

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

IESNA:LM-63-2002

[TEST] 33726

[TESTLAB] PHILIPS LIGHTING TUPELO MS

[ISSUEDATE]

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX16LL40-UNV-M-LFA

[LUMINAIRE] PHILIPS APX LED

[ABSOLUTELUMENS] 13994

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13994
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	123.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.10
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	7634	6511	6394
55	5925	4727	4639
65	4554	3370	3333
75	3161	2175	2258
85	1231	1072	1359

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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	6853.17	6853.17	6853.17	6853.17	6853.17	6853.17	6853.17	6853.17	6853.17	6853.17
2.5	6831.67	6833.34	6843.06	6843.07	6838.66	6843.07	6843.06	6833.34	6831.67	6833.34
5.0	6783.78	6784.49	6803.55	6811.60	6802.78	6811.60	6803.55	6784.49	6783.78	6784.49
7.5	6703.07	6710.48	6731.99	6749.50	6744.65	6749.50	6731.99	6710.48	6703.07	6710.48
10.0	6592.44	6605.73	6633.28	6662.68	6655.15	6662.68	6633.28	6605.73	6592.44	6605.73
12.5	6448.29	6469.93	6511.74	6536.28	6537.17	6536.28	6511.74	6469.93	6448.29	6469.93
15.0	6269.38	6302.66	6351.85	6380.92	6383.11	6380.92	6351.85	6302.66	6269.38	6302.66
17.5	6060.28	6107.57	6161.31	6195.35	6202.31	6195.35	6161.31	6107.57	6060.28	6107.57
20.0	5826.17	5881.98	5944.85	5986.12	5994.77	5986.12	5944.85	5881.98	5826.17	5881.98
22.5	5563.75	5624.10	5699.72	5751.51	5758.84	5751.51	5699.72	5624.10	5563.75	5624.10
25.0	5284.52	5343.76	5434.61	5490.81	5495.45	5490.81	5434.61	5343.76	5284.52	5343.76
27.5	4986.94	5049.91	5146.86	5203.80	5212.53	5203.80	5146.86	5049.91	4986.94	5049.91
30.0	4670.01	4740.64	4845.20	4900.90	4907.98	4900.90	4845.20	4740.64	4670.01	4740.64
32.5	4345.53	4421.45	4533.27	4583.12	4594.91	4583.12	4533.27	4421.45	4345.53	4421.45
35.0	4026.94	4100.14	4212.06	4255.52	4274.05	4255.52	4212.06	4100.14	4026.94	4100.14
37.5	3713.44	3782.08	3885.89	3936.73	3949.05	3936.73	3885.89	3782.08	3713.44	3782.08
40.0	3400.14	3467.37	3570.45	3621.51	3626.58	3621.51	3570.45	3467.37	3400.14	3467.37
42.5	3097.95	3165.11	3268.29	3308.43	3313.23	3308.43	3268.29	3165.11	3097.95	3165.11
45.0	2813.08	2878.91	2975.36	3006.06	3011.89	3006.06	2975.36	2878.91	2813.08	2878.91
47.5	2544.76	2604.66	2695.28	2722.80	2729.72	2722.80	2695.28	2604.66	2544.76	2604.66
50.0	2294.01	2344.81	2431.32	2462.55	2468.26	2462.55	2431.32	2344.81	2294.01	2344.81
52.5	2063.46	2109.75	2187.97	2218.03	2226.05	2218.03	2187.97	2109.75	2063.46	2109.75
55.0	1850.29	1893.14	1960.64	1990.12	2000.10	1990.12	1960.64	1893.14	1850.29	1893.14
57.5	1649.45	1690.64	1752.02	1782.30	1790.36	1782.30	1752.02	1690.64	1649.45	1690.64
60.0	1461.05	1499.65	1558.78	1590.51	1600.64	1590.51	1558.78	1499.65	1461.05	1499.65
62.5	1286.07	1321.67	1381.11	1414.37	1425.22	1414.37	1381.11	1321.67	1286.07	1321.67
65.0	1122.76	1156.28	1212.84	1252.52	1260.11	1252.52	1212.84	1156.28	1122.76	1156.28
67.5	966.79	1000.49	1054.94	1096.97	1106.86	1096.97	1054.94	1000.49	966.79	1000.49
70.0	819.22	852.58	907.52	951.76	963.00	951.76	907.52	852.58	819.22	852.58
72.5	680.40	712.49	769.14	817.39	830.51	817.39	769.14	712.49	680.40	712.49
75.0	547.97	580.10	640.00	691.22	707.89	691.22	640.00	580.10	547.97	580.10
77.5	420.66	456.35	519.82	574.64	595.11	574.64	519.82	456.35	420.66	456.35
80.0	304.03	342.80	410.03	470.97	492.17	470.97	410.03	342.80	304.03	342.80
82.5	201.39	242.06	313.92	379.58	402.37	379.58	313.92	242.06	201.39	242.06
85.0	116.81	160.05	235.36	301.23	325.39	301.23	235.36	160.05	116.81	160.05
87.5	58.69	105.22	180.26	243.49	266.67	243.49	180.26	105.22	58.69	105.22
90.0	37.60	73.02	138.97	198.07	220.35	198.07	138.97	73.02	37.60	73.02
92.5	36.11	59.08	109.97	162.09	182.34	162.09	109.97	59.08	36.11	59.08
95.0	35.39	54.68	93.60	136.19	154.34	136.19	93.60	54.68	35.39	54.68
97.5	34.50	51.58	85.82	120.82	136.13	120.82	85.82	51.58	34.50	51.58
100.0	33.32	48.59	81.35	112.18	124.72	112.18	81.35	48.59	33.32	48.59
102.5	31.55	45.37	77.55	107.20	118.06	107.20	77.55	45.37	31.55	45.37
105.0	29.82	42.21	74.07	103.08	113.67	103.08	74.07	42.21	29.82	42.21
107.5	27.67	39.11	70.14	98.98	110.00	98.98	70.14	39.11	27.67	39.11
110.0	25.93	35.95	66.51	94.59	105.22	94.59	66.51	35.95	25.93	35.95
112.5	23.55	32.16	62.46	89.94	100.51	89.94	62.46	32.16	23.55	32.16
115.0	21.54	28.57	58.08	84.80	95.16	84.80	58.08	28.57	21.54	28.57
117.5	19.48	24.92	53.86	79.60	89.63	79.60	53.86	24.92	19.48	24.92
120.0	17.35	21.78	49.35	74.63	84.46	74.63	49.35	21.78	17.35	21.78
122.5	15.56	18.36	45.08	69.27	78.49	69.27	45.08	18.36	15.56	18.36
125.0	13.68	15.22	40.59	63.72	72.39	63.72	40.59	15.22	13.68	15.22
127.5	12.13	12.23	35.91	58.44	67.19	58.44	35.91	12.23	12.13	12.23
130.0	10.48	9.84	31.39	53.34	61.23	53.34	31.39	9.84	10.48	9.84
132.5	9.22	8.08	26.82	47.80	55.13	47.80	26.82	8.08	9.22	8.08

