

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

IESNA:LM-63-2002

[TEST] FO33941.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 12/17/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX12LL40-UNV-LCP

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

[LAMP] LED. LUMINAIRE OUTPUT = 11541 LMS

[TESTDATE] 12/17/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11541
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	95.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.44
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	6796	5794	5513
55	6162	4847	3148
65	5028	1952	4203
75	3218	2947	2760
85	1262	1345	1875

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX12LL40-UNV-LCP.IES

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	3875.22	3875.22	3875.22	3875.22	3875.22	3875.22	3875.22	3875.22	3875.22	3875.22
2.5	3870.51	3866.55	3871.24	3869.84	3862.72	3869.84	3871.24	3866.55	3870.51	3866.55
5.0	3861.93	3853.53	3866.85	3868.91	3859.63	3868.91	3866.85	3853.53	3861.93	3853.53
7.5	3847.74	3839.09	3859.05	3863.54	3859.26	3863.54	3859.05	3839.09	3847.74	3839.09
10.0	3825.47	3817.54	3839.35	3843.97	3840.89	3843.97	3839.35	3817.54	3825.47	3817.54
12.5	3793.81	3796.94	3812.55	3817.46	3817.64	3817.46	3812.55	3796.94	3793.81	3796.94
15.0	3759.37	3772.28	3780.91	3782.84	3788.70	3782.84	3780.91	3772.28	3759.37	3772.28
17.5	3716.68	3734.74	3738.45	3739.89	3734.87	3739.89	3738.45	3734.74	3716.68	3734.74
20.0	3668.12	3684.42	3689.55	3681.18	3686.40	3681.18	3689.55	3684.42	3668.12	3684.42
22.5	3608.04	3622.37	3629.71	3625.36	3627.49	3625.36	3629.71	3622.37	3608.04	3622.37
25.0	3546.87	3563.62	3564.67	3561.60	3554.31	3561.60	3564.67	3563.62	3546.87	3563.62
27.5	3480.61	3493.11	3487.64	3487.39	3479.57	3487.39	3487.64	3493.11	3480.61	3493.11
30.0	3403.69	3411.11	3410.78	3405.23	3402.17	3405.23	3410.78	3411.11	3403.69	3411.11
32.5	3317.39	3327.80	3321.04	3314.41	3319.45	3314.41	3321.04	3327.80	3317.39	3327.80
35.0	3213.13	3233.90	3225.69	3212.78	3258.45	3212.78	3225.69	3233.90	3213.13	3233.90
37.5	3095.86	3119.22	3111.46	3173.80	3149.99	3173.80	3111.46	3119.22	3095.86	3119.22
40.0	2984.12	2997.57	2996.52	3089.38	3074.45	3089.38	2996.52	2997.57	2984.12	2997.57
42.5	2856.02	2879.51	2902.89	2932.27	2899.12	2932.27	2902.89	2879.51	2856.02	2879.51
45.0	2718.38	2736.71	2824.58	2789.30	2752.78	2789.30	2824.58	2736.71	2718.38	2736.71
47.5	2572.55	2590.20	2655.28	2612.99	2630.95	2612.99	2655.28	2590.20	2572.55	2590.20
50.0	2414.12	2437.93	2485.19	2502.91	2539.55	2502.91	2485.19	2437.93	2414.12	2437.93
52.5	2253.64	2277.04	2339.55	2385.18	2272.03	2385.18	2339.55	2277.04	2253.64	2277.04
55.0	2088.59	2128.75	2134.43	2099.38	1428.94	2099.38	2134.43	2128.75	2088.59	2128.75
57.5	1906.50	1933.16	1996.25	1067.96	1059.39	1067.96	1996.25	1933.16	1906.50	1933.16
60.0	1723.59	1753.37	1820.18	982.04	1183.34	982.04	1820.18	1753.37	1723.59	1753.37
62.5	1538.76	1564.59	1489.94	1055.79	1466.86	1055.79	1489.94	1564.59	1538.76	1564.59
65.0	1345.67	1368.96	741.50	1514.91	1659.88	1514.91	741.50	1368.96	1345.67	1368.96
67.5	1153.49	1174.31	675.16	1523.93	1434.65	1523.93	675.16	1174.31	1153.49	1174.31
70.0	961.20	974.35	658.13	1181.10	1186.19	1181.10	658.13	974.35	961.20	974.35
72.5	779.30	816.21	982.48	1086.63	1159.23	1086.63	982.48	816.21	779.30	816.21
75.0	605.45	520.65	906.68	907.53	893.68	907.53	906.68	520.65	605.45	520.65
77.5	443.47	303.70	733.75	577.61	611.90	577.61	733.75	303.70	443.47	303.70
80.0	308.11	232.63	491.05	460.25	538.78	460.25	491.05	232.63	308.11	232.63
82.5	203.17	175.15	418.31	485.76	513.96	485.76	418.31	175.15	203.17	175.15
85.0	129.93	165.38	304.36	446.76	455.29	446.76	304.36	165.38	129.93	165.38
87.5	85.14	187.51	322.71	322.49	340.60	322.49	322.71	187.51	85.14	187.51
90.0	53.70	134.53	204.41	169.56	174.08	169.56	204.41	134.53	53.70	134.53
92.5	44.31	96.69	92.11	64.30	66.73	64.30	92.11	96.69	44.31	96.69
95.0	52.19	59.46	40.91	43.66	50.05	43.66	40.91	59.46	52.19	59.46
97.5	64.14	32.95	34.73	50.01	56.12	50.01	34.73	32.95	64.14	32.95
100.0	68.06	32.17	43.62	58.51	58.50	58.51	43.62	32.17	68.06	32.17
102.5	65.44	32.61	31.56	39.40	44.61	39.40	31.56	32.61	65.44	32.61
105.0	59.76	35.57	24.99	26.34	27.46	26.34	24.99	35.57	59.76	35.57
107.5	53.01	36.27	22.17	22.73	23.63	22.73	22.17	36.27	53.01	36.27
110.0	46.14	34.10	20.06	19.95	21.84	19.95	20.06	34.10	46.14	34.10
112.5	39.60	30.41	18.88	17.85	18.93	17.85	18.88	30.41	39.60	30.41
115.0	33.68	27.01	17.86	15.69	16.85	15.69	17.86	27.01	33.68	27.01
117.5	28.62	25.27	16.76	14.39	15.05	14.39	16.76	25.27	28.62	25.27
120.0	24.29	26.52	15.81	12.86	13.71	12.86	15.81	26.52	24.29	26.52
122.5	20.33	22.39	16.66	11.79	12.18	11.79	16.66	22.39	20.33	22.39
125.0	16.81	16.27	27.40	11.48	11.27	11.48	27.40	16.27	16.81	16.27
127.5	13.62	12.36	63.21	14.41	12.48	14.41	63.21	12.36	13.62	12.36
130.0	10.95	9.70	39.69	36.89	22.83	36.89	39.69	9.70	10.95	9.70
132.5	8.65	7.93	17.09	76.69	69.59	76.69	17.09	7.93	8.65	7.93

