

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

IESNA:LM-63-2002

[TEST] FO33675.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/17/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX16LL40-UNV-LFA

[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K BOARDS 2-95W DRIVERS 4.7K RESISTORS DIRA-FR50 LENS

[LAMP] LED. LUMINAIRE OUTPUT = 13899 LMS

[TESTDATE] 10/17/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13899
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	123
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
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	7701	6399	6228
55	6736	5355	5327
65	5648	4337	4593
75	4274	3290	3726
85	2197	2126	2719

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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	4786.21	4786.21	4786.21	4786.21	4786.21	4786.21	4786.21	4786.21	4786.21	4786.21
2.5	4770.64	4777.19	4786.49	4783.11	4772.43	4783.11	4786.49	4777.19	4770.64	4777.19
5.0	4752.02	4757.36	4768.95	4769.12	4756.25	4769.12	4768.95	4757.36	4752.02	4757.36
7.5	4720.55	4725.19	4738.68	4740.39	4730.22	4740.39	4738.68	4725.19	4720.55	4725.19
10.0	4674.45	4681.73	4694.93	4701.76	4689.92	4701.76	4694.93	4681.73	4674.45	4681.73
12.5	4615.72	4626.77	4640.62	4642.91	4633.95	4642.91	4640.62	4626.77	4615.72	4626.77
15.0	4543.91	4558.69	4571.88	4571.15	4562.52	4571.15	4571.88	4558.69	4543.91	4558.69
17.5	4458.62	4477.12	4488.53	4486.58	4479.23	4486.58	4488.53	4477.12	4458.62	4477.12
20.0	4361.73	4380.33	4393.22	4389.60	4383.99	4389.60	4393.22	4380.33	4361.73	4380.33
22.5	4252.77	4272.03	4283.62	4284.02	4276.42	4284.02	4283.62	4272.03	4252.77	4272.03
25.0	4131.95	4151.47	4164.23	4166.08	4156.38	4166.08	4164.23	4151.47	4131.95	4151.47
27.5	4000.21	4020.53	4036.50	4036.21	4027.15	4036.21	4036.50	4020.53	4000.21	4020.53
30.0	3856.73	3878.99	3899.50	3897.09	3887.26	3897.09	3899.50	3878.99	3856.73	3878.99
32.5	3700.76	3728.68	3750.81	3746.66	3742.08	3746.66	3750.81	3728.68	3700.76	3728.68
35.0	3539.28	3569.40	3592.60	3590.13	3591.56	3590.13	3592.60	3569.40	3539.28	3569.40
37.5	3374.18	3402.23	3427.59	3435.17	3433.79	3435.17	3427.59	3402.23	3374.18	3402.23
40.0	3201.40	3229.31	3263.32	3276.47	3270.07	3276.47	3263.32	3229.31	3201.40	3229.31
42.5	3021.36	3053.51	3095.45	3108.28	3103.01	3108.28	3095.45	3053.51	3021.36	3053.51
45.0	2837.68	2876.79	2924.26	2934.19	2933.84	2934.19	2924.26	2876.79	2837.68	2876.79
47.5	2654.75	2695.62	2748.60	2765.04	2770.12	2765.04	2748.60	2695.62	2654.75	2695.62
50.0	2471.21	2512.15	2569.61	2602.13	2609.69	2602.13	2569.61	2512.15	2471.21	2512.15
52.5	2286.37	2332.28	2395.06	2439.34	2450.95	2439.34	2395.06	2332.28	2286.37	2332.28
55.0	2103.34	2153.74	2221.09	2275.94	2296.40	2275.94	2221.09	2153.74	2103.34	2153.74
57.5	1922.17	1977.51	2050.30	2121.77	2147.18	2121.77	2050.30	1977.51	1922.17	1977.51
60.0	1741.15	1802.26	1882.66	1976.63	2010.65	1976.63	1882.66	1802.26	1741.15	1802.26
62.5	1564.48	1627.18	1719.84	1837.02	1876.00	1837.02	1719.84	1627.18	1564.48	1627.18
65.0	1392.63	1457.45	1561.08	1696.07	1736.27	1696.07	1561.08	1457.45	1392.63	1457.45
67.5	1223.32	1293.10	1406.56	1551.72	1594.58	1551.72	1406.56	1293.10	1223.32	1293.10
70.0	1056.33	1131.94	1256.70	1408.91	1452.96	1408.91	1256.70	1131.94	1056.33	1131.94
72.5	895.49	974.21	1111.63	1267.13	1310.19	1267.13	1111.63	974.21	895.49	974.21
75.0	740.86	820.24	968.03	1125.31	1167.94	1125.31	968.03	820.24	740.86	820.24
77.5	589.73	673.35	828.56	983.61	1027.76	983.61	828.56	673.35	589.73	673.35
80.0	445.49	534.81	695.56	848.46	892.99	848.46	695.56	534.81	445.49	534.81
82.5	316.08	408.36	572.79	726.04	767.56	726.04	572.79	408.36	316.08	408.36
85.0	208.44	302.14	466.60	612.10	650.88	612.10	466.60	302.14	208.44	302.14
87.5	132.49	229.33	388.67	521.72	558.45	521.72	388.67	229.33	132.49	229.33
90.0	101.11	182.30	323.17	442.88	477.56	442.88	323.17	182.30	101.11	182.30
92.5	94.89	157.74	274.81	377.74	408.84	377.74	274.81	157.74	94.89	157.74
95.0	90.25	145.91	242.69	328.80	355.40	328.80	242.69	145.91	90.25	145.91
97.5	85.92	135.46	222.20	293.06	315.59	293.06	222.20	135.46	85.92	135.46
100.0	80.91	124.90	205.54	267.70	286.86	267.70	205.54	124.90	80.91	124.90
102.5	75.53	114.48	189.91	247.27	264.59	247.27	189.91	114.48	75.53	114.48
105.0	70.07	104.85	177.00	230.01	246.36	230.01	177.00	104.85	70.07	104.85
107.5	64.66	95.74	164.03	213.70	230.14	213.70	164.03	95.74	64.66	95.74
110.0	59.53	86.53	151.71	198.73	214.69	198.73	151.71	86.53	59.53	86.53
112.5	54.19	77.30	139.84	184.46	200.25	184.46	139.84	77.30	54.19	77.30
115.0	49.21	68.27	127.98	170.61	185.91	170.61	127.98	68.27	49.21	68.27
117.5	44.28	58.94	116.88	157.60	172.55	157.60	116.88	58.94	44.28	58.94
120.0	39.78	50.55	105.95	145.62	160.01	145.62	105.95	50.55	39.78	50.55
122.5	35.34	42.31	95.30	133.97	147.09	133.97	95.30	42.31	35.34	42.31
125.0	31.08	35.07	84.95	121.77	134.79	121.77	84.95	35.07	31.08	35.07
127.5	27.15	27.85	74.42	111.14	124.23	111.14	74.42	27.85	27.15	27.85
130.0	23.56	21.98	64.27	100.85	112.97	100.85	64.27	21.98	23.56	21.98
132.5	20.51	17.56	54.24	89.90	101.31	89.90	54.24	17.56	20.51	17.56

