

PHILIPS**PHILIPS****Day-Brite****CFI****IES INDOOR REPORT****PHOTOMETRIC FILENAME : APX16LL40-UNV-W-LCP.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] FO33730.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/28/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX16LL40-UNV-W-LCP

[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K 2-95W DRIVERS 4.7K RESISTORS WIDE OPTICS DP LENS

[LAMP] LED. LUMINAIRE OUTPUT = 15169 LMS

[TESTDATE] 10/28/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15169
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	122.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.92
Spacing Criterion (90-270)	2.18
Spacing Criterion (Diagonal)	1.96
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	11881	10947	11571
55	9553	9523	5929
65	2696	1656	3632
75	1218	1104	788
85	625	607	889

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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	3353.23	3353.23	3353.23	3353.23	3353.23	3353.23	3353.23	3353.23	3353.23	3353.23
2.5	3361.86	3365.11	3372.38	3372.10	3377.90	3372.10	3372.38	3365.11	3361.86	3365.11
5.0	3448.82	3438.89	3428.59	3413.51	3404.82	3413.51	3428.59	3438.89	3448.82	3438.89
7.5	3565.38	3550.76	3518.88	3479.02	3463.42	3479.02	3518.88	3550.76	3565.38	3550.76
10.0	3702.20	3681.05	3630.59	3565.55	3530.47	3565.55	3630.59	3681.05	3702.20	3681.05
12.5	3847.05	3825.08	3757.84	3657.84	3605.76	3657.84	3757.84	3825.08	3847.05	3825.08
15.0	4003.03	3980.00	3892.64	3770.21	3708.39	3770.21	3892.64	3980.00	4003.03	3980.00
17.5	4173.77	4151.82	4047.56	3906.68	3834.76	3906.68	4047.56	4151.82	4173.77	4151.82
20.0	4373.64	4346.59	4226.70	4060.08	3975.08	4060.08	4226.70	4346.59	4373.64	4346.59
22.5	4611.45	4576.77	4433.84	4250.91	4158.39	4250.91	4433.84	4576.77	4611.45	4576.77
25.0	4823.67	4805.20	4657.55	4473.95	4385.49	4473.95	4657.55	4805.20	4823.67	4805.20
27.5	4941.10	4945.12	4853.47	4711.85	4649.21	4711.85	4853.47	4945.12	4941.10	4945.12
30.0	4931.60	4949.25	4946.44	4930.78	4899.49	4930.78	4946.44	4949.25	4931.60	4949.25
32.5	4822.05	4871.14	4936.80	5063.09	5123.51	5063.09	4936.80	4871.14	4822.05	4871.14
35.0	4706.34	4781.62	4903.22	5169.47	5316.87	5169.47	4903.22	4781.62	4706.34	4781.62
37.5	4633.61	4727.70	4900.66	5279.71	5495.12	5279.71	4900.66	4727.70	4633.61	4727.70
40.0	4584.68	4697.80	4933.57	5373.42	5509.38	5373.42	4933.57	4697.80	4584.68	4697.80
42.5	4506.83	4647.16	5022.62	5386.60	5505.19	5386.60	5022.62	4647.16	4506.83	4647.16
45.0	4378.15	4563.54	5002.53	5352.95	5450.66	5352.95	5002.53	4563.54	4378.15	4563.54
47.5	4165.19	4421.51	4905.67	5246.87	5373.86	5246.87	4905.67	4421.51	4165.19	4421.51
50.0	3832.44	4225.25	4704.69	5026.28	4608.34	5026.28	4704.69	4225.25	3832.44	4225.25
52.5	3418.77	3945.95	4386.98	4190.28	4154.19	4190.28	4386.98	3945.95	3418.77	3945.95
55.0	2983.28	3546.07	3949.95	3346.86	2556.01	3346.86	3949.95	3546.07	2983.28	3546.07
57.5	2538.88	3030.85	3287.91	2024.71	2182.86	2024.71	3287.91	3030.85	2538.88	3030.85
60.0	1985.70	2449.77	2275.51	1271.70	1524.08	1271.70	2275.51	2449.77	1985.70	2449.77
62.5	1267.54	1777.40	1255.81	1255.34	1717.76	1255.34	1255.81	1777.40	1267.54	1777.40
65.0	664.61	1094.91	596.11	1398.84	1372.85	1398.84	596.11	1094.91	664.61	1094.91
67.5	426.59	607.19	410.47	1241.41	1077.51	1241.41	410.47	607.19	426.59	607.19
70.0	373.72	414.56	511.55	725.00	624.08	725.00	511.55	414.56	373.72	414.56
72.5	299.63	312.97	450.81	400.30	356.20	400.30	450.81	312.97	299.63	312.97
75.0	211.16	206.06	324.93	266.21	247.03	266.21	324.93	206.06	211.16	206.06
77.5	158.44	138.71	243.73	207.86	208.45	207.86	243.73	138.71	158.44	138.71
80.0	116.44	106.59	178.54	179.96	200.48	179.96	178.54	106.59	116.44	106.59
82.5	84.11	89.57	143.23	188.81	207.59	188.81	143.23	89.57	84.11	89.57
85.0	59.32	81.76	133.26	190.87	212.84	190.87	133.26	81.76	59.32	81.76
87.5	41.59	72.20	142.22	171.86	186.55	171.86	142.22	72.20	41.59	72.20
90.0	28.12	56.01	118.28	128.16	144.18	128.16	118.28	56.01	28.12	56.01
92.5	23.44	47.43	79.13	76.27	91.84	76.27	79.13	47.43	23.44	47.43
95.0	25.38	36.45	38.10	54.77	72.82	54.77	38.10	36.45	25.38	36.45
97.5	28.46	19.43	23.88	58.46	69.91	58.46	23.88	19.43	28.46	19.43
100.0	28.66	17.26	24.63	56.96	62.87	56.96	24.63	17.26	28.66	17.26
102.5	27.26	17.70	20.74	40.12	45.59	40.12	20.74	17.70	27.26	17.70
105.0	25.58	18.73	16.85	27.64	36.32	27.64	16.85	18.73	25.58	18.73
107.5	23.92	19.52	15.94	21.01	25.42	21.01	15.94	19.52	23.92	19.52
110.0	22.62	20.15	15.39	19.16	22.16	19.16	15.39	20.15	22.62	20.15
112.5	22.28	21.24	14.77	17.91	20.86	17.91	14.77	21.24	22.28	21.24
115.0	23.07	22.37	14.18	16.72	19.63	16.72	14.18	22.37	23.07	22.37
117.5	23.90	23.04	13.81	15.37	18.08	15.37	13.81	23.04	23.90	23.04
120.0	23.74	23.17	13.70	13.71	16.17	13.71	13.70	23.17	23.74	23.17
122.5	22.43	22.00	13.92	12.51	14.15	12.51	13.92	22.00	22.43	22.00
125.0	20.23	18.95	15.65	11.94	12.96	11.94	15.65	18.95	20.23	18.95
127.5	17.66	15.84	19.95	12.48	12.81	12.48	15.84	17.66	15.84	15.84
130.0	15.06	13.47	20.64	15.44	14.26	15.44	20.64	13.47	15.06	13.47
132.5	12.67	11.71	13.84	22.08	20.29	22.08	13.84	11.71	12.67	11.71

