

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

IESNA:LM-63-2002

[TEST] FO33716.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/27/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX24LL40-UNV-M-LFP

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

[LAMP] LED. LUMINAIRE OUTPUT = 22467 LMS

[TESTDATE] 10/27/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	22467
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	191.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.16
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	11250	10286	9588
55	6886	5638	5047
65	4606	3275	2996
75	3123	2038	2036
85	1342	1131	1436

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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	12588.89	12588.89	12588.89	12588.89	12588.89	12588.89	12588.89	12588.89	12588.89	12588.89
2.5	12545.70	12556.65	12586.60	12604.70	12617.20	12604.70	12586.60	12556.65	12545.70	12556.65
5.0	12514.75	12526.95	12581.40	12622.25	12624.60	12622.25	12581.40	12526.95	12514.75	12526.95
7.5	12452.05	12474.50	12556.90	12617.90	12632.55	12617.90	12556.90	12474.50	12452.05	12474.50
10.0	12347.45	12394.85	12505.65	12613.45	12619.45	12613.45	12505.65	12394.85	12347.45	12394.85
12.5	12184.05	12270.75	12426.60	12549.90	12567.95	12549.90	12426.60	12270.75	12184.05	12270.75
15.0	11949.35	12084.25	12291.70	12442.05	12458.80	12442.05	12291.70	12084.25	11949.35	12084.25
17.5	11634.05	11816.80	12079.55	12268.00	12291.45	12268.00	12079.55	11816.80	11634.05	11816.80
20.0	11229.25	11455.70	11782.60	12004.50	12027.10	12004.50	11782.60	11455.70	11229.25	11455.70
22.5	10730.35	11000.75	11386.75	11653.45	11665.75	11653.45	11386.75	11000.75	10730.35	11000.75
25.0	10143.30	10453.30	10892.60	11173.60	11176.45	11173.60	10892.60	10453.30	10143.30	10453.30
27.5	9488.61	9826.64	10300.67	10573.00	10568.64	10573.00	10300.67	9826.64	9488.61	9826.64
30.0	8768.06	9131.69	9619.95	9859.44	9852.86	9859.44	9619.95	9131.69	8768.06	9131.69
32.5	8002.55	8386.44	8853.43	9036.62	9015.70	9036.62	8853.43	8386.44	8002.55	8386.44
35.0	7202.90	7597.62	8026.01	8153.81	8130.51	8153.81	8026.01	7597.62	7202.90	7597.62
37.5	6388.14	6787.16	7168.87	7242.50	7189.16	7242.50	7168.87	6787.16	6388.14	6787.16
40.0	5586.76	5980.16	6318.98	6330.94	6270.17	6330.94	6318.98	5980.16	5586.76	5980.16
42.5	4836.95	5204.07	5486.26	5435.60	5367.17	5435.60	5486.26	5204.07	4836.95	5204.07
45.0	4145.78	4476.26	4700.24	4597.84	4516.61	4597.84	4700.24	4476.26	4145.78	4476.26
47.5	3521.12	3805.79	3988.82	3859.48	3786.54	3859.48	3988.82	3805.79	3521.12	3805.79
50.0	2982.36	3212.09	3348.67	3215.74	3149.26	3215.74	3348.67	3212.09	2982.36	3212.09
52.5	2529.57	2706.62	2799.39	2674.27	2618.55	2674.27	2799.39	2706.62	2529.57	2706.62
55.0	2150.27	2279.29	2338.44	2220.03	2175.60	2220.03	2338.44	2279.29	2150.27	2279.29
57.5	1828.79	1922.05	1962.75	1858.12	1822.84	1858.12	1962.75	1922.05	1828.79	1922.05
60.0	1558.88	1624.03	1649.91	1569.75	1546.29	1569.75	1649.91	1624.03	1558.88	1624.03
62.5	1331.45	1373.16	1392.19	1334.76	1317.24	1334.76	1392.19	1373.16	1331.45	1373.16
65.0	1135.59	1161.64	1178.92	1140.86	1132.42	1140.86	1178.92	1161.64	1135.59	1161.64
67.5	961.73	981.01	999.91	979.54	977.44	979.54	999.91	981.01	961.73	981.01
70.0	807.86	823.18	847.81	844.26	847.61	844.26	847.81	823.18	807.86	823.18
72.5	669.26	683.15	716.54	727.49	736.19	727.49	716.54	683.15	669.26	683.15
75.0	541.43	556.45	599.49	624.24	638.18	624.24	599.49	556.45	541.43	556.45
77.5	420.67	440.47	493.62	531.83	553.22	531.83	493.62	440.47	420.67	440.47
80.0	308.44	334.54	398.99	448.92	475.25	448.92	398.99	334.54	308.44	334.54
82.5	209.37	241.41	317.23	375.35	406.43	375.35	317.23	241.41	209.37	241.41
85.0	127.28	166.88	248.26	310.00	343.74	310.00	248.26	166.88	127.28	166.88
87.5	70.24	116.53	197.79	258.91	291.33	258.91	197.79	116.53	70.24	116.53
90.0	47.56	84.62	157.65	214.50	245.60	214.50	157.65	84.62	47.56	84.62
92.5	45.28	68.34	127.43	176.42	204.05	176.42	127.43	68.34	45.28	68.34
95.0	45.02	62.86	107.38	147.71	170.80	147.71	107.38	62.86	45.02	62.86
97.5	45.06	59.53	96.43	129.07	147.17	129.07	96.43	59.53	45.06	59.53
100.0	44.54	56.48	91.06	118.97	132.56	118.97	91.06	56.48	44.54	56.48
102.5	43.12	53.36	86.94	113.64	124.57	113.64	86.94	53.36	43.12	53.36
105.0	41.32	50.38	83.67	110.82	120.50	110.82	83.67	50.38	41.32	50.38
107.5	38.53	47.07	80.53	108.22	117.39	108.22	80.53	47.07	38.53	47.07
110.0	35.68	43.60	77.02	104.73	113.85	104.73	77.02	43.60	35.68	43.60
112.5	31.91	39.64	73.29	100.91	110.03	100.91	73.29	39.64	31.91	39.64
115.0	28.64	35.61	68.93	96.12	105.19	96.12	68.93	35.61	28.64	35.61
117.5	25.24	31.25	64.20	90.83	99.80	90.83	64.20	31.25	25.24	31.25
120.0	22.37	26.94	59.56	85.76	94.70	85.76	59.56	26.94	22.37	26.94
122.5	19.40	22.87	54.55	80.36	88.22	80.36	54.55	22.87	19.40	22.87
125.0	16.43	18.86	49.50	74.23	82.61	74.23	49.50	18.86	16.43	18.86
127.5	14.34	15.20	44.02	68.27	77.11	68.27	44.02	15.20	14.34	15.20
130.0	12.23	12.06	38.47	62.92	71.04	62.92	38.47	12.06	12.23	12.06
132.5	10.67	10.12	33.53	56.60	64.05	56.60	33.53	10.12	10.67	10.12

