

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

IESNA:LM-63-2002

[TEST] FO33738.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/29/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX24LL40-UNV-W-LCP

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

[LAMP] LED. LUMINAIRE OUTPUT = 22001 LMS

[TESTDATE] 10/29/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	22001
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	190.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.92
Spacing Criterion (90-270)	2.16
Spacing Criterion (Diagonal)	1.94
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	15821	14835	15697
55	12666	12794	8620
65	3540	2736	4521
75	1644	1606	1201
85	841	890	1270

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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	4876.43	4876.43	4876.43	4876.43	4876.43	4876.43	4876.43	4876.43	4876.43	4876.43
2.5	4887.08	4894.27	4907.34	4909.13	4923.22	4909.13	4907.34	4894.27	4887.08	4894.27
5.0	5013.92	5002.37	4991.88	4969.44	4963.32	4969.44	4991.88	5002.37	5013.92	5002.37
7.5	5181.84	5163.52	5116.80	5059.16	5037.28	5059.16	5116.80	5163.52	5181.84	5163.52
10.0	5381.74	5352.76	5279.40	5182.38	5134.35	5182.38	5279.40	5352.76	5381.74	5352.76
12.5	5594.42	5564.64	5463.89	5322.80	5257.50	5322.80	5463.89	5564.64	5594.42	5564.64
15.0	5831.02	5795.56	5666.00	5488.92	5410.73	5488.92	5666.00	5795.56	5831.02	5795.56
17.5	6084.12	6051.89	5889.50	5689.15	5593.61	5689.15	5889.50	6051.89	6084.12	6051.89
20.0	6379.29	6336.83	6169.87	5924.36	5814.36	5924.36	6169.87	6336.83	6379.29	6336.83
22.5	6733.66	6677.93	6473.68	6208.52	6104.08	6208.52	6473.68	6677.93	6733.66	6677.93
25.0	7036.02	7001.52	6797.00	6543.05	6442.22	6543.05	6797.00	7001.52	7036.02	7001.52
27.5	7188.46	7198.10	7059.35	6868.42	6800.25	6868.42	7059.35	7198.10	7188.46	7198.10
30.0	7177.75	7204.09	7186.60	7168.89	7104.27	7168.89	7186.60	7204.09	7177.75	7204.09
32.5	7018.31	7084.88	7190.78	7355.97	7414.07	7355.97	7190.78	7084.88	7018.31	7084.88
35.0	6823.12	6953.05	7151.79	7553.81	7694.49	7553.81	7151.79	6953.05	6823.12	6953.05
37.5	6710.94	6858.90	7136.76	7679.50	7865.07	7679.50	7136.76	6858.90	6710.94	6858.90
40.0	6641.84	6803.42	7172.44	7823.57	7934.52	7823.57	7172.44	6803.42	6641.84	6803.42
42.5	6519.19	6732.65	7247.16	7825.40	7975.61	7825.40	7247.16	6732.65	6519.19	6732.65
45.0	6328.37	6615.05	7232.32	7748.27	7837.14	7748.27	7232.32	6615.05	6328.37	6615.05
47.5	6015.81	6418.43	7103.40	7543.13	7683.26	7543.13	7103.40	6418.43	6015.81	6418.43
50.0	5528.68	6133.64	6784.72	7234.09	6546.16	7234.09	6784.72	6133.64	5528.68	6133.64
52.5	4929.62	5735.29	6301.22	5921.64	5866.10	5921.64	6301.22	5735.29	4929.62	5735.29
55.0	4293.29	5139.24	5633.67	5075.15	3913.37	5075.15	5633.67	5139.24	4293.29	5139.24
57.5	3652.18	4409.62	4693.10	2960.59	3234.39	2960.59	4693.10	4409.62	3652.18	4409.62
60.0	2834.37	3560.77	3233.82	2282.33	2261.36	2282.33	3233.82	3560.77	2834.37	3560.77
62.5	1795.59	2582.45	1751.13	1709.37	2119.76	1709.37	1751.13	2582.45	1795.59	2582.45
65.0	947.40	1595.63	1039.27	1889.99	1785.35	1889.99	1039.27	1595.63	947.40	1595.63
67.5	617.92	895.39	613.21	1510.80	1678.09	1510.80	613.21	895.39	617.92	895.39
70.0	541.94	603.15	670.71	1102.34	1031.51	1102.34	670.71	603.15	541.94	603.15
72.5	434.50	446.33	649.24	629.13	586.57	629.13	649.24	446.33	434.50	446.33
75.0	309.25	296.04	494.30	388.90	388.85	388.90	494.30	296.04	309.25	296.04
77.5	233.14	201.59	351.62	311.20	336.52	311.20	351.62	201.59	233.14	201.59
80.0	170.90	156.29	266.16	262.39	294.80	262.39	266.16	156.29	170.90	156.29
82.5	123.37	134.64	205.17	266.38	289.12	266.38	205.17	134.64	123.37	134.64
85.0	86.64	124.24	201.38	275.17	308.36	275.17	201.38	124.24	86.64	124.24
87.5	60.45	107.56	203.20	243.99	253.65	243.99	203.20	107.56	60.45	107.56
90.0	40.08	83.97	179.53	193.24	212.45	193.24	179.53	83.97	40.08	83.97
92.5	32.95	71.28	123.14	132.85	172.12	132.85	123.14	71.28	32.95	71.28
95.0	35.83	53.22	63.16	95.37	119.95	95.37	63.16	53.22	35.83	53.22
97.5	40.27	28.02	36.31	72.40	80.43	72.40	36.31	28.02	40.27	28.02
100.0	40.66	24.16	33.37	71.83	81.36	71.83	33.37	24.16	40.66	24.16
102.5	38.71	24.92	29.44	58.52	66.79	58.52	29.44	24.92	38.71	24.92
105.0	36.41	26.04	23.85	39.47	51.59	39.47	23.85	26.04	36.41	26.04
107.5	33.63	27.18	22.34	29.69	36.15	29.69	22.34	27.18	33.63	27.18
110.0	31.62	28.41	21.82	27.44	31.91	27.44	21.82	28.41	31.62	28.41
112.5	31.09	29.93	20.66	25.97	30.16	25.97	20.66	29.93	31.09	29.93
115.0	32.16	31.49	19.78	24.03	28.18	24.03	19.78	31.49	32.16	31.49
117.5	33.51	32.60	19.26	21.46	25.00	21.46	19.26	32.60	33.51	32.60
120.0	33.49	32.94	18.85	19.08	21.75	19.08	18.85	32.94	33.49	32.94
122.5	31.83	31.71	19.42	17.31	19.73	17.31	19.42	31.71	31.83	31.71
125.0	28.60	27.57	21.99	16.50	18.12	16.50	21.99	27.57	28.60	27.57
127.5	24.99	22.41	27.23	17.70	18.04	17.70	27.23	22.41	24.99	22.41
130.0	21.40	19.05	27.00	22.61	21.18	22.61	27.00	19.05	21.40	19.05
132.5	17.74	15.99	22.02	27.81	28.95	27.81	22.02	15.99	17.74	15.99

