

PHILIPS

PHILIPS

Day-Brite



IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX12LL40-UNV-N-LCP.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO33952.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 12/22/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX12LL40-UNV-N-LCP

[LUMINAIRE] PHILIPS APX 4-LP 3.2.1 4000K BOARDS 95W DRIVER NARROW OPTICS NO RESISTOR DP LENS

[LAMP] LED. LUMINAIRE OUTPUT = 11424 LMS

[TESTDATE] 12/22/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11424
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	95.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.02
Spacing Criterion (90-270)	0.82
Spacing Criterion (Diagonal)	0.86
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	1501	797	715
55	1607	615	519
65	1134	428	508
75	590	461	408
85	375	471	572

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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	13454.94	13454.94	13454.94	13454.94	13454.94	13454.94	13454.94	13454.94	13454.94	13454.94
2.5	13453.15	13448.15	13436.70	13384.95	13312.60	13384.95	13436.70	13448.15	13453.15	13448.15
5.0	13448.35	13394.30	13333.30	13222.55	13131.50	13222.55	13333.30	13394.30	13448.35	13394.30
7.5	13415.60	13309.20	13158.85	12934.95	12839.30	12934.95	13158.85	13309.20	13415.60	13309.20
10.0	13332.90	13186.00	12879.70	12555.90	12426.75	12555.90	12879.70	13186.00	13332.90	13186.00
12.5	13143.30	12964.05	12513.05	12045.90	11860.70	12045.90	12513.05	12964.05	13143.30	12964.05
15.0	12836.95	12623.15	12024.90	11418.85	11146.90	11418.85	12024.90	12623.15	12836.95	12623.15
17.5	12385.65	12107.20	11379.10	10634.29	10338.27	10634.29	11379.10	12107.20	12385.65	12107.20
20.0	11812.40	11456.40	10571.50	9691.75	9404.15	9691.75	10571.50	11456.40	11812.40	11456.40
22.5	11095.80	10669.50	9622.11	8631.61	8256.59	8631.61	9622.11	10669.50	11095.80	10669.50
25.0	10198.60	9721.66	8551.93	7452.98	7035.82	7452.98	8551.93	9721.66	10198.60	9721.66
27.5	8966.65	8537.95	7327.13	6194.85	5834.91	6194.85	7327.13	8537.95	8966.65	8537.95
30.0	7262.02	6959.40	5911.98	4930.49	4619.81	4930.49	5911.98	6959.40	7262.02	6959.40
32.5	5178.46	5050.83	4358.83	3655.37	3402.72	3655.37	4358.83	5050.83	5178.46	5050.83
35.0	3299.68	3217.62	2831.20	2412.47	2284.11	2412.47	2831.20	3217.62	3299.68	3217.62
37.5	1919.84	1763.20	1599.81	1389.71	1358.23	1389.71	1599.81	1763.20	1919.84	1763.20
40.0	1131.88	912.66	861.79	757.70	735.34	757.70	861.79	912.66	1131.88	912.66
42.5	741.01	532.86	511.27	464.13	447.57	464.13	511.27	532.86	741.01	532.86
45.0	600.53	395.62	388.57	364.43	356.88	364.43	388.57	395.62	600.53	395.62
47.5	555.66	357.65	349.20	330.03	324.26	330.03	349.20	357.65	555.66	357.65
50.0	522.21	331.86	322.02	303.99	296.39	303.99	322.02	331.86	522.21	331.86
52.5	535.48	307.15	294.94	276.86	261.86	276.86	294.94	307.15	535.48	307.15
55.0	544.57	285.24	270.63	241.35	235.56	241.35	270.63	285.24	544.57	285.24
57.5	482.55	264.01	246.00	217.18	221.17	217.18	246.00	264.01	482.55	264.01
60.0	393.62	237.17	221.53	206.06	216.72	206.06	221.53	237.17	393.62	237.17
62.5	354.05	209.80	185.91	202.71	212.60	202.71	185.91	209.80	354.05	209.80
65.0	303.58	187.85	162.66	199.68	200.62	199.68	162.66	187.85	303.58	187.85
67.5	219.93	162.74	150.27	186.29	187.21	186.29	150.27	162.74	219.93	162.74
70.0	152.37	136.19	147.06	172.76	174.37	172.76	147.06	136.19	152.37	136.19
72.5	125.72	112.07	149.41	159.21	160.43	159.21	149.41	112.07	125.72	112.07
75.0	110.99	91.51	141.99	141.59	132.26	141.59	141.99	91.51	110.99	91.51
77.5	100.81	77.35	132.40	111.20	109.62	111.20	132.40	77.35	100.81	77.35
80.0	83.42	67.94	108.57	102.45	110.31	102.45	108.57	67.94	83.42	67.94
82.5	60.02	64.68	98.48	116.87	125.88	116.87	98.48	64.68	60.02	64.68
85.0	38.65	64.56	106.51	137.96	138.90	137.96	106.51	64.56	38.65	64.56
87.5	25.22	76.32	130.53	139.77	128.97	139.77	130.53	76.32	25.22	76.32
90.0	15.75	67.97	124.19	117.73	108.64	117.73	124.19	67.97	15.75	67.97
92.5	13.31	59.32	89.59	68.71	59.21	68.71	89.59	59.32	13.31	59.32
95.0	17.29	51.58	40.52	24.38	22.90	24.38	40.52	51.58	17.29	51.58
97.5	20.51	20.86	10.77	10.98	11.30	10.98	10.77	20.86	20.51	20.86
100.0	18.14	7.95	7.25	8.25	8.61	8.25	7.25	7.95	18.14	7.95
102.5	14.13	6.90	6.12	6.89	7.21	6.89	6.12	6.90	14.13	6.90
105.0	10.54	6.59	5.21	6.37	6.71	6.37	5.21	6.59	10.54	6.59
107.5	7.95	5.84	4.23	5.51	5.96	5.51	4.23	5.84	7.95	5.84
110.0	6.20	4.80	3.41	4.33	4.88	4.33	3.41	4.80	6.20	4.80
112.5	4.91	3.79	2.94	3.22	3.67	3.22	2.94	3.79	4.91	3.79
115.0	3.76	3.14	2.61	2.44	2.67	2.44	2.61	3.14	3.76	3.14
117.5	2.76	3.45	2.37	2.00	2.12	2.00	2.37	3.45	2.76	3.45
120.0	1.99	3.77	1.96	1.89	1.84	1.89	1.96	3.77	1.99	3.77
122.5	1.27	2.66	2.02	1.62	1.60	1.62	2.02	2.66	1.27	2.66
125.0	0.65	1.14	4.63	1.14	1.25	1.14	4.63	1.14	0.65	1.14
127.5	0.33	0.31	8.61	1.59	1.24	1.59	8.61	0.31	0.33	0.31
130.0	0.18	0.00	8.01	4.38	2.73	4.38	8.01	0.00	0.18	0.00
132.5	0.13	0.09	4.22	9.56	6.94	9.56	4.22	0.09	0.13	0.09

