

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

IESNA:LM-63-2002

[TEST] 33725

[TESTLAB] PHILIPS LIGHTING TUPELO MS

[ISSUEDATE]

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX16LL40-UNV-M-LCP

[LUMINAIRE] PHILIPS APX LED

[ABSOLUTE LUMENS] 15414

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15414
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	123.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.38
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	6728	8281	6319
55	2046	1337	800
65	1480	557	656
75	822	452	495
85	358	402	753

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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	8615.76	8615.76	8615.76	8615.76	8615.76	8615.76	8615.76	8615.76	8615.76	8615.76
2.5	8587.08	8609.54	8626.45	8640.55	8646.68	8640.55	8626.45	8609.54	8587.08	8609.54
5.0	8615.17	8634.42	8662.00	8689.95	8681.78	8689.95	8662.00	8634.42	8615.17	8634.42
7.5	8658.96	8681.85	8722.65	8748.15	8740.99	8748.15	8722.65	8681.85	8658.96	8681.85
10.0	8716.72	8748.99	8789.26	8829.51	8809.10	8829.51	8789.26	8748.99	8716.72	8748.99
12.5	8782.07	8830.62	8887.37	8903.36	8889.80	8903.36	8887.37	8830.62	8782.07	8830.62
15.0	8834.92	8918.20	8991.94	9001.22	8978.02	9001.22	8991.94	8918.20	8834.92	8918.20
17.5	8840.35	8977.04	9103.73	9099.70	9062.14	9099.70	9103.73	8977.04	8840.35	8977.04
20.0	8716.18	8951.43	9196.68	9209.65	9146.21	9209.65	9196.68	8951.43	8716.18	8951.43
22.5	8437.65	8783.00	9200.88	9302.89	9244.69	9302.89	9200.88	8783.00	8437.65	8783.00
25.0	8023.64	8473.37	9071.94	9318.83	9254.84	9318.83	9071.94	8473.37	8023.64	8473.37
27.5	7551.98	8046.95	8783.55	9163.83	9124.63	9163.83	8783.55	8046.95	7551.98	8046.95
30.0	7054.26	7582.50	8381.08	8821.70	8764.70	8821.70	8381.08	7582.50	7054.26	7582.50
32.5	6554.77	7103.35	7883.94	8227.72	8196.74	8227.72	7883.94	7103.35	6554.77	7103.35
35.0	6029.95	6609.76	7293.12	7483.22	7398.27	7483.22	7293.12	6609.76	6029.95	6609.76
37.5	5405.86	6071.36	6569.81	6577.21	6414.22	6577.21	6569.81	6071.36	5405.86	6071.36
40.0	4588.99	5435.53	5725.33	5525.65	5326.74	5525.65	5725.33	5435.53	4588.99	5435.53
42.5	3575.10	4646.66	4783.43	4382.68	4158.75	4382.68	4783.43	4646.66	3575.10	4646.66
45.0	2479.33	3663.11	3784.17	3202.78	2976.76	3202.78	3784.17	3663.11	2479.33	3663.11
47.5	1501.45	2598.57	2739.39	2127.67	1949.65	2127.67	2739.39	2598.57	1501.45	2598.57
50.0	877.72	1643.04	1773.82	1206.91	1129.87	1206.91	1773.82	1643.04	877.72	1643.04
52.5	659.32	939.56	1027.74	675.99	648.64	675.99	1027.74	939.56	659.32	939.56
55.0	639.03	537.29	554.48	367.19	344.75	367.19	554.48	537.29	639.03	537.29
57.5	582.02	374.32	346.34	300.96	312.49	300.96	346.34	374.32	582.02	374.32
60.0	490.37	316.53	269.48	276.08	288.30	276.08	269.48	316.53	490.37	316.53
62.5	420.78	271.94	229.55	264.55	273.91	264.55	229.55	271.94	420.78	271.94
65.0	364.99	230.46	200.45	239.00	248.16	239.00	200.45	230.46	364.99	230.46
67.5	303.10	192.22	180.10	217.98	222.89	217.98	180.10	192.22	303.10	192.22
70.0	249.94	157.13	165.77	197.14	203.90	197.14	165.77	157.13	249.94	157.13
72.5	186.95	124.60	150.07	175.49	185.42	175.49	150.07	124.60	186.95	124.60
75.0	142.43	97.94	133.07	146.93	155.04	146.93	133.07	97.94	142.43	97.94
77.5	117.19	77.46	113.85	128.00	147.74	128.00	113.85	77.46	117.19	77.46
80.0	79.52	63.81	95.33	119.44	142.48	119.44	95.33	63.81	79.52	63.81
82.5	51.56	56.28	85.28	125.91	150.34	125.91	85.28	56.28	51.56	56.28
85.0	33.92	48.57	88.29	126.82	180.32	126.82	88.29	48.57	33.92	48.57
87.5	21.75	42.73	89.81	113.81	158.62	113.81	89.81	42.73	21.75	42.73
90.0	13.33	34.69	71.18	86.65	132.72	86.65	71.18	34.69	13.33	34.69
92.5	10.30	30.20	44.63	46.49	76.72	46.49	44.63	30.20	10.30	30.20
95.0	11.82	20.10	18.88	21.90	33.19	21.90	18.88	20.10	11.82	20.10
97.5	14.34	8.10	7.94	11.09	14.88	11.09	7.94	8.10	14.34	8.10
100.0	15.66	6.08	6.46	9.27	11.56	9.27	6.46	6.08	15.66	6.08
102.5	15.00	5.64	5.68	8.08	9.72	8.08	5.68	5.64	15.00	5.64
105.0	13.27	5.63	5.27	7.43	8.93	7.43	5.27	5.63	13.27	5.63
107.5	11.84	5.56	4.84	6.76	8.21	6.76	4.84	5.56	11.84	5.56
110.0	10.23	5.31	4.36	6.41	7.57	6.41	4.36	5.31	10.23	5.31
112.5	8.96	5.00	3.71	5.43	6.80	5.43	3.71	5.00	8.96	5.00
115.0	7.57	4.84	3.60	4.63	5.95	4.63	3.60	4.84	7.57	4.84
117.5	6.41	5.12	3.42	4.17	5.27	4.17	3.42	5.12	6.41	5.12
120.0	5.62	5.45	3.91	3.93	4.96	3.93	3.91	5.45	5.62	5.45
122.5	5.07	5.92	4.17	4.04	4.85	4.04	4.17	5.92	5.07	5.92
125.0	4.98	5.49	5.40	4.11	4.92	4.11	5.40	5.49	4.98	5.49
127.5	4.75	4.54	8.32	5.17	5.99	5.17	8.32	4.54	4.75	4.54
130.0	4.30	4.13	10.18	7.26	7.51	7.26	10.18	4.13	4.30	4.13
132.5	4.02	3.72	8.33	10.73	11.66	10.73	8.33	3.72	4.02	3.72