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CANDELA TABULATION - (Cont.)

135.0	14.50	13.04	15.53	25.95	23.49	25.95	15.53	13.04	14.50	13.04
137.5	11.54	10.45	11.34	24.66	26.95	24.66	11.34	10.45	11.54	10.45
140.0	9.06	8.21	8.61	16.54	23.59	16.54	8.61	8.21	9.06	8.21
142.5	7.19	6.21	6.81	12.24	15.82	12.24	6.81	6.21	7.19	6.21
145.0	5.44	4.95	5.33	9.34	11.46	9.34	5.33	4.95	5.44	4.95
147.5	4.26	4.18	4.29	7.75	9.04	7.75	4.29	4.18	4.26	4.18
150.0	3.24	3.18	3.54	6.41	7.36	6.41	3.54	3.18	3.24	3.18
152.5	3.01	2.76	3.37	5.16	6.05	5.16	3.37	2.76	3.01	2.76
155.0	2.66	2.92	2.74	4.14	4.88	4.14	2.74	2.92	2.66	2.92
157.5	2.52	2.89	2.71	3.35	4.11	3.35	2.71	2.89	2.52	2.89
160.0	2.51	2.71	2.58	2.87	3.14	2.87	2.58	2.71	2.51	2.71
162.5	2.55	2.38	2.72	2.39	2.78	2.39	2.72	2.38	2.55	2.38
165.0	2.34	2.59	2.31	2.39	2.48	2.39	2.31	2.59	2.34	2.59
167.5	2.43	2.13	2.25	2.08	2.23	2.08	2.25	2.13	2.43	2.13
170.0	2.02	2.16	1.99	2.24	2.45	2.24	1.99	2.16	2.02	2.16
172.5	2.04	2.16	2.01	2.05	2.04	2.05	2.01	2.16	2.04	2.16
175.0	2.15	2.23	2.49	2.12	2.27	2.12	2.49	2.23	2.15	2.23
177.5	2.25	2.43	2.33	2.24	2.02	2.24	2.33	2.43	2.25	2.43
180.0	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23

