

Day-Brite

CFI

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FBY30L840-UNV-LFA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] F40028.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 9/11/18
[MANUFAC] DAY-BRITE / CFI
[LUMCAT] FBY30L840-UNV-LFA
[LUMINAIRE] FBY CORE HIGHBAY
[MORE] 4-FORTIMO EDGE 160UP 4000K BOARDS 190W DRIVER @2075mA FROSTED ACRYLIC LENS
[LAMP] LED LUMINAIRE OUTPUT = 27578 LUMENS
[TEST DATE] 9/11/18
[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	27578
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	208.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.30
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	55622	54478	61121
55	51199	56680	50123
65	45790	45917	46302
75	39211	40881	40157
85	26369	30684	33021

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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	10275.3	10275.3	10275.3	10275.3	10275.3	10275.3	10275.3	10275.3	10275.3	10275.3
2.5	10222.2	10222.2	10263.4	10310.5	10317.4	10310.5	10263.4	10222.2	10222.2	10222.2
5.0	10177.4	10180.0	10239.9	10281.5	10268.5	10281.5	10239.9	10180.0	10177.4	10180.0
7.5	10105.4	10117.0	10176.5	10185.8	10191.8	10185.8	10176.5	10117.0	10105.4	10117.0
10.0	10004.2	10032.3	10030.0	10037.0	10017.2	10037.0	10030.0	10032.3	10004.2	10032.3
12.5	9871.4	9914.8	9865.5	9839.7	9822.4	9839.7	9865.5	9914.8	9871.4	9914.8
15.0	9709.8	9742.3	9676.3	9639.3	9630.0	9639.3	9676.3	9742.3	9709.8	9742.3
17.5	9520.6	9519.0	9441.8	9413.9	9397.0	9413.9	9441.8	9519.0	9520.6	9519.0
20.0	9301.7	9275.0	9197.3	9164.9	9137.7	9164.9	9197.3	9275.0	9301.7	9275.0
22.5	9058.5	9017.6	8933.0	8886.2	8859.4	8886.2	8933.0	9017.6	9058.5	9017.6
25.0	8796.2	8746.7	8642.1	8586.6	8559.6	8586.6	8642.1	8746.7	8796.2	8746.7
27.5	8513.0	8443.9	8338.6	8281.5	8243.8	8281.5	8338.6	8443.9	8513.0	8443.9
30.0	8197.4	8119.0	8013.6	7958.3	7931.5	7958.3	8013.6	8119.0	8197.4	8119.0
32.5	7866.9	7776.9	7682.6	7630.5	7601.1	7630.5	7682.6	7776.9	7866.9	7776.9
35.0	7520.5	7423.1	7340.2	7295.6	7297.4	7295.6	7340.2	7423.1	7520.5	7423.1
37.5	7164.6	7062.7	6980.9	6977.4	7165.7	6977.4	6980.9	7062.7	7164.6	7062.7
40.0	6796.0	6693.7	6617.8	6858.0	7041.1	6858.0	6617.8	6693.7	6796.0	6693.7
42.5	6413.1	6312.5	6252.6	6717.2	6832.2	6717.2	6252.6	6312.5	6413.1	6312.5
45.0	6024.0	5933.1	5900.1	6491.6	6619.6	6491.6	5900.1	5933.1	6024.0	5933.1
47.5	5621.2	5535.3	5684.4	6240.3	6111.0	6240.3	5684.4	5535.3	5621.2	5535.3
50.0	5233.7	5151.6	5516.9	5695.4	5297.4	5695.4	5516.9	5151.6	5233.7	5151.6
52.5	4867.5	4770.0	5273.8	4887.9	4773.0	4887.9	5273.8	4770.0	4867.5	4770.0
55.0	4497.9	4404.3	4979.4	4409.7	4403.4	4409.7	4979.4	4404.3	4497.9	4404.3
57.5	4088.4	4045.8	4472.8	4052.7	4048.8	4052.7	4472.8	4045.8	4088.4	4045.8
60.0	3719.8	3656.3	3744.6	3699.0	3698.2	3699.0	3744.6	3656.3	3719.8	3656.3
62.5	3328.6	3316.3	3317.6	3343.1	3349.9	3343.1	3317.6	3316.3	3328.6	3316.3
65.0	2964.0	3050.9	2972.2	2988.0	2997.1	2988.0	2972.2	3050.9	2964.0	3050.9
67.5	2587.1	2847.4	2617.4	2642.7	2674.5	2642.7	2617.4	2847.4	2587.1	2847.4
70.0	2237.6	2547.0	2280.3	2312.7	2290.2	2312.7	2280.3	2547.0	2237.6	2547.0
72.5	1895.8	2020.4	1943.2	1939.1	1932.9	1939.1	1943.2	2020.4	1895.8	2020.4
75.0	1554.4	1586.6	1620.6	1595.1	1591.9	1595.1	1620.6	1586.6	1554.4	1586.6
77.5	1224.3	1266.6	1278.6	1267.7	1268.5	1267.7	1278.6	1266.6	1224.3	1266.6
80.0	911.5	970.1	966.0	956.7	959.6	956.7	966.0	970.1	911.5	970.1
82.5	618.9	690.0	678.2	682.1	694.7	682.1	678.2	690.0	618.9	690.0
85.0	352.0	398.6	409.6	428.5	440.8	428.5	409.6	398.6	352.0	398.6
87.5	162.0	210.7	244.5	259.3	263.6	259.3	244.5	210.7	162.0	210.7
90.0	67.2	139.3	156.0	166.1	164.3	166.1	156.0	139.3	67.2	139.3
92.5	112.3	142.1	140.7	142.0	141.5	142.0	140.7	142.1	112.3	142.1
95.0	137.4	141.6	139.0	136.7	133.8	136.7	139.0	141.6	137.4	141.6
97.5	154.2	140.6	136.5	133.7	130.0	133.7	136.5	140.6	154.2	140.6
100.0	171.7	140.8	134.0	131.4	127.0	131.4	134.0	140.8	171.7	140.8
102.5	190.8	144.2	132.4	128.1	124.3	128.1	132.4	144.2	190.8	144.2
105.0	211.3	151.2	131.7	126.2	121.7	126.2	131.7	151.2	211.3	151.2
107.5	231.4	159.0	132.2	125.5	119.8	125.5	132.2	159.0	231.4	159.0
110.0	251.1	169.4	134.3	126.0	120.6	126.0	134.3	169.4	251.1	169.4
112.5	270.0	177.9	139.0	128.1	122.7	128.1	139.0	177.9	270.0	177.9
115.0	287.3	188.5	147.1	131.0	125.8	131.0	147.1	188.5	287.3	188.5
117.5	302.5	198.3	154.9	136.0	129.9	136.0	154.9	198.3	302.5	198.3
120.0	316.3	211.5	162.6	143.6	134.8	143.6	162.6	211.5	316.3	211.5
122.5	330.1	225.5	172.0	151.5	142.3	151.5	172.0	225.5	330.1	225.5
125.0	342.1	239.8	181.9	158.3	148.8	158.3	181.9	239.8	342.1	239.8
127.5	352.0	253.5	190.1	164.3	154.1	164.3	190.1	253.5	352.0	253.5
130.0	360.1	267.2	199.4	172.7	160.1	172.7	199.4	267.2	360.1	267.2
132.5	365.9	282.4	209.2	181.2	169.7	181.2	209.2	282.4	365.9	282.4

