

## Photometric test report

**Family**  
**DL® 50 mini LED**

**Order number: 5XA248U31F08GE**  
**EAN: 4058352803783**

**LP number**  
**59408\_8**



**Version** wire mounting  
**Optic** direct, symmetric wide distribution  
 P100013  
**Cover** toughened safety glass  
**Lamps** LED 3000 K | CRI ≥ 70  
**Controlgear** ECG SITECO iQ  
**Rated values** Net luminous flux = 5030 lm  
 Power consumption = 32.7 W  
 Luminous efficacy = 153.8 lm/W

**serial**  
**documentation**  
03.04.2023

**siteco**

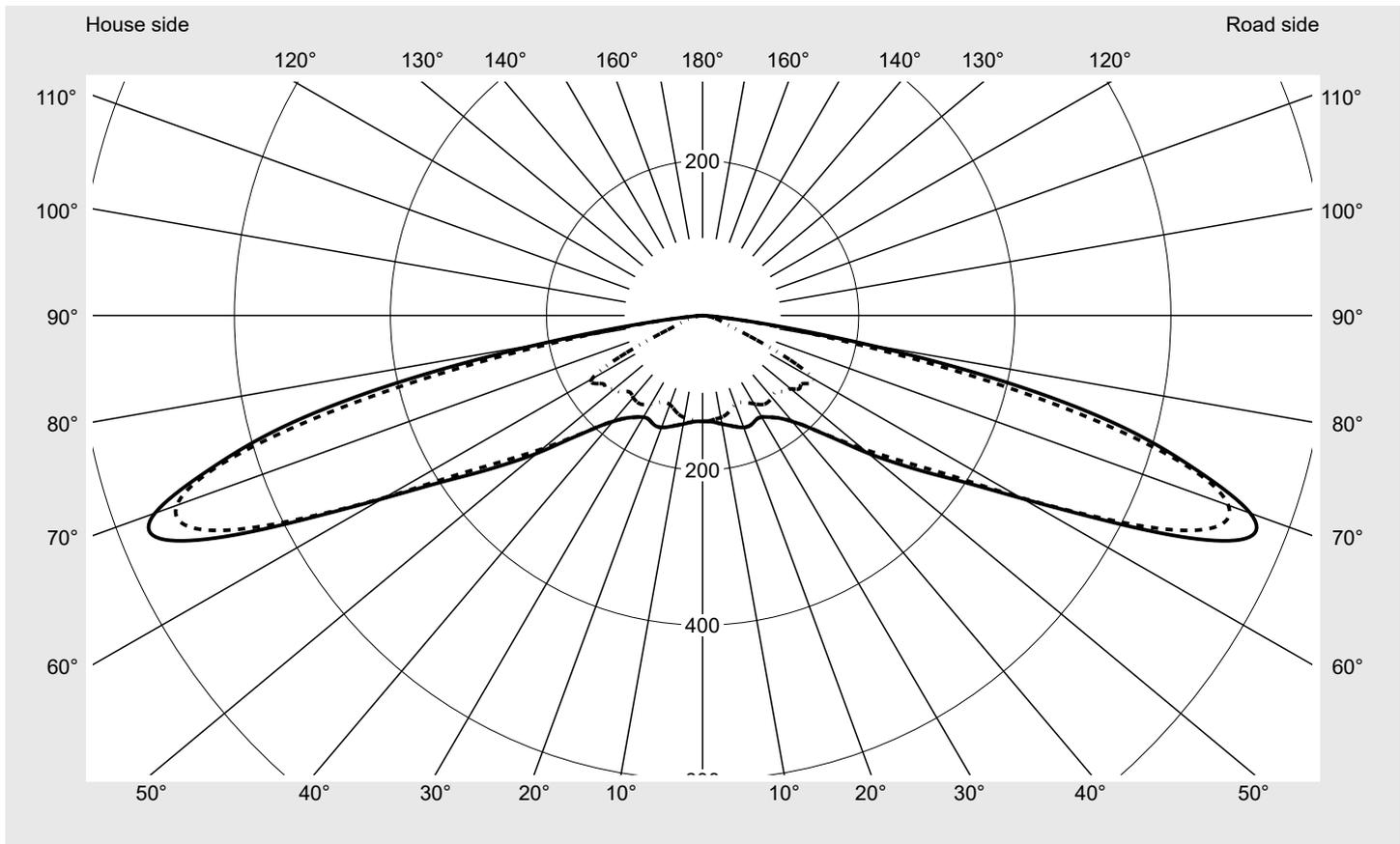
**Luminous intensity in cd/klm**

**C180-0**

**C185-5**

**C270-90**

**Imax: 753 cd/klm**



### Luminaire output ratios

Eta	100.0%
Eta 0° - 90°	100.0%
Eta 90° - 180°	0.0%

### Luminous intensity class acc. to EN13201-2

Class:	---
Imax 70°	746.8
Imax 80°	208.9
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

