

PHILIPS

PHILIPS

Day-Brite



IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX20LL40-UNV-W-LCP.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO33733.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/29/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX20LL40-UNV-W-LCP

[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K 2-95W DRIVERS 18K RESISTORS WIDE OPTICS DP LENS

[LAMP] LED. LUMINAIRE OUTPUT = 19869 LMS

[TESTDATE] 10/29/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	19869
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	168
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	15504	14351	15089
55	12437	12396	8085
65	3461	2296	4526
75	1606	1485	1056
85	824	807	1164

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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	4378.49	4378.49	4378.49	4378.49	4378.49	4378.49	4378.49	4378.49	4378.49	4378.49
2.5	4388.67	4399.70	4409.99	4408.39	4409.77	4408.39	4409.99	4399.70	4388.67	4399.70
5.0	4499.49	4497.26	4481.07	4458.94	4451.22	4458.94	4481.07	4497.26	4499.49	4497.26
7.5	4657.44	4640.05	4594.82	4547.22	4523.46	4547.22	4594.82	4640.05	4657.44	4640.05
10.0	4836.51	4811.53	4743.32	4660.80	4608.97	4660.80	4743.32	4811.53	4836.51	4811.53
12.5	5025.31	5002.23	4911.00	4776.62	4713.80	4776.62	4911.00	5002.23	5025.31	5002.23
15.0	5230.39	5207.77	5091.11	4923.49	4843.17	4923.49	5091.11	5207.77	5230.39	5207.77
17.5	5460.44	5434.63	5289.51	5098.44	5008.03	5098.44	5289.51	5434.63	5460.44	5434.63
20.0	5725.72	5697.33	5534.62	5305.23	5205.85	5305.23	5534.62	5697.33	5725.72	5697.33
22.5	6039.86	5998.43	5808.87	5560.59	5453.34	5560.59	5808.87	5998.43	6039.86	5998.43
25.0	6320.45	6284.95	6095.02	5850.07	5749.09	5850.07	6095.02	6284.95	6320.45	6284.95
27.5	6474.68	6458.35	6336.22	6156.79	6098.35	6156.79	6336.22	6458.35	6474.68	6458.35
30.0	6460.74	6480.06	6463.45	6446.32	6411.01	6446.32	6463.45	6480.06	6460.74	6480.06
32.5	6322.28	6387.35	6473.66	6630.70	6705.75	6630.70	6473.66	6387.35	6322.28	6387.35
35.0	6153.15	6274.51	6449.07	6790.77	6966.24	6790.77	6449.07	6274.51	6153.15	6274.51
37.5	6048.62	6193.06	6427.62	6931.40	7150.90	6931.40	6427.62	6193.06	6048.62	6193.06
40.0	5992.12	6139.69	6475.19	7061.37	7171.31	7061.37	6475.19	6139.69	5992.12	6139.69
42.5	5882.50	6080.93	6569.99	7079.42	7206.61	7079.42	6569.99	6080.93	5882.50	6080.93
45.0	5713.12	5972.66	6558.08	6997.84	7108.33	6997.84	6558.08	5972.66	5713.12	5972.66
47.5	5424.11	5798.25	6426.14	6873.23	7021.98	6873.23	6426.14	5798.25	5424.11	5798.25
50.0	4997.35	5549.09	6157.15	6612.45	6087.48	6612.45	6157.15	5549.09	4997.35	5549.09
52.5	4451.91	5185.39	5735.37	5575.61	5381.32	5575.61	5735.37	5185.39	4451.91	5185.39
55.0	3883.64	4657.89	5141.42	4452.01	3485.43	4452.01	5141.42	4657.89	3883.64	4657.89
57.5	3304.53	4004.82	4308.35	2640.16	2868.95	2640.16	4308.35	4004.82	3304.53	4004.82
60.0	2576.15	3231.45	3031.31	1853.74	1968.67	1853.74	3031.31	3231.45	2576.15	3231.45
62.5	1628.55	2346.86	1639.32	1522.12	2085.29	1522.12	1639.32	2346.86	1628.55	2346.86
65.0	853.31	1463.68	826.36	1795.95	1711.05	1795.95	826.36	1463.68	853.31	1463.68
67.5	555.93	821.10	538.34	1477.49	1432.04	1477.49	538.34	821.10	555.93	821.10
70.0	488.11	549.83	622.83	950.09	833.76	950.09	622.83	549.83	488.11	549.83
72.5	390.66	405.73	588.47	536.31	486.04	536.31	588.47	405.73	390.66	405.73
75.0	278.34	269.02	436.88	345.65	330.90	345.65	436.88	269.02	278.34	269.02
77.5	210.17	183.68	321.02	271.39	277.90	271.39	321.02	183.68	210.17	183.68
80.0	153.80	142.59	236.00	233.92	258.94	233.92	236.00	142.59	153.80	142.59
82.5	110.86	121.94	186.28	242.14	264.77	242.14	186.28	121.94	110.86	121.94
85.0	78.14	112.92	177.22	249.18	278.61	249.18	177.22	112.92	78.14	112.92
87.5	54.57	98.62	189.62	228.15	244.29	228.15	189.62	98.62	54.57	98.62
90.0	36.37	77.42	165.35	175.45	192.51	175.45	165.35	77.42	36.37	77.42
92.5	29.85	65.78	114.92	109.08	134.52	109.08	114.92	65.78	29.85	65.78
95.0	32.18	49.16	55.63	76.11	97.83	76.11	55.63	49.16	32.18	49.16
97.5	36.38	25.44	32.72	72.44	82.97	72.44	32.72	25.44	36.38	25.44
100.0	36.98	21.61	31.80	68.44	74.67	68.44	31.80	21.61	36.98	21.61
102.5	34.96	21.80	27.09	52.44	59.20	52.44	27.09	21.80	34.96	21.80
105.0	32.60	23.15	21.98	36.10	46.71	36.10	21.98	23.15	32.60	23.15
107.5	30.66	24.34	20.75	27.03	32.40	27.03	20.75	24.34	30.66	24.34
110.0	28.73	25.30	19.78	24.99	28.75	24.99	19.78	25.30	28.73	25.30
112.5	28.18	26.58	18.96	23.61	26.92	23.61	18.96	26.58	28.18	26.58
115.0	29.01	28.30	18.08	21.84	25.10	21.84	18.08	28.30	29.01	28.30
117.5	30.35	29.35	17.43	20.11	22.90	20.11	17.43	29.35	30.35	29.35
120.0	29.92	29.54	17.05	18.14	20.36	18.14	17.05	29.54	29.92	29.54
122.5	28.46	28.77	17.36	16.02	17.84	16.02	17.36	28.77	28.46	28.77
125.0	25.51	25.50	18.71	14.81	16.36	14.81	18.71	25.50	25.51	25.50
127.5	22.32	20.94	23.50	15.75	16.52	15.75	23.50	20.94	22.32	20.94
130.0	18.94	17.29	26.38	19.14	18.69	19.14	26.38	17.29	18.94	17.29
132.5	16.05	14.79	20.15	25.78	25.27	25.78	20.15	14.79	16.05	14.79