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX12LL40-UNV-LCP.IES

CANDELA TABULATION - (Cont.)

135.0	6.71	6.08	10.39	51.85	69.06	51.85	10.39	6.08	6.71	6.08
137.5	5.06	4.56	6.58	22.21	42.43	22.21	6.58	4.56	5.06	4.56
140.0	3.68	3.29	4.00	11.46	18.53	11.46	4.00	3.29	3.68	3.29
142.5	2.52	2.26	2.36	6.96	10.00	6.96	2.36	2.26	2.52	2.26
145.0	1.65	1.40	1.41	4.39	5.97	4.39	1.41	1.40	1.65	1.40
147.5	0.98	0.77	0.78	2.91	3.84	2.91	0.78	0.77	0.98	0.77
150.0	0.48	0.31	0.48	1.88	2.61	1.88	0.48	0.31	0.48	0.31
152.5	0.17	0.18	0.31	1.14	1.69	1.14	0.31	0.18	0.17	0.18
155.0	0.10	0.14	0.22	0.62	1.01	0.62	0.22	0.14	0.10	0.14
157.5	0.09	0.14	0.14	0.41	0.65	0.41	0.14	0.14	0.09	0.14
160.0	0.10	0.14	0.13	0.28	0.41	0.28	0.13	0.14	0.10	0.14
162.5	0.08	0.10	0.12	0.19	0.28	0.19	0.12	0.10	0.08	0.10
165.0	0.08	0.10	0.09	0.16	0.19	0.16	0.09	0.10	0.08	0.10
167.5	0.02	0.02	0.01	0.10	0.13	0.10	0.01	0.02	0.02	0.02
170.0	0.03	0.01	0.00	0.07	0.10	0.07	0.00	0.01	0.03	0.01
172.5	0.12	0.10	0.08	0.13	0.13	0.13	0.08	0.10	0.12	0.10
175.0	0.21	0.20	0.16	0.17	0.17	0.17	0.16	0.20	0.21	0.20
177.5	0.28	0.26	0.14	0.19	0.20	0.19	0.14	0.26	0.28	0.26
180.0	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21