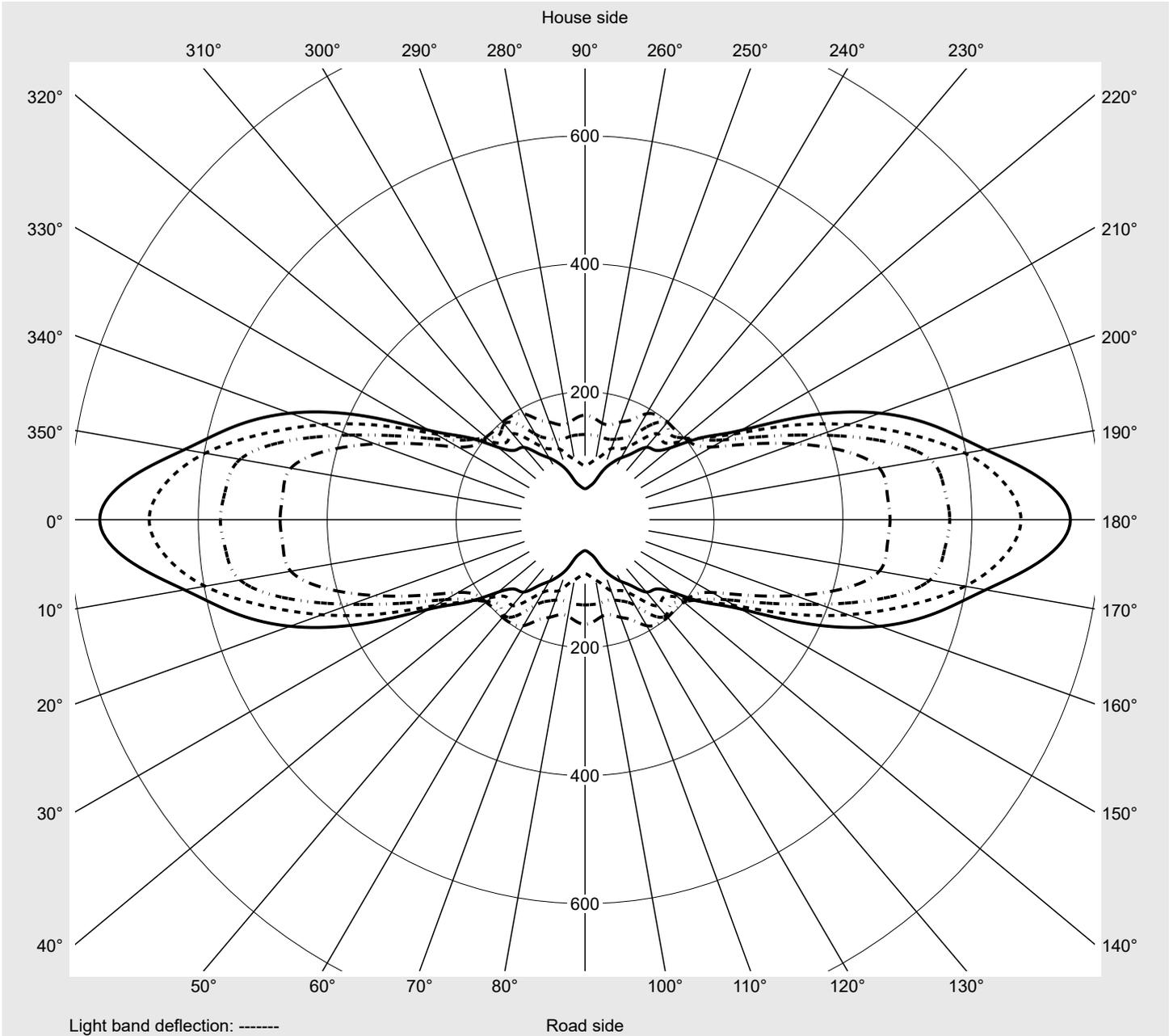
### Measurement conditions

DIN EN 13032 and DIN 5032

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**Envelope curve in cd/klm**      **KMK 67.5°**    **KMK 65°**    **KMK 62.5°**    **KMK 60°**      **siteco**



