



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : QDF-44-LED35-MO-FWA-D1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] QDF-44-LED35-MO-FWA-D1  
 [TESTLAB] Intertek  
 [ISSUE DATE] March 28, 2017  
 [MANUFAC] Prudential Lighting

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5033
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	80
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.19 ft
Luminous Width (90-270)	3.19 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1738	1724	1728
55	1689	1668	1673
65	1615	1588	1595
75	1512	1475	1494
85	1393	1336	1358

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : QDF-44-LED35-MO-FWA-D1.IES**

**CANDELA TABULATION**

	<b>0.0</b>	<b>22.5</b>	<b>45.0</b>	<b>67.5</b>	<b>90.0</b>	<b>112.5</b>	<b>135.0</b>	<b>157.5</b>	<b>180.0</b>	<b>202.5</b>
<b>0.0</b>	1725.993	1725.993	1725.993	1725.993	1725.993	1725.993	1725.993	1725.993	1725.993	1725.993
<b>2.5</b>	1729.878	1722.947	1723.528	1722.217	1728.052	1722.217	1723.528	1722.947	1729.878	1722.947
<b>5.0</b>	1724.350	1717.311	1717.428	1716.315	1722.374	1716.315	1717.428	1717.311	1724.350	1717.311
<b>7.5</b>	1716.058	1709.144	1707.310	1706.530	1713.784	1706.530	1707.310	1709.144	1716.058	1709.144
<b>10.0</b>	1701.807	1695.184	1694.843	1693.524	1698.885	1693.524	1694.843	1695.184	1701.807	1695.184
<b>12.5</b>	1684.518	1677.953	1676.907	1676.824	1681.505	1676.824	1676.907	1677.953	1684.518	1677.953
<b>15.0</b>	1663.967	1656.282	1655.452	1654.630	1660.639	1654.630	1655.452	1656.282	1663.967	1656.282
<b>17.5</b>	1639.491	1632.079	1631.689	1629.257	1634.959	1629.257	1631.689	1632.079	1639.491	1632.079
<b>20.0</b>	1612.076	1604.290	1602.904	1602.373	1606.789	1602.373	1602.904	1604.290	1612.076	1604.290
<b>22.5</b>	1580.835	1573.863	1571.705	1570.061	1575.049	1570.061	1571.705	1573.863	1580.835	1573.863
<b>25.0</b>	1545.850	1538.521	1536.720	1535.209	1539.484	1535.209	1536.720	1538.521	1545.850	1538.521
<b>27.5</b>	1507.919	1501.868	1498.914	1497.121	1501.993	1497.121	1498.914	1501.868	1507.919	1501.868
<b>30.0</b>	1465.224	1460.783	1456.501	1455.446	1460.128	1455.446	1456.501	1460.783	1465.224	1460.783
<b>32.5</b>	1421.317	1416.876	1413.042	1411.241	1416.262	1411.241	1413.042	1416.876	1421.317	1416.876
<b>35.0</b>	1375.791	1369.849	1366.022	1364.877	1368.205	1364.877	1366.022	1369.849	1375.791	1369.849
<b>37.5</b>	1327.353	1320.364	1316.065	1315.268	1317.708	1315.268	1316.065	1320.364	1327.353	1320.364
<b>40.0</b>	1274.340	1268.489	1263.517	1262.505	1266.289	1262.505	1263.517	1268.489	1274.340	1268.489
<b>42.5</b>	1218.764	1214.381	1207.940	1207.525	1211.958	1207.525	1207.940	1214.381	1218.764	1214.381
<b>45.0</b>	1161.411	1156.522	1151.426	1150.098	1154.148	1150.098	1151.426	1156.522	1161.411	1156.522
<b>47.5</b>	1102.804	1097.882	1093.226	1091.184	1095.741	1091.184	1093.226	1097.882	1102.804	1097.882
<b>50.0</b>	1042.704	1036.670	1031.590	1029.681	1033.308	1029.681	1031.590	1036.670	1042.704	1036.670
<b>52.5</b>	980.803	974.071	969.174	967.365	971.125	967.365	969.174	974.071	980.803	974.071
<b>55.0</b>	915.282	909.605	903.820	901.944	906.667	901.944	903.820	909.605	915.282	909.605
<b>57.5</b>	848.517	844.234	836.955	836.333	841.537	836.333	836.955	844.234	848.517	844.234
<b>60.0</b>	780.939	776.573	770.439	769.808	773.477	769.808	770.439	776.573	780.939	776.573
<b>62.5</b>	713.592	707.865	702.031	701.748	704.869	701.748	702.031	707.865	713.592	707.865
<b>65.0</b>	644.827	638.278	634.070	631.904	636.826	631.904	634.070	638.278	644.827	638.278
<b>67.5</b>	576.452	569.563	565.205	563.346	569.089	563.346	565.205	569.563	576.452	569.563
<b>70.0</b>	505.669	500.631	495.817	494.796	500.141	494.796	495.817	500.631	505.669	500.631
<b>72.5</b>	437.153	432.264	427.317	426.047	432.571	426.047	427.317	432.264	437.153	432.264
<b>75.0</b>	369.674	363.789	360.710	359.639	365.432	359.639	360.710	363.789	369.674	363.789
<b>77.5</b>	303.614	298.086	294.542	294.467	298.850	294.467	294.542	298.086	303.614	298.086
<b>80.0</b>	237.778	233.172	230.574	230.176	234.898	230.176	230.574	233.172	237.778	233.172
<b>82.5</b>	174.084	170.723	169.345	168.789	172.856	168.789	169.345	170.723	174.084	170.723
<b>85.0</b>	114.723	111.369	110.008	109.975	111.851	109.975	110.008	111.369	114.723	111.369
<b>87.5</b>	55.336	52.846	53.112	53.261	54.938	53.261	53.112	52.846	55.336	52.846
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>92.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>97.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>102.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>107.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>112.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>117.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>122.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>127.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>132.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**