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CANDELA TABULATION - (Cont.)

135.0	12.89	12.26	14.02	28.42	25.57	28.42	14.02	12.26	12.89	12.26
137.5	10.45	9.75	10.95	21.03	26.63	21.03	10.95	9.75	10.45	9.75
140.0	8.14	7.47	8.33	14.23	18.48	14.23	8.33	7.47	8.14	7.47
142.5	6.34	6.15	6.57	11.09	13.01	11.09	6.57	6.15	6.34	6.15
145.0	4.76	4.60	5.16	8.99	10.39	8.99	5.16	4.60	4.76	4.60
147.5	3.91	3.61	4.30	7.41	8.54	7.41	4.30	3.61	3.91	3.61
150.0	3.22	2.95	3.47	5.86	7.03	5.86	3.47	2.95	3.22	2.95
152.5	2.78	2.87	3.16	4.84	5.73	4.84	3.16	2.87	2.78	2.87
155.0	2.51	2.74	2.98	3.83	4.67	3.83	2.98	2.74	2.51	2.74
157.5	2.52	2.62	2.97	3.12	3.68	3.12	2.97	2.62	2.52	2.62
160.0	2.38	2.30	2.44	2.83	3.19	2.83	2.44	2.30	2.38	2.30
162.5	2.35	2.28	2.50	2.76	2.80	2.76	2.50	2.28	2.35	2.28
165.0	2.40	2.23	2.71	2.41	2.56	2.41	2.71	2.23	2.40	2.23
167.5	2.19	1.93	2.01	2.10	2.33	2.10	2.01	1.93	2.19	1.93
170.0	2.14	1.99	2.01	2.12	2.13	2.12	2.01	1.99	2.14	1.99
172.5	2.10	1.92	1.97	2.04	1.98	2.04	1.97	1.92	2.10	1.92
175.0	1.89	2.10	1.96	1.82	2.00	1.82	1.96	2.10	1.89	2.10
177.5	2.11	2.06	1.88	2.08	2.13	2.08	1.88	2.06	2.11	2.06
180.0	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88

