

Day-Brite

CFI

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FBY24L840-UNV-LFA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] F39991.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 8/30/18
[MANUFAC] DAY-BRITE / CFI
[LUMCAT] FBY24L840-UNV-LFA
[LUMINAIRE] FBY CORE HIGHBAY
[MORE] 4-FORTIMO EDGE 96UP 4000K BOARDS 190W DRIVER @1.7mA FROSTED ACRYLIC LENS
[LAMP] LED LUMINAIRE OUTPUT = 22055 LUMENS
[TEST DATE] 8/30/18
[LM79] Absolute Photometry tested in accordance with IES procedure LM79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	22055
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	175.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.81 ft
Luminous Width (90-270)	0.91 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	42919	43907	45150
55	39758	41537	38779
65	35977	36034	35599
75	31825	31863	31706
85	25635	28174	28384

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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	8355.3	8355.3	8355.3	8355.3	8355.3	8355.3	8355.3	8355.3	8355.3	8355.3
2.5	8310.5	8318.1	8357.5	8396.6	8396.4	8396.6	8357.5	8318.1	8310.5	8318.1
5.0	8276.7	8289.2	8333.5	8372.3	8373.7	8372.3	8333.5	8289.2	8276.7	8289.2
7.5	8219.4	8236.7	8259.8	8254.7	8240.9	8254.7	8259.8	8236.7	8219.4	8236.7
10.0	8139.2	8153.9	8138.6	8134.2	8122.3	8134.2	8138.6	8153.9	8139.2	8153.9
12.5	8034.7	8042.6	8001.2	7999.8	7988.8	7999.8	8001.2	8042.6	8034.7	8042.6
15.0	7910.4	7903.8	7855.0	7848.4	7834.2	7848.4	7855.0	7903.8	7910.4	7903.8
17.5	7763.0	7736.8	7683.7	7669.1	7650.5	7669.1	7683.7	7736.8	7763.0	7736.8
20.0	7592.6	7546.1	7492.5	7468.8	7447.8	7468.8	7492.5	7546.1	7592.6	7546.1
22.5	7399.6	7337.5	7281.9	7249.7	7226.3	7249.7	7281.9	7337.5	7399.6	7337.5
25.0	7186.9	7115.4	7052.9	7011.5	6984.2	7011.5	7052.9	7115.4	7186.9	7115.4
27.5	6961.4	6874.2	6809.8	6767.6	6735.2	6767.6	6809.8	6874.2	6961.4	6874.2
30.0	6713.0	6621.2	6549.3	6510.0	6485.7	6510.0	6549.3	6621.2	6713.0	6621.2
32.5	6448.9	6355.9	6283.3	6259.1	6255.8	6259.1	6283.3	6355.9	6448.9	6355.9
35.0	6170.8	6076.4	6007.7	6083.1	6120.4	6083.1	6007.7	6076.4	6170.8	6076.4
37.5	5794.2	5607.5	5550.1	5933.3	5997.7	5933.3	5550.1	5607.5	5794.2	5607.5
40.0	5316.5	5209.4	5124.4	5570.2	5880.2	5570.2	5124.4	5209.4	5316.5	5209.4
42.5	4939.8	4848.7	4943.6	5211.3	5491.3	5211.3	4943.6	4848.7	4939.8	4848.7
45.0	4648.3	4560.1	4755.3	4928.9	4889.9	4928.9	4755.3	4560.1	4648.3	4560.1
47.5	4361.9	4266.8	4521.5	4552.6	4463.9	4552.6	4521.5	4266.8	4361.9	4266.8
50.0	4070.8	3978.6	4265.4	4187.1	4055.1	4187.1	4265.4	3978.6	4070.8	3978.6
52.5	3785.3	3691.0	3954.4	3781.8	3695.8	3781.8	3954.4	3691.0	3785.3	3691.0
55.0	3492.8	3423.7	3649.1	3424.7	3406.8	3424.7	3649.1	3423.7	3492.8	3423.7
57.5	3200.3	3203.7	3313.9	3141.4	3138.2	3141.4	3313.9	3203.7	3200.3	3203.7
60.0	2891.3	3000.4	2927.3	2885.8	2890.2	2885.8	2927.3	3000.4	2891.3	3000.4
62.5	2607.5	2731.3	2590.9	2630.9	2633.3	2630.9	2590.9	2731.3	2607.5	2731.3
65.0	2328.8	2426.3	2332.5	2313.6	2304.3	2313.6	2332.5	2426.3	2328.8	2426.3
67.5	2042.5	2144.8	2087.0	2036.5	2051.1	2036.5	2087.0	2144.8	2042.5	2144.8
70.0	1776.6	1897.7	1774.5	1775.9	1773.5	1775.9	1774.5	1897.7	1776.6	1897.7
72.5	1516.7	1562.9	1512.7	1510.6	1508.3	1510.6	1512.7	1562.9	1516.7	1562.9
75.0	1261.6	1277.3	1263.1	1260.2	1256.9	1260.2	1263.1	1277.3	1261.6	1277.3
77.5	1004.2	1031.2	1020.3	1007.7	1004.3	1007.7	1020.3	1031.2	1004.2	1031.2
80.0	763.5	789.5	787.1	770.3	768.8	770.3	787.1	789.5	763.5	789.5
82.5	538.9	577.8	564.7	560.8	558.2	560.8	564.7	577.8	538.9	577.8
85.0	342.2	380.9	376.1	381.1	378.9	381.1	376.1	380.9	342.2	380.9
87.5	183.7	226.0	239.8	243.1	240.4	243.1	239.8	226.0	183.7	226.0
90.0	90.2	140.5	144.6	140.7	133.9	140.7	144.6	140.5	90.2	140.5
92.5	101.0	112.5	99.3	93.9	91.1	93.9	99.3	112.5	101.0	112.5
95.0	124.3	115.5	95.6	82.1	76.3	82.1	95.6	115.5	124.3	115.5
97.5	144.8	117.7	97.3	82.8	76.2	82.8	97.3	117.7	144.8	117.7
100.0	162.5	122.3	99.4	84.3	77.5	84.3	99.4	122.3	162.5	122.3
102.5	177.3	128.7	101.8	86.8	79.7	86.8	101.8	128.7	177.3	128.7
105.0	195.3	135.7	105.4	89.7	82.1	89.7	105.4	135.7	195.3	135.7
107.5	213.2	142.8	110.9	93.6	85.6	93.6	110.9	142.8	213.2	142.8
110.0	230.6	149.7	117.6	98.4	90.4	98.4	117.6	149.7	230.6	149.7
112.5	247.7	157.4	125.6	104.7	96.6	104.7	125.6	157.4	247.7	157.4
115.0	263.3	166.7	133.0	112.9	104.3	112.9	133.0	166.7	263.3	166.7
117.5	277.9	178.3	139.4	121.3	113.3	121.3	139.4	178.3	277.9	178.3
120.0	291.9	190.7	145.4	129.9	121.5	129.9	145.4	190.7	291.9	190.7
122.5	304.7	202.0	151.3	136.0	129.6	136.0	151.3	202.0	304.7	202.0
125.0	315.0	213.7	157.7	140.4	135.1	140.4	157.7	213.7	315.0	213.7
127.5	322.7	227.9	164.3	144.2	138.4	144.2	164.3	227.9	322.7	227.9
130.0	329.2	243.3	171.1	148.3	141.5	148.3	171.1	243.3	329.2	243.3
132.5	335.3	258.5	180.1	153.7	145.4	153.7	180.1	258.5	335.3	258.5