	<b>225.0</b>	<b>247.5</b>	<b>270.0</b>	<b>292.5</b>	<b>315.0</b>	<b>337.5</b>	<b>360.0</b>
0.0	1725.993	1725.993	1725.993	1725.993	1725.993	1725.993	1725.993
2.5	1723.528	1722.217	1728.052	1722.217	1723.528	1722.947	1729.878
5.0	1717.428	1716.315	1722.374	1716.315	1717.428	1717.311	1724.350
7.5	1707.310	1706.530	1713.784	1706.530	1707.310	1709.144	1716.058
10.0	1694.843	1693.524	1698.885	1693.524	1694.843	1695.184	1701.807
12.5	1676.907	1676.824	1681.505	1676.824	1676.907	1677.953	1684.518
15.0	1655.452	1654.630	1660.639	1654.630	1655.452	1656.282	1663.967
17.5	1631.689	1629.257	1634.959	1629.257	1631.689	1632.079	1639.491
20.0	1602.904	1602.373	1606.789	1602.373	1602.904	1604.290	1612.076
22.5	1571.705	1570.061	1575.049	1570.061	1571.705	1573.863	1580.835
25.0	1536.720	1535.209	1539.484	1535.209	1536.720	1538.521	1545.850
27.5	1498.914	1497.121	1501.993	1497.121	1498.914	1501.868	1507.919
30.0	1456.501	1455.446	1460.128	1455.446	1456.501	1460.783	1465.224
32.5	1413.042	1411.241	1416.262	1411.241	1413.042	1416.876	1421.317
35.0	1366.022	1364.877	1368.205	1364.877	1366.022	1369.849	1375.791
37.5	1316.065	1315.268	1317.708	1315.268	1316.065	1320.364	1327.353
40.0	1263.517	1262.505	1266.289	1262.505	1263.517	1268.489	1274.340
42.5	1207.940	1207.525	1211.958	1207.525	1207.940	1214.381	1218.764
45.0	1151.426	1150.098	1154.148	1150.098	1151.426	1156.522	1161.411
47.5	1093.226	1091.184	1095.741	1091.184	1093.226	1097.882	1102.804
50.0	1031.590	1029.681	1033.308	1029.681	1031.590	1036.670	1042.704
52.5	969.174	967.365	971.125	967.365	969.174	974.071	980.803
55.0	903.820	901.944	906.667	901.944	903.820	909.605	915.282
57.5	836.955	836.333	841.537	836.333	836.955	844.234	848.517
60.0	770.439	769.808	773.477	769.808	770.439	776.573	780.939
62.5	702.031	701.748	704.869	701.748	702.031	707.865	713.592
65.0	634.070	631.904	636.826	631.904	634.070	638.278	644.827
67.5	565.205	563.346	569.089	563.346	565.205	569.563	576.452
70.0	495.817	494.796	500.141	494.796	495.817	500.631	505.669
72.5	427.317	426.047	432.571	426.047	427.317	432.264	437.153
75.0	360.710	359.639	365.432	359.639	360.710	363.789	369.674
77.5	294.542	294.467	298.850	294.467	294.542	298.086	303.614
80.0	230.574	230.176	234.898	230.176	230.574	233.172	237.778

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**CANDELA TABULATION - (Cont.)**