**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	4876.43	4876.43	4876.43	4876.43	4876.43	4876.43	4876.43
2.5	4907.34	4909.13	4923.22	4909.13	4907.34	4894.27	4887.08
5.0	4991.88	4969.44	4963.32	4969.44	4991.88	5002.37	5013.92
7.5	5116.80	5059.16	5037.28	5059.16	5116.80	5163.52	5181.84
10.0	5279.40	5182.38	5134.35	5182.38	5279.40	5352.76	5381.74
12.5	5463.89	5322.80	5257.50	5322.80	5463.89	5564.64	5594.42
15.0	5666.00	5488.92	5410.73	5488.92	5666.00	5795.56	5831.02
17.5	5889.50	5689.15	5593.61	5689.15	5889.50	6051.89	6084.12
20.0	6169.87	5924.36	5814.36	5924.36	6169.87	6336.83	6379.29
22.5	6473.68	6208.52	6104.08	6208.52	6473.68	6677.93	6733.66
25.0	6797.00	6543.05	6442.22	6543.05	6797.00	7001.52	7036.02
27.5	7059.35	6868.42	6800.25	6868.42	7059.35	7198.10	7188.46
30.0	7186.60	7168.89	7104.27	7168.89	7186.60	7204.09	7177.75
32.5	7190.78	7355.97	7414.07	7355.97	7190.78	7084.88	7018.31
35.0	7151.79	7553.81	7694.49	7553.81	7151.79	6953.05	6823.12
37.5	7136.76	7679.50	7865.07	7679.50	7136.76	6858.90	6710.94
40.0	7172.44	7823.57	7934.52	7823.57	7172.44	6803.42	6641.84
42.5	7247.16	7825.40	7975.61	7825.40	7247.16	6732.65	6519.19
45.0	7232.32	7748.27	7837.14	7748.27	7232.32	6615.05	6328.37
47.5	7103.40	7543.13	7683.26	7543.13	7103.40	6418.43	6015.81
50.0	6784.72	7234.09	6546.16	7234.09	6784.72	6133.64	5528.68
52.5	6301.22	5921.64	5866.10	5921.64	6301.22	5735.29	4929.62
55.0	5633.67	5075.15	3913.37	5075.15	5633.67	5139.24	4293.29
57.5	4693.10	2960.59	3234.39	2960.59	4693.10	4409.62	3652.18
60.0	3233.82	2282.33	2261.36	2282.33	3233.82	3560.77	2834.37
62.5	1751.13	1709.37	2119.76	1709.37	1751.13	2582.45	1795.59
65.0	1039.27	1889.99	1785.35	1889.99	1039.27	1595.63	947.40
67.5	613.21	1510.80	1678.09	1510.80	613.21	895.39	617.92
70.0	670.71	1102.34	1031.51	1102.34	670.71	603.15	541.94
72.5	649.24	629.13	586.57	629.13	649.24	446.33	434.50
75.0	494.30	388.90	388.85	388.90	494.30	296.04	309.25
77.5	351.62	311.20	336.52	311.20	351.62	201.59	233.14
80.0	266.16	262.39	294.80	262.39	266.16	156.29	170.90

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CANDELA TABULATION - (Cont.)

