3785.15	3766.06	3726.98	3690.47	3663.74	3690.47
30.0	3602.46	3639.52	3699.43	3762.84	3790.79	3762.84	3699.43	3639.52	3602.46	3639.52
32.5	3510.16	3559.38	3639.93	3721.34	3763.04	3721.34	3639.93	3559.38	3510.16	3559.38
35.0	3390.84	3452.90	3549.48	3649.01	3703.86	3649.01	3549.48	3452.90	3390.84	3452.90
37.5	3245.05	3318.55	3429.02	3548.53	3606.38	3548.53	3429.02	3318.55	3245.05	3318.55
40.0	3076.70	3158.62	3284.67	3416.88	3467.41	3416.88	3284.67	3158.62	3076.70	3158.62
42.5	2882.87	2975.89	3116.61	3244.01	3290.86	3244.01	3116.61	2975.89	2882.87	2975.89
45.0	2664.91	2772.60	2921.70	3032.81	3076.96	3032.81	2921.70	2772.60	2664.91	2772.60
47.5	2436.62	2548.00	2697.19	2797.76	2830.04	2797.76	2697.19	2548.00	2436.62	2548.00
50.0	2204.30	2314.47	2456.91	2544.11	2563.91	2544.11	2456.91	2314.47	2204.30	2314.47
52.5	1971.08	2081.41	2210.45	2272.16	2294.24	2272.16	2210.45	2081.41	1971.08	2081.41
55.0	1741.00	1851.12	1961.59	2007.82	2040.03	2007.82	1961.59	1851.12	1741.00	1851.12
57.5	1525.16	1629.28	1718.71	1775.52	1821.18	1775.52	1718.71	1629.28	1525.16	1629.28
60.0	1325.15	1417.17	1496.04	1570.15	1637.93	1570.15	1496.04	1417.17	1325.15	1417.17
62.5	1142.03	1220.28	1293.73	1384.90	1462.62	1384.90	1293.73	1220.28	1142.03	1220.28
65.0	973.93	1044.15	1108.93	1214.00	1281.10	1214.00	1108.93	1044.15	973.93	1044.15
67.5	821.71	885.72	945.37	1048.98	1098.53	1048.98	945.37	885.72	821.71	885.72
70.0	685.45	741.44	801.61	888.13	923.86	888.13	801.61	741.44	685.45	741.44
72.5	560.30	610.72	674.56	740.24	763.70	740.24	674.56	610.72	560.30	610.72
75.0	446.79	493.44	558.35	610.29	627.38	610.29	558.35	493.44	446.79	493.44
77.5	343.85	388.01	453.65	496.93	512.35	496.93	453.65	388.01	343.85	388.01
80.0	251.75	293.95	361.75	402.03	413.96	402.03	361.75	293.95	251.75	293.95
82.5	171.08	211.68	282.06	323.22	333.12	323.22	282.06	211.68	171.08	211.68
85.0	104.61	145.11	215.97	256.61	266.75	256.61	215.97	145.11	104.61	145.11
87.5	58.02	99.26	167.40	205.29	215.19	205.29	167.40	99.26	58.02	99.26
