

PHILIPS**PHILIPS****Day-Brite****CFI****IES INDOOR REPORT****PHOTOMETRIC FILENAME : APX24LL40-UNV-A.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] FO33743.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/29/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX24LL40-UNV-A

[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K 2-95W DRIVERS NO RESISTORS AISLE OPTICS DIRA LENS

[LAMP] LED. LUMINAIRE OUTPUT = 23135 LMS

[TESTDATE] 10/29/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	23135
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	191.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	2.46
Spacing Criterion (Diagonal)	2.06
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	6324	16673	23034
55	2783	16845	16112
65	2359	3387	14924
75	1636	1730	4903
85	1129	1205	2053

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX24LL40-UNV-A.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	5104.50	5104.50	5104.50	5104.50	5104.50	5104.50	5104.50	5104.50	5104.50	5104.50
2.5	5071.93	5083.49	5118.48	5153.39	5183.36	5153.39	5118.48	5083.49	5071.93	5083.49
5.0	5056.28	5087.77	5172.20	5258.53	5301.79	5258.53	5172.20	5087.77	5056.28	5087.77
7.5	5028.30	5094.07	5253.44	5419.07	5490.41	5419.07	5253.44	5094.07	5028.30	5094.07
10.0	4981.91	5099.57	5369.41	5638.65	5724.30	5638.65	5369.41	5099.57	4981.91	5099.57
12.5	4925.80	5108.49	5512.86	5885.60	6014.48	5885.60	5512.86	5108.49	4925.80	5108.49
15.0	4854.62	5115.58	5673.10	6176.64	6328.55	6176.64	5673.10	5115.58	4854.62	5115.58
17.5	4765.51	5117.65	5851.41	6499.72	6683.98	6499.72	5851.41	5117.65	4765.51	5117.65
20.0	4660.86	5108.89	6052.38	6840.62	7079.57	6840.62	6052.38	5108.89	4660.86	5108.89
22.5	4530.29	5093.94	6246.66	7206.89	7467.85	7206.89	6246.66	5093.94	4530.29	5093.94
25.0	4382.57	5075.29	6449.32	7558.30	7859.09	7558.30	6449.32	5075.29	4382.57	5075.29
27.5	4208.82	5035.42	6657.22	7935.35	8244.26	7935.35	6657.22	5035.42	4208.82	5035.42
30.0	4004.82	4974.01	6848.78	8316.20	8667.77	8316.20	6848.78	4974.01	4004.82	4974.01
32.5	3778.77	4891.85	7049.45	8694.28	9113.82	8694.28	7049.45	4891.85	3778.77	4891.85
35.0	3524.41	4778.81	7232.41	9066.05	9481.39	9066.05	7232.41	4778.81	3524.41	4778.81
37.5	3245.69	4639.34	7382.11	9393.02	9823.19	9393.02	7382.11	4639.34	3245.69	4639.34
40.0	2955.11	4470.22	7511.58	9660.53	10088.61	9660.53	7511.58	4470.22	2955.11	4470.22
42.5	2646.62	4287.06	7595.66	9835.85	10353.20	9835.85	7595.66	4287.06	2646.62	4287.06
45.0	2330.51	4096.26	7619.00	10190.30	10850.80	10190.30	7619.00	4096.26	2330.51	4096.26
47.5	2002.24	3891.95	7547.05	10395.85	10746.40	10395.85	7547.05	3891.95	2002.24	3891.95
50.0	1605.48	3631.39	7452.52	10066.97	10510.20	10066.97	7452.52	3631.39	1605.48	3631.39
52.5	1181.74	3168.14	7384.00	9290.16	8869.16	9290.16	7384.00	3168.14	1181.74	3168.14
55.0	869.07	2331.69	6986.57	6911.93	6946.02	6911.93	6986.57	2331.69	869.07	2331.69
57.5	747.76	1432.09	6225.87	5542.48	5502.70	5542.48	6225.87	1432.09	747.76	1432.09
60.0	690.85	950.66	4703.78	3782.05	5317.06	3782.05	4703.78	950.66	690.85	950.66
62.5	637.57	777.08	2668.66	4380.32	6374.83	4380.32	2668.66	777.08	637.57	777.08
65.0	581.73	653.89	1219.24	4288.89	5641.70	4288.89	1219.24	653.89	581.73	653.89
67.5	519.56	549.46	881.65	3905.28	4599.20	3905.28	549.46	519.56	549.46	881.65
70.0	445.49	445.53	1068.47	2616.19	3467.97	2616.19	1068.47	445.53	445.49	445.53
72.5	359.49	360.83	695.76	1752.37	2427.95	1752.37	695.76	360.83	359.49	360.83
75.0	283.53	287.92	509.07	1164.89	1536.85	1164.89	509.07	287.92	283.53	287.92
77.5	224.80	234.28	419.74	665.47	879.23	665.47	419.74	234.28	224.80	234.28
80.0	181.27	209.74	302.00	496.60	616.51	496.60	302.00	209.74	181.27	209.74
82.5	143.61	196.52	264.23	486.14	534.70	486.14	264.23	196.52	143.61	196.52
85.0	107.09	155.72	264.58	453.47	491.53	453.47	264.58	155.72	107.09	155.72
87.5	72.97	134.96	276.61	395.44	418.13	395.44	276.61	134.96	72.97	134.96
90.0	35.42	108.65	219.01	293.16	327.51	293.16	219.01	108.65	35.42	108.65
92.5	30.85	92.93	129.88	183.14	226.93	183.14	129.88	92.93	30.85	92.93
95.0	42.34	58.69	74.53	161.94	202.36	161.94	74.53	58.69	42.34	58.69
97.5	51.37	43.35	66.03	157.31	195.70	157.31	66.03	43.35	51.37	43.35
100.0	45.69	42.39	63.53	130.47	166.55	130.47	63.53	42.39	45.69	42.39
102.5	40.33	41.18	60.92	97.44	116.52	97.44	60.92	41.18	40.33	41.18
105.0	34.90	40.29	60.83	87.48	100.21	87.48	60.83	40.29	34.90	40.29
107.5	30.57	38.71	59.79	85.92	96.98	85.92	59.79	38.71	30.57	38.71
110.0	26.82	36.07	57.84	83.82	94.56	83.82	57.84	36.07	26.82	36.07
112.5	23.33	32.94	55.75	80.68	90.98	80.68	55.75	32.94	23.33	32.94
115.0	19.97	30.35	53.09	76.81	87.24	76.81	53.09	30.35	19.97	30.35
117.5	17.47	28.74	50.05	71.93	83.21	71.93	50.05	28.74	17.47	28.74
120.0	15.62	29.74	47.04	65.23	77.05	65.23	47.04	29.74	15.62	29.74
122.5	14.12	29.40	44.72	57.44	68.01	57.44	44.72	29.40	14.12	29.40
125.0	13.07	24.27	43.43	51.40	60.06	51.40	43.43	24.27	13.07	24.27
127.5	12.23	19.73	45.79	48.68	55.11	48.68	45.79	19.73	12.23	19.73
130.0	11.30	16.24	51.61	48.71	52.83	48.71	51.61	16.24	11.30	16.24
132.5	10.23	13.58	44.32	54.14	55.25	54.14	44.32	13.58	10.23	13.58

