

## Photometric test report

Family  
DL® 50 mini LED

Order number: 5XA248U41F08GE  
EAN: 4058352803813

LP number  
59408\_9



**Version** wire mounting  
**Optic** symmetric, extremely wide distribution (P1.0s)  
**Cover** toughened safety glass  
**Lamps** LED 4000 K | CRI ≥ 70  
**Controlgear** ECG SITECO iQ  
**Rated values** Net luminous flux = 5030 lm  
Power consumption = 31.2 W  
Luminous efficacy = 161.2 lm/W

serial  
documentation  
03.04.2023

siteco

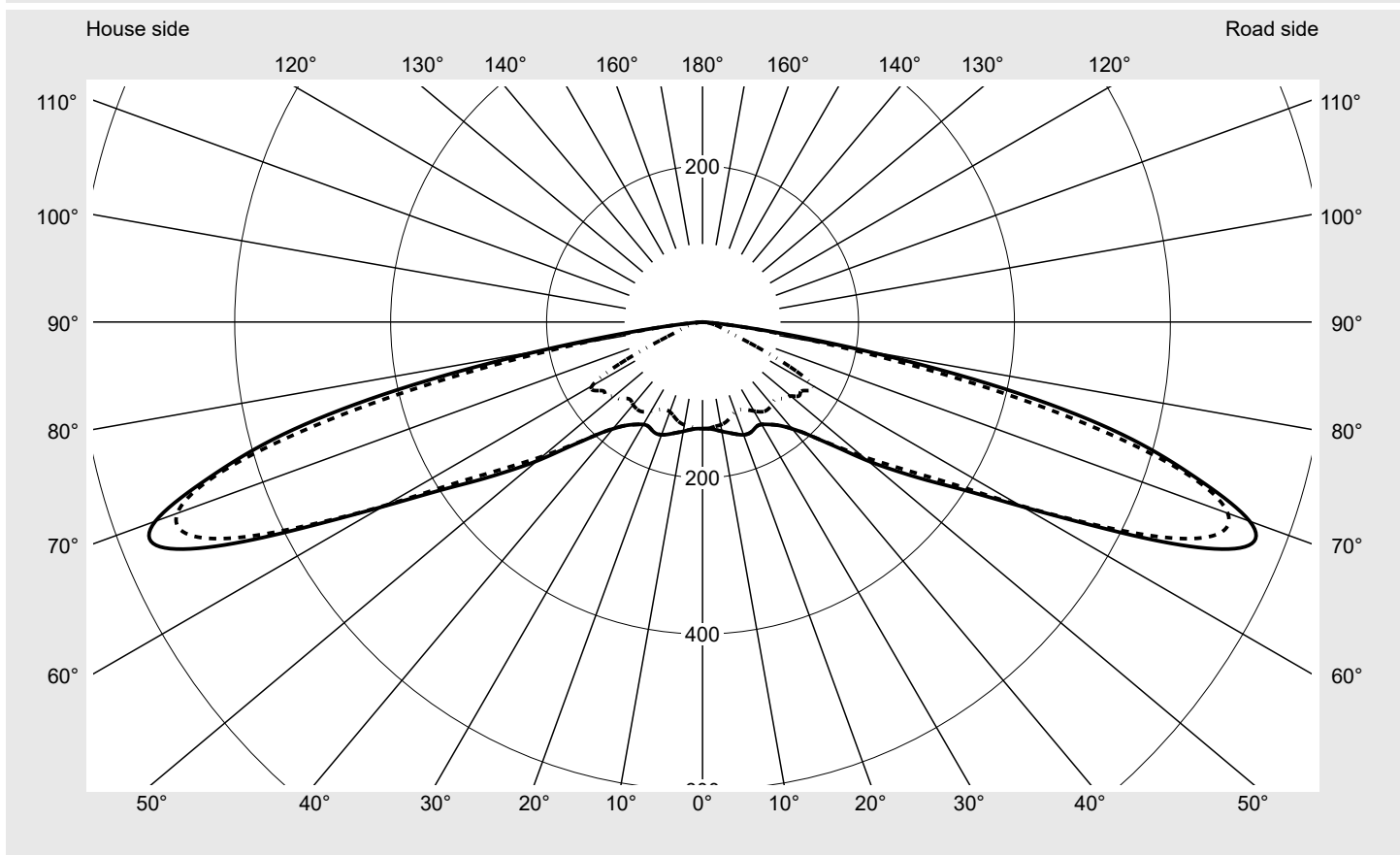
Luminous intensity in cd/klm

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

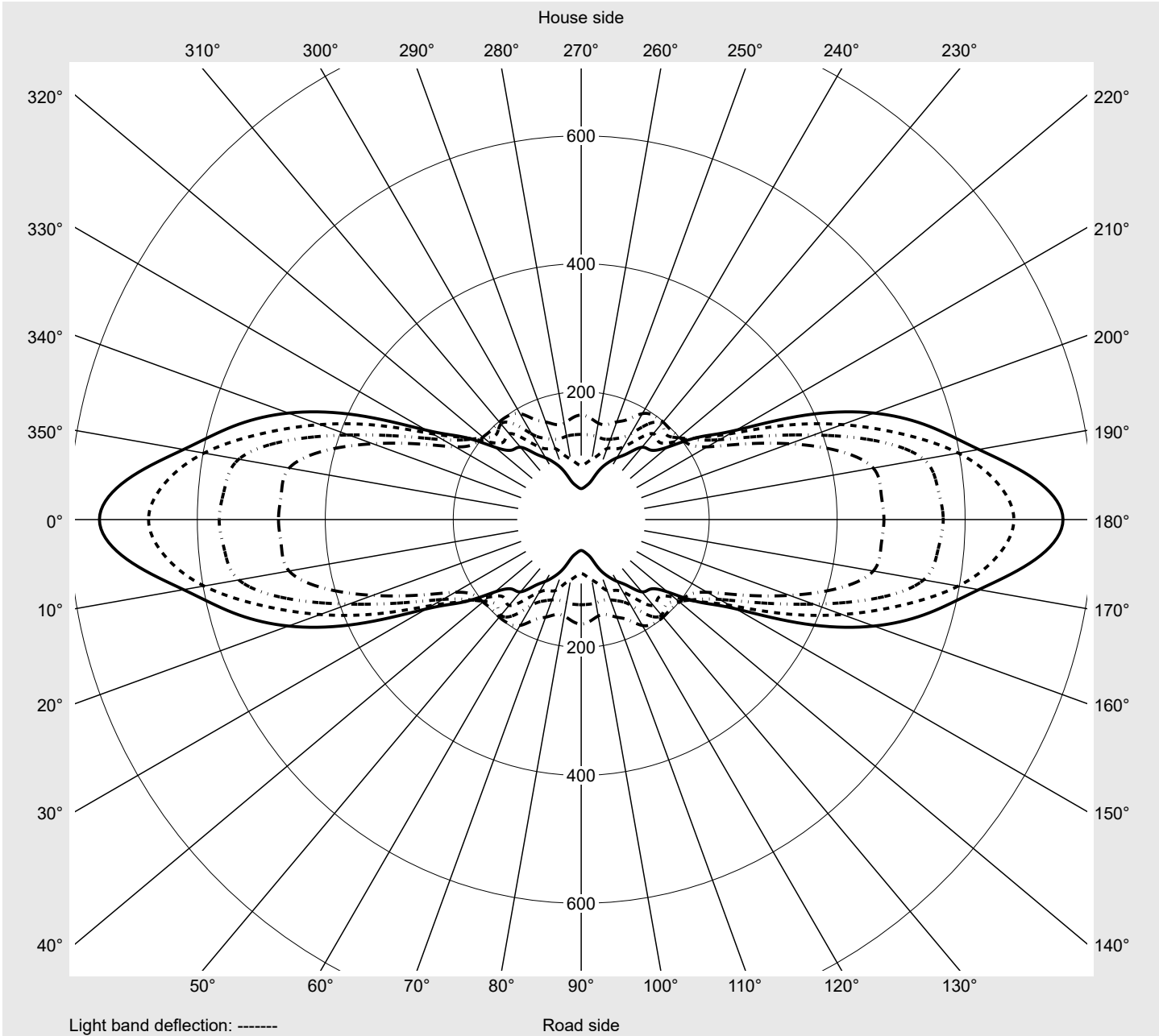
#### Measurement conditions

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

## Photometric test report

<b>Family</b> DL® 50 mini LED	<b>Order number: 5XA248U41F08GE</b> <b>EAN: 4058352803813</b>	<b>LP number</b> 59408_9
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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]	Power consumption [W]	Power consumption [W]
				start of lifetime	end of lifetime	average
100	254	254	5030	31.2	32.2	31.7
95	241	252	4773	29.5	30.4	30.0
90	229	250	4535	27.9	28.7	28.3
85	216	248	4277	26.1	26.9	26.5
80	203	246	4020	24.3	25.2	24.8
75	190	243	3763	22.7	23.4	23.0
70	178	241	3525	21.2	21.9	21.5
65	165	238	3268	19.6	20.2	19.9
60	152	235	3010	18.0	18.6	18.3
55	140	232	2772	16.6	17.0	16.8
50	127	229	2515	15.1	15.5	15.3
45	114	225	2258	13.6	14.0	13.8
40	102	221	2020	12.2	12.6	12.4
35	89	216	1762	10.8	11.1	11.0
30	76	210	1505	9.3	9.6	9.4
25	63	203	1248	7.9	8.1	8.0
20	51	195	1010	6.8	6.9	6.8
15	38	184	753	5.5	5.6	5.6
11	29	175	574	4.5	4.6	4.6