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CANDELA TABULATION - (Cont.)

135.0	8.00	6.93	22.43	42.24	48.97	42.24	22.43	6.93	8.00	6.93
137.5	6.86	6.05	17.88	36.83	43.17	36.83	17.88	6.05	6.86	6.05
140.0	5.86	5.07	13.91	31.31	37.11	31.31	13.91	5.07	5.86	5.07
142.5	4.84	4.30	10.59	25.93	31.13	25.93	10.59	4.30	4.84	4.30
145.0	4.18	3.82	7.81	20.72	25.21	20.72	7.81	3.82	4.18	3.82
147.5	3.51	3.39	5.41	16.06	20.22	16.06	5.41	3.39	3.51	3.39
150.0	3.01	2.98	3.88	11.85	15.02	11.85	3.88	2.98	3.01	2.98
152.5	2.80	2.90	3.39	8.03	10.74	8.03	3.39	2.90	2.80	2.90
155.0	2.81	3.04	3.33	5.40	7.60	5.40	3.33	3.04	2.81	3.04
157.5	3.04	2.90	3.30	4.13	5.43	4.13	3.30	2.90	3.04	2.90
160.0	3.03	3.13	3.41	3.47	3.92	3.47	3.41	3.13	3.03	3.13
162.5	3.12	3.11	3.47	3.61	3.75	3.61	3.47	3.11	3.12	3.11
165.0	3.08	3.11	3.36	3.35	3.47	3.35	3.36	3.11	3.08	3.11
167.5	3.11	3.20	3.28	3.49	3.23	3.49	3.28	3.20	3.11	3.20
170.0	3.05	3.36	2.92	3.26	3.18	3.26	2.92	3.36	3.05	3.36
172.5	3.31	3.33	3.35	3.44	3.59	3.44	3.35	3.33	3.31	3.33
175.0	3.38	3.49	3.35	3.54	3.49	3.54	3.35	3.49	3.38	3.49
177.5	3.61	3.58	3.31	3.49	3.32	3.49	3.31	3.58	3.61	3.58
180.0	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43

