

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

IESNA:LM-63-2002

[TEST] FO33717.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/27/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX24LL40-UNV-M-LCP

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

[LAMP] LED. LUMINAIRE OUTPUT = 22179 LMS

[TESTDATE] 10/27/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	22179
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	191.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.26
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	9543	11946	8741
55	3081	1948	1155
65	2199	810	959
75	1199	644	734
85	520	549	1245

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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	12543.61	12543.61	12543.61	12543.61	12543.61	12543.61	12543.61	12543.61	12543.61	12543.61
2.5	12506.15	12520.85	12557.15	12581.35	12607.85	12581.35	12557.15	12520.85	12506.15	12520.85
5.0	12555.00	12563.05	12619.45	12651.35	12666.60	12651.35	12619.45	12563.05	12555.00	12563.05
7.5	12638.15	12635.10	12703.15	12751.15	12783.95	12751.15	12703.15	12635.10	12638.15	12635.10
10.0	12736.25	12749.95	12822.35	12891.60	12880.80	12891.60	12822.35	12749.95	12736.25	12749.95
12.5	12835.40	12888.95	12995.30	13019.35	13026.40	13019.35	12995.30	12888.95	12835.40	12888.95
15.0	12912.50	13020.60	13170.95	13191.45	13175.80	13191.45	13170.95	13020.60	12912.50	13020.60
17.5	12866.10	13060.00	13338.35	13391.40	13343.60	13391.40	13338.35	13060.00	12866.10	13060.00
20.0	12621.50	12930.65	13421.35	13578.45	13540.05	13578.45	13421.35	12930.65	12621.50	12930.65
22.5	12145.95	12591.90	13344.50	13708.30	13717.20	13708.30	13344.50	12591.90	12145.95	12591.90
25.0	11518.35	12066.90	13074.35	13669.40	13693.35	13669.40	13074.35	12066.90	11518.35	12066.90
27.5	10820.55	11419.50	12587.90	13357.65	13477.80	13357.65	12587.90	11419.50	10820.55	11419.50
30.0	10091.58	10724.70	11971.35	12786.65	12862.10	12786.65	11971.35	10724.70	10091.58	10724.70
32.5	9391.08	10031.62	11240.35	11890.80	11919.95	11890.80	11240.35	10031.62	9391.08	10031.62
35.0	8601.32	9328.05	10391.62	10750.12	10658.24	10750.12	10391.62	9328.05	8601.32	9328.05
37.5	7660.59	8517.48	9371.08	9441.67	9186.46	9441.67	9371.08	8517.48	7660.59	8517.48
40.0	6478.90	7563.34	8211.32	7932.66	7555.70	7932.66	8211.32	7563.34	6478.90	7563.34
42.5	5036.01	6363.03	6909.30	6242.12	5841.80	6242.12	6909.30	6363.03	5036.01	6363.03
45.0	3516.82	4924.99	5459.02	4541.52	4117.93	4541.52	5459.02	4924.99	3516.82	4924.99
47.5	2160.06	3442.36	3989.06	2998.72	2678.92	2998.72	3989.06	3442.36	2160.06	3442.36
50.0	1287.92	2123.74	2578.04	1769.68	1529.23	1769.68	2578.04	2123.74	1287.92	2123.74
52.5	988.10	1225.35	1482.61	970.29	855.90	970.29	1482.61	1225.35	988.10	1225.35
55.0	962.15	747.77	808.15	564.08	497.91	564.08	808.15	747.77	962.15	747.77
57.5	884.87	565.66	513.23	431.89	450.08	431.89	513.23	565.66	884.87	565.66
60.0	738.24	489.64	403.46	395.07	413.88	395.07	403.46	489.64	738.24	489.64
62.5	623.20	421.64	341.98	360.89	397.93	360.89	341.98	421.64	623.20	421.64
65.0	542.14	356.02	291.62	341.71	362.45	341.71	291.62	356.02	542.14	356.02
67.5	450.46	295.22	256.09	312.65	328.92	312.65	256.09	295.22	450.46	295.22
70.0	364.47	242.38	232.33	284.86	304.00	284.86	232.33	242.38	364.47	242.38
72.5	272.62	191.75	211.40	256.39	277.56	256.39	211.40	191.75	272.62	191.75
75.0	207.80	145.95	189.48	221.43	230.17	221.43	189.48	145.95	207.80	145.95
77.5	170.01	110.59	166.87	195.77	221.37	195.77	166.87	110.59	170.01	110.59
80.0	116.76	85.49	138.51	173.84	209.90	173.84	138.51	85.49	116.76	85.49
82.5	75.04	70.26	119.90	186.35	232.94	186.35	119.90	70.26	75.04	70.26
85.0	49.34	60.48	120.58	199.76	298.01	199.76	120.58	60.48	49.34	60.48
87.5	31.81	54.10	127.08	194.79	254.34	194.79	127.08	54.10	31.81	54.10
90.0	19.21	43.71	120.27	144.09	215.75	144.09	120.27	43.71	19.21	43.71
92.5	14.80	36.19	80.86	84.44	145.69	84.44	80.86	36.19	14.80	36.19
95.0	17.01	28.02	34.86	36.38	68.51	36.38	34.86	28.02	17.01	28.02
97.5	21.19	12.94	12.07	16.13	23.40	16.13	12.07	12.94	21.19	12.94
100.0	22.85	8.55	8.53	12.81	16.55	12.81	8.53	8.55	22.85	8.55
102.5	21.99	8.72	7.79	10.97	13.52	10.97	7.79	8.72	21.99	8.72
105.0	19.71	8.99	7.01	10.00	12.14	10.00	7.01	8.99	19.71	8.99
107.5	17.32	8.79	6.26	8.92	11.14	8.92	6.26	8.79	17.32	8.79
110.0	15.07	8.14	5.52	7.86	10.16	7.86	5.52	8.14	15.07	8.14
112.5	12.86	7.32	5.01	6.64	9.15	6.64	5.01	7.32	12.86	7.32
115.0	11.06	6.79	4.69	5.56	7.94	5.56	4.69	6.79	11.06	6.79
117.5	9.43	6.93	4.63	5.04	6.98	5.04	4.63	6.93	9.43	6.93
120.0	8.43	7.40	5.16	4.79	6.28	4.79	5.16	7.40	8.43	7.40
122.5	7.73	7.55	6.32	5.18	6.14	5.18	6.32	7.55	7.73	7.55
125.0	7.23	7.09	9.54	5.67	6.63	5.67	9.54	7.09	7.23	7.09
127.5	7.00	6.45	13.41	7.63	8.02	7.63	13.41	6.45	7.00	6.45
130.0	6.97	5.97	12.75	12.10	11.78	12.10	12.75	5.97	6.97	5.97
132.5	6.62	5.80	9.39	16.26	18.16	16.26	9.39	5.80	6.62	5.80