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CANDELA TABULATION - (Cont.)

135.0	0.16	0.21	2.37	9.87	10.15	9.87	2.37	0.21	0.16	0.21
137.5	0.28	0.35	1.65	5.67	8.26	5.67	1.65	0.35	0.28	0.35
140.0	0.38	0.58	1.41	3.55	5.06	3.55	1.41	0.58	0.38	0.58
142.5	0.58	0.82	1.43	2.78	3.37	2.78	1.43	0.82	0.58	0.82
145.0	0.80	1.05	1.52	2.50	2.77	2.50	1.52	1.05	0.80	1.05
147.5	1.09	1.35	1.67	2.39	2.55	2.39	1.67	1.35	1.09	1.35
150.0	1.44	1.61	1.91	2.44	2.48	2.44	1.91	1.61	1.44	1.61
152.5	1.74	1.89	2.14	2.51	2.50	2.51	2.14	1.89	1.74	1.89
155.0	2.13	2.34	2.49	2.60	2.76	2.60	2.49	2.34	2.13	2.34
157.5	2.57	2.67	2.78	2.91	3.06	2.91	2.78	2.67	2.57	2.67
160.0	2.98	3.13	3.17	3.27	3.38	3.27	3.17	3.13	2.98	3.13
162.5	3.35	3.50	3.53	3.63	3.71	3.63	3.53	3.50	3.35	3.50
165.0	3.75	3.83	3.84	4.04	4.04	4.04	3.84	3.83	3.75	3.83
167.5	3.81	3.95	4.00	4.31	4.38	4.31	4.00	3.95	3.81	3.95
170.0	4.08	4.22	4.22	4.53	4.67	4.53	4.22	4.22	4.08	4.22
172.5	4.57	4.63	4.61	4.93	5.10	4.93	4.61	4.63	4.57	4.63
175.0	4.90	5.01	4.92	5.23	5.42	5.23	4.92	5.01	4.90	5.01
177.5	5.25	5.33	4.98	5.36	5.54	5.36	4.98	5.33	5.25	5.33
180.0	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28