90.0	39.93	71.35	130.70	164.27	172.76	164.27	130.70	71.35	39.93	71.35
92.5	37.92	57.87	104.88	134.12	141.40	134.12	104.88	57.87	37.92	57.87
95.0	37.37	53.37	87.93	112.62	119.38	112.62	87.93	53.37	37.37	53.37
97.5	37.08	50.07	78.75	98.53	104.48	98.53	78.75	50.07	37.08	50.07
100.0	36.60	47.02	73.50	90.90	96.09	90.90	73.50	47.02	36.60	47.02
102.5	35.41	44.19	69.71	87.24	92.32	87.24	69.71	44.19	35.41	44.19
105.0	33.78	41.60	66.81	84.94	90.57	84.94	66.81	41.60	33.78	41.60
107.5	31.89	39.00	64.03	82.57	88.80	82.57	64.03	39.00	31.89	39.00
110.0	29.71	36.24	61.28	79.98	86.54	79.98	61.28	36.24	29.71	36.24
112.5	27.28	33.17	58.29	76.92	83.73	76.92	58.29	33.17	27.28	33.17
115.0	24.77	29.84	54.96	73.35	80.15	73.35	54.96	29.84	24.77	29.84
117.5	22.32	26.46	51.41	69.47	76.21	69.47	51.41	26.46	22.32	26.46
120.0	19.97	23.00	47.73	65.62	72.26	65.62	47.73	23.00	19.97	23.00
122.5	17.64	19.63	44.03	61.51	67.57	61.51	44.03	19.63	17.64	19.63
125.0	15.38	16.41	40.04	56.97	63.17	56.97	40.04	16.41	15.38	16.41
127.5	13.24	13.06	35.71	52.90	59.33	52.90	35.71	13.06	13.24	13.06
130.0	11.30	10.27	31.35	48.92	55.00	48.92	31.35	10.27	11.30	10.27
132.5	9.58	8.45	27.03	44.46	50.29	44.46	27.03	8.45	9.58	8.45

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CANDELA TABULATION - (Cont.)

135.0	8.00	6.95	22.45	39.86	45.49	39.86	22.45	6.95	8.00	6.95
137.5	6.57	5.67	17.89	34.94	40.60	34.94	17.89	5.67	6.57	5.67
140.0	5.23	4.45	13.53	30.00	35.37	30.00	13.53	4.45	5.23	4.45
142.5	3.99	3.34	9.56	24.91	29.98	24.91	9.56	3.34	3.99	3.34
145.0	2.91	2.35	5.87	19.82	24.56	19.82	5.87	2.35	2.91	2.35
147.5	1.93	1.51	2.88	14.86	19.36	14.86	2.88	1.51	1.93	1.51
150.0	1.18	0.84	0.93	10.26	14.21	10.26	0.93	0.84	1.18	0.84
152.5	0.57	0.33	0.70	6.01	9.24	6.01	0.70	0.33	0.57	0.33
155.0	0.12	0.19	0.54	2.17	4.89	2.17	0.54	0.19	0.12	0.19
157.5	0.09	0.17	0.41	0.87	1.79	0.87	0.41	0.17	0.09	0.17
160.0	0.15	0.19	0.33	0.62	0.85	0.62	0.33	0.19	0.15	0.19
162.5	0.15	0.17	0.25	0.43	0.55	0.43	0.25	0.17	0.15	0.17