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CANDELA TABULATION - (Cont.)

135.0	5.94	5.16	7.21	15.66	16.27	15.66	7.21	5.16	5.94	5.16
137.5	5.15	4.72	5.84	12.68	18.75	12.68	5.84	4.72	5.15	4.72
140.0	4.67	4.18	4.91	9.54	13.64	9.54	4.91	4.18	4.67	4.18
142.5	4.07	3.87	4.27	7.78	10.03	7.78	4.27	3.87	4.07	3.87
145.0	3.73	3.71	4.02	6.71	8.09	6.71	4.02	3.71	3.73	3.71
147.5	3.88	3.46	3.81	6.04	7.11	6.04	3.81	3.46	3.88	3.46
150.0	3.56	3.52	3.96	5.48	6.48	5.48	3.96	3.52	3.56	3.52
152.5	3.81	3.64	4.31	5.00	5.98	5.00	4.31	3.64	3.81	3.64
155.0	4.12	3.84	4.23	5.04	5.84	5.04	4.23	3.84	4.12	3.84
157.5	4.25	4.29	4.48	5.19	5.98	5.19	4.48	4.29	4.25	4.29
160.0	4.61	4.47	4.75	5.29	5.79	5.29	4.75	4.47	4.61	4.47
162.5	5.08	4.86	4.96	5.33	5.77	5.33	4.96	4.86	5.08	4.86
165.0	5.25	5.14	5.10	5.44	5.67	5.44	5.10	5.14	5.25	5.14
167.5	5.08	4.93	4.93	5.41	5.46	5.41	4.93	4.93	5.08	4.93
170.0	5.17	4.97	5.01	5.38	5.50	5.38	5.01	4.97	5.17	4.97
172.5	5.43	5.49	5.35	5.50	5.78	5.50	5.35	5.49	5.43	5.49
175.0	5.80	5.82	5.56	5.63	5.80	5.63	5.56	5.82	5.80	5.82
177.5	6.05	6.03	5.47	5.70	6.00	5.70	5.47	6.03	6.05	6.03
180.0	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75