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CANDELA TABULATION - (Cont.)

135.0	17.41	14.48	44.49	79.50	90.32	79.50	44.49	14.48	17.41	14.48
137.5	14.66	11.93	35.06	68.75	78.90	68.75	35.06	11.93	14.66	11.93
140.0	11.91	9.45	26.65	58.23	67.71	58.23	26.65	9.45	11.91	9.45
142.5	9.34	7.40	18.91	47.84	56.51	47.84	18.91	7.40	9.34	7.40
145.0	7.07	5.62	12.91	37.74	45.71	37.74	12.91	5.62	7.07	5.62
147.5	5.22	4.06	7.75	28.29	35.40	28.29	7.75	4.06	5.22	4.06
150.0	3.85	3.06	3.96	19.52	25.71	19.52	3.96	3.06	3.85	3.06
152.5	2.80	2.83	3.70	12.18	17.24	12.18	3.70	2.83	2.80	2.83
155.0	2.52	2.76	3.36	6.21	9.80	6.21	3.36	2.76	2.52	2.76
157.5	2.55	2.71	3.11	3.84	5.58	3.84	3.11	2.71	2.55	2.71
160.0	2.57	2.81	2.90	3.39	3.64	3.39	2.90	2.81	2.57	2.81
162.5	2.57	2.71	2.96	3.12	3.14	3.12	2.96	2.71	2.57	2.71
165.0	2.54	2.62	2.77	2.92	2.81	2.92	2.77	2.62	2.54	2.62
167.5	2.42	2.37	2.50	2.70	2.57	2.70	2.50	2.37	2.42	2.37
170.0	2.52	2.46	2.56	2.42	2.55	2.42	2.56	2.46	2.52	2.46
172.5	2.67	2.45	2.40	2.47	2.24	2.47	2.40	2.45	2.67	2.45
175.0	2.58	2.51	2.24	2.43	2.21	2.43	2.24	2.51	2.58	2.51
177.5	2.57	2.66	2.47	2.18	2.27	2.18	2.47	2.66	2.57	2.66
180.0	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37

