

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

IESNA:LM-63-2002

[TEST] FO33713.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/27/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX24LL40-UNV-N-LFA

[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K 2-95W DRIVERS NO RESISTORS NARROW OPTICS DIRA-FR50 LENS

[LAMP] LED. LUMINAIRE OUTPUT = 20381 LMS

[TESTDATE] 10/27/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20381
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	190.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.94
Spacing Criterion (90-270)	0.92
Spacing Criterion (Diagonal)	1.00
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	10617	8342	7897
55	7890	5843	5575
65	5943	4136	3995
75	4097	2674	2722
85	1626	1372	1699

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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	13290.21	13290.21	13290.21	13290.21	13290.21	13290.21	13290.21	13290.21	13290.21	13290.21
2.5	13231.75	13239.80	13245.25	13235.15	13202.55	13235.15	13245.25	13239.80	13231.75	13239.80
5.0	13090.55	13088.95	13092.95	13080.35	13033.95	13080.35	13092.95	13088.95	13090.55	13088.95
7.5	12847.30	12839.85	12830.70	12799.80	12767.50	12799.80	12830.70	12839.85	12847.30	12839.85
10.0	12510.25	12500.15	12464.50	12432.30	12390.50	12432.30	12464.50	12500.15	12510.25	12500.15
12.5	12091.10	12078.45	12008.35	11942.75	11908.40	11942.75	12008.35	12078.45	12091.10	12078.45
15.0	11595.35	11580.65	11478.40	11379.45	11336.00	11379.45	11478.40	11580.65	11595.35	11580.65
17.5	11020.30	11001.45	10877.95	10744.90	10701.60	10744.90	10877.95	11001.45	11020.30	11001.45
20.0	10383.40	10357.65	10209.33	10058.09	10021.35	10058.09	10209.33	10357.65	10383.40	10357.65
22.5	9703.08	9665.37	9495.24	9341.91	9299.63	9341.91	9495.24	9665.37	9703.08	9665.37
25.0	8989.32	8946.63	8762.10	8607.90	8557.36	8607.90	8762.10	8946.63	8989.32	8946.63
27.5	8273.31	8209.85	8031.80	7875.49	7828.18	7875.49	8031.80	8209.85	8273.31	8209.85
30.0	7526.97	7479.36	7312.58	7153.89	7108.12	7153.89	7312.58	7479.36	7526.97	7479.36
32.5	6810.77	6765.76	6610.72	6456.91	6421.41	6456.91	6610.72	6765.76	6810.77	6765.76
35.0	6137.01	6080.97	5940.64	5802.60	5775.11	5802.60	5940.64	6080.97	6137.01	6080.97
37.5	5493.29	5441.77	5314.26	5208.31	5189.14	5208.31	5314.26	5441.77	5493.29	5441.77
40.0	4902.84	4859.34	4752.65	4669.97	4648.22	4669.97	4752.65	4859.34	4902.84	4859.34
42.5	4380.73	4339.39	4256.82	4181.76	4159.36	4181.76	4256.82	4339.39	4380.73	4339.39
45.0	3912.55	3877.26	3811.96	3740.99	3719.94	3740.99	3811.96	3877.26	3912.55	3877.26
47.5	3487.42	3461.16	3409.02	3348.24	3335.60	3348.24	3409.02	3461.16	3487.42	3461.16
50.0	3107.96	3085.08	3042.61	3001.34	2995.88	3001.34	3042.61	3085.08	3107.96	3085.08
52.5	2769.67	2749.63	2717.33	2689.34	2684.10	2689.34	2717.33	2749.63	2769.67	2749.63
55.0	2463.80	2447.89	2423.51	2403.31	2403.23	2403.31	2423.51	2447.89	2463.80	2447.89
57.5	2182.95	2175.40	2159.97	2144.63	2147.15	2144.63	2159.97	2175.40	2182.95	2175.40
60.0	1924.35	1926.57	1917.84	1914.22	1917.03	1914.22	1917.84	1926.57	1924.35	1926.57
62.5	1685.95	1694.36	1696.35	1702.13	1707.56	1702.13	1696.35	1694.36	1685.95	1694.36
65.0	1465.31	1475.47	1488.63	1506.11	1510.28	1506.11	1488.63	1475.47	1465.31	1475.47
67.5	1259.29	1272.02	1293.45	1317.36	1326.70	1317.36	1293.45	1272.02	1259.29	1272.02
70.0	1065.13	1082.63	1111.80	1142.79	1155.09	1142.79	1111.80	1082.63	1065.13	1082.63
72.5	881.49	906.24	943.81	984.45	998.33	984.45	943.81	906.24	881.49	906.24
75.0	710.16	740.02	786.75	835.59	853.31	835.59	786.75	740.02	710.16	740.02
77.5	548.21	583.83	639.69	696.67	717.38	696.67	639.69	583.83	548.21	583.83
80.0	396.56	439.16	507.87	572.05	596.54	572.05	507.87	439.16	396.56	439.16
82.5	262.20	311.87	393.85	467.24	494.17	467.24	393.85	311.87	262.20	311.87
85.0	154.23	210.25	301.24	379.52	406.76	379.52	301.24	210.25	154.23	210.25
87.5	81.06	144.34	237.54	313.83	338.88	313.83	237.54	144.34	81.06	144.34
90.0	54.22	103.60	187.08	258.68	282.60	258.68	187.08	103.60	54.22	103.60
92.5	51.51	84.50	150.77	213.55	235.56	213.55	150.77	84.50	51.51	84.50
95.0	49.89	77.98	129.24	181.00	200.76	181.00	129.24	77.98	49.89	77.98
97.5	47.89	72.84	118.92	161.64	177.80	161.64	118.92	72.84	47.89	72.84
100.0	45.57	67.45	111.93	150.52	164.02	150.52	111.93	67.45	45.57	67.45
102.5	42.44	62.35	104.99	142.38	155.13	142.38	104.99	62.35	42.44	62.35
105.0	39.18	56.99	99.01	135.29	147.52	135.29	99.01	56.99	39.18	56.99
107.5	36.19	51.91	92.33	128.01	140.44	128.01	92.33	51.91	36.19	51.91
110.0	32.56	46.74	86.16	120.72	133.04	120.72	86.16	46.74	32.56	46.74
112.5	28.94	41.61	79.78	113.15	125.49	113.15	79.78	41.61	28.94	41.61
115.0	25.63	36.03	73.23	105.61	117.47	105.61	73.23	36.03	25.63	36.03
117.5	22.86	30.82	66.50	97.89	109.22	97.89	66.50	30.82	22.86	30.82
120.0	19.96	25.74	60.07	90.58	101.55	90.58	60.07	25.74	19.96	25.74
122.5	17.21	21.34	53.98	83.00	93.13	83.00	53.98	21.34	17.21	21.34
125.0	14.73	17.13	47.51	75.05	85.11	75.05	47.51	17.13	14.73	17.13
127.5	12.22	13.28	41.11	67.77	77.65	67.77	41.11	13.28	12.22	13.28
130.0	10.27	9.92	35.09	60.87	69.70	60.87	35.09	9.92	10.27	9.92
132.5	8.72	7.62	29.36	53.76	61.82	53.76	29.36	7.62	8.72	7.62