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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
<b>siteco</b>		

C-planes	0° 180°	5° 175°	10° 170°	15° 165°	20° 160°	25° 155°	30° 150°	35° 145°	40° 140°	45° 135°	50° 130°	55° 125°	60° 120°
γ	Luminous intensity in cd/klm												
0,0°	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7
2,5°	136.8	136.8	136.7	136.6	136.6	136.5	136.4	136.4	136.3	136.2	136.2	136.3	136.3
5,0°	137.8	137.8	137.7	137.6	137.3	137.1	136.9	136.7	136.4	136.2	135.9	135.8	135.6
7,5°	139.8	139.7	139.6	139.3	139.0	138.6	138.1	137.6	137.1	136.6	136.0	135.5	135.2
10,0°	142.4	142.3	142.1	141.8	141.3	140.7	139.9	139.0	138.2	137.4	136.6	136.0	135.4
12,5°	145.0	144.9	144.9	144.6	144.0	143.1	142.0	141.0	139.9	138.9	138.0	137.1	136.1
15,0°	147.9	147.9	147.8	147.6	146.9	146.0	144.6	143.3	142.1	140.9	139.4	137.7	135.9
17,5°	151.1	151.0	150.9	150.5	149.7	148.4	147.0	145.5	143.9	142.0	139.6	137.1	134.6
20,0°	153.9	153.6	153.3	152.8	151.8	150.3	148.7	146.9	144.7	141.8	138.5	135.3	132.3
22,5°	154.9	154.6	154.4	154.3	153.5	152.2	150.3	147.8	144.4	140.3	136.3	132.9	130.5
25,0°	153.2	153.0	153.3	153.8	153.7	153.0	151.3	147.9	143.1	138.2	134.4	131.7	130.3
27,5°	150.8	150.7	151.1	151.8	151.9	151.6	150.1	146.1	140.7	136.2	133.2	132.2	132.1
30,0°	151.7	151.5	151.4	151.1	150.4	149.4	147.3	143.0	138.4	135.0	133.8	134.3	135.6
32,5°	155.7	155.7	155.3	154.4	152.0	148.1	143.0	138.4	136.1	135.3	136.3	137.9	140.3
35,0°	160.9	160.9	160.7	159.5	155.8	149.7	140.0	133.8	133.8	137.4	139.2	141.3	144.9
37,5°	168.2	168.0	167.3	165.4	160.6	151.5	140.6	131.7	131.8	138.4	141.2	144.2	149.6
40,0°	178.8	178.4	176.5	172.6	165.3	153.2	141.8	134.1	131.7	137.9	143.1	148.7	156.3
42,5°	193.1	193.0	188.8	181.4	170.7	154.1	143.3	138.2	135.9	137.4	146.9	154.7	163.5
45,0°	213.9	213.4	205.4	192.1	177.7	155.5	144.3	144.0	143.2	139.2	152.2	161.7	169.7
47,5°	241.1	237.9	224.7	205.5	187.2	159.3	145.5	150.9	152.4	145.3	158.6	169.0	175.9
50,0°	276.9	267.9	247.1	223.7	201.1	168.9	152.2	159.3	164.0	157.3	167.0	178.6	187.4
52,5°	313.8	300.5	274.3	247.8	221.9	186.7	165.3	170.4	176.2	170.3	178.6	191.6	197.3
55,0°	355.0	340.0	314.4	286.3	255.4	215.9	184.7	182.7	185.2	183.5	192.5	197.2	196.6
57,5°	403.4	392.8	375.5	343.0	299.2	249.2	205.7	192.3	192.0	196.7	199.6	198.7	202.6
60,0°	473.2	470.5	463.5	415.6	346.6	279.7	227.5	205.4	200.5	198.0	199.1	198.2	191.3
62,5°	565.9	559.4	543.4	476.4	386.6	308.0	249.7	218.0	199.0	187.9	195.1	182.4	154.4
65,0°	676.3	653.1	598.5	518.1	434.1	347.8	268.1	223.4	188.7	171.7	175.2	152.9	130.9
67,5°	753.0	712.8	631.1	563.3	486.9	386.3	279.4	224.9	176.1	153.6	147.5	126.2	111.4
70,0°	746.8	716.8	643.1	602.3	527.7	416.1	299.5	231.4	170.1	135.7	115.8	98.1	78.1
72,5°	663.4	654.5	602.9	602.5	529.4	421.8	300.0	218.8	160.0	108.4	80.4	61.7	43.7
75,0°	557.3	517.0	414.7	459.4	449.9	351.7	221.8	153.2	107.1	74.1	51.1	37.0	31.2
77,5°	399.1	337.2	222.8	267.3	286.2	197.9	122.6	63.7	46.9	45.7	30.4	24.9	22.1
80,0°	208.9	164.5	127.8	153.2	128.9	103.8	58.2	34.7	29.8	29.5	19.5	16.7	15.1
82,5°	73.2	65.9	118.9	92.4	55.6	49.1	31.4	20.2	16.8	15.8	11.1	9.9	9.4
85,0°	14.5	14.8	46.8	36.5	20.1	16.0	11.0	8.4	7.2	6.4	5.7	5.2	4.7
87,5°	3.5	3.6	4.4	4.0	3.6	3.8	3.3	2.8	2.6	2.3	2.1	1.9	1.7
90,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
<b>siteco</b>		