**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	4786.21	4786.21	4786.21	4786.21	4786.21	4786.21	4786.21
2.5	4786.49	4783.11	4772.43	4783.11	4786.49	4777.19	4770.64
5.0	4768.95	4769.12	4756.25	4769.12	4768.95	4757.36	4752.02
7.5	4738.68	4740.39	4730.22	4740.39	4738.68	4725.19	4720.55
10.0	4694.93	4701.76	4689.92	4701.76	4694.93	4681.73	4674.45
12.5	4640.62	4642.91	4633.95	4642.91	4640.62	4626.77	4615.72
15.0	4571.88	4571.15	4562.52	4571.15	4571.88	4558.69	4543.91
17.5	4488.53	4486.58	4479.23	4486.58	4488.53	4477.12	4458.62
20.0	4393.22	4389.60	4383.99	4389.60	4393.22	4380.33	4361.73
22.5	4283.62	4284.02	4276.42	4284.02	4283.62	4272.03	4252.77
25.0	4164.23	4166.08	4156.38	4166.08	4164.23	4151.47	4131.95
27.5	4036.50	4036.21	4027.15	4036.21	4036.50	4020.53	4000.21
30.0	3899.50	3897.09	3887.26	3897.09	3899.50	3878.99	3856.73
32.5	3750.81	3746.66	3742.08	3746.66	3750.81	3728.68	3700.76
35.0	3592.60	3590.13	3591.56	3590.13	3592.60	3569.40	3539.28
37.5	3427.59	3435.17	3433.79	3435.17	3427.59	3402.23	3374.18
40.0	3263.32	3276.47	3270.07	3276.47	3263.32	3229.31	3201.40
42.5	3095.45	3108.28	3103.01	3108.28	3095.45	3053.51	3021.36
45.0	2924.26	2934.19	2933.84	2934.19	2924.26	2876.79	2837.68
47.5	2748.60	2765.04	2770.12	2765.04	2748.60	2695.62	2654.75
50.0	2569.61	2602.13	2609.69	2602.13	2569.61	2512.15	2471.21
52.5	2395.06	2439.34	2450.95	2439.34	2395.06	2332.28	2286.37
55.0	2221.09	2275.94	2296.40	2275.94	2221.09	2153.74	2103.34
57.5	2050.30	2121.77	2147.18	2121.77	2050.30	1977.51	1922.17
60.0	1882.66	1976.63	2010.65	1976.63	1882.66	1802.26	1741.15
62.5	1719.84	1837.02	1876.00	1837.02	1719.84	1627.18	1564.48
65.0	1561.08	1696.07	1736.27	1696.07	1561.08	1457.45	1392.63
67.5	1406.56	1551.72	1594.58	1551.72	1406.56	1293.10	1223.32
70.0	1256.70	1408.91	1452.96	1408.91	1256.70	1131.94	1056.33
72.5	1111.63	1267.13	1310.19	1267.13	1111.63	974.21	895.49
75.0	968.03	1125.31	1167.94	1125.31	968.03	820.24	740.86
77.5	828.56	983.61	1027.76	983.61	828.56	673.35	589.73
80.0	695.56	848.46	892.99	848.46	695.56	534.81	445.49

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CANDELA TABULATION - (Cont.)