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CANDELA TABULATION - (Cont.)

135.0	339.7	274.4	189.9	158.6	151.6	158.6	189.9	274.4	339.7	274.4
137.5	340.1	289.5	200.1	164.5	155.9	164.5	200.1	289.5	340.1	289.5
140.0	339.0	301.8	209.3	173.8	163.4	173.8	209.3	301.8	339.0	301.8
142.5	337.3	309.6	218.2	184.7	173.3	184.7	218.2	309.6	337.3	309.6
145.0	333.9	315.5	227.3	196.3	185.4	196.3	227.3	315.5	333.9	315.5
147.5	328.2	319.5	237.7	205.0	197.3	205.0	237.7	319.5	328.2	319.5
150.0	321.4	320.2	248.5	213.2	205.4	213.2	248.5	320.2	321.4	320.2
152.5	312.9	318.4	261.3	222.6	213.6	222.6	261.3	318.4	312.9	318.4
155.0	304.8	314.4	274.9	232.5	223.6	232.5	274.9	314.4	304.8	314.4
157.5	297.6	308.9	285.7	243.4	233.9	243.4	285.7	308.9	297.6	308.9
160.0	291.4	302.8	294.6	255.7	245.3	255.7	294.6	302.8	291.4	302.8
162.5	285.0	294.9	296.6	274.4	261.3	274.4	296.6	294.9	285.0	294.9
165.0	276.5	284.6	292.4	286.2	281.3	286.2	292.4	284.6	276.5	284.6
167.5	268.1	274.3	284.2	284.3	284.2	284.3	284.2	274.3	268.1	274.3
170.0	260.9	265.4	274.4	274.9	273.0	274.9	274.4	265.4	260.9	265.4
172.5	256.6	260.1	264.4	264.0	260.0	264.0	264.4	260.1	256.6	260.1
175.0	253.5	254.6	255.7	254.6	250.3	254.6	255.7	254.6	253.5	254.6
177.5	251.5	252.0	250.0	248.4	247.3	248.4	250.0	252.0	251.5	252.0
180.0	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5