**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	12543.61	12543.61	12543.61	12543.61	12543.61	12543.61	12543.61
2.5	12557.15	12581.35	12607.85	12581.35	12557.15	12520.85	12506.15
5.0	12619.45	12651.35	12666.60	12651.35	12619.45	12563.05	12555.00
7.5	12703.15	12751.15	12783.95	12751.15	12703.15	12635.10	12638.15
10.0	12822.35	12891.60	12880.80	12891.60	12822.35	12749.95	12736.25
12.5	12995.30	13019.35	13026.40	13019.35	12995.30	12888.95	12835.40
15.0	13170.95	13191.45	13175.80	13191.45	13170.95	13020.60	12912.50
17.5	13338.35	13391.40	13343.60	13391.40	13338.35	13060.00	12866.10
20.0	13421.35	13578.45	13540.05	13578.45	13421.35	12930.65	12621.50
22.5	13344.50	13708.30	13717.20	13708.30	13344.50	12591.90	12145.95
25.0	13074.35	13669.40	13693.35	13669.40	13074.35	12066.90	11518.35
27.5	12587.90	13357.65	13477.80	13357.65	12587.90	11419.50	10820.55
30.0	11971.35	12786.65	12862.10	12786.65	11971.35	10724.70	10091.58
32.5	11240.35	11890.80	11919.95	11890.80	11240.35	10031.62	9391.08
35.0	10391.62	10750.12	10658.24	10750.12	10391.62	9328.05	8601.32
37.5	9371.08	9441.67	9186.46	9441.67	9371.08	8517.48	7660.59
40.0	8211.32	7932.66	7555.70	7932.66	8211.32	7563.34	6478.90
42.5	6909.30	6242.12	5841.80	6242.12	6909.30	6363.03	5036.01
45.0	5459.02	4541.52	4117.93	4541.52	5459.02	4924.99	3516.82
47.5	3989.06	2998.72	2678.92	2998.72	3989.06	3442.36	2160.06
50.0	2578.04	1769.68	1529.23	1769.68	2578.04	2123.74	1287.92
52.5	1482.61	970.29	855.90	970.29	1482.61	1225.35	988.10
55.0	808.15	564.08	497.91	564.08	808.15	747.77	962.15
57.5	513.23	431.89	450.08	431.89	513.23	565.66	884.87
60.0	403.46	395.07	413.88	395.07	403.46	489.64	738.24
62.5	341.98	360.89	397.93	360.89	341.98	421.64	623.20
65.0	291.62	341.71	362.45	341.71	291.62	356.02	542.14
67.5	256.09	312.65	328.92	312.65	256.09	295.22	450.46
70.0	232.33	284.86	304.00	284.86	232.33	242.38	364.47
72.5	211.40	256.39	277.56	256.39	211.40	191.75	272.62
75.0	189.48	221.43	230.17	221.43	189.48	145.95	207.80
77.5	166.87	195.77	221.37	195.77	166.87	110.59	170.01
80.0	138.51	173.84	209.90	173.84	138.51	85.49	116.76

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CANDELA TABULATION - (Cont.)