**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	3875.22	3875.22	3875.22	3875.22	3875.22	3875.22	3875.22
2.5	3871.24	3869.84	3862.72	3869.84	3871.24	3866.55	3870.51
5.0	3866.85	3868.91	3859.63	3868.91	3866.85	3853.53	3861.93
7.5	3859.05	3863.54	3859.26	3863.54	3859.05	3839.09	3847.74
10.0	3839.35	3843.97	3840.89	3843.97	3839.35	3817.54	3825.47
12.5	3812.55	3817.46	3817.64	3817.46	3812.55	3796.94	3793.81
15.0	3780.91	3782.84	3788.70	3782.84	3780.91	3772.28	3759.37
17.5	3738.45	3739.89	3734.87	3739.89	3738.45	3734.74	3716.68
20.0	3689.55	3681.18	3686.40	3681.18	3689.55	3684.42	3668.12
22.5	3629.71	3625.36	3627.49	3625.36	3629.71	3622.37	3608.04
25.0	3564.67	3561.60	3554.31	3561.60	3564.67	3563.62	3546.87
27.5	3487.64	3487.39	3479.57	3487.39	3487.64	3493.11	3480.61
30.0	3410.78	3405.23	3402.17	3405.23	3410.78	3411.11	3403.69
32.5	3321.04	3314.41	3319.45	3314.41	3321.04	3327.80	3317.39
35.0	3225.69	3212.78	3258.45	3212.78	3225.69	3233.90	3213.13
37.5	3111.46	3173.80	3149.99	3173.80	3111.46	3119.22	3095.86
40.0	2996.52	3089.38	3074.45	3089.38	2996.52	2997.57	2984.12
42.5	2902.89	2932.27	2899.12	2932.27	2902.89	2879.51	2856.02
45.0	2824.58	2789.30	2752.78	2789.30	2824.58	2736.71	2718.38
47.5	2655.28	2612.99	2630.95	2612.99	2655.28	2590.20	2572.55
50.0	2485.19	2502.91	2539.55	2502.91	2485.19	2437.93	2414.12
52.5	2339.55	2385.18	2272.03	2385.18	2339.55	2277.04	2253.64
55.0	2134.43	2099.38	1428.94	2099.38	2134.43	2128.75	2088.59
57.5	1996.25	1067.96	1059.39	1067.96	1996.25	1933.16	1906.50
60.0	1820.18	982.04	1183.34	982.04	1820.18	1753.37	1723.59
62.5	1489.94	1055.79	1466.86	1055.79	1489.94	1564.59	1538.76
65.0	741.50	1514.91	1659.88	1514.91	741.50	1368.96	1345.67
67.5	675.16	1523.93	1434.65	1523.93	675.16	1174.31	1153.49
70.0	658.13	1181.10	1186.19	1181.10	658.13	974.35	961.20
72.5	982.48	1086.63	1159.23	1086.63	982.48	816.21	779.30
75.0	906.68	907.53	893.68	907.53	906.68	520.65	605.45
77.5	733.75	577.61	611.90	577.61	733.75	303.70	443.47
80.0	491.05	460.25	538.78	460.25	491.05	232.63	308.11

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX12LL40-UNV-LCP.IES

CANDELA TABULATION - (Cont.)