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

CANDELA TABULATION - (Cont.)

135.0	4.04	3.65	6.38	11.91	11.99	11.91	6.38	3.65	4.04	3.65
137.5	3.75	3.47	5.09	10.28	12.48	10.28	5.09	3.47	3.75	3.47
140.0	3.39	3.19	4.47	7.67	10.21	7.67	4.47	3.19	3.39	3.19
142.5	3.16	2.96	3.94	6.23	7.52	6.23	3.94	2.96	3.16	2.96
145.0	3.09	3.13	3.56	5.57	6.12	5.57	3.56	3.13	3.09	3.13
147.5	3.14	2.85	3.12	4.90	5.46	4.90	3.12	2.85	3.14	2.85
150.0	2.92	2.93	3.11	4.60	4.90	4.60	3.11	2.93	2.92	2.93
152.5	3.36	3.01	3.46	4.20	4.60	4.20	3.46	3.01	3.36	3.01
155.0	3.25	3.38	3.69	4.23	4.48	4.23	3.69	3.38	3.25	3.38
157.5	3.43	3.58	3.65	4.07	4.53	4.07	3.65	3.58	3.43	3.58
160.0	3.78	3.92	3.73	4.34	4.54	4.34	3.73	3.92	3.78	3.92
162.5	4.17	3.81	4.14	4.33	4.39	4.33	4.14	3.81	4.17	3.81
165.0	3.80	3.98	3.82	4.47	4.51	4.47	3.82	3.98	3.80	3.98
167.5	3.62	3.84	4.06	4.32	4.48	4.32	4.06	3.84	3.62	3.84
170.0	4.14	4.18	3.84	4.33	4.31	4.33	3.84	4.18	4.14	4.18
172.5	4.42	4.11	3.92	4.33	4.35	4.33	3.92	4.11	4.42	4.11
175.0	4.50	4.23	4.42	4.45	4.54	4.45	4.42	4.23	4.50	4.23
177.5	4.78	4.57	4.50	4.36	4.57	4.36	4.50	4.57	4.78	4.57
180.0	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54