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX24LL40-UNV-A.IES

CANDELA TABULATION - (Cont.)

135.0	8.95	10.71	31.10	72.10	72.50	72.10	31.10	10.71	8.95	10.71
137.5	7.73	8.56	24.07	62.87	67.84	62.87	24.07	8.56	7.73	8.56
140.0	6.56	6.99	18.69	39.36	62.61	39.36	18.69	6.99	6.56	6.99
142.5	5.53	5.69	14.19	30.04	38.37	30.04	14.19	5.69	5.53	5.69
145.0	4.71	4.56	10.62	23.48	28.82	23.48	10.62	4.56	4.71	4.56
147.5	3.91	3.71	7.75	18.93	22.65	18.93	7.75	3.71	3.91	3.71
150.0	3.29	2.97	5.18	14.84	18.12	14.84	5.18	2.97	3.29	2.97
152.5	2.72	2.47	3.39	10.93	13.82	10.93	3.39	2.47	2.72	2.47
155.0	2.36	2.37	3.22	7.39	9.83	7.39	3.22	2.37	2.36	2.37
157.5	2.29	2.38	3.08	4.29	6.18	4.29	3.08	2.38	2.29	2.38
160.0	2.38	2.39	2.90	3.68	4.09	3.68	2.90	2.39	2.38	2.39
162.5	2.44	2.46	2.78	3.30	3.53	3.30	2.78	2.46	2.44	2.46
165.0	2.59	2.49	2.60	2.91	3.05	2.91	2.60	2.49	2.59	2.49
167.5	2.49	2.37	2.44	2.63	2.66	2.63	2.44	2.37	2.49	2.37
170.0	2.53	2.36	2.36	2.48	2.45	2.48	2.36	2.36	2.53	2.36
172.5	2.70	2.52	2.38	2.39	2.38	2.39	2.38	2.52	2.70	2.52
175.0	2.83	2.64	2.43	2.37	2.39	2.37	2.43	2.64	2.83	2.64
177.5	2.94	2.72	2.45	2.37	2.39	2.37	2.45	2.72	2.94	2.72
180.0	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56