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	8355.3	8355.3	8355.3	8355.3	8355.3	8355.3	8355.3
2.5	8357.5	8396.6	8396.4	8396.6	8357.5	8318.1	8310.5
5.0	8333.5	8372.3	8373.7	8372.3	8333.5	8289.2	8276.7
7.5	8259.8	8254.7	8240.9	8254.7	8259.8	8236.7	8219.4
10.0	8138.6	8134.2	8122.3	8134.2	8138.6	8153.9	8139.2
12.5	8001.2	7999.8	7988.8	7999.8	8001.2	8042.6	8034.7
15.0	7855.0	7848.4	7834.2	7848.4	7855.0	7903.8	7910.4
17.5	7683.7	7669.1	7650.5	7669.1	7683.7	7736.8	7763.0
20.0	7492.5	7468.8	7447.8	7468.8	7492.5	7546.1	7592.6
22.5	7281.9	7249.7	7226.3	7249.7	7281.9	7337.5	7399.6
25.0	7052.9	7011.5	6984.2	7011.5	7052.9	7115.4	7186.9
27.5	6809.8	6767.6	6735.2	6767.6	6809.8	6874.2	6961.4
30.0	6549.3	6510.0	6485.7	6510.0	6549.3	6621.2	6713.0
32.5	6283.3	6259.1	6255.8	6259.1	6283.3	6355.9	6448.9
35.0	6007.7	6083.1	6120.4	6083.1	6007.7	6076.4	6170.8
37.5	5550.1	5933.3	5997.7	5933.3	5550.1	5607.5	5794.2
40.0	5124.4	5570.2	5880.2	5570.2	5124.4	5209.4	5316.5
42.5	4943.6	5211.3	5491.3	5211.3	4943.6	4848.7	4939.8
45.0	4755.3	4928.9	4889.9	4928.9	4755.3	4560.1	4648.3
47.5	4521.5	4552.6	4463.9	4552.6	4521.5	4266.8	4361.9
50.0	4265.4	4187.1	4055.1	4187.1	4265.4	3978.6	4070.8
52.5	3954.4	3781.8	3695.8	3781.8	3954.4	3691.0	3785.3
55.0	3649.1	3424.7	3406.8	3424.7	3649.1	3423.7	3492.8
57.5	3313.9	3141.4	3138.2	3141.4	3313.9	3203.7	3200.3
60.0	2927.3	2885.8	2890.2	2885.8	2927.3	3000.4	2891.3
62.5	2590.9	2630.9	2633.3	2630.9	2590.9	2731.3	2607.5
65.0	2332.5	2313.6	2304.3	2313.6	2332.5	2426.3	2328.8
67.5	2087.0	2036.5	2051.1	2036.5	2087.0	2144.8	2042.5
70.0	1774.5	1775.9	1773.5	1775.9	1774.5	1897.7	1776.6
72.5	1512.7	1510.6	1508.3	1510.6	1512.7	1562.9	1516.7
75.0	1263.1	1260.2	1256.9	1260.2	1263.1	1277.3	1261.6
77.5	1020.3	1007.7	1004.3	1007.7	1020.3	1031.2	1004.2
80.0	787.1	770.3	768.8	770.3	787.1	789.5	763.5

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CANDELA TABULATION - (Cont.)