**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	13454.94	13454.94	13454.94	13454.94	13454.94	13454.94	13454.94
2.5	13436.70	13384.95	13312.60	13384.95	13436.70	13448.15	13453.15
5.0	13333.30	13222.55	13131.50	13222.55	13333.30	13394.30	13448.35
7.5	13158.85	12934.95	12839.30	12934.95	13158.85	13309.20	13415.60
10.0	12879.70	12555.90	12426.75	12555.90	12879.70	13186.00	13332.90
12.5	12513.05	12045.90	11860.70	12045.90	12513.05	12964.05	13143.30
15.0	12024.90	11418.85	11146.90	11418.85	12024.90	12623.15	12836.95
17.5	11379.10	10634.29	10338.27	10634.29	11379.10	12107.20	12385.65
20.0	10571.50	9691.75	9404.15	9691.75	10571.50	11456.40	11812.40
22.5	9622.11	8631.61	8256.59	8631.61	9622.11	10669.50	11095.80
25.0	8551.93	7452.98	7035.82	7452.98	8551.93	9721.66	10198.60
27.5	7327.13	6194.85	5834.91	6194.85	7327.13	8537.95	8966.65
30.0	5911.98	4930.49	4619.81	4930.49	5911.98	6959.40	7262.02
32.5	4358.83	3655.37	3402.72	3655.37	4358.83	5050.83	5178.46
35.0	2831.20	2412.47	2284.11	2412.47	2831.20	3217.62	3299.68
37.5	1599.81	1389.71	1358.23	1389.71	1599.81	1763.20	1919.84
40.0	861.79	757.70	735.34	757.70	861.79	912.66	1131.88
42.5	511.27	464.13	447.57	464.13	511.27	532.86	741.01
45.0	388.57	364.43	356.88	364.43	388.57	395.62	600.53
47.5	349.20	330.03	324.26	330.03	349.20	357.65	555.66
50.0	322.02	303.99	296.39	303.99	322.02	331.86	522.21
52.5	294.94	276.86	261.86	276.86	294.94	307.15	535.48
55.0	270.63	241.35	235.56	241.35	270.63	285.24	544.57
57.5	246.00	217.18	221.17	217.18	246.00	264.01	482.55
60.0	221.53	206.06	216.72	206.06	221.53	237.17	393.62
62.5	185.91	202.71	212.60	202.71	185.91	209.80	354.05
65.0	162.66	199.68	200.62	199.68	162.66	187.85	303.58
67.5	150.27	186.29	187.21	186.29	150.27	162.74	219.93
70.0	147.06	172.76	174.37	172.76	147.06	136.19	152.37
72.5	149.41	159.21	160.43	159.21	149.41	112.07	125.72
75.0	141.99	141.59	132.26	141.59	141.99	91.51	110.99
77.5	132.40	111.20	109.62	111.20	132.40	77.35	100.81
80.0	108.57	102.45	110.31	102.45	108.57	67.94	83.42

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CANDELA TABULATION - (Cont.)