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CANDELA TABULATION - (Cont.)

135.0	10.52	9.74	10.34	22.38	21.60	22.38	10.34	9.74	10.52	9.74
137.5	8.56	7.97	8.17	14.67	21.05	14.67	8.17	7.97	8.56	7.97
140.0	6.85	6.42	6.49	10.51	13.63	10.51	6.49	6.42	6.85	6.42
142.5	5.43	5.11	5.08	8.39	10.17	8.39	5.08	5.11	5.43	5.11
145.0	4.34	4.03	4.07	6.95	8.25	6.95	4.07	4.03	4.34	4.03
147.5	3.52	3.26	3.30	5.75	6.83	5.75	3.30	3.26	3.52	3.26
150.0	2.93	2.77	2.93	4.74	5.67	4.74	2.93	2.77	2.93	2.77
152.5	2.54	2.55	2.73	3.87	4.64	3.87	2.73	2.55	2.54	2.55
155.0	2.38	2.42	2.57	3.22	3.80	3.22	2.57	2.42	2.38	2.42
157.5	2.34	2.37	2.45	2.86	3.24	2.86	2.45	2.37	2.34	2.37
160.0	2.27	2.27	2.37	2.66	2.88	2.66	2.37	2.27	2.27	2.27
162.5	2.20	2.21	2.26	2.44	2.60	2.44	2.26	2.21	2.20	2.21
165.0	2.11	2.12	2.14	2.27	2.33	2.27	2.14	2.12	2.11	2.12
167.5	2.00	1.99	1.99	2.10	2.13	2.10	1.99	1.99	2.00	1.99
170.0	1.93	1.88	1.87	1.97	2.00	1.97	1.87	1.88	1.93	1.88
172.5	1.95	1.93	1.89	1.92	1.95	1.92	1.89	1.93	1.95	1.93
175.0	1.98	1.92	1.88	1.91	1.91	1.91	1.88	1.92	1.98	1.92
177.5	2.01	1.99	1.84	1.86	1.88	1.86	1.84	1.99	2.01	1.99
180.0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89