82.5	564.7	560.8	558.2	560.8	564.7	577.8	538.9
85.0	376.1	381.1	378.9	381.1	376.1	380.9	342.2
87.5	239.8	243.1	240.4	243.1	239.8	226.0	183.7
90.0	144.6	140.7	133.9	140.7	144.6	140.5	90.2
92.5	99.3	93.9	91.1	93.9	99.3	112.5	101.0
95.0	95.6	82.1	76.3	82.1	95.6	115.5	124.3
97.5	97.3	82.8	76.2	82.8	97.3	117.7	144.8
100.0	99.4	84.3	77.5	84.3	99.4	122.3	162.5
102.5	101.8	86.8	79.7	86.8	101.8	128.7	177.3
105.0	105.4	89.7	82.1	89.7	105.4	135.7	195.3
107.5	110.9	93.6	85.6	93.6	110.9	142.8	213.2
110.0	117.6	98.4	90.4	98.4	117.6	149.7	230.6
112.5	125.6	104.7	96.6	104.7	125.6	157.4	247.7
115.0	133.0	112.9	104.3	112.9	133.0	166.7	263.3
117.5	139.4	121.3	113.3	121.3	139.4	178.3	277.9
120.0	145.4	129.9	121.5	129.9	145.4	190.7	291.9
122.5	151.3	136.0	129.6	136.0	151.3	202.0	304.7
125.0	157.7	140.4	135.1	140.4	157.7	213.7	315.0
127.5	164.3	144.2	138.4	144.2	164.3	227.9	322.7
130.0	171.1	148.3	141.5	148.3	171.1	243.3	329.2
132.5	180.1	153.7	145.4	153.7	180.1	258.5	335.3
135.0	189.9	158.6	151.6	158.6	189.9	274.4	339.7
137.5	200.1	164.5	155.9	164.5	200.1	289.5	340.1
140.0	209.3	173.8	163.4	173.8	209.3	301.8	339.0
142.5	218.2	184.7	173.3	184.7	218.2	309.6	337.3
145.0	227.3	196.3	185.4	196.3	227.3	315.5	333.9
147.5	237.7	205.0	197.3	205.0	237.7	319.5	328.2
150.0	248.5	213.2	205.4	213.2	248.5	320.2	321.4
152.5	261.3	222.6	213.6	222.6	261.3	318.4	312.9
155.0	274.9	232.5	223.6	232.5	274.9	314.4	304.8
157.5	285.7	243.4	233.9	243.4	285.7	308.9	297.6
160.0	294.6	255.7	245.3	255.7	294.6	302.8	291.4
162.5	296.6	274.4	261.3	274.4	296.6	294.9	285.0
165.0	292.4	286.2	281.3	286.2	292.4	284.6	276.5
167.5	284.2	284.3	284.2	284.3	284.2	274.3	268.1
170.0	274.4	274.9	273.0	274.9	274.4	265.4	260.9
172.5	264.4	264.0	260.0	264.0	264.4	260.1	256.6
175.0	255.7	254.6	250.3	254.6	255.7	254.6	253.5
177.5	250.0	248.4	247.3	248.4	250.0	252.0	251.5
180.0	248.5	248.5	248.5	248.5	248.5	248.5	248.5

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3005.06	N.A.	13.60
0-30	6258.47	N.A.	28.40
0-40	10030.7	N.A.	45.50
0-60	16827.69	N.A.	76.30
0-80	20506.22	N.A.	93.00
0-90	20948.38	N.A.	95.00
10-90	20159.85	N.A.	91.40
20-40	7025.64	N.A.	31.90
20-50	10690.36	N.A.	48.50
40-70	9131.3	N.A.	41.40
60-80	3678.53	N.A.	16.70
70-80	1344.22	N.A.	6.10
80-90	442.16	N.A.	2.00
90-110	239.69	N.A.	1.10
90-120	387.75	N.A.	1.80
90-130	552.65	N.A.	2.50
90-150	876.27	N.A.	4.00
90-180	1106.23	N.A.	5.00
110-180	866.54	N.A.	3.90
0-180	22054.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	788.54
10-20	2216.53
20-30	3253.41
30-40	3772.23
40-50	3664.72
50-60	3132.27
60-70	2334.31
70-80	1344.22
80-90	442.16
90-100	114.95
100-110	124.74
110-120	148.06
120-130	164.90
130-140	167.61
140-150	156.01
150-160	125.26
160-170	79.90
170-180	24.80