**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	8615.76	8615.76	8615.76	8615.76	8615.76	8615.76	8615.76
2.5	8626.45	8640.55	8646.68	8640.55	8626.45	8609.54	8587.08
5.0	8662.00	8689.95	8681.78	8689.95	8662.00	8634.42	8615.17
7.5	8722.65	8748.15	8740.99	8748.15	8722.65	8681.85	8658.96
10.0	8789.26	8829.51	8809.10	8829.51	8789.26	8748.99	8716.72
12.5	8887.37	8903.36	8889.80	8903.36	8887.37	8830.62	8782.07
15.0	8991.94	9001.22	8978.02	9001.22	8991.94	8918.20	8834.92
17.5	9103.73	9099.70	9062.14	9099.70	9103.73	8977.04	8840.35
20.0	9196.68	9209.65	9146.21	9209.65	9196.68	8951.43	8716.18
22.5	9200.88	9302.89	9244.69	9302.89	9200.88	8783.00	8437.65
25.0	9071.94	9318.83	9254.84	9318.83	9071.94	8473.37	8023.64
27.5	8783.55	9163.83	9124.63	9163.83	8783.55	8046.95	7551.98
30.0	8381.08	8821.70	8764.70	8821.70	8381.08	7582.50	7054.26
32.5	7883.94	8227.72	8196.74	8227.72	7883.94	7103.35	6554.77
35.0	7293.12	7483.22	7398.27	7483.22	7293.12	6609.76	6029.95
37.5	6569.81	6577.21	6414.22	6577.21	6569.81	6071.36	5405.86
40.0	5725.33	5525.65	5326.74	5525.65	5725.33	5435.53	4588.99
42.5	4783.43	4382.68	4158.75	4382.68	4783.43	4646.66	3575.10
45.0	3784.17	3202.78	2976.76	3202.78	3784.17	3663.11	2479.33
47.5	2739.39	2127.67	1949.65	2127.67	2739.39	2598.57	1501.45
50.0	1773.82	1206.91	1129.87	1206.91	1773.82	1643.04	877.72
52.5	1027.74	675.99	648.64	675.99	1027.74	939.56	659.32
55.0	554.48	367.19	344.75	367.19	554.48	537.29	639.03
57.5	346.34	300.96	312.49	300.96	346.34	374.32	582.02
60.0	269.48	276.08	288.30	276.08	269.48	316.53	490.37
62.5	229.55	264.55	273.91	264.55	229.55	271.94	420.78
65.0	200.45	239.00	248.16	239.00	200.45	230.46	364.99
67.5	180.10	217.98	222.89	217.98	180.10	192.22	303.10
70.0	165.77	197.14	203.90	197.14	165.77	157.13	249.94
72.5	150.07	175.49	185.42	175.49	150.07	124.60	186.95
75.0	133.07	146.93	155.04	146.93	133.07	97.94	142.43
77.5	113.85	128.00	147.74	128.00	113.85	77.46	117.19
80.0	95.33	119.44	142.48	119.44	95.33	63.81	79.52

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX16LL40-UNV-M-LCP.IES

CANDELA TABULATION - (Cont.)