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CANDELA TABULATION - (Cont.)

135.0	369.2	297.0	218.8	188.4	177.7	188.4	218.8	297.0	369.2	297.0
137.5	368.5	312.2	229.2	196.4	185.3	196.4	229.2	312.2	368.5	312.2
140.0	367.1	326.9	238.3	205.0	193.2	205.0	238.3	326.9	367.1	326.9
142.5	365.5	338.0	246.7	214.5	202.8	214.5	246.7	338.0	365.5	338.0
145.0	362.1	347.2	254.4	225.2	213.6	225.2	254.4	347.2	362.1	347.2
147.5	356.5	353.6	262.6	233.0	224.4	233.0	262.6	353.6	356.5	353.6
150.0	349.6	355.2	271.9	239.3	230.9	239.3	271.9	355.2	349.6	355.2
152.5	341.8	352.5	282.8	245.9	236.8	245.9	282.8	352.5	341.8	352.5
155.0	334.6	346.8	296.4	253.4	244.2	253.4	296.4	346.8	334.6	346.8
157.5	327.3	339.6	311.2	261.5	250.9	261.5	311.2	339.6	327.3	339.6
160.0	319.9	331.7	324.0	272.4	260.3	272.4	324.0	331.7	319.9	331.7
162.5	312.1	321.8	326.5	295.2	276.7	295.2	326.5	321.8	312.1	321.8
165.0	302.1	310.2	318.2	308.9	299.2	308.9	318.2	310.2	302.1	310.2
167.5	293.1	299.0	305.1	304.5	301.6	304.5	305.1	299.0	293.1	299.0
170.0	283.4	287.6	292.9	291.5	288.5	291.5	292.9	287.6	283.4	287.6
172.5	276.6	279.6	281.8	280.3	274.7	280.3	281.8	279.6	276.6	279.6
175.0	272.5	273.0	272.3	270.3	265.7	270.3	272.3	273.0	272.5	273.0
177.5	269.8	268.9	265.8	262.3	260.6	262.3	265.8	268.9	269.8	268.9
180.0	263.2	263.2	263.2	263.2	263.2	263.2	263.2	263.2	263.2	263.2