**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	6853.17	6853.17	6853.17	6853.17	6853.17	6853.17	6853.17
2.5	6843.06	6843.07	6838.66	6843.07	6843.06	6833.34	6831.67
5.0	6803.55	6811.60	6802.78	6811.60	6803.55	6784.49	6783.78
7.5	6731.99	6749.50	6744.65	6749.50	6731.99	6710.48	6703.07
10.0	6633.28	6662.68	6655.15	6662.68	6633.28	6605.73	6592.44
12.5	6511.74	6536.28	6537.17	6536.28	6511.74	6469.93	6448.29
15.0	6351.85	6380.92	6383.11	6380.92	6351.85	6302.66	6269.38
17.5	6161.31	6195.35	6202.31	6195.35	6161.31	6107.57	6060.28
20.0	5944.85	5986.12	5994.77	5986.12	5944.85	5881.98	5826.17
22.5	5699.72	5751.51	5758.84	5751.51	5699.72	5624.10	5563.75
25.0	5434.61	5490.81	5495.45	5490.81	5434.61	5343.76	5284.52
27.5	5146.86	5203.80	5212.53	5203.80	5146.86	5049.91	4986.94
30.0	4845.20	4900.90	4907.98	4900.90	4845.20	4740.64	4670.01
32.5	4533.27	4583.12	4594.91	4583.12	4533.27	4421.45	4345.53
35.0	4212.06	4255.52	4274.05	4255.52	4212.06	4100.14	4026.94
37.5	3885.89	3936.73	3949.05	3936.73	3885.89	3782.08	3713.44
40.0	3570.45	3621.51	3626.58	3621.51	3570.45	3467.37	3400.14
42.5	3268.29	3308.43	3313.23	3308.43	3268.29	3165.11	3097.95
45.0	2975.36	3006.06	3011.89	3006.06	2975.36	2878.91	2813.08
47.5	2695.28	2722.80	2729.72	2722.80	2695.28	2604.66	2544.76
50.0	2431.32	2462.55	2468.26	2462.55	2431.32	2344.81	2294.01
52.5	2187.97	2218.03	2226.05	2218.03	2187.97	2109.75	2063.46
55.0	1960.64	1990.12	2000.10	1990.12	1960.64	1893.14	1850.29
57.5	1752.02	1782.30	1790.36	1782.30	1752.02	1690.64	1649.45
60.0	1558.78	1590.51	1600.64	1590.51	1558.78	1499.65	1461.05
62.5	1381.11	1414.37	1425.22	1414.37	1381.11	1321.67	1286.07
65.0	1212.84	1252.52	1260.11	1252.52	1212.84	1156.28	1122.76
67.5	1054.94	1096.97	1106.86	1096.97	1054.94	1000.49	966.79
70.0	907.52	951.76	963.00	951.76	907.52	852.58	819.22
72.5	769.14	817.39	830.51	817.39	769.14	712.49	680.40
75.0	640.00	691.22	707.89	691.22	640.00	580.10	547.97
77.5	519.82	574.64	595.11	574.64	519.82	456.35	420.66
80.0	410.03	470.97	492.17	470.97	410.03	342.80	304.03

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CANDELA TABULATION - (Cont.)