82.5	85.28	125.91	150.34	125.91	85.28	56.28	51.56
85.0	88.29	126.82	180.32	126.82	88.29	48.57	33.92
87.5	89.81	113.81	158.62	113.81	89.81	42.73	21.75
90.0	71.18	86.65	132.72	86.65	71.18	34.69	13.33
92.5	44.63	46.49	76.72	46.49	44.63	30.20	10.30
95.0	18.88	21.90	33.19	21.90	18.88	20.10	11.82
97.5	7.94	11.09	14.88	11.09	7.94	8.10	14.34
100.0	6.46	9.27	11.56	9.27	6.46	6.08	15.66
102.5	5.68	8.08	9.72	8.08	5.68	5.64	15.00
105.0	5.27	7.43	8.93	7.43	5.27	5.63	13.27
107.5	4.84	6.76	8.21	6.76	4.84	5.56	11.84
110.0	4.36	6.41	7.57	6.41	4.36	5.31	10.23
112.5	3.71	5.43	6.80	5.43	3.71	5.00	8.96
115.0	3.60	4.63	5.95	4.63	3.60	4.84	7.57
117.5	3.42	4.17	5.27	4.17	3.42	5.12	6.41
120.0	3.91	3.93	4.96	3.93	3.91	5.45	5.62
122.5	4.17	4.04	4.85	4.04	4.17	5.92	5.07
125.0	5.40	4.11	4.92	4.11	5.40	5.49	4.98
127.5	8.32	5.17	5.99	5.17	8.32	4.54	4.75
130.0	10.18	7.26	7.51	7.26	10.18	4.13	4.30
132.5	8.33	10.73	11.66	10.73	8.33	3.72	4.02
135.0	6.38	11.91	11.99	11.91	6.38	3.65	4.04
137.5	5.09	10.28	12.48	10.28	5.09	3.47	3.75
140.0	4.47	7.67	10.21	7.67	4.47	3.19	3.39
142.5	3.94	6.23	7.52	6.23	3.94	2.96	3.16
145.0	3.56	5.57	6.12	5.57	3.56	3.13	3.09
147.5	3.12	4.90	5.46	4.90	3.12	2.85	3.14
150.0	3.11	4.60	4.90	4.60	3.11	2.93	2.92
152.5	3.46	4.20	4.60	4.20	3.46	3.01	3.36
155.0	3.69	4.23	4.48	4.23	3.69	3.38	3.25
157.5	3.65	4.07	4.53	4.07	3.65	3.58	3.43
160.0	3.73	4.34	4.54	4.34	3.73	3.92	3.78
162.5	4.14	4.33	4.39	4.33	4.14	3.81	4.17
165.0	3.82	4.47	4.51	4.47	3.82	3.98	3.80
167.5	4.06	4.32	4.48	4.32	4.06	3.84	3.62
170.0	3.84	4.33	4.31	4.33	3.84	4.18	4.14
172.5	3.92	4.33	4.35	4.33	3.92	4.11	4.42
175.0	4.42	4.45	4.54	4.45	4.42	4.23	4.50
177.5	4.50	4.36	4.57	4.36	4.50	4.57	4.78
180.0	4.54	4.54	4.54	4.54	4.54	4.54	4.54

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3370.51	N.A.	21.90
0-30	7421.63	N.A.	48.10
0-40	11745.7	N.A.	76.20
0-60	14871.21	N.A.	96.50
0-80	15258.98	N.A.	99.00
0-90	15354.64	N.A.	99.60
10-90	14524.14	N.A.	94.20
20-40	8375.19	N.A.	54.30
20-50	10940.04	N.A.	71.00
40-70	3369.29	N.A.	21.90
60-80	387.76	N.A.	2.50
70-80	143.99	N.A.	0.90
80-90	95.66	N.A.	0.60
90-110	37.96	N.A.	0.20
90-120	43.07	N.A.	0.30
90-130	47.84	N.A.	0.30
90-150	56.02	N.A.	0.40
90-180	59.33	N.A.	0.40
110-180	21.38	N.A.	0.10
0-180	15413.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	830.50
10-20	2540.01
20-30	4051.12
30-40	4324.07
40-50	2564.85
50-60	560.66
60-70	243.77
70-80	143.99
80-90	95.66
90-100	30.11
100-110	7.85
110-120	5.11
120-130	4.77
130-140	5.45
140-150	2.72
150-160	1.74
160-170	1.16
170-180	0.41