82.5	572.79	726.04	767.56	726.04	572.79	408.36	316.08
85.0	466.60	612.10	650.88	612.10	466.60	302.14	208.44
87.5	388.67	521.72	558.45	521.72	388.67	229.33	132.49
90.0	323.17	442.88	477.56	442.88	323.17	182.30	101.11
92.5	274.81	377.74	408.84	377.74	274.81	157.74	94.89
95.0	242.69	328.80	355.40	328.80	242.69	145.91	90.25
97.5	222.20	293.06	315.59	293.06	222.20	135.46	85.92
100.0	205.54	267.70	286.86	267.70	205.54	124.90	80.91
102.5	189.91	247.27	264.59	247.27	189.91	114.48	75.53
105.0	177.00	230.01	246.36	230.01	177.00	104.85	70.07
107.5	164.03	213.70	230.14	213.70	164.03	95.74	64.66
110.0	151.71	198.73	214.69	198.73	151.71	86.53	59.53
112.5	139.84	184.46	200.25	184.46	139.84	77.30	54.19
115.0	127.98	170.61	185.91	170.61	127.98	68.27	49.21
117.5	116.88	157.60	172.55	157.60	116.88	58.94	44.28
120.0	105.95	145.62	160.01	145.62	105.95	50.55	39.78
122.5	95.30	133.97	147.09	133.97	95.30	42.31	35.34
125.0	84.95	121.77	134.79	121.77	84.95	35.07	31.08
127.5	74.42	111.14	124.23	111.14	74.42	27.85	27.15
130.0	64.27	100.85	112.97	100.85	64.27	21.98	23.56
132.5	54.24	89.90	101.31	89.90	54.24	17.56	20.51
135.0	44.49	79.50	90.32	79.50	44.49	14.48	17.41
137.5	35.06	68.75	78.90	68.75	35.06	11.93	14.66
140.0	26.65	58.23	67.71	58.23	26.65	9.45	11.91
142.5	18.91	47.84	56.51	47.84	18.91	7.40	9.34
145.0	12.91	37.74	45.71	37.74	12.91	5.62	7.07
147.5	7.75	28.29	35.40	28.29	7.75	4.06	5.22
150.0	3.96	19.52	25.71	19.52	3.96	3.06	3.85
152.5	3.70	12.18	17.24	12.18	3.70	2.83	2.80
155.0	3.36	6.21	9.80	6.21	3.36	2.76	2.52
157.5	3.11	3.84	5.58	3.84	3.11	2.71	2.55
160.0	2.90	3.39	3.64	3.39	2.90	2.81	2.57
162.5	2.96	3.12	3.14	3.12	2.96	2.71	2.57
165.0	2.77	2.92	2.81	2.92	2.77	2.62	2.54
167.5	2.50	2.70	2.57	2.70	2.50	2.37	2.42
170.0	2.56	2.42	2.55	2.42	2.56	2.46	2.52
172.5	2.40	2.47	2.24	2.47	2.40	2.45	2.67
175.0	2.24	2.43	2.21	2.43	2.24	2.51	2.58
177.5	2.47	2.18	2.27	2.18	2.47	2.66	2.57
180.0	2.37	2.37	2.37	2.37	2.37	2.37	2.37

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1738.7	N.A.	12.50
0-30	3652.24	N.A.	26.30
0-40	5890.66	N.A.	42.40
0-60	10114.97	N.A.	72.80
0-80	12694.42	N.A.	91.30
0-90	13207.91	N.A.	95.00
10-90	12755.62	N.A.	91.80
20-40	4151.96	N.A.	29.90
20-50	6394.21	N.A.	46.00
40-70	5779.94	N.A.	41.60
60-80	2579.45	N.A.	18.60
70-80	1023.82	N.A.	7.40
80-90	513.49	N.A.	3.70
90-110	441.72	N.A.	3.20
90-120	562.54	N.A.	4.00
90-130	636.05	N.A.	4.60
90-150	687.29	N.A.	4.90
90-180	690.95	N.A.	5.00
110-180	249.23	N.A.	1.80
0-180	13898.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	452.30
10-20	1286.41
20-30	1913.54
30-40	2238.42
40-50	2242.25
50-60	1982.06
60-70	1555.63
70-80	1023.82
80-90	513.49
90-100	263.61
100-110	178.11
110-120	120.82
120-130	73.51
130-140	37.70
140-150	13.55
150-160	2.64
160-170	0.79
170-180	0.23