**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	5104.50	5104.50	5104.50	5104.50	5104.50	5104.50	5104.50
2.5	5118.48	5153.39	5183.36	5153.39	5118.48	5083.49	5071.93
5.0	5172.20	5258.53	5301.79	5258.53	5172.20	5087.77	5056.28
7.5	5253.44	5419.07	5490.41	5419.07	5253.44	5094.07	5028.30
10.0	5369.41	5638.65	5724.30	5638.65	5369.41	5099.57	4981.91
12.5	5512.86	5885.60	6014.48	5885.60	5512.86	5108.49	4925.80
15.0	5673.10	6176.64	6328.55	6176.64	5673.10	5115.58	4854.62
17.5	5851.41	6499.72	6683.98	6499.72	5851.41	5117.65	4765.51
20.0	6052.38	6840.62	7079.57	6840.62	6052.38	5108.89	4660.86
22.5	6246.66	7206.89	7467.85	7206.89	6246.66	5093.94	4530.29
25.0	6449.32	7558.30	7859.09	7558.30	6449.32	5075.29	4382.57
27.5	6657.22	7935.35	8244.26	7935.35	6657.22	5035.42	4208.82
30.0	6848.78	8316.20	8667.77	8316.20	6848.78	4974.01	4004.82
32.5	7049.45	8694.28	9113.82	8694.28	7049.45	4891.85	3778.77
35.0	7232.41	9066.05	9481.39	9066.05	7232.41	4778.81	3524.41
37.5	7382.11	9393.02	9823.19	9393.02	7382.11	4639.34	3245.69
40.0	7511.58	9660.53	10088.61	9660.53	7511.58	4470.22	2955.11
42.5	7595.66	9835.85	10353.20	9835.85	7595.66	4287.06	2646.62
45.0	7619.00	10190.30	10850.80	10190.30	7619.00	4096.26	2330.51
47.5	7547.05	10395.85	10746.40	10395.85	7547.05	3891.95	2002.24
50.0	7452.52	10066.97	10510.20	10066.97	7452.52	3631.39	1605.48
52.5	7384.00	9290.16	8869.16	9290.16	7384.00	3168.14	1181.74
55.0	6986.57	6911.93	6946.02	6911.93	6986.57	2331.69	869.07
57.5	6225.87	5542.48	5502.70	5542.48	6225.87	1432.09	747.76
60.0	4703.78	3782.05	5317.06	3782.05	4703.78	950.66	690.85
62.5	2668.66	4380.32	6374.83	4380.32	2668.66	777.08	637.57
65.0	1219.24	4288.89	5641.70	4288.89	1219.24	653.89	581.73
67.5	881.65	3905.28	4599.20	3905.28	881.65	549.46	519.56
70.0	1068.47	2616.19	3467.97	2616.19	1068.47	445.53	445.49
72.5	695.76	1752.37	2427.95	1752.37	695.76	360.83	359.49
75.0	509.07	1164.89	1536.85	1164.89	509.07	287.92	283.53
77.5	419.74	665.47	879.23	665.47	419.74	234.28	224.80
80.0	302.00	496.60	616.51	496.60	302.00	209.74	181.27

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX24LL40-UNV-A.IES

CANDELA TABULATION - (Cont.)