IES INDOOR REPORT

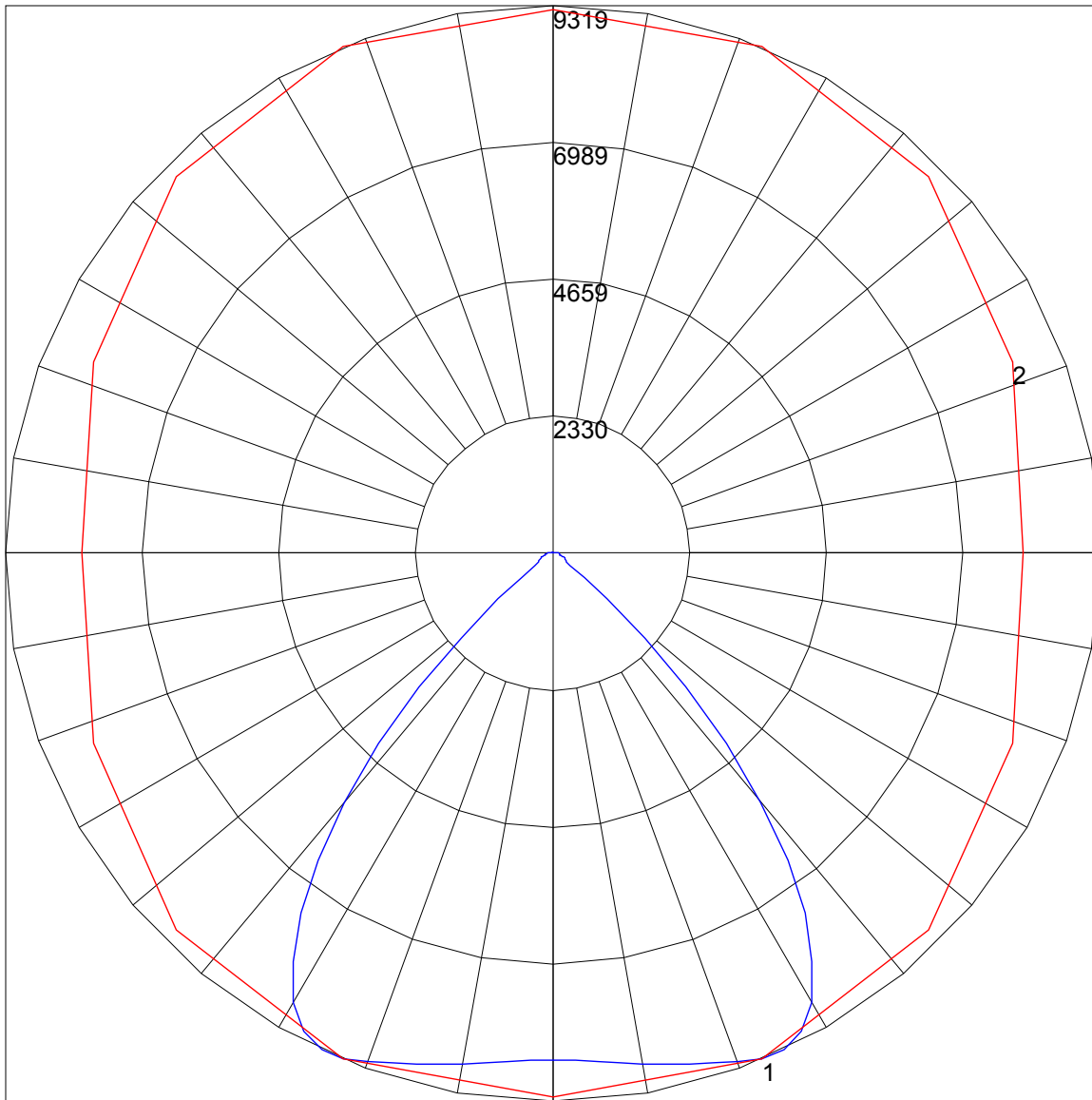
PHOTOMETRIC FILENAME : APX16LL40-UNV-M-LCP.IES

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	85	83	81
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	81	78	75	73
4	92	83	76	71	90	82	76	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	84	75	69	64	73	67	63	71	66	62	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	52	63	57	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46
9	67	56	49	44	66	55	48	44	54	48	44	53	48	44	52	47	43	42
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	38

POLAR GRAPH



Maximum Candela = 9318.83 Located At Horizontal Angle = 67.5, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)