**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	3353.23	3353.23	3353.23	3353.23	3353.23	3353.23	3353.23
2.5	3372.38	3372.10	3377.90	3372.10	3372.38	3365.11	3361.86
5.0	3428.59	3413.51	3404.82	3413.51	3428.59	3438.89	3448.82
7.5	3518.88	3479.02	3463.42	3479.02	3518.88	3550.76	3565.38
10.0	3630.59	3565.55	3530.47	3565.55	3630.59	3681.05	3702.20
12.5	3757.84	3657.84	3605.76	3657.84	3757.84	3825.08	3847.05
15.0	3892.64	3770.21	3708.39	3770.21	3892.64	3980.00	4003.03
17.5	4047.56	3906.68	3834.76	3906.68	4047.56	4151.82	4173.77
20.0	4226.70	4060.08	3975.08	4060.08	4226.70	4346.59	4373.64
22.5	4433.84	4250.91	4158.39	4250.91	4433.84	4576.77	4611.45
25.0	4657.55	4473.95	4385.49	4473.95	4657.55	4805.20	4823.67
27.5	4853.47	4711.85	4649.21	4711.85	4853.47	4945.12	4941.10
30.0	4946.44	4930.78	4899.49	4930.78	4946.44	4949.25	4931.60
32.5	4936.80	5063.09	5123.51	5063.09	4936.80	4871.14	4822.05
35.0	4903.22	5169.47	5316.87	5169.47	4903.22	4781.62	4706.34
37.5	4900.66	5279.71	5495.12	5279.71	4900.66	4727.70	4633.61
40.0	4933.57	5373.42	5509.38	5373.42	4933.57	4697.80	4584.68
42.5	5022.62	5386.60	5505.19	5386.60	5022.62	4647.16	4506.83
45.0	5002.53	5352.95	5450.66	5352.95	5002.53	4563.54	4378.15
47.5	4905.67	5246.87	5373.86	5246.87	4905.67	4421.51	4165.19
50.0	4704.69	5026.28	4608.34	5026.28	4704.69	4225.25	3832.44
52.5	4386.98	4190.28	4154.19	4190.28	4386.98	3945.95	3418.77
55.0	3949.95	3346.86	2556.01	3346.86	3949.95	3546.07	2983.28
57.5	3287.91	2024.71	2182.86	2024.71	3287.91	3030.85	2538.88
60.0	2275.51	1271.70	1524.08	1271.70	2275.51	2449.77	1985.70
62.5	1255.81	1255.34	1717.76	1255.34	1255.81	1777.40	1267.54
65.0	596.11	1398.84	1372.85	1398.84	596.11	1094.91	664.61
67.5	410.47	1241.41	1077.51	1241.41	410.47	607.19	426.59
70.0	511.55	725.00	624.08	725.00	511.55	414.56	373.72
72.5	450.81	400.30	356.20	400.30	450.81	312.97	299.63
75.0	324.93	266.21	247.03	266.21	324.93	206.06	211.16
77.5	243.73	207.86	208.45	207.86	243.73	138.71	158.44
80.0	178.54	179.96	200.48	179.96	178.54	106.59	116.44

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CANDELA TABULATION - (Cont.)