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CANDELA TABULATION - (Cont.)

135.0	9.40	8.02	27.98	50.63	57.58	50.63	27.98	8.02	9.40	8.02
137.5	7.91	6.88	22.83	43.90	50.69	43.90	22.83	6.88	7.91	6.88
140.0	6.95	5.96	17.98	37.74	43.87	37.74	17.98	5.96	6.95	5.96
142.5	6.14	5.34	13.64	31.29	37.05	31.29	13.64	5.34	6.14	5.34
145.0	5.05	4.51	9.66	25.57	30.69	25.57	9.66	4.51	5.05	4.51
147.5	4.44	3.99	6.64	19.70	24.43	19.70	6.64	3.99	4.44	3.99
150.0	3.84	3.56	4.77	14.64	18.73	14.64	4.77	3.56	3.84	3.56
152.5	3.54	3.26	4.15	10.60	13.79	10.60	4.15	3.26	3.54	3.26
155.0	3.39	3.22	3.92	7.30	9.80	7.30	3.92	3.22	3.39	3.22
157.5	3.53	3.64	4.09	5.48	7.40	5.48	4.09	3.64	3.53	3.64
160.0	4.00	3.90	4.06	5.24	5.46	5.24	4.06	3.90	4.00	3.90
162.5	4.27	4.35	4.42	4.76	5.12	4.76	4.42	4.35	4.27	4.35
165.0	4.52	4.43	4.34	5.03	5.05	5.03	4.34	4.43	4.52	4.43
167.5	4.48	4.30	4.36	4.71	4.98	4.71	4.36	4.30	4.48	4.30
170.0	4.51	4.13	4.22	4.66	4.73	4.66	4.22	4.13	4.51	4.13
172.5	4.73	4.84	4.82	4.96	4.97	4.96	4.82	4.84	4.73	4.84
175.0	5.02	5.00	4.89	4.97	5.22	4.97	4.89	5.00	5.02	5.00
177.5	5.30	5.20	4.74	4.80	5.05	4.80	4.74	5.20	5.30	5.20
180.0	5.02	5.02	5.02	5.02	5.02	5.02	5.02	5.02	5.02	5.02