**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	4378.49	4378.49	4378.49	4378.49	4378.49	4378.49	4378.49
2.5	4409.99	4408.39	4409.77	4408.39	4409.99	4399.70	4388.67
5.0	4481.07	4458.94	4451.22	4458.94	4481.07	4497.26	4499.49
7.5	4594.82	4547.22	4523.46	4547.22	4594.82	4640.05	4657.44
10.0	4743.32	4660.80	4608.97	4660.80	4743.32	4811.53	4836.51
12.5	4911.00	4776.62	4713.80	4776.62	4911.00	5002.23	5025.31
15.0	5091.11	4923.49	4843.17	4923.49	5091.11	5207.77	5230.39
17.5	5289.51	5098.44	5008.03	5098.44	5289.51	5434.63	5460.44
20.0	5534.62	5305.23	5205.85	5305.23	5534.62	5697.33	5725.72
22.5	5808.87	5560.59	5453.34	5560.59	5808.87	5998.43	6039.86
25.0	6095.02	5850.07	5749.09	5850.07	6095.02	6284.95	6320.45
27.5	6336.22	6156.79	6098.35	6156.79	6336.22	6458.35	6474.68
30.0	6463.45	6446.32	6411.01	6446.32	6463.45	6480.06	6460.74
32.5	6473.66	6630.70	6705.75	6630.70	6473.66	6387.35	6322.28
35.0	6449.07	6790.77	6966.24	6790.77	6449.07	6274.51	6153.15
37.5	6427.62	6931.40	7150.90	6931.40	6427.62	6193.06	6048.62
40.0	6475.19	7061.37	7171.31	7061.37	6475.19	6139.69	5992.12
42.5	6569.99	7079.42	7206.61	7079.42	6569.99	6080.93	5882.50
45.0	6558.08	6997.84	7108.33	6997.84	6558.08	5972.66	5713.12
47.5	6426.14	6873.23	7021.98	6873.23	6426.14	5798.25	5424.11
50.0	6157.15	6612.45	6087.48	6612.45	6157.15	5549.09	4997.35
52.5	5735.37	5575.61	5381.32	5575.61	5735.37	5185.39	4451.91
55.0	5141.42	4452.01	3485.43	4452.01	5141.42	4657.89	3883.64
57.5	4308.35	2640.16	2868.95	2640.16	4308.35	4004.82	3304.53
60.0	3031.31	1853.74	1968.67	1853.74	3031.31	3231.45	2576.15
62.5	1639.32	1522.12	2085.29	1522.12	1639.32	2346.86	1628.55
65.0	826.36	1795.95	1711.05	1795.95	826.36	1463.68	853.31
67.5	538.34	1477.49	1432.04	1477.49	538.34	821.10	555.93
70.0	622.83	950.09	833.76	950.09	622.83	549.83	488.11
72.5	588.47	536.31	486.04	536.31	588.47	405.73	390.66
75.0	436.88	345.65	330.90	345.65	436.88	269.02	278.34
77.5	321.02	271.39	277.90	271.39	321.02	183.68	210.17
80.0	236.00	233.92	258.94	233.92	236.00	142.59	153.80

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PHOTOMETRIC FILENAME : APX20LL40-UNV-W-LCP.IES

CANDELA TABULATION - (Cont.)