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CANDELA TABULATION - (Cont.)

135.0	7.26	5.92	23.99	46.88	53.96	46.88	23.99	5.92	7.26	5.92
137.5	5.94	4.82	18.38	39.80	46.67	39.80	18.38	4.82	5.94	4.82
140.0	4.59	3.61	14.19	33.03	39.43	33.03	14.19	3.61	4.59	3.61
142.5	3.45	2.96	9.93	26.86	32.49	26.86	9.93	2.96	3.45	2.96
145.0	2.73	2.16	6.95	20.91	25.66	20.91	6.95	2.16	2.73	2.16
147.5	1.75	1.84	4.44	15.68	19.63	15.68	4.44	1.84	1.75	1.84
150.0	1.48	1.57	2.81	10.67	14.49	10.67	2.81	1.57	1.48	1.57
152.5	1.55	1.62	2.31	7.22	9.96	7.22	2.31	1.62	1.55	1.62
155.0	1.74	1.96	2.43	4.71	6.27	4.71	2.43	1.96	1.74	1.96
157.5	1.93	2.10	2.51	3.50	4.34	3.50	2.51	2.10	1.93	2.10
160.0	1.89	2.22	2.46	2.91	3.26	2.91	2.46	2.22	1.89	2.22
162.5	2.04	2.29	2.55	2.93	3.02	2.93	2.55	2.29	2.04	2.29
165.0	2.69	2.62	2.49	2.85	2.82	2.85	2.49	2.62	2.69	2.62
167.5	2.45	2.55	2.80	3.00	3.13	3.00	2.80	2.55	2.45	2.55
170.0	2.46	2.46	2.59	2.87	2.84	2.87	2.59	2.46	2.46	2.46
172.5	2.87	2.86	2.75	2.95	2.84	2.95	2.75	2.86	2.87	2.86
175.0	3.09	3.11	2.99	3.00	2.95	3.00	2.99	3.11	3.09	3.11
177.5	3.31	3.50	3.09	3.11	3.34	3.11	3.09	3.50	3.31	3.50
180.0	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18