**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	12588.89	12588.89	12588.89	12588.89	12588.89	12588.89	12588.89
2.5	12586.60	12604.70	12617.20	12604.70	12586.60	12556.65	12545.70
5.0	12581.40	12622.25	12624.60	12622.25	12581.40	12526.95	12514.75
7.5	12556.90	12617.90	12632.55	12617.90	12556.90	12474.50	12452.05
10.0	12505.65	12613.45	12619.45	12613.45	12505.65	12394.85	12347.45
12.5	12426.60	12549.90	12567.95	12549.90	12426.60	12270.75	12184.05
15.0	12291.70	12442.05	12458.80	12442.05	12291.70	12084.25	11949.35
17.5	12079.55	12268.00	12291.45	12268.00	12079.55	11816.80	11634.05
20.0	11782.60	12004.50	12027.10	12004.50	11782.60	11455.70	11229.25
22.5	11386.75	11653.45	11665.75	11653.45	11386.75	11000.75	10730.35
25.0	10892.60	11173.60	11176.45	11173.60	10892.60	10453.30	10143.30
27.5	10300.67	10573.00	10568.64	10573.00	10300.67	9826.64	9488.61
30.0	9619.95	9859.44	9852.86	9859.44	9619.95	9131.69	8768.06
32.5	8853.43	9036.62	9015.70	9036.62	8853.43	8386.44	8002.55
35.0	8026.01	8153.81	8130.51	8153.81	8026.01	7597.62	7202.90
37.5	7168.87	7242.50	7189.16	7242.50	7168.87	6787.16	6388.14
40.0	6318.98	6330.94	6270.17	6330.94	6318.98	5980.16	5586.76
42.5	5486.26	5435.60	5367.17	5435.60	5486.26	5204.07	4836.95
45.0	4700.24	4597.84	4516.61	4597.84	4700.24	4476.26	4145.78
47.5	3988.82	3859.48	3786.54	3859.48	3988.82	3805.79	3521.12
50.0	3348.67	3215.74	3149.26	3215.74	3348.67	3212.09	2982.36
52.5	2799.39	2674.27	2618.55	2674.27	2799.39	2706.62	2529.57
55.0	2338.44	2220.03	2175.60	2220.03	2338.44	2279.29	2150.27
57.5	1962.75	1858.12	1822.84	1858.12	1962.75	1922.05	1828.79
60.0	1649.91	1569.75	1546.29	1569.75	1649.91	1624.03	1558.88
62.5	1392.19	1334.76	1317.24	1334.76	1392.19	1373.16	1331.45
65.0	1178.92	1140.86	1132.42	1140.86	1178.92	1161.64	1135.59
67.5	999.91	979.54	977.44	979.54	999.91	981.01	961.73
70.0	847.81	844.26	847.61	844.26	847.81	823.18	807.86
72.5	716.54	727.49	736.19	727.49	716.54	683.15	669.26
75.0	599.49	624.24	638.18	624.24	599.49	556.45	541.43
77.5	493.62	531.83	553.22	531.83	493.62	440.47	420.67
80.0	398.99	448.92	475.25	448.92	398.99	334.54	308.44

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CANDELA TABULATION - (Cont.)