82.5	205.17	266.38	289.12	266.38	205.17	134.64	123.37
85.0	201.38	275.17	308.36	275.17	201.38	124.24	86.64
87.5	203.20	243.99	253.65	243.99	203.20	107.56	60.45
90.0	179.53	193.24	212.45	193.24	179.53	83.97	40.08
92.5	123.14	132.85	172.12	132.85	123.14	71.28	32.95
95.0	63.16	95.37	119.95	95.37	63.16	53.22	35.83
97.5	36.31	72.40	80.43	72.40	36.31	28.02	40.27
100.0	33.37	71.83	81.36	71.83	33.37	24.16	40.66
102.5	29.44	58.52	66.79	58.52	29.44	24.92	38.71
105.0	23.85	39.47	51.59	39.47	23.85	26.04	36.41
107.5	22.34	29.69	36.15	29.69	22.34	27.18	33.63
110.0	21.82	27.44	31.91	27.44	21.82	28.41	31.62
112.5	20.66	25.97	30.16	25.97	20.66	29.93	31.09
115.0	19.78	24.03	28.18	24.03	19.78	31.49	32.16
117.5	19.26	21.46	25.00	21.46	19.26	32.60	33.51
120.0	18.85	19.08	21.75	19.08	18.85	32.94	33.49
122.5	19.42	17.31	19.73	17.31	19.42	31.71	31.83
125.0	21.99	16.50	18.12	16.50	21.99	27.57	28.60
127.5	27.23	17.70	18.04	17.70	27.23	22.41	24.99
130.0	27.00	22.61	21.18	22.61	27.00	19.05	21.40
132.5	22.02	27.81	28.95	27.81	22.02	15.99	17.74
135.0	15.53	25.95	23.49	25.95	15.53	13.04	14.50
137.5	11.34	24.66	26.95	24.66	11.34	10.45	11.54
140.0	8.61	16.54	23.59	16.54	8.61	8.21	9.06
142.5	6.81	12.24	15.82	12.24	6.81	6.21	7.19
145.0	5.33	9.34	11.46	9.34	5.33	4.95	5.44
147.5	4.29	7.75	9.04	7.75	4.29	4.18	4.26
150.0	3.54	6.41	7.36	6.41	3.54	3.18	3.24
152.5	3.37	5.16	6.05	5.16	3.37	2.76	3.01
155.0	2.74	4.14	4.88	4.14	2.74	2.92	2.66
157.5	2.71	3.35	4.11	3.35	2.71	2.89	2.52
160.0	2.58	2.87	3.14	2.87	2.58	2.71	2.51
162.5	2.72	2.39	2.78	2.39	2.72	2.38	2.55
165.0	2.31	2.39	2.48	2.39	2.31	2.59	2.34
167.5	2.25	2.08	2.23	2.08	2.25	2.13	2.43
170.0	1.99	2.24	2.45	2.24	1.99	2.16	2.02
172.5	2.01	2.05	2.04	2.05	2.01	2.16	2.04
175.0	2.49	2.12	2.27	2.12	2.49	2.23	2.15
177.5	2.33	2.24	2.02	2.24	2.33	2.43	2.25
180.0	2.23	2.23	2.23	2.23	2.23	2.23	2.23

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2102.9	N.A.	9.60
0-30	5230.32	N.A.	23.80
0-40	9770.94	N.A.	44.40
0-60	19573.18	N.A.	89.00
0-80	21596.87	N.A.	98.20
0-90	21806.33	N.A.	99.10
10-90	21321.24	N.A.	96.90
20-40	7668.04	N.A.	34.90
20-50	13144.37	N.A.	59.70
40-70	11368.37	N.A.	51.70
60-80	2023.69	N.A.	9.20
70-80	457.56	N.A.	2.10
80-90	209.46	N.A.	1.00
90-110	126.31	N.A.	0.60
90-120	152.33	N.A.	0.70
90-130	172.91	N.A.	0.80
90-150	192.33	N.A.	0.90
90-180	194.89	N.A.	0.90
110-180	68.58	N.A.	0.30
0-180	22001.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	485.08
10-20	1617.82
20-30	3127.43
30-40	4540.62
40-50	5476.33
50-60	4325.91
60-70	1566.13
70-80	457.56
80-90	209.46
90-100	89.00
100-110	37.31
110-120	26.02
120-130	20.58
130-140	14.55
140-150	4.87
150-160	1.66
160-170	0.69
170-180	0.21