165.0	0.14	0.14	0.17	0.27	0.33	0.27	0.17	0.14	0.14	0.14
167.5	0.07	0.05	0.06	0.14	0.18	0.14	0.06	0.05	0.07	0.05
170.0	0.06	0.02	0.00	0.06	0.09	0.06	0.00	0.02	0.06	0.02
172.5	0.15	0.09	0.03	0.05	0.08	0.05	0.03	0.09	0.15	0.09
175.0	0.21	0.16	0.07	0.06	0.09	0.06	0.07	0.16	0.21	0.16
177.5	0.28	0.23	0.06	0.07	0.11	0.07	0.06	0.23	0.28	0.23
180.0	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14

**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	3129.05	3129.05	3129.05	3129.05	3129.05	3129.05	3129.05
2.5	3142.72	3144.30	3147.38	3144.30	3142.72	3134.51	3134.59
5.0	3178.67	3176.58	3176.63	3176.58	3178.67	3173.84	3177.94
7.5	3234.37	3224.34	3225.09	3224.34	3234.37	3236.93	3244.55
10.0	3306.36	3293.22	3285.57	3293.22	3306.36	3318.55	3328.17
12.5	3392.87	3367.63	3360.75	3367.63	3392.87	3411.21	3420.54
15.0	3483.59	3451.78	3444.01	3451.78	3483.59	3506.00	3512.17
17.5	3568.89	3538.81	3529.92	3538.81	3568.89	3591.16	3594.37
20.0	3643.80	3620.34	3613.07	3620.34	3643.80	3658.36	3655.32
22.5	3696.66	3691.28	3693.72	3691.28	3696.66	3698.04	3689.47
25.0	3725.61	3740.17	3753.76	3740.17	3725.61	3709.79	3693.50
27.5	3726.98	3766.06	3785.15	3766.06	3726.98	3690.47	3663.74
30.0	3699.43	3762.84	3790.79	3762.84	3699.43	3639.52	3602.46
32.5	3639.93	3721.34	3763.04	3721.34	3639.93	3559.38	3510.16
35.0	3549.48	3649.01	3703.86	3649.01	3549.48	3452.90	3390.84
37.5	3429.02	3548.53	3606.38	3548.53	3429.02	3318.55	3245.05
40.0	3284.67	3416.88	3467.41	3416.88	3284.67	3158.62	3076.70
42.5	3116.61	3244.01	3290.86	3244.01	3116.61	2975.89	2882.87
45.0	2921.70	3032.81	3076.96	3032.81	2921.70	2772.60	2664.91
47.5	2697.19	2797.76	2830.04	2797.76	2697.19	2548.00	2436.62
50.0	2456.91	2544.11	2563.91	2544.11	2456.91	2314.47	2204.30
52.5	2210.45	2272.16	2294.24	2272.16	2210.45	2081.41	1971.08
55.0	1961.59	2007.82	2040.03	2007.82	1961.59	1851.12	1741.00
57.5	1718.71	1775.52	1821.18	1775.52	1718.71	1629.28	1525.16
60.0	1496.04	1570.15	1637.93	1570.15	1496.04	1417.17	1325.15