82.5	418.31	485.76	513.96	485.76	418.31	175.15	203.17
85.0	304.36	446.76	455.29	446.76	304.36	165.38	129.93
87.5	322.71	322.49	340.60	322.49	322.71	187.51	85.14
90.0	204.41	169.56	174.08	169.56	204.41	134.53	53.70
92.5	92.11	64.30	66.73	64.30	92.11	96.69	44.31
95.0	40.91	43.66	50.05	43.66	40.91	59.46	52.19
97.5	34.73	50.01	56.12	50.01	34.73	32.95	64.14
100.0	43.62	58.51	58.50	58.51	43.62	32.17	68.06
102.5	31.56	39.40	44.61	39.40	31.56	32.61	65.44
105.0	24.99	26.34	27.46	26.34	24.99	35.57	59.76
107.5	22.17	22.73	23.63	22.73	22.17	36.27	53.01
110.0	20.06	19.95	21.84	19.95	20.06	34.10	46.14
112.5	18.88	17.85	18.93	17.85	18.88	30.41	39.60
115.0	17.86	15.69	16.85	15.69	17.86	27.01	33.68
117.5	16.76	14.39	15.05	14.39	16.76	25.27	28.62
120.0	15.81	12.86	13.71	12.86	15.81	26.52	24.29
122.5	16.66	11.79	12.18	11.79	16.66	22.39	20.33
125.0	27.40	11.48	11.27	11.48	27.40	16.27	16.81
127.5	63.21	14.41	12.48	14.41	63.21	12.36	13.62
130.0	39.69	36.89	22.83	36.89	39.69	9.70	10.95
132.5	17.09	76.69	69.59	76.69	17.09	7.93	8.65
135.0	10.39	51.85	69.06	51.85	10.39	6.08	6.71
137.5	6.58	22.21	42.43	22.21	6.58	4.56	5.06
140.0	4.00	11.46	18.53	11.46	4.00	3.29	3.68
142.5	2.36	6.96	10.00	6.96	2.36	2.26	2.52
145.0	1.41	4.39	5.97	4.39	1.41	1.40	1.65
147.5	0.78	2.91	3.84	2.91	0.78	0.77	0.98
150.0	0.48	1.88	2.61	1.88	0.48	0.31	0.48
152.5	0.31	1.14	1.69	1.14	0.31	0.18	0.17
155.0	0.22	0.62	1.01	0.62	0.22	0.14	0.10
157.5	0.14	0.41	0.65	0.41	0.14	0.14	0.09
160.0	0.13	0.28	0.41	0.28	0.13	0.14	0.10
162.5	0.12	0.19	0.28	0.19	0.12	0.10	0.08
165.0	0.09	0.16	0.19	0.16	0.09	0.10	0.08
167.5	0.01	0.10	0.13	0.10	0.01	0.02	0.02
170.0	0.00	0.07	0.10	0.07	0.00	0.01	0.03
172.5	0.08	0.13	0.13	0.13	0.08	0.10	0.12
175.0	0.16	0.17	0.17	0.17	0.16	0.20	0.21
177.5	0.14	0.19	0.20	0.19	0.14	0.26	0.28
180.0	0.21	0.21	0.21	0.21	0.21	0.21	0.21

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX12LL40-UNV-LCP.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1434.32	N.A.	12.40
0-30	3075.66	N.A.	26.60
0-40	5096.52	N.A.	44.20
0-60	9002.03	N.A.	78.00
0-80	11041.26	N.A.	95.70
0-90	11368.79	N.A.	98.50
10-90	11000.9	N.A.	95.30
20-40	3662.2	N.A.	31.70
20-50	5793.12	N.A.	50.20
40-70	5165.23	N.A.	44.80
60-80	2039.23	N.A.	17.70
70-80	779.51	N.A.	6.80
80-90	327.53	N.A.	2.80
90-110	111.74	N.A.	1.00
90-120	133.61	N.A.	1.20
90-130	151.90	N.A.	1.30
90-150	172.28	N.A.	1.50
90-180	172.56	N.A.	1.50
110-180	60.82	N.A.	0.50
0-180	11541.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	367.89
10-20	1066.43
20-30	1641.34
30-40	2020.86
40-50	2130.92
50-60	1774.58
60-70	1259.72
70-80	779.51
80-90	327.53
90-100	74.54
100-110	37.20
110-120	21.87
120-130	18.29
130-140	18.24
140-150	2.14
150-160	0.23
160-170	0.03
170-180	0.01