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	10275.3	10275.3	10275.3	10275.3	10275.3	10275.3	10275.3
2.5	10263.4	10310.5	10317.4	10310.5	10263.4	10222.2	10222.2
5.0	10239.9	10281.5	10268.5	10281.5	10239.9	10180.0	10177.4
7.5	10176.5	10185.8	10191.8	10185.8	10176.5	10117.0	10105.4
10.0	10030.0	10037.0	10017.2	10037.0	10030.0	10032.3	10004.2
12.5	9865.5	9839.7	9822.4	9839.7	9865.5	9914.8	9871.4
15.0	9676.3	9639.3	9630.0	9639.3	9676.3	9742.3	9709.8
17.5	9441.8	9413.9	9397.0	9413.9	9441.8	9519.0	9520.6
20.0	9197.3	9164.9	9137.7	9164.9	9197.3	9275.0	9301.7
22.5	8933.0	8886.2	8859.4	8886.2	8933.0	9017.6	9058.5
25.0	8642.1	8586.6	8559.6	8586.6	8642.1	8746.7	8796.2
27.5	8338.6	8281.5	8243.8	8281.5	8338.6	8443.9	8513.0
30.0	8013.6	7958.3	7931.5	7958.3	8013.6	8119.0	8197.4
32.5	7682.6	7630.5	7601.1	7630.5	7682.6	7776.9	7866.9
35.0	7340.2	7295.6	7297.4	7295.6	7340.2	7423.1	7520.5
37.5	6980.9	6977.4	7165.7	6977.4	6980.9	7062.7	7164.6
40.0	6617.8	6858.0	7041.1	6858.0	6617.8	6693.7	6796.0
42.5	6252.6	6717.2	6832.2	6717.2	6252.6	6312.5	6413.1
45.0	5900.1	6491.6	6619.6	6491.6	5900.1	5933.1	6024.0
47.5	5684.4	6240.3	6111.0	6240.3	5684.4	5535.3	5621.2
50.0	5516.9	5695.4	5297.4	5695.4	5516.9	5151.6	5233.7
52.5	5273.8	4887.9	4773.0	4887.9	5273.8	4770.0	4867.5
55.0	4979.4	4409.7	4403.4	4409.7	4979.4	4404.3	4497.9
57.5	4472.8	4052.7	4048.8	4052.7	4472.8	4045.8	4088.4
60.0	3744.6	3699.0	3698.2	3699.0	3744.6	3656.3	3719.8
62.5	3317.6	3343.1	3349.9	3343.1	3317.6	3316.3	3328.6
65.0	2972.2	2988.0	2997.1	2988.0	2972.2	3050.9	2964.0
67.5	2617.4	2642.7	2674.5	2642.7	2617.4	2847.4	2587.1
70.0	2280.3	2312.7	2290.2	2312.7	2280.3	2547.0	2237.6
72.5	1943.2	1939.1	1932.9	1939.1	1943.2	2020.4	1895.8
75.0	1620.6	1595.1	1591.9	1595.1	1620.6	1586.6	1554.4
77.5	1278.6	1267.7	1268.5	1267.7	1278.6	1266.6	1224.3
80.0	966.0	956.7	959.6	956.7	966.0	970.1	911.5

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CANDELA TABULATION - (Cont.)