82.5	313.92	379.58	402.37	379.58	313.92	242.06	201.39
85.0	235.36	301.23	325.39	301.23	235.36	160.05	116.81
87.5	180.26	243.49	266.67	243.49	180.26	105.22	58.69
90.0	138.97	198.07	220.35	198.07	138.97	73.02	37.60
92.5	109.97	162.09	182.34	162.09	109.97	59.08	36.11
95.0	93.60	136.19	154.34	136.19	93.60	54.68	35.39
97.5	85.82	120.82	136.13	120.82	85.82	51.58	34.50
100.0	81.35	112.18	124.72	112.18	81.35	48.59	33.32
102.5	77.55	107.20	118.06	107.20	77.55	45.37	31.55
105.0	74.07	103.08	113.67	103.08	74.07	42.21	29.82
107.5	70.14	98.98	110.00	98.98	70.14	39.11	27.67
110.0	66.51	94.59	105.22	94.59	66.51	35.95	25.93
112.5	62.46	89.94	100.51	89.94	62.46	32.16	23.55
115.0	58.08	84.80	95.16	84.80	58.08	28.57	21.54
117.5	53.86	79.60	89.63	79.60	53.86	24.92	19.48
120.0	49.35	74.63	84.46	74.63	49.35	21.78	17.35
122.5	45.08	69.27	78.49	69.27	45.08	18.36	15.56
125.0	40.59	63.72	72.39	63.72	40.59	15.22	13.68
127.5	35.91	58.44	67.19	58.44	35.91	12.23	12.13
130.0	31.39	53.34	61.23	53.34	31.39	9.84	10.48
132.5	26.82	47.80	55.13	47.80	26.82	8.08	9.22
135.0	22.43	42.24	48.97	42.24	22.43	6.93	8.00
137.5	17.88	36.83	43.17	36.83	17.88	6.05	6.86
140.0	13.91	31.31	37.11	31.31	13.91	5.07	5.86
142.5	10.59	25.93	31.13	25.93	10.59	4.30	4.84
145.0	7.81	20.72	25.21	20.72	7.81	3.82	4.18
147.5	5.41	16.06	20.22	16.06	5.41	3.39	3.51
150.0	3.88	11.85	15.02	11.85	3.88	2.98	3.01
152.5	3.39	8.03	10.74	8.03	3.39	2.90	2.80
155.0	3.33	5.40	7.60	5.40	3.33	3.04	2.81
157.5	3.30	4.13	5.43	4.13	3.30	2.90	3.04
160.0	3.41	3.47	3.92	3.47	3.41	3.13	3.03
162.5	3.47	3.61	3.75	3.61	3.47	3.11	3.12
165.0	3.36	3.35	3.47	3.35	3.36	3.11	3.08
167.5	3.28	3.49	3.23	3.49	3.28	3.20	3.11
170.0	2.92	3.26	3.18	3.26	2.92	3.36	3.05
172.5	3.35	3.44	3.59	3.44	3.35	3.33	3.31
175.0	3.35	3.54	3.49	3.54	3.35	3.49	3.38
177.5	3.31	3.49	3.32	3.49	3.31	3.58	3.61
180.0	3.43	3.43	3.43	3.43	3.43	3.43	3.43

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2424.49	N.A.	17.30
0-30	4908.75	N.A.	35.10
0-40	7519.21	N.A.	53.70
0-60	11541.73	N.A.	82.50
0-80	13415.91	N.A.	95.90
0-90	13683.36	N.A.	97.80
10-90	13039.73	N.A.	93.20
20-40	5094.72	N.A.	36.40
20-50	7370.98	N.A.	52.70
40-70	5219.92	N.A.	37.30
60-80	1874.18	N.A.	13.40
70-80	676.78	N.A.	4.80
80-90	267.44	N.A.	1.90
90-110	185.80	N.A.	1.30
90-120	242.92	N.A.	1.70
90-130	279.62	N.A.	2.00
90-150	306.91	N.A.	2.20
90-180	310.34	N.A.	2.20
110-180	124.54	N.A.	0.90
0-180	13993.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	643.62
10-20	1780.87
20-30	2484.26
30-40	2610.46
40-50	2276.26
50-60	1746.26
60-70	1197.4
70-80	676.78
80-90	267.44
90-100	108.72
100-110	77.08
110-120	57.12
120-130	36.71
130-140	19.60
140-150	7.69
150-160	2.17
160-170	0.94
170-180	0.32