62.5	1293.73	1384.90	1462.62	1384.90	1293.73	1220.28	1142.03
65.0	1108.93	1214.00	1281.10	1214.00	1108.93	1044.15	973.93
67.5	945.37	1048.98	1098.53	1048.98	945.37	885.72	821.71
70.0	801.61	888.13	923.86	888.13	801.61	741.44	685.45
72.5	674.56	740.24	763.70	740.24	674.56	610.72	560.30
75.0	558.35	610.29	627.38	610.29	558.35	493.44	446.79
77.5	453.65	496.93	512.35	496.93	453.65	388.01	343.85
80.0	361.75	402.03	413.96	402.03	361.75	293.95	251.75

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CANDELA TABULATION - (Cont.)

82.5	282.06	323.22	333.12	323.22	282.06	211.68	171.08
85.0	215.97	256.61	266.75	256.61	215.97	145.11	104.61
87.5	167.40	205.29	215.19	205.29	167.40	99.26	58.02
90.0	130.70	164.27	172.76	164.27	130.70	71.35	39.93
92.5	104.88	134.12	141.40	134.12	104.88	57.87	37.92
95.0	87.93	112.62	119.38	112.62	87.93	53.37	37.37
97.5	78.75	98.53	104.48	98.53	78.75	50.07	37.08
100.0	73.50	90.90	96.09	90.90	73.50	47.02	36.60
102.5	69.71	87.24	92.32	87.24	69.71	44.19	35.41
105.0	66.81	84.94	90.57	84.94	66.81	41.60	33.78
107.5	64.03	82.57	88.80	82.57	64.03	39.00	31.89
110.0	61.28	79.98	86.54	79.98	61.28	36.24	29.71
112.5	58.29	76.92	83.73	76.92	58.29	33.17	27.28
115.0	54.96	73.35	80.15	73.35	54.96	29.84	24.77
117.5	51.41	69.47	76.21	69.47	51.41	26.46	22.32
120.0	47.73	65.62	72.26	65.62	47.73	23.00	19.97
122.5	44.03	61.51	67.57	61.51	44.03	19.63	17.64
125.0	40.04	56.97	63.17	56.97	40.04	16.41	15.38
127.5	35.71	52.90	59.33	52.90	35.71	13.06	13.24
130.0	31.35	48.92	55.00	48.92	31.35	10.27	11.30
132.5	27.03	44.46	50.29	44.46	27.03	8.45	9.58
135.0	22.45	39.86	45.49	39.86	22.45	6.95	8.00
137.5	17.89	34.94	40.60	34.94	17.89	5.67	6.57
140.0	13.53	30.00	35.37	30.00	13.53	4.45	5.23
142.5	9.56	24.91	29.98	24.91	9.56	3.34	3.99
145.0	5.87	19.82	24.56	19.82	5.87	2.35	2.91
147.5	2.88	14.86	19.36	14.86	2.88	1.51	1.93
150.0	0.93	10.26	14.21	10.26	0.93	0.84	1.18
152.5	0.70	6.01	9.24	6.01	0.70	0.33	0.57
155.0	0.54	2.17	4.89	2.17	0.54	0.19	0.12