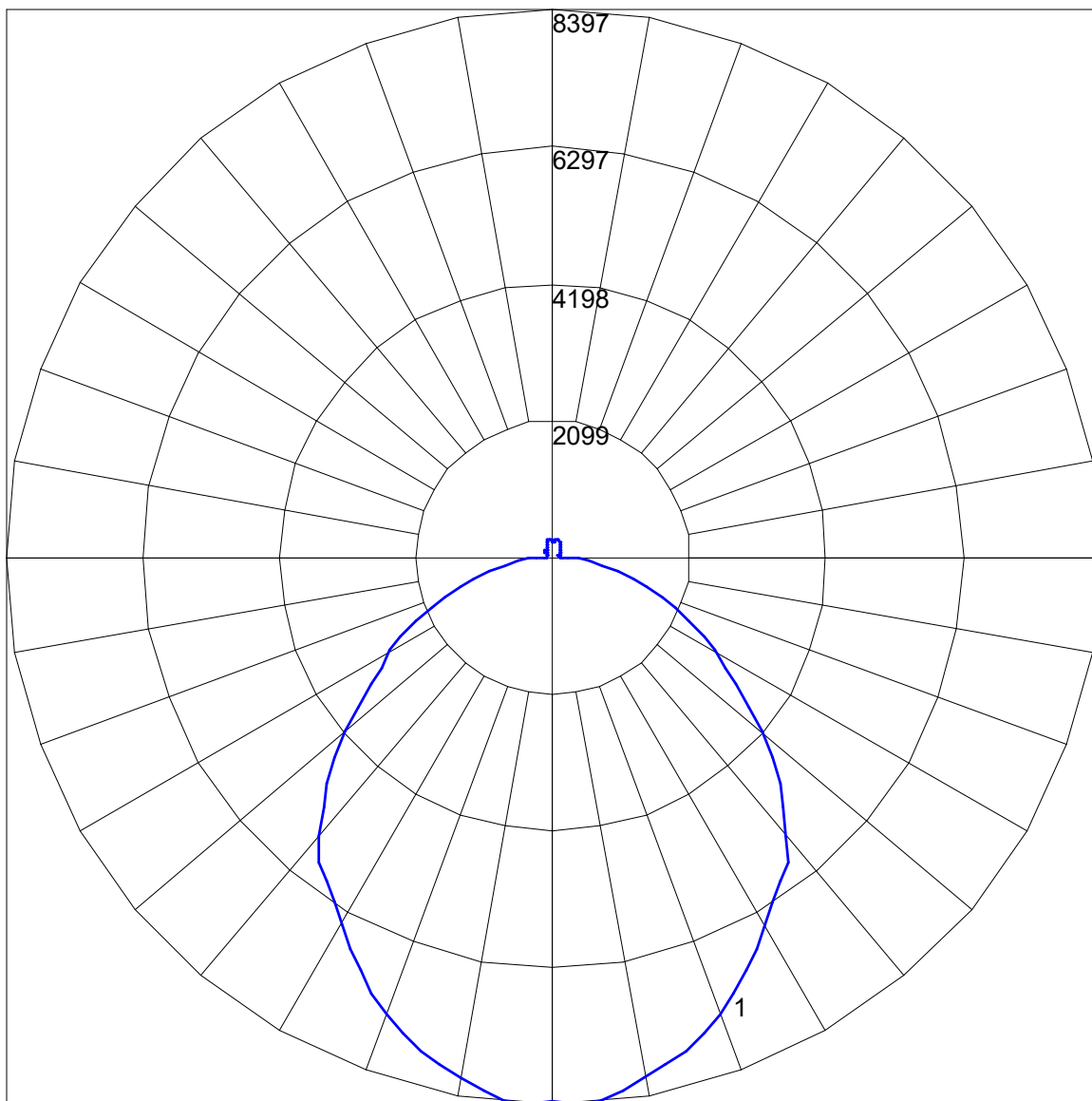
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	103	99	95	105	100	97	93	95	92	89	90	88	86	86	84	82	80
2	98	90	84	78	95	88	82	77	84	79	74	80	75	72	76	72	69	67
3	90	80	72	65	87	78	70	64	74	68	63	71	65	61	67	63	59	57
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	55	49	45	43
6	70	57	49	42	68	56	48	42	54	46	41	52	45	40	50	44	40	38
7	65	52	43	37	63	51	43	37	49	42	37	47	41	36	45	40	35	33
8	61	48	39	34	59	47	39	33	45	38	33	43	37	32	42	36	32	30
9	57	44	36	30	55	43	35	30	41	34	30	40	34	29	39	33	29	27
10	53	40	33	27	52	40	32	27	38	32	27	37	31	27	36	30	26	25

POLAR GRAPH



Maximum Candela = 8396.6 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)