82.5	317.23	375.35	406.43	375.35	317.23	241.41	209.37
85.0	248.26	310.00	343.74	310.00	248.26	166.88	127.28
87.5	197.79	258.91	291.33	258.91	197.79	116.53	70.24
90.0	157.65	214.50	245.60	214.50	157.65	84.62	47.56
92.5	127.43	176.42	204.05	176.42	127.43	68.34	45.28
95.0	107.38	147.71	170.80	147.71	107.38	62.86	45.02
97.5	96.43	129.07	147.17	129.07	96.43	59.53	45.06
100.0	91.06	118.97	132.56	118.97	91.06	56.48	44.54
102.5	86.94	113.64	124.57	113.64	86.94	53.36	43.12
105.0	83.67	110.82	120.50	110.82	83.67	50.38	41.32
107.5	80.53	108.22	117.39	108.22	80.53	47.07	38.53
110.0	77.02	104.73	113.85	104.73	77.02	43.60	35.68
112.5	73.29	100.91	110.03	100.91	73.29	39.64	31.91
115.0	68.93	96.12	105.19	96.12	68.93	35.61	28.64
117.5	64.20	90.83	99.80	90.83	64.20	31.25	25.24
120.0	59.56	85.76	94.70	85.76	59.56	26.94	22.37
122.5	54.55	80.36	88.22	80.36	54.55	22.87	19.40
125.0	49.50	74.23	82.61	74.23	49.50	18.86	16.43
127.5	44.02	68.27	77.11	68.27	44.02	15.20	14.34
130.0	38.47	62.92	71.04	62.92	38.47	12.06	12.23
132.5	33.53	56.60	64.05	56.60	33.53	10.12	10.67
135.0	27.98	50.63	57.58	50.63	27.98	8.02	9.40
137.5	22.83	43.90	50.69	43.90	22.83	6.88	7.91
140.0	17.98	37.74	43.87	37.74	17.98	5.96	6.95
142.5	13.64	31.29	37.05	31.29	13.64	5.34	6.14
145.0	9.66	25.57	30.69	25.57	9.66	4.51	5.05
147.5	6.64	19.70	24.43	19.70	6.64	3.99	4.44
150.0	4.77	14.64	18.73	14.64	4.77	3.56	3.84
152.5	4.15	10.60	13.79	10.60	4.15	3.26	3.54
155.0	3.92	7.30	9.80	7.30	3.92	3.22	3.39
157.5	4.09	5.48	7.40	5.48	4.09	3.64	3.53
160.0	4.06	5.24	5.46	5.24	4.06	3.90	4.00
162.5	4.42	4.76	5.12	4.76	4.42	4.35	4.27
165.0	4.34	5.03	5.05	5.03	4.34	4.43	4.52
167.5	4.36	4.71	4.98	4.71	4.36	4.30	4.48
170.0	4.22	4.66	4.73	4.66	4.22	4.13	4.51
172.5	4.82	4.96	4.97	4.96	4.82	4.84	4.73
175.0	4.89	4.97	5.22	4.97	4.89	5.00	5.02
177.5	4.74	4.80	5.05	4.80	4.74	5.20	5.30
180.0	5.02	5.02	5.02	5.02	5.02	5.02	5.02

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4645.27	N.A.	20.70
0-30	9577.49	N.A.	42.60
0-40	14462.07	N.A.	64.40
0-60	20038.63	N.A.	89.20
0-80	21836.41	N.A.	97.20
0-90	22111.94	N.A.	98.40
10-90	20914.01	N.A.	93.10
20-40	9816.8	N.A.	43.70
20-50	13335.65	N.A.	59.40
40-70	6740.54	N.A.	30.00
60-80	1797.77	N.A.	8.00
70-80	633.79	N.A.	2.80
80-90	275.54	N.A.	1.20
90-110	208.00	N.A.	0.90
90-120	274.28	N.A.	1.20
90-130	317.61	N.A.	1.40
90-150	350.50	N.A.	1.60
90-180	354.97	N.A.	1.60
110-180	146.98	N.A.	0.70
0-180	22466.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1197.94
10-20	3447.33
20-30	4932.22
30-40	4884.58
40-50	3518.85
50-60	2057.71
60-70	1163.98
70-80	633.79
80-90	275.54
90-100	121.67
100-110	86.33
110-120	66.28
120-130	43.33
130-140	23.50
140-150	9.39
150-160	2.73
160-170	1.29
170-180	0.46