82.5	169.345	168.789	172.856	168.789	169.345	170.723	174.084
85.0	110.008	109.975	111.851	109.975	110.008	111.369	114.723
87.5	53.112	53.261	54.938	53.261	53.112	52.846	55.336
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	631.07	N.A.	12.50
0-30	1340.08	N.A.	26.60
0-40	2195.88	N.A.	43.60
0-60	3896.41	N.A.	77.40
0-80	4910.25	N.A.	97.60
0-90	5033.12	N.A.	100.00
10-90	4869.78	N.A.	96.80
20-40	1564.81	N.A.	31.10
20-50	2455.05	N.A.	48.80
40-70	2330.4	N.A.	46.30
60-80	1013.84	N.A.	20.10
70-80	383.97	N.A.	7.60
80-90	122.88	N.A.	2.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5033.12	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	163.34
10-20	467.73
20-30	709.01
30-40	855.80
40-50	890.24
50-60	810.28
60-70	629.87
70-80	383.97
80-90	122.88
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

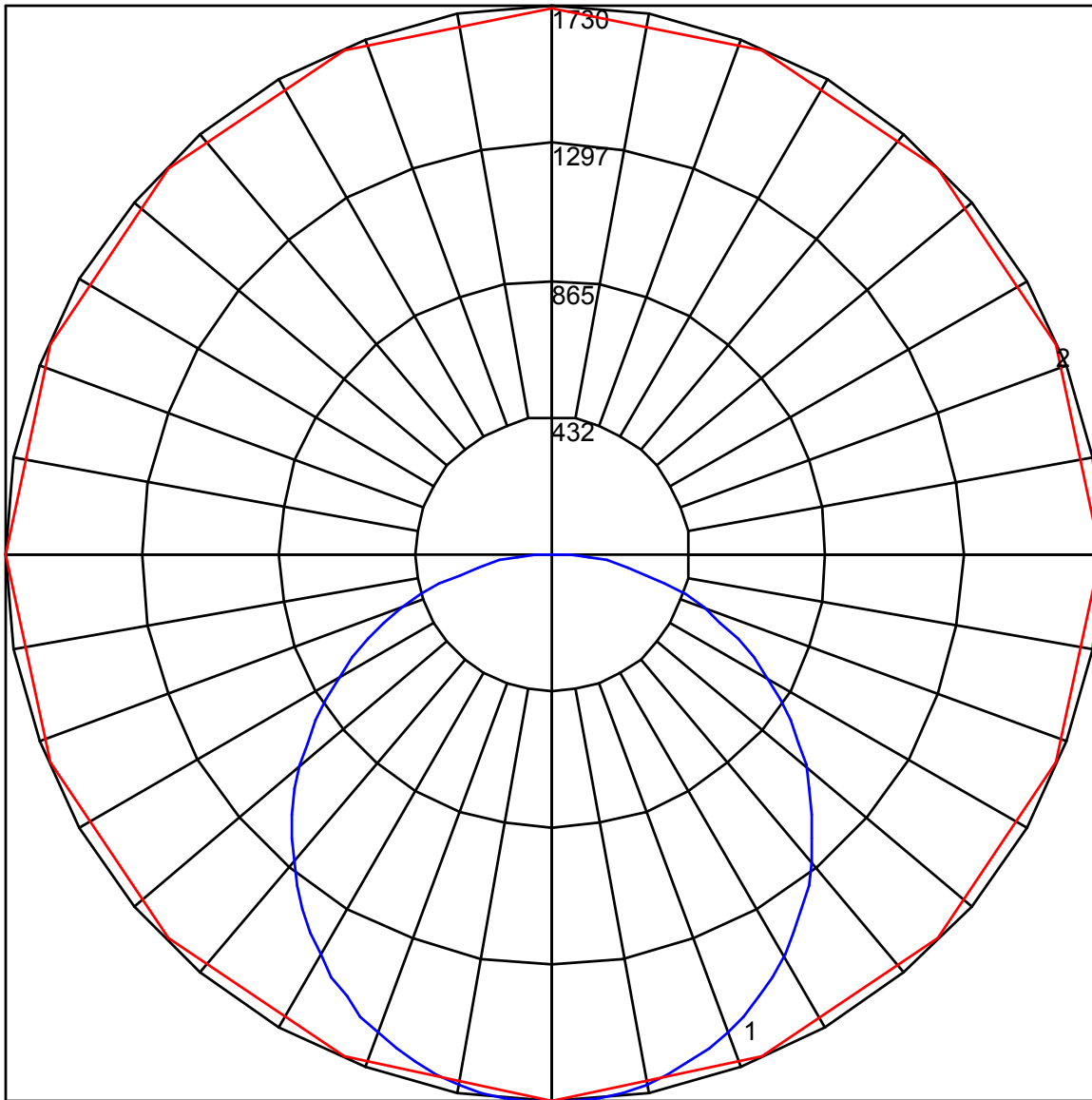
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 1729.878 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)