**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	13290.21	13290.21	13290.21	13290.21	13290.21	13290.21	13290.21
2.5	13245.25	13235.15	13202.55	13235.15	13245.25	13239.80	13231.75
5.0	13092.95	13080.35	13033.95	13080.35	13092.95	13088.95	13090.55
7.5	12830.70	12799.80	12767.50	12799.80	12830.70	12839.85	12847.30
10.0	12464.50	12432.30	12390.50	12432.30	12464.50	12500.15	12510.25
12.5	12008.35	11942.75	11908.40	11942.75	12008.35	12078.45	12091.10
15.0	11478.40	11379.45	11336.00	11379.45	11478.40	11580.65	11595.35
17.5	10877.95	10744.90	10701.60	10744.90	10877.95	11001.45	11020.30
20.0	10209.33	10058.09	10021.35	10058.09	10209.33	10357.65	10383.40
22.5	9495.24	9341.91	9299.63	9341.91	9495.24	9665.37	9703.08
25.0	8762.10	8607.90	8557.36	8607.90	8762.10	8946.63	8989.32
27.5	8031.80	7875.49	7828.18	7875.49	8031.80	8209.85	8273.31
30.0	7312.58	7153.89	7108.12	7153.89	7312.58	7479.36	7526.97
32.5	6610.72	6456.91	6421.41	6456.91	6610.72	6765.76	6810.77
35.0	5940.64	5802.60	5775.11	5802.60	5940.64	6080.97	6137.01
37.5	5314.26	5208.31	5189.14	5208.31	5314.26	5441.77	5493.29
40.0	4752.65	4669.97	4648.22	4669.97	4752.65	4859.34	4902.84
42.5	4256.82	4181.76	4159.36	4181.76	4256.82	4339.39	4380.73
45.0	3811.96	3740.99	3719.94	3740.99	3811.96	3877.26	3912.55
47.5	3409.02	3348.24	3335.60	3348.24	3409.02	3461.16	3487.42
50.0	3042.61	3001.34	2995.88	3001.34	3042.61	3085.08	3107.96
52.5	2717.33	2689.34	2684.10	2689.34	2717.33	2749.63	2769.67
55.0	2423.51	2403.31	2403.23	2403.31	2423.51	2447.89	2463.80
57.5	2159.97	2144.63	2147.15	2144.63	2159.97	2175.40	2182.95
60.0	1917.84	1914.22	1917.03	1914.22	1917.84	1926.57	1924.35
62.5	1696.35	1702.13	1707.56	1702.13	1696.35	1694.36	1685.95
65.0	1488.63	1506.11	1510.28	1506.11	1488.63	1475.47	1465.31
67.5	1293.45	1317.36	1326.70	1317.36	1293.45	1272.02	1259.29
70.0	1111.80	1142.79	1155.09	1142.79	1111.80	1082.63	1065.13
72.5	943.81	984.45	998.33	984.45	943.81	906.24	881.49
75.0	786.75	835.59	853.31	835.59	786.75	740.02	710.16
77.5	639.69	696.67	717.38	696.67	639.69	583.83	548.21
80.0	507.87	572.05	596.54	572.05	507.87	439.16	396.56

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CANDELA TABULATION - (Cont.)