C-planes	65° 115°	70° 110°	75° 105°	80° 100°	85° 95°	90°	185° 355°	190° 350°	195° 345°	200° 340°	205° 335°	210° 330°	215° 325°
γ	Luminous intensity in cd/klm												
0,0°	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7
2,5°	136.4	136.6	136.6	136.8	137.0	137.0	136.8	136.7	136.6	136.6	136.5	136.4	136.4
5,0°	135.5	135.5	135.5	135.5	135.6	135.7	137.8	137.7	137.6	137.3	137.1	136.9	136.7
7,5°	134.9	134.6	134.5	134.5	134.6	134.6	139.7	139.6	139.3	139.0	138.6	138.1	137.6
10,0°	134.9	134.5	134.1	134.0	133.9	133.9	142.3	142.1	141.8	141.3	140.7	139.9	139.0
12,5°	135.0	134.0	133.2	132.6	132.3	132.3	144.9	144.9	144.6	144.0	143.1	142.0	141.0
15,0°	134.2	132.6	131.1	130.0	129.3	129.2	147.9	147.8	147.6	146.9	146.0	144.6	143.3
17,5°	132.1	130.1	128.2	126.6	125.7	125.4	151.0	150.9	150.5	149.7	148.4	147.0	145.5
20,0°	129.8	127.7	125.7	123.9	122.9	122.5	153.6	153.3	152.8	151.8	150.3	148.7	146.9
22,5°	128.5	126.9	125.2	123.6	122.4	122.0	154.6	154.4	154.3	153.5	152.2	150.3	147.8
25,0°	129.5	128.5	127.2	125.7	124.1	123.5	153.0	153.3	153.8	153.7	153.0	151.3	147.9
27,5°	132.5	132.6	131.6	130.0	128.3	127.1	150.7	151.1	151.8	151.9	151.6	150.1	146.1
30,0°	137.3	138.4	138.3	136.6	133.4	131.8	151.5	151.4	151.1	150.4	149.4	147.3	143.0
32,5°	143.4	145.6	146.3	143.6	139.0	136.5	155.7	155.3	154.4	152.0	148.1	143.0	138.4
35,0°	148.9	152.9	154.5	150.6	143.4	139.5	160.9	160.7	159.5	155.8	149.7	140.0	133.8
37,5°	156.8	161.5	161.6	155.8	145.5	139.7	168.0	167.3	165.4	160.6	151.5	140.6	131.7
40,0°	165.1	168.1	166.4	159.2	146.0	138.5	178.4	176.5	172.6	165.3	153.2	141.8	134.1
42,5°	170.9	172.7	169.1	161.0	145.4	136.2	193.0	188.8	181.4	170.7	154.1	143.3	138.2
45,0°	175.3	175.6	171.1	162.7	149.0	138.6	213.4	205.4	192.1	177.7	155.5	144.3	144.0
47,5°	182.5	182.8	179.7	171.0	155.6	145.3	237.9	224.7	205.5	187.2	159.3	145.5	150.9
50,0°	195.3	196.8	187.5	176.2	157.2	147.7	267.9	247.1	223.7	201.1	168.9	152.2	159.3
52,5°	198.7	196.7	193.4	184.1	166.9	155.8	300.5	274.3	247.8	221.9	186.7	165.3	170.4
55,0°	201.8	207.3	195.9	181.0	167.6	154.6	340.0	314.4	286.3	255.4	215.9	184.7	182.7
57,5°	210.6	192.3	182.1	174.1	170.4	163.5	392.8	375.5	343.0	299.2	249.2	205.7	192.3
60,0°	172.8	162.5	153.8	153.1	159.5	163.4	470.5	463.5	415.6	346.6	279.7	227.5	205.4
62,5°	140.6	133.7	130.8	132.3	133.0	133.1	559.4	543.4	476.4	386.6	308.0	249.7	218.0
65,0°	122.2	118.1	104.8	95.8	88.7	84.4	653.1	598.5	518.1	434.1	347.8	268.1	223.4
67,5°	97.6	82.0	63.7	55.0	50.4	48.4	712.8	631.1	563.3	486.9	386.3	279.4	224.9
70,0°	58.2	46.7	41.0	35.5	33.7	33.2	716.8	643.1	602.3	527.7	416.1	299.5	231.4
72,5°	35.6	32.9	31.0	27.8	26.5	26.2	654.5	602.9	602.5	529.4	421.8	300.0	218.8
75,0°	28.3	26.0	24.7	23.1	21.3	21.0	517.0	414.7	459.4	449.9	351.7	221.8	153.2
77,5°	20.7	19.1	18.1	16.9	16.0	15.9	337.2	222.8	267.3	286.2	197.9	122.6	63.7
80,0°	14.6	13.3	12.5	11.4	11.1	11.0	164.5	127.8	153.2	128.9	103.8	58.2	34.7
82,5°	8.9	7.7	7.0	6.3	6.1	6.1	65.9	118.9	92.4	55.6	49.1	31.4	20.2
85,0°	4.3	3.9	3.5	3.2	3.0	2.9	14.8	46.8	36.5	20.1	16.0	11.0	8.4
87,5°	1.6	1.5	1.4	1.3	1.2	1.2	3.6	4.4	4.0	3.6	3.8	3.3	2.8