82.5	143.23	188.81	207.59	188.81	143.23	89.57	84.11
85.0	133.26	190.87	212.84	190.87	133.26	81.76	59.32
87.5	142.22	171.86	186.55	171.86	142.22	72.20	41.59
90.0	118.28	128.16	144.18	128.16	118.28	56.01	28.12
92.5	79.13	76.27	91.84	76.27	79.13	47.43	23.44
95.0	38.10	54.77	72.82	54.77	38.10	36.45	25.38
97.5	23.88	58.46	69.91	58.46	23.88	19.43	28.46
100.0	24.63	56.96	62.87	56.96	24.63	17.26	28.66
102.5	20.74	40.12	45.59	40.12	20.74	17.70	27.26
105.0	16.85	27.64	36.32	27.64	16.85	18.73	25.58
107.5	15.94	21.01	25.42	21.01	15.94	19.52	23.92
110.0	15.39	19.16	22.16	19.16	15.39	20.15	22.62
112.5	14.77	17.91	20.86	17.91	14.77	21.24	22.28
115.0	14.18	16.72	19.63	16.72	14.18	22.37	23.07
117.5	13.81	15.37	18.08	15.37	13.81	23.04	23.90
120.0	13.70	13.71	16.17	13.71	13.70	23.17	23.74
122.5	13.92	12.51	14.15	12.51	13.92	22.00	22.43
125.0	15.65	11.94	12.96	11.94	15.65	18.95	20.23
127.5	19.95	12.48	12.81	12.48	19.95	15.84	17.66
130.0	20.64	15.44	14.26	15.44	20.64	13.47	15.06
132.5	13.84	22.08	20.29	22.08	13.84	11.71	12.67
135.0	10.34	22.38	21.60	22.38	10.34	9.74	10.52
137.5	8.17	14.67	21.05	14.67	8.17	7.97	8.56
140.0	6.49	10.51	13.63	10.51	6.49	6.42	6.85
142.5	5.08	8.39	10.17	8.39	5.08	5.11	5.43
145.0	4.07	6.95	8.25	6.95	4.07	4.03	4.34
147.5	3.30	5.75	6.83	5.75	3.30	3.26	3.52
150.0	2.93	4.74	5.67	4.74	2.93	2.77	2.93
152.5	2.73	3.87	4.64	3.87	2.73	2.55	2.54
155.0	2.57	3.22	3.80	3.22	2.57	2.42	2.38
157.5	2.45	2.86	3.24	2.86	2.45	2.37	2.34
160.0	2.37	2.66	2.88	2.66	2.37	2.27	2.27
162.5	2.26	2.44	2.60	2.44	2.26	2.21	2.20
165.0	2.14	2.27	2.33	2.27	2.14	2.12	2.11
167.5	1.99	2.10	2.13	2.10	1.99	1.99	2.00
170.0	1.87	1.97	2.00	1.97	1.87	1.88	1.93
172.5	1.89	1.92	1.95	1.92	1.89	1.93	1.95
175.0	1.88	1.91	1.91	1.91	1.88	1.92	1.98
177.5	1.84	1.86	1.88	1.86	1.84	1.99	2.01
180.0	1.89	1.89	1.89	1.89	1.89	1.89	1.89

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1444.25	N.A.	9.50
0-30	3588.75	N.A.	23.70
0-40	6714.1	N.A.	44.30
0-60	13484.18	N.A.	88.90
0-80	14890.74	N.A.	98.20
0-90	15034.95	N.A.	99.10
10-90	14701.47	N.A.	96.90
20-40	5269.85	N.A.	34.70
20-50	9057.94	N.A.	59.70
40-70	7868.73	N.A.	51.90
60-80	1406.55	N.A.	9.30
70-80	307.90	N.A.	2.00
80-90	144.22	N.A.	1.00
90-110	85.06	N.A.	0.60
90-120	103.50	N.A.	0.70
90-130	118.14	N.A.	0.80
90-150	132.30	N.A.	0.90
90-180	134.49	N.A.	0.90
110-180	49.42	N.A.	0.30
0-180	15169.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	333.49
10-20	1110.76
20-30	2144.5
30-40	3125.35
40-50	3788.08
50-60	2982.00
60-70	1098.65
70-80	307.90
80-90	144.22
90-100	58.47
100-110	26.59
110-120	18.44
120-130	14.63
130-140	10.60
140-150	3.57
150-160	1.37
160-170	0.63
170-180	0.18