82.5	393.85	467.24	494.17	467.24	393.85	311.87	262.20
85.0	301.24	379.52	406.76	379.52	301.24	210.25	154.23
87.5	237.54	313.83	338.88	313.83	237.54	144.34	81.06
90.0	187.08	258.68	282.60	258.68	187.08	103.60	54.22
92.5	150.77	213.55	235.56	213.55	150.77	84.50	51.51
95.0	129.24	181.00	200.76	181.00	129.24	77.98	49.89
97.5	118.92	161.64	177.80	161.64	118.92	72.84	47.89
100.0	111.93	150.52	164.02	150.52	111.93	67.45	45.57
102.5	104.99	142.38	155.13	142.38	104.99	62.35	42.44
105.0	99.01	135.29	147.52	135.29	99.01	56.99	39.18
107.5	92.33	128.01	140.44	128.01	92.33	51.91	36.19
110.0	86.16	120.72	133.04	120.72	86.16	46.74	32.56
112.5	79.78	113.15	125.49	113.15	79.78	41.61	28.94
115.0	73.23	105.61	117.47	105.61	73.23	36.03	25.63
117.5	66.50	97.89	109.22	97.89	66.50	30.82	22.86
120.0	60.07	90.58	101.55	90.58	60.07	25.74	19.96
122.5	53.98	83.00	93.13	83.00	53.98	21.34	17.21
125.0	47.51	75.05	85.11	75.05	47.51	17.13	14.73
127.5	41.11	67.77	77.65	67.77	41.11	13.28	12.22
130.0	35.09	60.87	69.70	60.87	35.09	9.92	10.27
132.5	29.36	53.76	61.82	53.76	29.36	7.62	8.72
135.0	23.99	46.88	53.96	46.88	23.99	5.92	7.26
137.5	18.38	39.80	46.67	39.80	18.38	4.82	5.94
140.0	14.19	33.03	39.43	33.03	14.19	3.61	4.59
142.5	9.93	26.86	32.49	26.86	9.93	2.96	3.45
145.0	6.95	20.91	25.66	20.91	6.95	2.16	2.73
147.5	4.44	15.68	19.63	15.68	4.44	1.84	1.75
150.0	2.81	10.67	14.49	10.67	2.81	1.57	1.48
152.5	2.31	7.22	9.96	7.22	2.31	1.62	1.55
155.0	2.43	4.71	6.27	4.71	2.43	1.96	1.74
157.5	2.51	3.50	4.34	3.50	2.51	2.10	1.93
160.0	2.46	2.91	3.26	2.91	2.46	2.22	1.89
162.5	2.55	2.93	3.02	2.93	2.55	2.29	2.04
165.0	2.49	2.85	2.82	2.85	2.49	2.62	2.69
167.5	2.80	3.00	3.13	3.00	2.80	2.55	2.45
170.0	2.59	2.87	2.84	2.87	2.59	2.46	2.46
172.5	2.75	2.95	2.84	2.95	2.75	2.86	2.87
175.0	2.99	3.00	2.95	3.00	2.99	3.11	3.09
177.5	3.09	3.11	3.34	3.11	3.09	3.50	3.31
180.0	3.18	3.18	3.18	3.18	3.18	3.18	3.18

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4434.05	N.A.	21.80
0-30	8453.7	N.A.	41.50
0-40	12179.61	N.A.	59.80
0-60	17326.89	N.A.	85.00
0-80	19647.43	N.A.	96.40
0-90	19987.62	N.A.	98.10
10-90	18758.76	N.A.	92.00
20-40	7745.56	N.A.	38.00
20-50	10706.31	N.A.	52.50
40-70	6630.28	N.A.	32.50
60-80	2320.55	N.A.	11.40
70-80	837.55	N.A.	4.10
80-90	340.18	N.A.	1.70
90-110	248.45	N.A.	1.20
90-120	319.72	N.A.	1.60
90-130	362.63	N.A.	1.80
90-150	391.05	N.A.	1.90
90-180	393.80	N.A.	1.90
110-180	145.34	N.A.	0.70
0-180	20381.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1228.85
10-20	3205.19
20-30	4019.66
30-40	3725.9
40-50	2960.75
50-60	2186.54
60-70	1483.00
70-80	837.55
80-90	340.18
90-100	146.59
100-110	101.87
110-120	71.27
120-130	42.91
130-140	21.11
140-150	7.32
150-160	1.72
160-170	0.75
170-180	0.28