82.5	98.48	116.87	125.88	116.87	98.48	64.68	60.02
85.0	106.51	137.96	138.90	137.96	106.51	64.56	38.65
87.5	130.53	139.77	128.97	139.77	130.53	76.32	25.22
90.0	124.19	117.73	108.64	117.73	124.19	67.97	15.75
92.5	89.59	68.71	59.21	68.71	89.59	59.32	13.31
95.0	40.52	24.38	22.90	24.38	40.52	51.58	17.29
97.5	10.77	10.98	11.30	10.98	10.77	20.86	20.51
100.0	7.25	8.25	8.61	8.25	7.25	7.95	18.14
102.5	6.12	6.89	7.21	6.89	6.12	6.90	14.13
105.0	5.21	6.37	6.71	6.37	5.21	6.59	10.54
107.5	4.23	5.51	5.96	5.51	4.23	5.84	7.95
110.0	3.41	4.33	4.88	4.33	3.41	4.80	6.20
112.5	2.94	3.22	3.67	3.22	2.94	3.79	4.91
115.0	2.61	2.44	2.67	2.44	2.61	3.14	3.76
117.5	2.37	2.00	2.12	2.00	2.37	3.45	2.76
120.0	1.96	1.89	1.84	1.89	1.96	3.77	1.99
122.5	2.02	1.62	1.60	1.62	2.02	2.66	1.27
125.0	4.63	1.14	1.25	1.14	4.63	1.14	0.65
127.5	8.61	1.59	1.24	1.59	8.61	0.31	0.33
130.0	8.01	4.38	2.73	4.38	8.01	0.00	0.18
132.5	4.22	9.56	6.94	9.56	4.22	0.09	0.13
135.0	2.37	9.87	10.15	9.87	2.37	0.21	0.16
137.5	1.65	5.67	8.26	5.67	1.65	0.35	0.28
140.0	1.41	3.55	5.06	3.55	1.41	0.58	0.38
142.5	1.43	2.78	3.37	2.78	1.43	0.82	0.58
145.0	1.52	2.50	2.77	2.50	1.52	1.05	0.80
147.5	1.67	2.39	2.55	2.39	1.67	1.35	1.09
150.0	1.91	2.44	2.48	2.44	1.91	1.61	1.44
152.5	2.14	2.51	2.50	2.51	2.14	1.89	1.74
155.0	2.49	2.60	2.76	2.60	2.49	2.34	2.13
157.5	2.78	2.91	3.06	2.91	2.78	2.67	2.57
160.0	3.17	3.27	3.38	3.27	3.17	3.13	2.98
162.5	3.53	3.63	3.71	3.63	3.53	3.50	3.35
165.0	3.84	4.04	4.04	4.04	3.84	3.83	3.75
167.5	4.00	4.31	4.38	4.31	4.00	3.95	3.81
170.0	4.22	4.53	4.67	4.53	4.22	4.22	4.08
172.5	4.61	4.93	5.10	4.93	4.61	4.63	4.57
175.0	4.92	5.23	5.42	5.23	4.92	5.01	4.90
177.5	4.98	5.36	5.54	5.36	4.98	5.33	5.25
180.0	5.28	5.28	5.28	5.28	5.28	5.28	5.28

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4598.51	N.A.	40.30
0-30	8454.17	N.A.	74.00
0-40	10298.36	N.A.	90.10
0-60	10926.05	N.A.	95.60
0-80	11253.82	N.A.	98.50
0-90	11360.79	N.A.	99.40
10-90	10104.02	N.A.	88.40
20-40	5699.85	N.A.	49.90
20-50	6064.15	N.A.	53.10
40-70	824.51	N.A.	7.20
60-80	327.77	N.A.	2.90
70-80	130.95	N.A.	1.10
80-90	106.97	N.A.	0.90
90-110	51.79	N.A.	0.50
90-120	54.88	N.A.	0.50
90-130	57.03	N.A.	0.50
90-150	61.01	N.A.	0.50
90-180	63.68	N.A.	0.60
110-180	11.89	N.A.	0.10
0-180	11424.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1256.77
10-20	3341.74
20-30	3855.66
30-40	1844.19
40-50	364.30
50-60	263.39
60-70	196.82
70-80	130.95
80-90	106.97
90-100	44.67
100-110	7.12
110-120	3.10
120-130	2.15
130-140	2.83
140-150	1.15
150-160	1.14
160-170	1.07
170-180	0.46