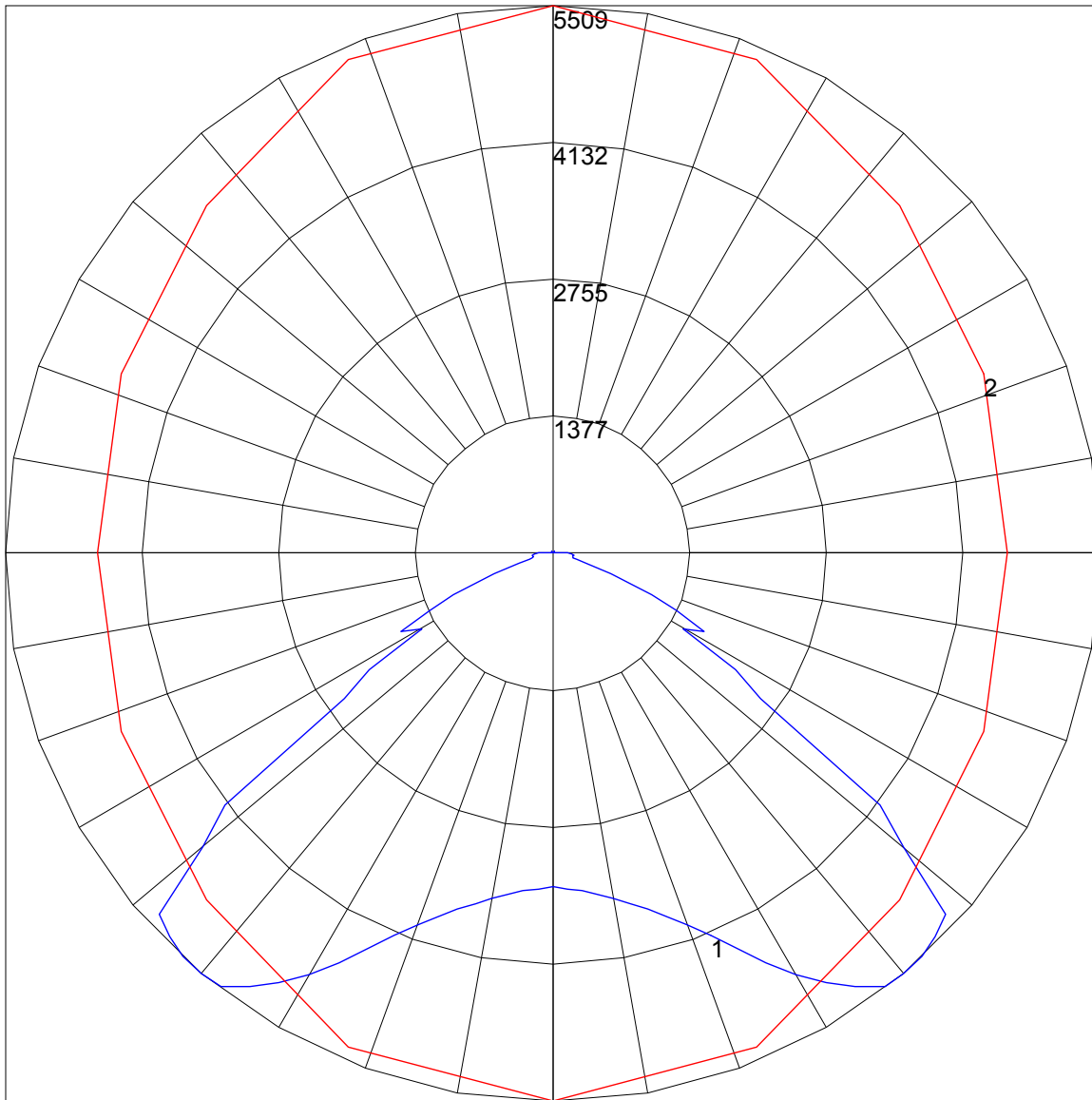
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	68	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	51	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	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	38	32	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 = 5509.38 Located At Horizontal Angle = 90, Vertical Angle = 40
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (40) (Through Max. Cd.)