82.5	264.23	486.14	534.70	486.14	264.23	196.52	143.61
85.0	264.58	453.47	491.53	453.47	264.58	155.72	107.09
87.5	276.61	395.44	418.13	395.44	276.61	134.96	72.97
90.0	219.01	293.16	327.51	293.16	219.01	108.65	35.42
92.5	129.88	183.14	226.93	183.14	129.88	92.93	30.85
95.0	74.53	161.94	202.36	161.94	74.53	58.69	42.34
97.5	66.03	157.31	195.70	157.31	66.03	43.35	51.37
100.0	63.53	130.47	166.55	130.47	63.53	42.39	45.69
102.5	60.92	97.44	116.52	97.44	60.92	41.18	40.33
105.0	60.83	87.48	100.21	87.48	60.83	40.29	34.90
107.5	59.79	85.92	96.98	85.92	59.79	38.71	30.57
110.0	57.84	83.82	94.56	83.82	57.84	36.07	26.82
112.5	55.75	80.68	90.98	80.68	55.75	32.94	23.33
115.0	53.09	76.81	87.24	76.81	53.09	30.35	19.97
117.5	50.05	71.93	83.21	71.93	50.05	28.74	17.47
120.0	47.04	65.23	77.05	65.23	47.04	29.74	15.62
122.5	44.72	57.44	68.01	57.44	44.72	29.40	14.12
125.0	43.43	51.40	60.06	51.40	43.43	24.27	13.07
127.5	45.79	48.68	55.11	48.68	45.79	19.73	12.23
130.0	51.61	48.71	52.83	48.71	51.61	16.24	11.30
132.5	44.32	54.14	55.25	54.14	44.32	13.58	10.23
135.0	31.10	72.10	72.50	72.10	31.10	10.71	8.95
137.5	24.07	62.87	67.84	62.87	24.07	8.56	7.73
140.0	18.69	39.36	62.61	39.36	18.69	6.99	6.56
142.5	14.19	30.04	38.37	30.04	14.19	5.69	5.53
145.0	10.62	23.48	28.82	23.48	10.62	4.56	4.71
147.5	7.75	18.93	22.65	18.93	7.75	3.71	3.91
150.0	5.18	14.84	18.12	14.84	5.18	2.97	3.29
152.5	3.39	10.93	13.82	10.93	3.39	2.47	2.72
155.0	3.22	7.39	9.83	7.39	3.22	2.37	2.36
157.5	3.08	4.29	6.18	4.29	3.08	2.38	2.29
160.0	2.90	3.68	4.09	3.68	2.90	2.39	2.38
162.5	2.78	3.30	3.53	3.30	2.78	2.46	2.44
165.0	2.60	2.91	3.05	2.91	2.60	2.49	2.59
167.5	2.44	2.63	2.66	2.63	2.44	2.37	2.49
170.0	2.36	2.48	2.45	2.48	2.36	2.36	2.53
172.5	2.38	2.39	2.38	2.39	2.38	2.52	2.70
175.0	2.43	2.37	2.39	2.37	2.43	2.64	2.83
177.5	2.45	2.37	2.39	2.37	2.45	2.72	2.94
180.0	2.56	2.56	2.56	2.56	2.56	2.56	2.56

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PHOTOMETRIC FILENAME : APX24LL40-UNV-A.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2110.2	N.A.	9.10
0-30	5034.46	N.A.	21.80
0-40	9355.84	N.A.	40.40
0-60	19322.00	N.A.	83.50
0-80	22489.25	N.A.	97.20
0-90	22803.89	N.A.	98.60
10-90	22303.89	N.A.	96.40
20-40	7245.64	N.A.	31.30
20-50	12694.8	N.A.	54.90
40-70	12298.71	N.A.	53.20
60-80	3167.26	N.A.	13.70
70-80	834.70	N.A.	3.60
80-90	314.63	N.A.	1.40
90-110	201.72	N.A.	0.90
90-120	254.83	N.A.	1.10
90-130	291.07	N.A.	1.30
90-150	327.64	N.A.	1.40
90-180	331.07	N.A.	1.40
110-180	129.36	N.A.	0.60
0-180	23134.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	499.99
10-20	1610.21
20-30	2924.26
30-40	4321.38
40-50	5449.16
50-60	4517.00
60-70	2332.56
70-80	834.70
80-90	314.63
90-100	130.70
100-110	71.01
110-120	53.11
120-130	36.24
130-140	27.06
140-150	9.52
150-160	2.42
160-170	0.78
170-180	0.24