82.5	119.90	186.35	232.94	186.35	119.90	70.26	75.04
85.0	120.58	199.76	298.01	199.76	120.58	60.48	49.34
87.5	127.08	194.79	254.34	194.79	127.08	54.10	31.81
90.0	120.27	144.09	215.75	144.09	120.27	43.71	19.21
92.5	80.86	84.44	145.69	84.44	80.86	36.19	14.80
95.0	34.86	36.38	68.51	36.38	34.86	28.02	17.01
97.5	12.07	16.13	23.40	16.13	12.07	12.94	21.19
100.0	8.53	12.81	16.55	12.81	8.53	8.55	22.85
102.5	7.79	10.97	13.52	10.97	7.79	8.72	21.99
105.0	7.01	10.00	12.14	10.00	7.01	8.99	19.71
107.5	6.26	8.92	11.14	8.92	6.26	8.79	17.32
110.0	5.52	7.86	10.16	7.86	5.52	8.14	15.07
112.5	5.01	6.64	9.15	6.64	5.01	7.32	12.86
115.0	4.69	5.56	7.94	5.56	4.69	6.79	11.06
117.5	4.63	5.04	6.98	5.04	4.63	6.93	9.43
120.0	5.16	4.79	6.28	4.79	5.16	7.40	8.43
122.5	6.32	5.18	6.14	5.18	6.32	7.55	7.73
125.0	9.54	5.67	6.63	5.67	9.54	7.09	7.23
127.5	13.41	7.63	8.02	7.63	13.41	6.45	7.00
130.0	12.75	12.10	11.78	12.10	12.75	5.97	6.97
132.5	9.39	16.26	18.16	16.26	9.39	5.80	6.62
135.0	7.21	15.66	16.27	15.66	7.21	5.16	5.94
137.5	5.84	12.68	18.75	12.68	5.84	4.72	5.15
140.0	4.91	9.54	13.64	9.54	4.91	4.18	4.67
142.5	4.27	7.78	10.03	7.78	4.27	3.87	4.07
145.0	4.02	6.71	8.09	6.71	4.02	3.71	3.73
147.5	3.81	6.04	7.11	6.04	3.81	3.46	3.88
150.0	3.96	5.48	6.48	5.48	3.96	3.52	3.56
152.5	4.31	5.00	5.98	5.00	4.31	3.64	3.81
155.0	4.23	5.04	5.84	5.04	4.23	3.84	4.12
157.5	4.48	5.19	5.98	5.19	4.48	4.29	4.25
160.0	4.75	5.29	5.79	5.29	4.75	4.47	4.61
162.5	4.96	5.33	5.77	5.33	4.96	4.86	5.08
165.0	5.10	5.44	5.67	5.44	5.10	5.14	5.25
167.5	4.93	5.41	5.46	5.41	4.93	4.93	5.08
170.0	5.01	5.38	5.50	5.38	5.01	4.97	5.17
172.5	5.35	5.50	5.78	5.50	5.35	5.49	5.43
175.0	5.56	5.63	5.80	5.63	5.56	5.82	5.80
177.5	5.47	5.70	6.00	5.70	5.47	6.03	6.05
180.0	5.75	5.75	5.75	5.75	5.75	5.75	5.75

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4925.31	N.A.	22.20
0-30	10791.61	N.A.	48.70
0-40	16965.74	N.A.	76.50
0-60	21376.3	N.A.	96.40
0-80	21947.02	N.A.	99.00
0-90	22090.01	N.A.	99.60
10-90	20879.6	N.A.	94.10
20-40	12040.43	N.A.	54.30
20-50	15649.9	N.A.	70.60
40-70	4769.75	N.A.	21.50
60-80	570.71	N.A.	2.60
70-80	211.52	N.A.	1.00
80-90	143.00	N.A.	0.60
90-110	60.62	N.A.	0.30
90-120	67.50	N.A.	0.30
90-130	74.35	N.A.	0.30
90-150	85.11	N.A.	0.40
90-180	89.23	N.A.	0.40
110-180	28.61	N.A.	0.10
0-180	22179.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1210.42
10-20	3714.89
20-30	5866.3
30-40	6174.13
40-50	3609.46
50-60	801.10
60-70	359.19
70-80	211.52
80-90	143.00
90-100	49.55
100-110	11.07
110-120	6.89
120-130	6.84
130-140	7.40
140-150	3.37
150-160	2.13
160-170	1.46
170-180	0.53