IES INDOOR REPORT

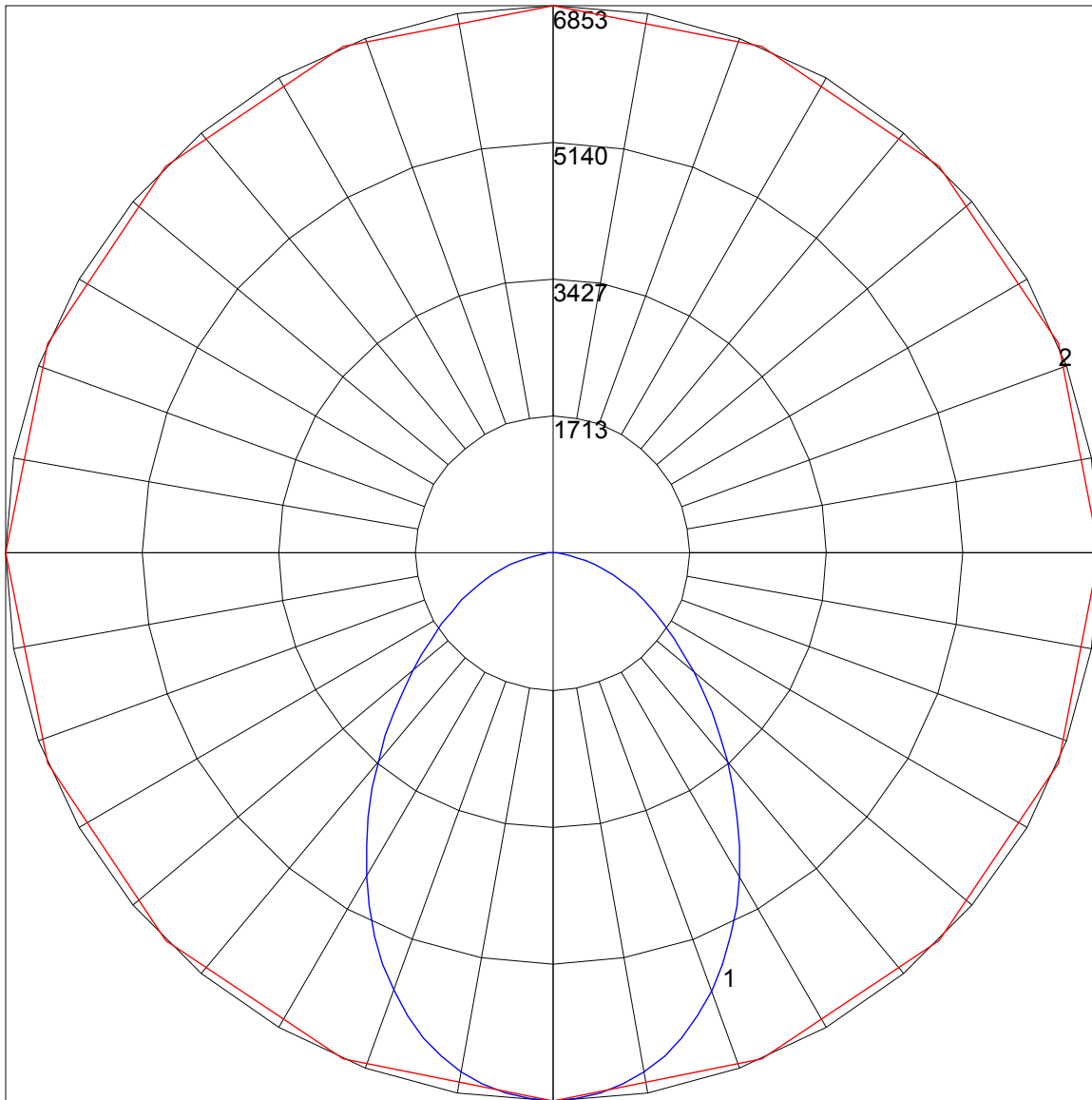
PHOTOMETRIC FILENAME : APX16LL40-UNV-M-LFA.IES

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	110	110	110	105	105	105	100	100	100	98
1	109	105	101	97	106	102	99	96	98	95	92	93	91	89	90	88	86	84
2	100	93	87	81	98	91	85	80	87	82	78	83	79	76	80	77	74	72
3	92	83	75	69	90	81	74	69	78	72	67	75	70	66	72	68	64	62
4	85	74	66	60	83	73	65	59	70	64	58	68	62	57	65	60	56	54
5	79	67	59	53	77	66	58	52	64	57	51	61	55	51	59	54	50	48
6	73	61	53	47	71	60	52	46	58	51	46	56	50	45	54	49	45	43
7	68	56	48	42	67	55	47	42	53	46	41	52	45	41	50	45	40	38
8	64	51	43	38	62	50	43	38	49	42	37	48	41	37	46	41	37	35
9	60	47	40	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29

POLAR GRAPH



Maximum Candela = 6853.17 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.)