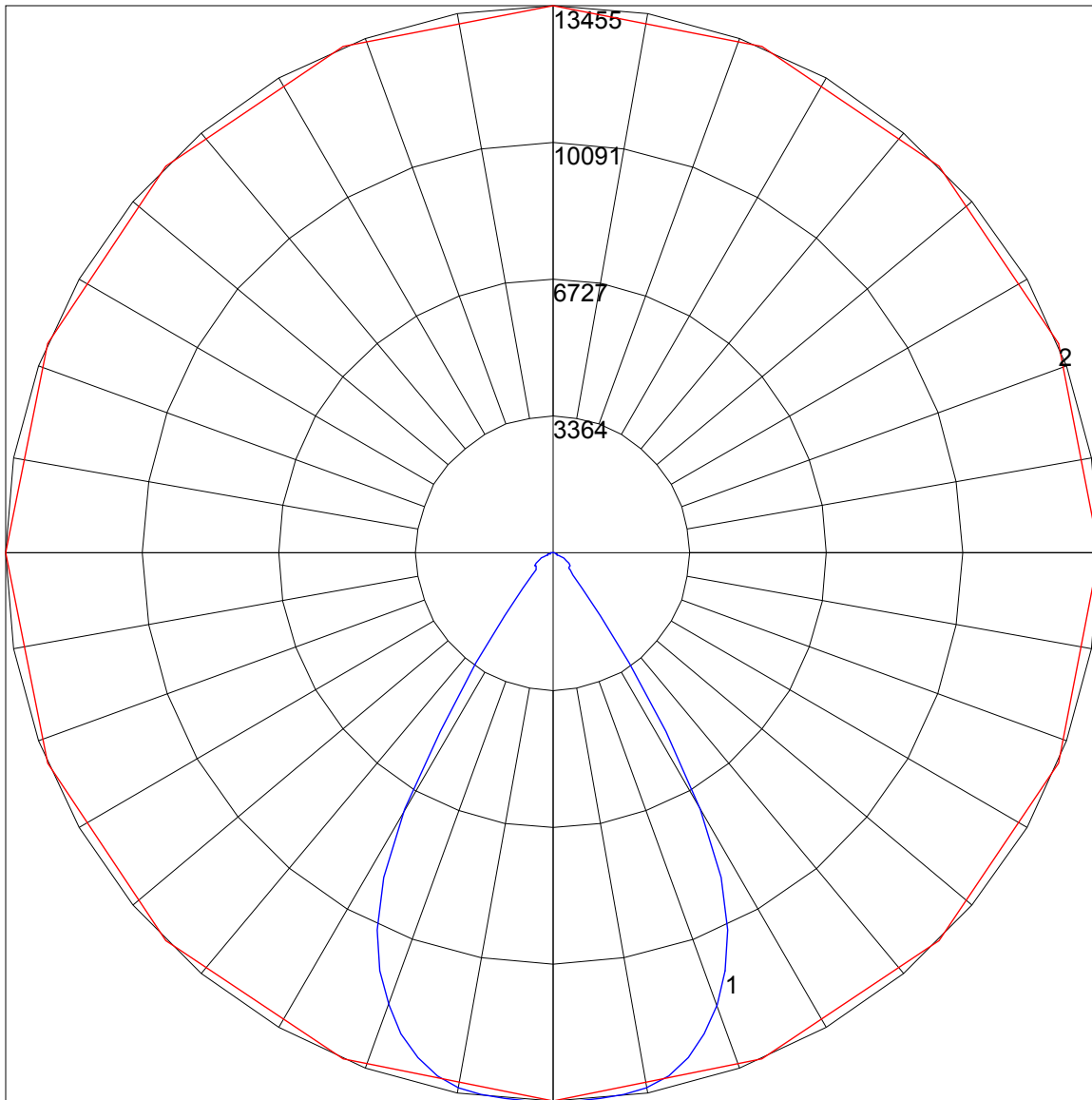
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	106	106	106	102	102	102	99
1	113	110	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	102	95	90	86	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	89	83	79	95	88	82	78	85	81	77	83	79	76	81	78	75	74
5	92	83	77	73	90	82	77	73	80	76	72	79	74	71	77	73	70	69
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65
7	83	74	68	63	82	73	67	63	72	67	63	70	66	63	69	65	62	61
8	79	70	64	60	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	76	66	60	56	74	65	60	56	64	59	56	63	59	56	63	58	55	54
10	72	63	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51

POLAR GRAPH



Maximum Candela = 13454.94 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.)