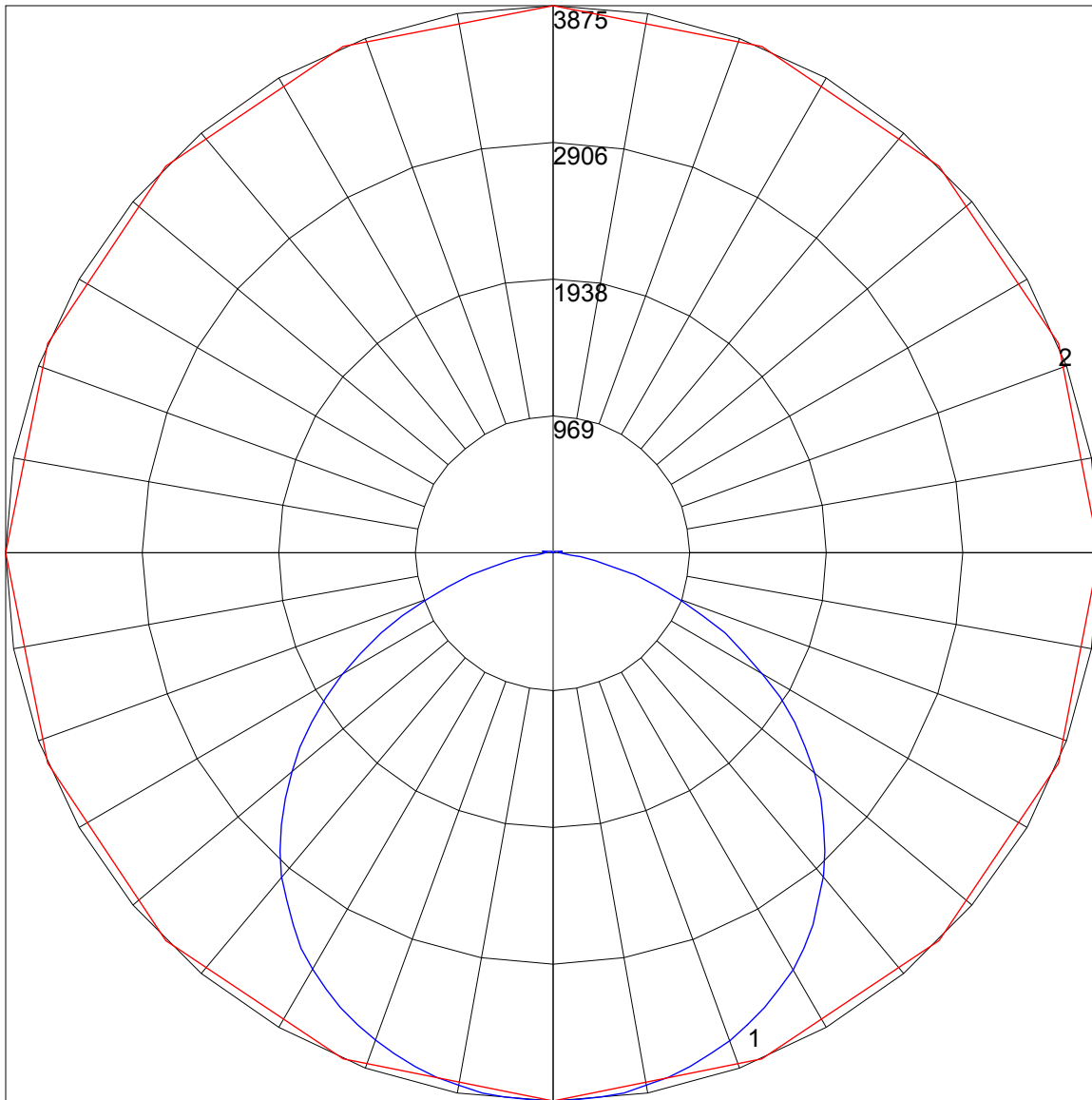
IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX12LL40-UNV-LCP.IES

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	108	103	99	95	105	101	97	93	96	93	90	92	89	87	88	86	84	82
2	98	90	83	77	96	88	82	76	84	79	74	81	76	72	77	74	70	68
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	68	64	60	58
4	82	70	61	55	80	69	60	54	66	59	53	63	57	52	61	56	51	49
5	76	63	54	47	73	61	53	47	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	45	39	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	38	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 3875.22 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.)