IES INDOOR REPORT

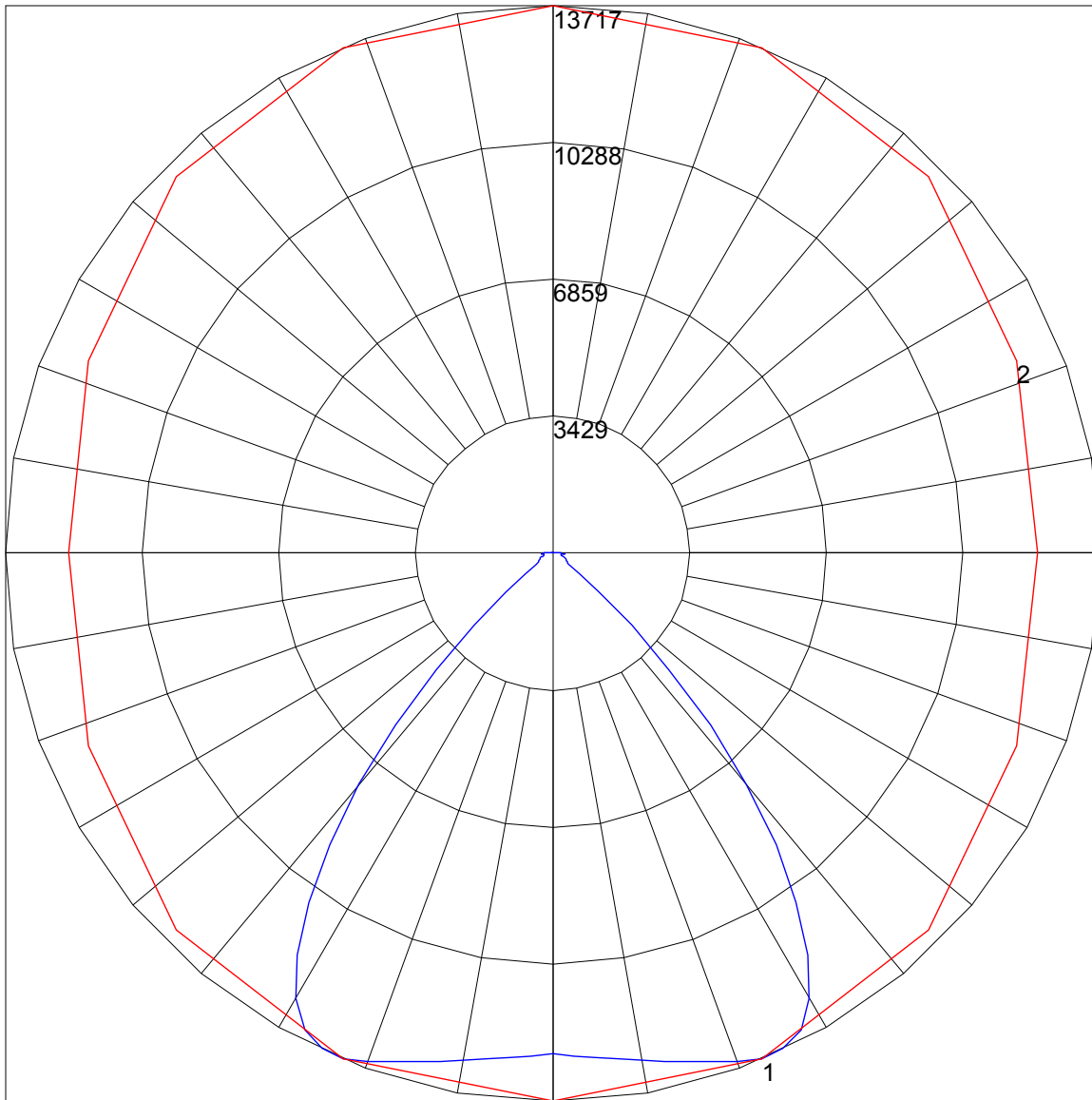
PHOTOMETRIC FILENAME : APX24LL40-UNV-M-LCP.IES

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	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	81	78	75	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	71	68	66
5	86	76	69	64	84	75	69	64	73	68	63	72	67	63	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39

POLAR GRAPH



Maximum Candela = 13717.2 Located At Horizontal Angle = 90, Vertical Angle = 22.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (22.5) (Through Max. Cd.)