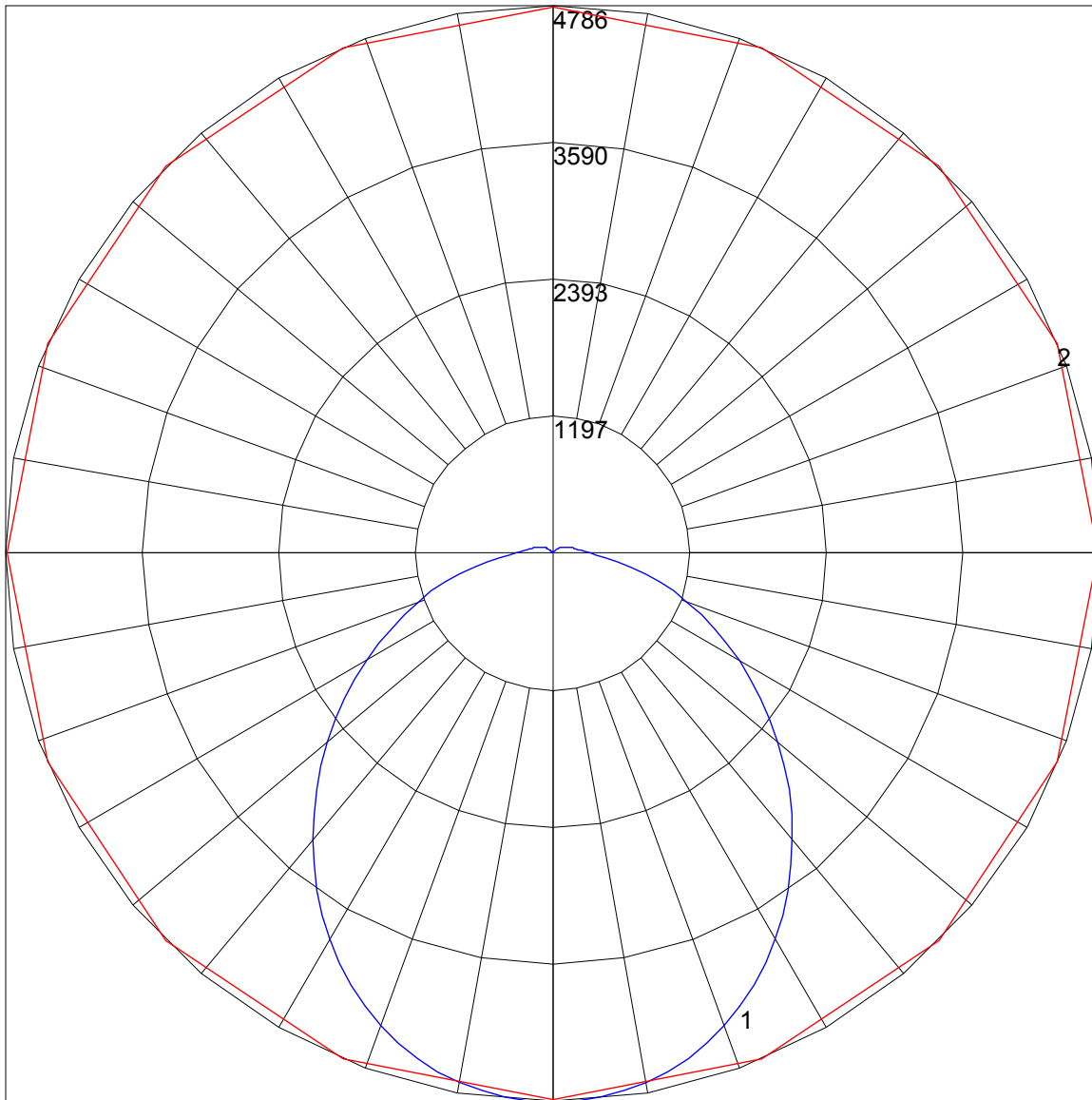
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	97	97	97	95
1	107	102	97	93	104	99	95	91	94	90	87	89	86	84	85	82	80	78
2	97	89	81	76	94	86	80	74	82	76	72	78	73	69	74	70	67	65
3	88	78	69	63	86	76	68	62	72	66	60	69	63	58	65	61	57	54
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	58	53	49	47
5	75	62	53	46	72	60	52	45	57	50	44	55	49	43	53	47	43	40
6	69	55	47	40	67	54	46	40	52	45	39	50	43	38	48	42	38	35
7	64	50	42	35	62	49	41	35	47	40	35	45	39	34	44	38	33	31
8	59	46	37	32	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	56	42	34	29	54	41	34	28	40	33	28	38	32	27	37	31	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 4786.49 Located At Horizontal Angle = 45, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)