82.5	186.28	242.14	264.77	242.14	186.28	121.94	110.86
85.0	177.22	249.18	278.61	249.18	177.22	112.92	78.14
87.5	189.62	228.15	244.29	228.15	189.62	98.62	54.57
90.0	165.35	175.45	192.51	175.45	165.35	77.42	36.37
92.5	114.92	109.08	134.52	109.08	114.92	65.78	29.85
95.0	55.63	76.11	97.83	76.11	55.63	49.16	32.18
97.5	32.72	72.44	82.97	72.44	32.72	25.44	36.38
100.0	31.80	68.44	74.67	68.44	31.80	21.61	36.98
102.5	27.09	52.44	59.20	52.44	27.09	21.80	34.96
105.0	21.98	36.10	46.71	36.10	21.98	23.15	32.60
107.5	20.75	27.03	32.40	27.03	20.75	24.34	30.66
110.0	19.78	24.99	28.75	24.99	19.78	25.30	28.73
112.5	18.96	23.61	26.92	23.61	18.96	26.58	28.18
115.0	18.08	21.84	25.10	21.84	18.08	28.30	29.01
117.5	17.43	20.11	22.90	20.11	17.43	29.35	30.35
120.0	17.05	18.14	20.36	18.14	17.05	29.54	29.92
122.5	17.36	16.02	17.84	16.02	17.36	28.77	28.46
125.0	18.71	14.81	16.36	14.81	18.71	25.50	25.51
127.5	23.50	15.75	16.52	15.75	23.50	20.94	22.32
130.0	26.38	19.14	18.69	19.14	26.38	17.29	18.94
132.5	20.15	25.78	25.27	25.78	20.15	14.79	16.05
135.0	14.02	28.42	25.57	28.42	14.02	12.26	12.89
137.5	10.95	21.03	26.63	21.03	10.95	9.75	10.45
140.0	8.33	14.23	18.48	14.23	8.33	7.47	8.14
142.5	6.57	11.09	13.01	11.09	6.57	6.15	6.34
145.0	5.16	8.99	10.39	8.99	5.16	4.60	4.76
147.5	4.30	7.41	8.54	7.41	4.30	3.61	3.91
150.0	3.47	5.86	7.03	5.86	3.47	2.95	3.22
152.5	3.16	4.84	5.73	4.84	3.16	2.87	2.78
155.0	2.98	3.83	4.67	3.83	2.98	2.74	2.51
157.5	2.97	3.12	3.68	3.12	2.97	2.62	2.52
160.0	2.44	2.83	3.19	2.83	2.44	2.30	2.38
162.5	2.50	2.76	2.80	2.76	2.50	2.28	2.35
165.0	2.71	2.41	2.56	2.41	2.71	2.23	2.40
167.5	2.01	2.10	2.33	2.10	2.01	1.93	2.19
170.0	2.01	2.12	2.13	2.12	2.01	1.99	2.14
172.5	1.97	2.04	1.98	2.04	1.97	1.92	2.10
175.0	1.96	1.82	2.00	1.82	1.96	2.10	1.89
177.5	1.88	2.08	2.13	2.08	1.88	2.06	2.11
180.0	1.88	1.88	1.88	1.88	1.88	1.88	1.88

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1887.88	N.A.	9.50
0-30	4693.97	N.A.	23.60
0-40	8789.15	N.A.	44.20
0-60	17673.22	N.A.	88.90
0-80	19502.22	N.A.	98.20
0-90	19692.9	N.A.	99.10
10-90	19257.16	N.A.	96.90
20-40	6901.27	N.A.	34.70
20-50	11861.36	N.A.	59.70
40-70	10308.56	N.A.	51.90
60-80	1828.99	N.A.	9.20
70-80	404.50	N.A.	2.00
80-90	190.69	N.A.	1.00
90-110	113.32	N.A.	0.60
90-120	136.89	N.A.	0.70
90-130	155.45	N.A.	0.80
90-150	173.48	N.A.	0.90
90-180	175.93	N.A.	0.90
110-180	62.61	N.A.	0.30
0-180	19868.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	435.75
10-20	1452.13
20-30	2806.09
30-40	4095.18
40-50	4960.09
50-60	3923.98
60-70	1424.49
70-80	404.50
80-90	190.69
90-100	79.44
100-110	33.88
110-120	23.58
120-130	18.56
130-140	13.56
140-150	4.46
150-160	1.58
160-170	0.68
170-180	0.19