90,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes	220° 320°	225° 315°	230° 310°	235° 305°	240° 300°	245° 295°	250° 290°	255° 285°	260° 280°	265° 275°	270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm											Luminous flux in lm/klm	
0,0°	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	0.2	0.2
2,5°	136.3	136.2	136.2	136.3	136.3	136.4	136.6	136.6	136.8	137.0	137.0	1.6	1.8
5,0°	136.4	136.2	135.9	135.8	135.6	135.5	135.5	135.5	135.5	135.6	135.7	3.3	5.1
7,5°	137.1	136.6	136.0	135.5	135.2	134.9	134.6	134.5	134.5	134.6	134.6	4.9	10.0
10,0°	138.2	137.4	136.6	136.0	135.4	134.9	134.5	134.1	134.0	133.9	133.9	6.6	16.6
12,5°	139.9	138.9	138.0	137.1	136.1	135.0	134.0	133.2	132.6	132.3	132.3	8.2	24.8
15,0°	142.1	140.9	139.4	137.7	135.9	134.2	132.6	131.1	130.0	129.3	129.2	9.9	34.7
17,5°	143.9	142.0	139.6	137.1	134.6	132.1	130.1	128.2	126.6	125.7	125.4	11.5	46.3
20,0°	144.7	141.8	138.5	135.3	132.3	129.8	127.7	125.7	123.9	122.9	122.5	13.1	59.4
22,5°	144.4	140.3	136.3	132.9	130.5	128.5	126.9	125.2	123.6	122.4	122.0	14.7	74.0
25,0°	143.1	138.2	134.4	131.7	130.3	129.5	128.5	127.2	125.7	124.1	123.5	16.2	90.2
27,5°	140.7	136.2	133.2	132.2	132.1	132.5	132.6	131.6	130.0	128.3	127.1	17.7	108.0
30,0°	138.4	135.0	133.8	134.3	135.6	137.3	138.4	138.3	136.6	133.4	131.8	19.4	127.4
32,5°	136.1	135.3	136.3	137.9	140.3	143.4	145.6	146.3	143.6	139.0	136.5	21.3	148.6
35,0°	133.8	137.4	139.2	141.3	144.9	148.9	152.9	154.5	150.6	143.4	139.5	23.2	171.8
37,5°	131.8	138.4	141.2	144.2	149.6	156.8	161.5	161.6	155.8	145.5	139.7	25.3	197.1
40,0°	131.7	137.9	143.1	148.7	156.3	165.1	168.1	166.4	159.2	146.0	138.5	27.4	224.5
42,5°	135.9	137.4	146.9	154.7	163.5	170.9	172.7	169.1	161.0	145.4	136.2	29.8	254.3
45,0°	143.2	139.2	152.2	161.7	169.7	175.3	175.6	171.1	162.7	149.0	138.6	32.4	286.7
47,5°	152.4	145.3	158.6	169.0	175.9	182.5	182.8	179.7	171.0	155.6	145.3	35.7	322.4
50,0°	164.0	157.3	167.0	178.6	187.4	195.3	196.8	187.5	176.2	157.2	147.7	39.7	362.0
52,5°	176.2	170.3	178.6	191.6	197.3	198.7	196.7	193.4	184.1	166.9	155.8	44.2	406.2
55,0°	185.2	183.5	192.5	197.2	196.6	201.8	207.3	195.9	181.0	167.6	154.6	49.2	455.4
57,5°	192.0	196.7	199.6	198.7	202.6	210.6	192.3	182.1	174.1	170.4	163.5	54.7	510.1
60,0°	200.5	198.0	199.1	198.2	191.3	172.8	162.5	153.8	153.1	159.5	163.4	59.6	569.7
62,5°	199.0	187.9	195.1	182.4	154.4	140.6	133.7	130.8	132.3	133.0	133.1	63.2	632.9
65,0°	188.7	171.7	175.2	152.9	130.9	122.2	118.1	104.8	95.8	88.7	84.4	65.9	698.8
67,5°	176.1	153.6	147.5	126.2	111.4	97.6	82.0	63.7	55.0	50.4	48.4	66.8	765.6
70,0°	170.1	135.7	115.8	98.1	78.1	58.2	46.7	41.0	35.5	33.7	33.2	66.4	832.0
72,5°	160.0	108.4	80.4	61.7	43.7	35.6	32.9	31.0	27.8	26.5	26.2	62.2	894.2
75,0°	107.1	74.1	51.1	37.0	31.2	28.3	26.0	24.7	23.1	21.3	21.0	48.3	942.4
77,5°	46.9	45.7	30.4	24.9	22.1	20.7	19.1	18.1	16.9	16.0	15.9	29.2	971.7
80,0°	29.8	29.5	19.5	16.7	15.1	14.6	13.3	12.5	11.4	11.1	11.0	15.8	987.5
82,5°	16.8	15.8	11.1	9.9	9.4	8.9	7.7	7.0	6.3	6.1	6.1	8.6	996.1
85,0°	7.2	6.4	5.7	5.2	4.7	4.3	3.9	3.5	3.2	3.0	2.9	3.2	999.3
87,5°	2.6	2.3	2.1	1.9	1.7	1.6	1.5	1.4	1.3	1.2	1.2	0.7	1000.0
90,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