82.5	678.2	682.1	694.7	682.1	678.2	690.0	618.9
85.0	409.6	428.5	440.8	428.5	409.6	398.6	352.0
87.5	244.5	259.3	263.6	259.3	244.5	210.7	162.0
90.0	156.0	166.1	164.3	166.1	156.0	139.3	67.2
92.5	140.7	142.0	141.5	142.0	140.7	142.1	112.3
95.0	139.0	136.7	133.8	136.7	139.0	141.6	137.4
97.5	136.5	133.7	130.0	133.7	136.5	140.6	154.2
100.0	134.0	131.4	127.0	131.4	134.0	140.8	171.7
102.5	132.4	128.1	124.3	128.1	132.4	144.2	190.8
105.0	131.7	126.2	121.7	126.2	131.7	151.2	211.3
107.5	132.2	125.5	119.8	125.5	132.2	159.0	231.4
110.0	134.3	126.0	120.6	126.0	134.3	169.4	251.1
112.5	139.0	128.1	122.7	128.1	139.0	177.9	270.0
115.0	147.1	131.0	125.8	131.0	147.1	188.5	287.3
117.5	154.9	136.0	129.9	136.0	154.9	198.3	302.5
120.0	162.6	143.6	134.8	143.6	162.6	211.5	316.3
122.5	172.0	151.5	142.3	151.5	172.0	225.5	330.1
125.0	181.9	158.3	148.8	158.3	181.9	239.8	342.1
127.5	190.1	164.3	154.1	164.3	190.1	253.5	352.0
130.0	199.4	172.7	160.1	172.7	199.4	267.2	360.1
132.5	209.2	181.2	169.7	181.2	209.2	282.4	365.9
135.0	218.8	188.4	177.7	188.4	218.8	297.0	369.2
137.5	229.2	196.4	185.3	196.4	229.2	312.2	368.5
140.0	238.3	205.0	193.2	205.0	238.3	326.9	367.1
142.5	246.7	214.5	202.8	214.5	246.7	338.0	365.5
145.0	254.4	225.2	213.6	225.2	254.4	347.2	362.1
147.5	262.6	233.0	224.4	233.0	262.6	353.6	356.5
150.0	271.9	239.3	230.9	239.3	271.9	355.2	349.6
152.5	282.8	245.9	236.8	245.9	282.8	352.5	341.8
155.0	296.4	253.4	244.2	253.4	296.4	346.8	334.6
157.5	311.2	261.5	250.9	261.5	311.2	339.6	327.3
160.0	324.0	272.4	260.3	272.4	324.0	331.7	319.9
162.5	326.5	295.2	276.7	295.2	326.5	321.8	312.1
165.0	318.2	308.9	299.2	308.9	318.2	310.2	302.1
167.5	305.1	304.5	301.6	304.5	305.1	299.0	293.1
170.0	292.9	291.5	288.5	291.5	292.9	287.6	283.4
172.5	281.8	280.3	274.7	280.3	281.8	279.6	276.6
175.0	272.3	270.3	265.7	270.3	272.3	273.0	272.5
177.5	265.8	262.3	260.6	262.3	265.8	268.9	269.8
180.0	263.2	263.2	263.2	263.2	263.2	263.2	263.2

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3695.95	N.A.	13.40
0-30	7683.74	N.A.	27.90
0-40	12304.86	N.A.	44.60
0-60	21116.76	N.A.	76.60
0-80	25800.69	N.A.	93.60
0-90	26308.96	N.A.	95.40
10-90	25338.69	N.A.	91.90
20-40	8608.91	N.A.	31.20
20-50	13349.74	N.A.	48.40
40-70	11790.84	N.A.	42.80
60-80	4683.93	N.A.	17.00
70-80	1704.99	N.A.	6.20
80-90	508.27	N.A.	1.80
90-110	304.70	N.A.	1.10
90-120	471.96	N.A.	1.70
90-130	656.28	N.A.	2.40
90-150	1019.07	N.A.	3.70
90-180	1269.11	N.A.	4.60
110-180	964.40	N.A.	3.50
0-180	27578.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	970.27
10-20	2725.68
20-30	3987.79
30-40	4621.11
40-50	4740.83
50-60	4071.07
60-70	2978.93
70-80	1704.99
80-90	508.27
90-100	151.65
100-110	153.05
110-120	167.26
120-130	184.31
130-140	188.75
140-150	174.04
150-160	137.07
160-170	86.50
170-180	26.47