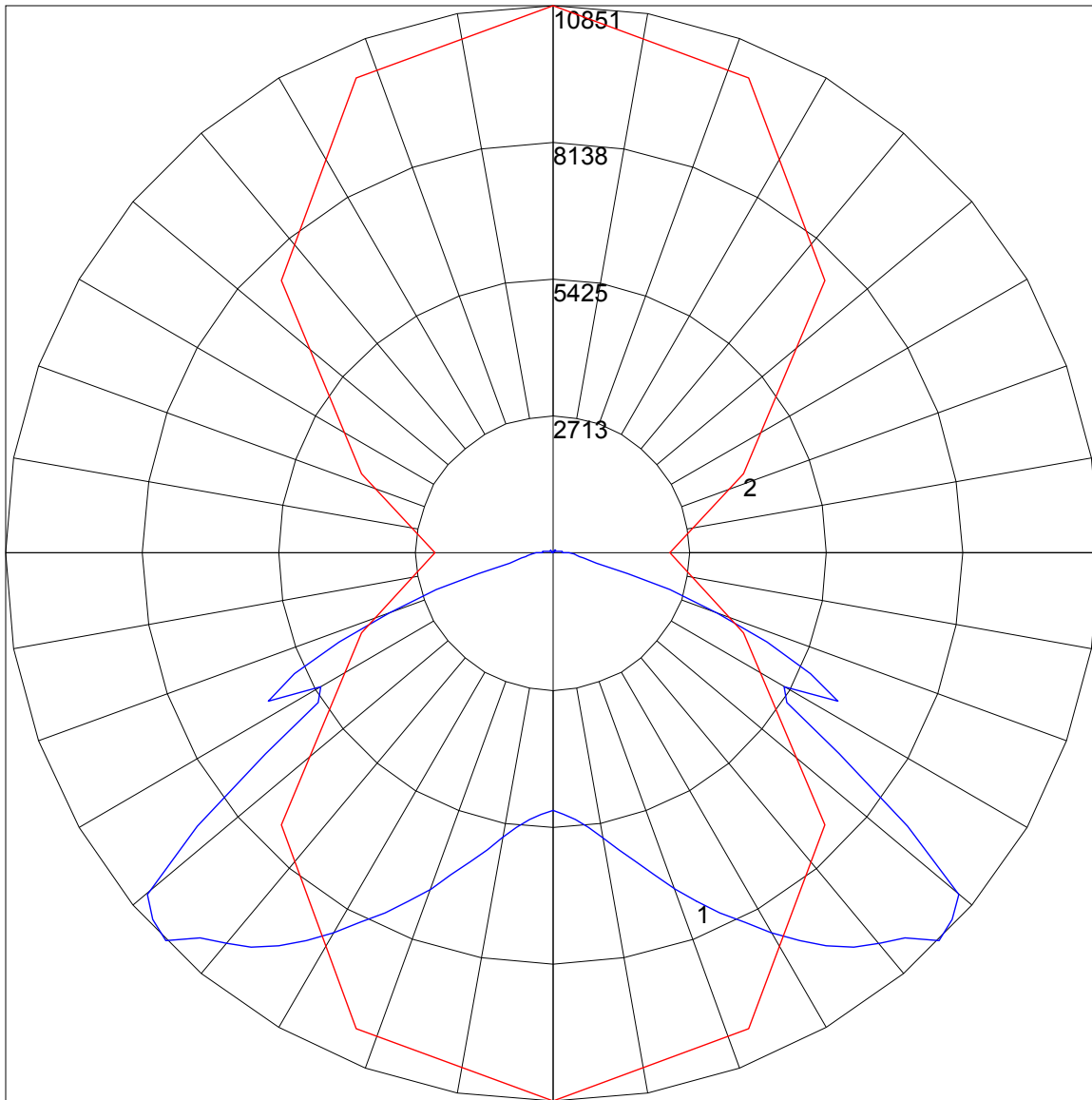
IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX24LL40-UNV-A.IES

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	109	104	100	97	106	102	98	95	98	95	92	93	91	89	90	88	86	84
2	99	91	85	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	69	65	61	59
4	82	70	62	55	80	69	61	54	66	59	53	64	58	53	61	56	52	50
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	34	31
8	59	45	36	31	57	44	36	30	43	35	30	42	35	30	40	34	30	28
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22

POLAR GRAPH



Maximum Candela = 10850.8 Located At Horizontal Angle = 90, Vertical Angle = 45
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)