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<b>Family</b> DL® 50 mini LED	<b>Order number: 5XA248U31F08GE</b> <b>EAN: 4058352803783</b>	<b>LP number</b> 59408_8
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<b>Dimming levels table</b>	environmental temperature: 25°C	<b>siteco</b>
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Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]start of lifetime	Power consumption [W]end of lifetime	Power consumption [W]average
100	254	254	5030	32.7	33.7	33.2
95	241	252	4773	30.8	31.7	31.2
90	229	250	4535	29.1	30.0	29.6
85	216	248	4277	27.3	28.1	27.7
80	203	246	4020	25.5	26.3	25.9
75	190	243	3763	23.7	24.3	24.0
70	178	241	3525	22.1	22.8	22.5
65	165	238	3268	20.4	21.0	20.7
60	152	235	3010	18.8	19.3	19.0
55	140	232	2772	17.2	17.7	17.4
50	127	229	2515	15.7	16.1	15.9
45	114	225	2258	14.1	14.5	14.3
40	102	221	2020	12.7	13.0	12.8
35	89	216	1762	11.2	11.5	11.4
30	76	210	1505	9.7	9.9	9.8
25	63	203	1248	8.2	8.4	8.3
20	51	195	1010	7.0	7.1	7.0
15	38	184	753	5.6	5.7	5.6
11	28	173	554	4.5	4.6	4.6