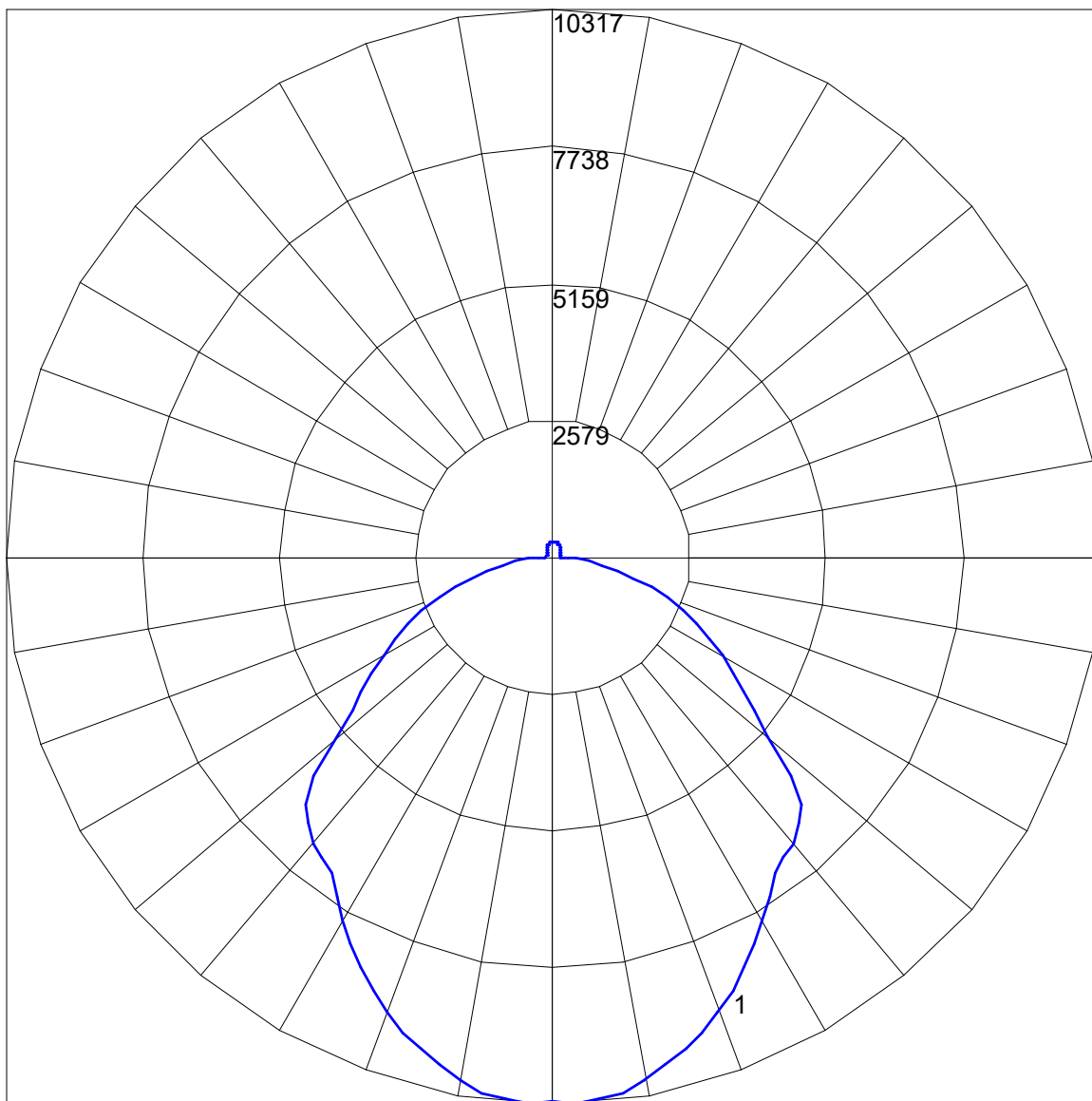
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	109	109	103	103	103	98	98	98	95
1	108	103	99	95	105	101	97	93	95	92	89	91	88	86	86	84	83	80
2	98	90	84	78	95	88	82	77	84	79	74	80	76	72	76	73	70	67
3	90	79	71	65	87	78	70	64	74	68	63	71	65	61	67	63	59	57
4	82	71	62	55	80	69	61	55	66	59	54	63	57	52	60	55	51	49
5	76	63	54	48	73	62	54	47	59	52	46	57	50	46	54	49	45	42
6	70	57	48	42	68	56	48	42	54	46	41	51	45	40	49	44	39	37
7	65	52	43	37	63	51	43	37	49	41	36	47	40	36	45	39	35	33
8	61	47	39	33	59	46	38	33	45	38	32	43	37	32	42	36	32	30
9	57	43	35	30	55	43	35	30	41	34	29	40	33	29	38	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 10317.4 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)