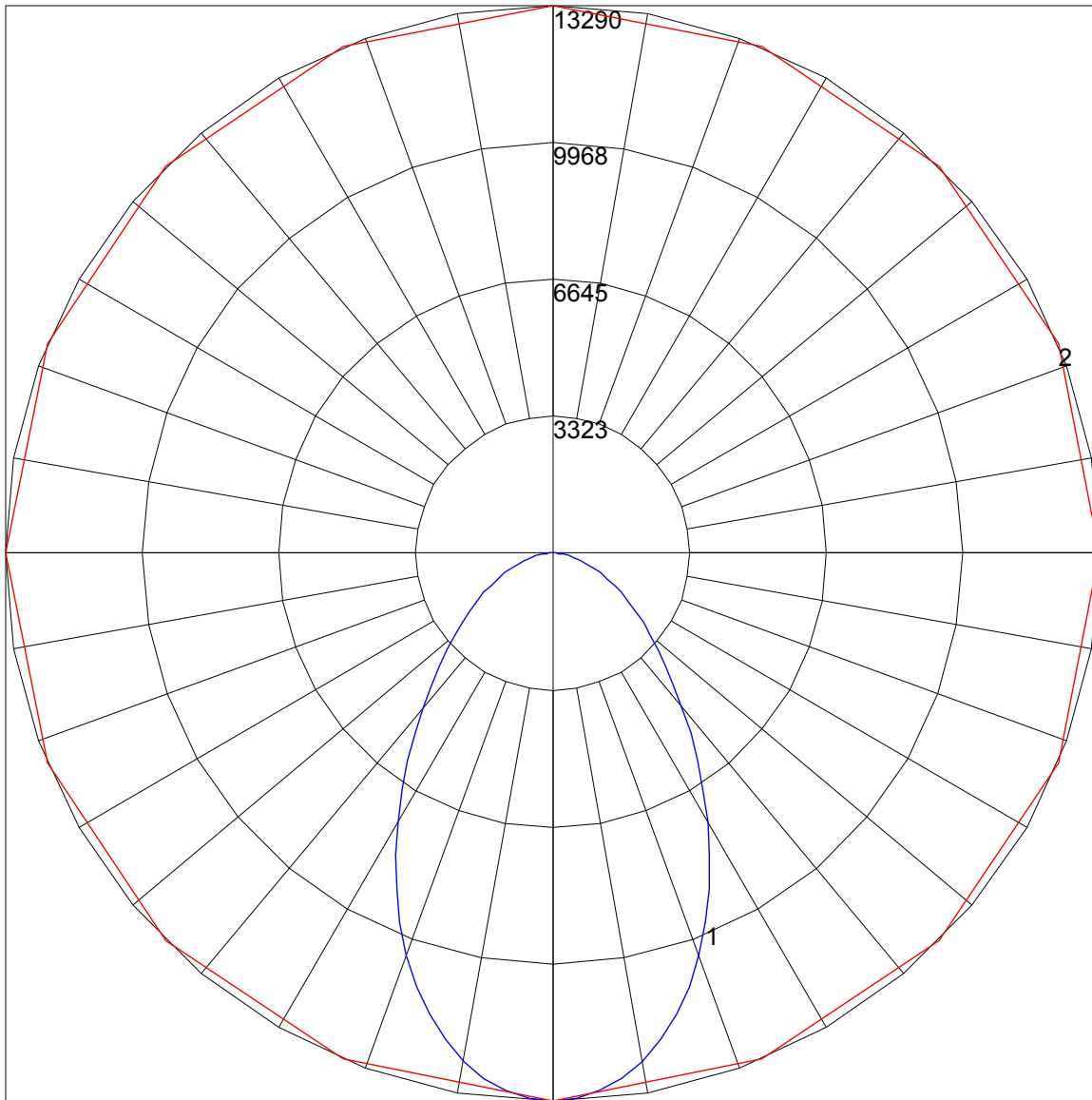
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	64	59	54	63	58	54	52
6	76	64	56	50	74	63	56	50	61	55	50	59	54	49	58	53	49	47
7	71	59	51	46	69	58	51	45	56	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 = 13290.21 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.)