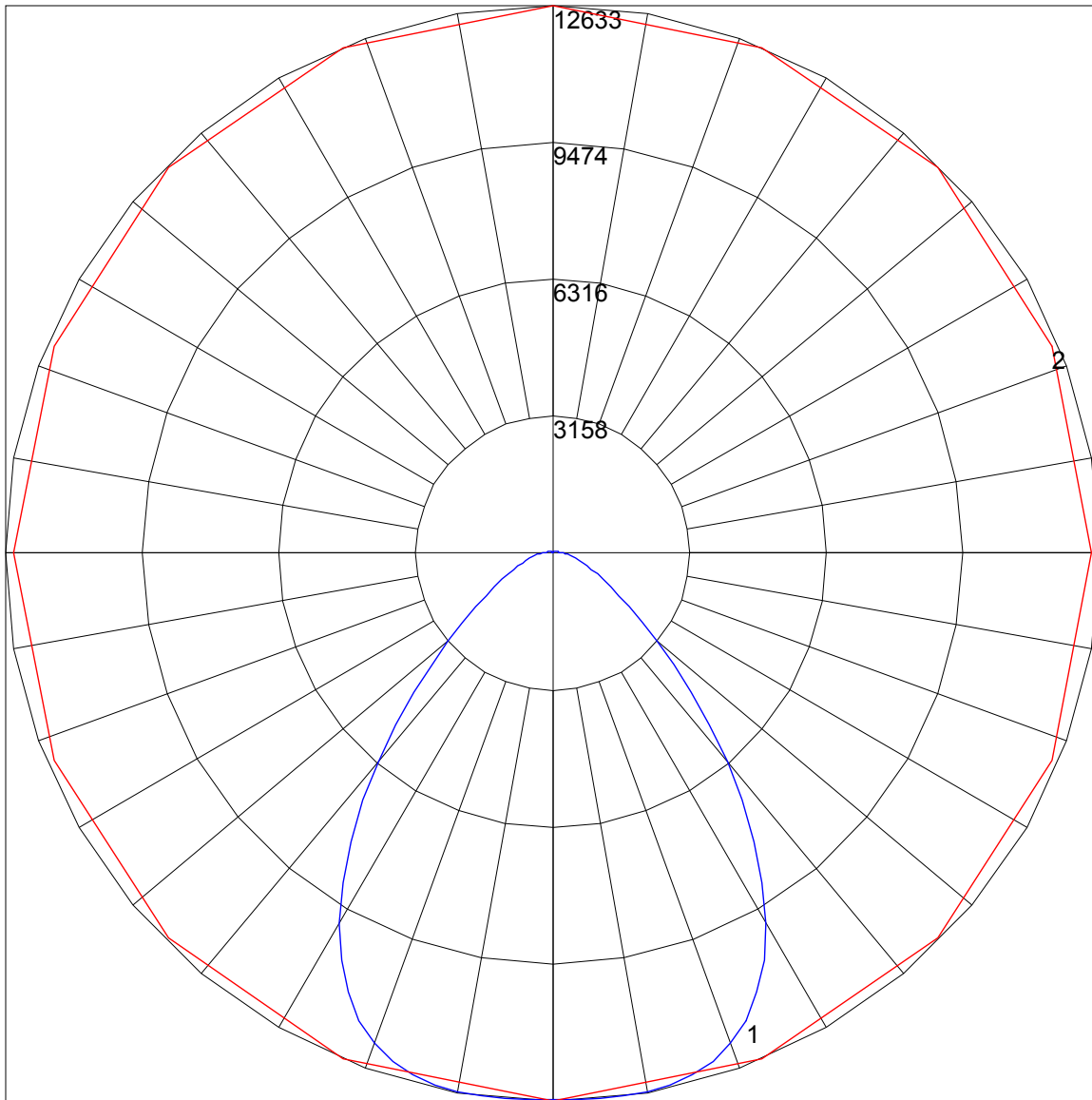
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	98
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	92	90	89	87
2	103	96	90	86	100	94	89	85	90	86	82	87	83	80	84	81	78	76
3	95	87	80	75	93	85	79	74	82	77	72	79	75	71	77	73	70	68
4	89	79	71	66	86	77	70	65	75	69	64	72	67	63	70	66	62	60
5	83	72	64	58	81	71	63	58	68	62	57	66	61	57	64	60	56	54
6	77	66	58	52	75	65	57	52	63	56	52	61	55	51	59	54	51	49
7	72	60	53	47	71	60	52	47	58	52	47	56	51	46	55	50	46	44
8	68	56	48	43	66	55	48	43	54	47	43	52	47	42	51	46	42	40
9	64	52	44	40	62	51	44	39	50	44	39	49	43	39	48	42	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	39	36	34

POLAR GRAPH



Maximum Candela = 12632.55 Located At Horizontal Angle = 90, Vertical Angle = 7.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (7.5) (Through Max. Cd.)