157.5	0.41	0.87	1.79	0.87	0.41	0.17	0.09
160.0	0.33	0.62	0.85	0.62	0.33	0.19	0.15
162.5	0.25	0.43	0.55	0.43	0.25	0.17	0.15
165.0	0.17	0.27	0.33	0.27	0.17	0.14	0.14
167.5	0.06	0.14	0.18	0.14	0.06	0.05	0.07
170.0	0.00	0.06	0.09	0.06	0.00	0.02	0.06
172.5	0.03	0.05	0.08	0.05	0.03	0.09	0.15
175.0	0.07	0.06	0.09	0.06	0.07	0.16	0.21
177.5	0.06	0.07	0.11	0.07	0.06	0.23	0.28
180.0	0.14	0.14	0.14	0.14	0.14	0.14	0.14

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1297.9	N.A.	11.40
0-30	3013.16	N.A.	26.40
0-40	5224.15	N.A.	45.80
0-60	9179.3	N.A.	80.50
0-80	10891.22	N.A.	95.50
0-90	11123.63	N.A.	97.60
10-90	10816.26	N.A.	94.90
20-40	3926.25	N.A.	34.40
20-50	6149.16	N.A.	53.90
40-70	5075.99	N.A.	44.50
60-80	1711.92	N.A.	15.00
70-80	591.08	N.A.	5.20
80-90	232.40	N.A.	2.00
90-110	162.68	N.A.	1.40
90-120	214.89	N.A.	1.90
90-130	249.30	N.A.	2.20
90-150	274.88	N.A.	2.40
90-180	275.89	N.A.	2.40
110-180	113.21	N.A.	1.00
0-180	11399.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	307.36
10-20	990.54
20-30	1715.25
30-40	2211.00
40-50	2222.91
50-60	1732.24
60-70	1120.85
70-80	591.08
80-90	232.40
90-100	94.99
100-110	67.69
110-120	52.21
120-130	34.42
130-140	18.73
140-150	6.84
150-160	0.94
160-170	0.06
170-180	0.01

IES INDOOR REPORT

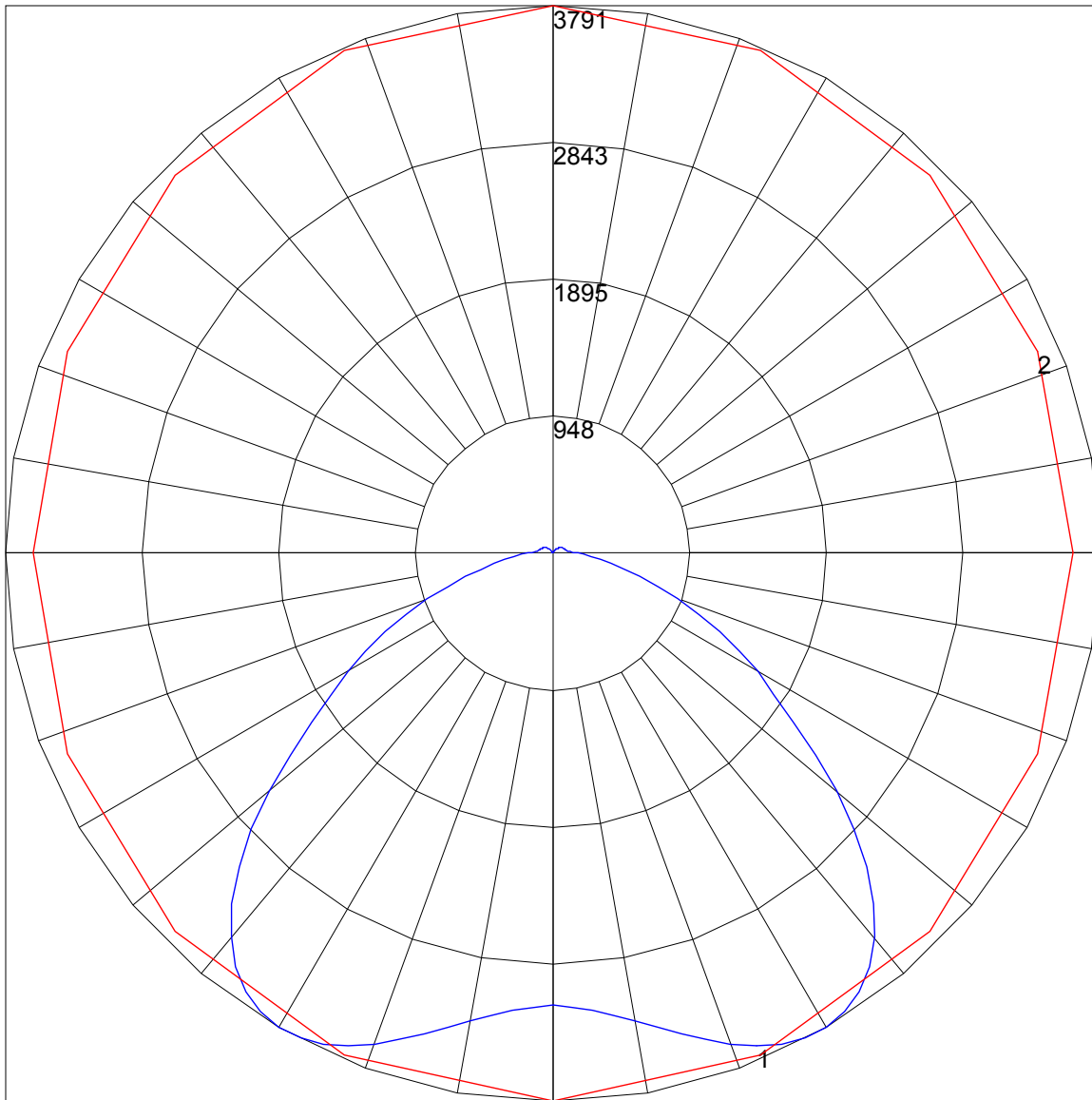
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	105	105	105	100	100	100	98
1	109	104	100	96	106	101	98	94	97	94	91	92	90	88	88	86	85	82
2	99	91	84	79	96	89	83	78	85	80	76	81	77	73	78	75	71	69
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59
4	83	71	63	56	80	70	62	55	67	60	54	64	58	53	62	57	52	50
5	76	64	55	48	74	62	54	48	60	53	47	58	51	46	56	50	46	43
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	50	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	47	41	36	46	40	35	33
8	60	47	39	33	59	46	38	33	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 3790.79 Located At Horizontal Angle = 90, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)