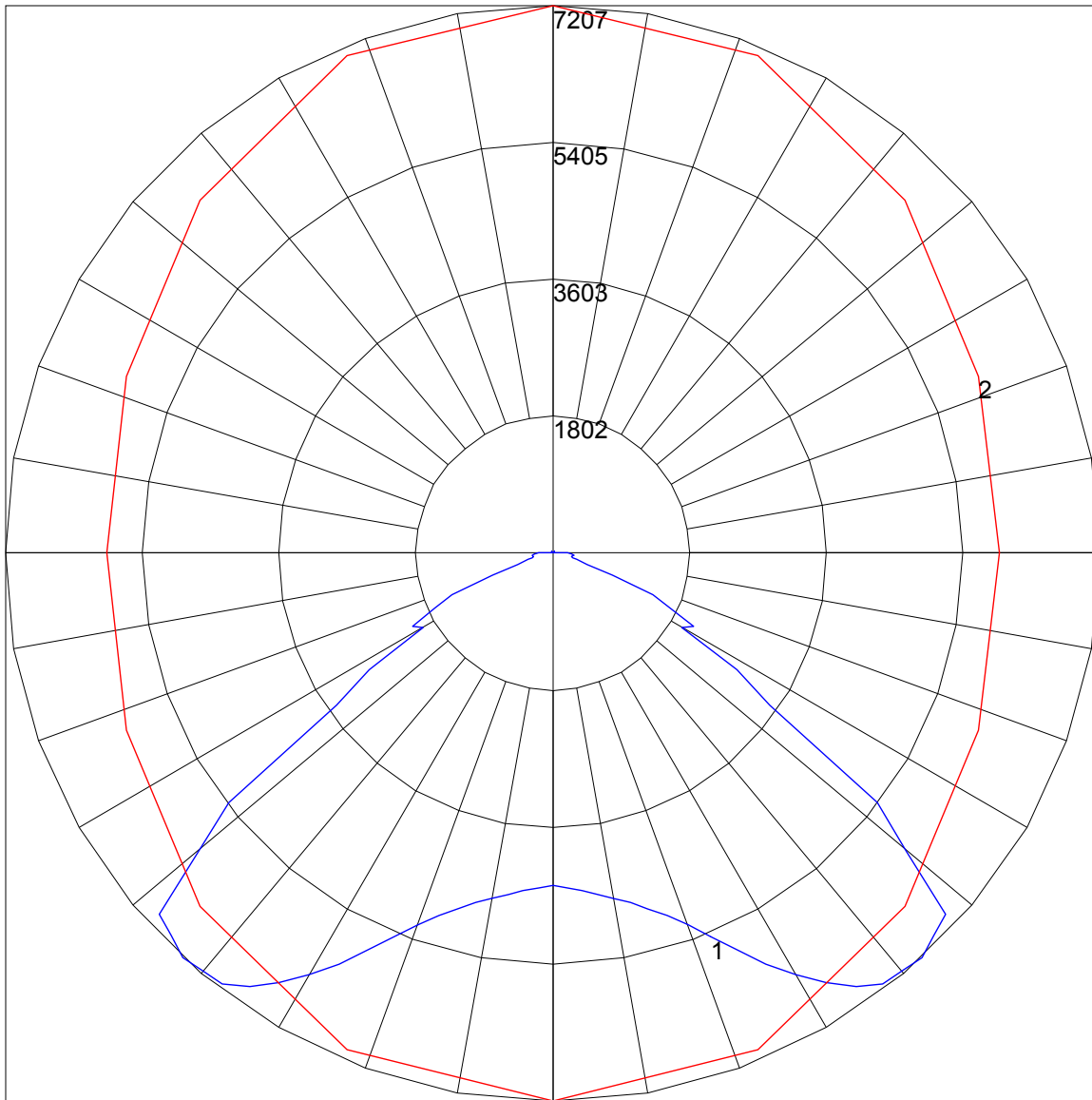
IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX20LL40-UNV-W-LCP.IES

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	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 = 7206.61 Located At Horizontal Angle = 90, Vertical Angle = 42.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (42.5) (Through Max. Cd.)