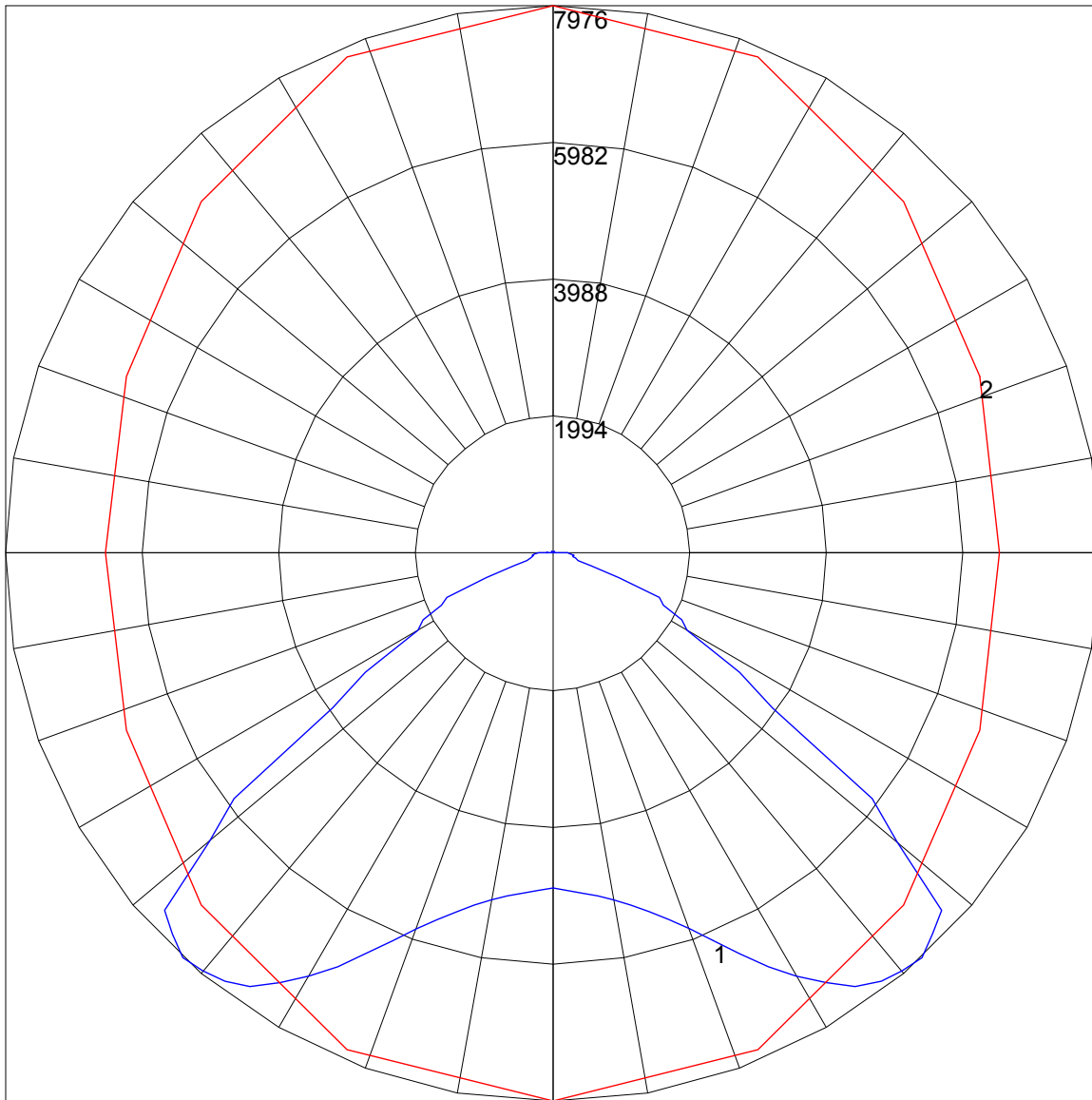
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	106	106	106	101	101	101	99
1	110	106	102	98	107	103	100	97	99	96	93	95	93	90	91	89	88	86
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62
4	84	72	64	58	82	71	63	57	69	62	56	66	60	55	64	59	55	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	60	47	38	33	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 7975.61 Located At Horizontal Angle = 90, Vertical Angle = 42.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (42.5) (Through Max. Cd.)