

## Photometric test report

**Family**  
**DL® 50 mini LED**

**Order number: 5XA248A31F08FE**  
**EAN: 4058352802038**

**LP number**  
**59405\_63**



**Version** post-top or side-entry mounting  
**Optic** asymmetric, extremely wide distribution (P1.0a)  
**Cover** toughened safety glass  
**Lamps** LED 3000 K | CRI ≥ 70  
**Controlgear** ECG SITECO iQ  
**Rated values** Net luminous flux = 2610 lm  
 Power consumption = 16.3 W  
 Luminous efficacy = 160.1 lm/W

**serial**  
**documentation**  
**16.05.2023**

**siteco**

**Luminous intensity in cd/klm**

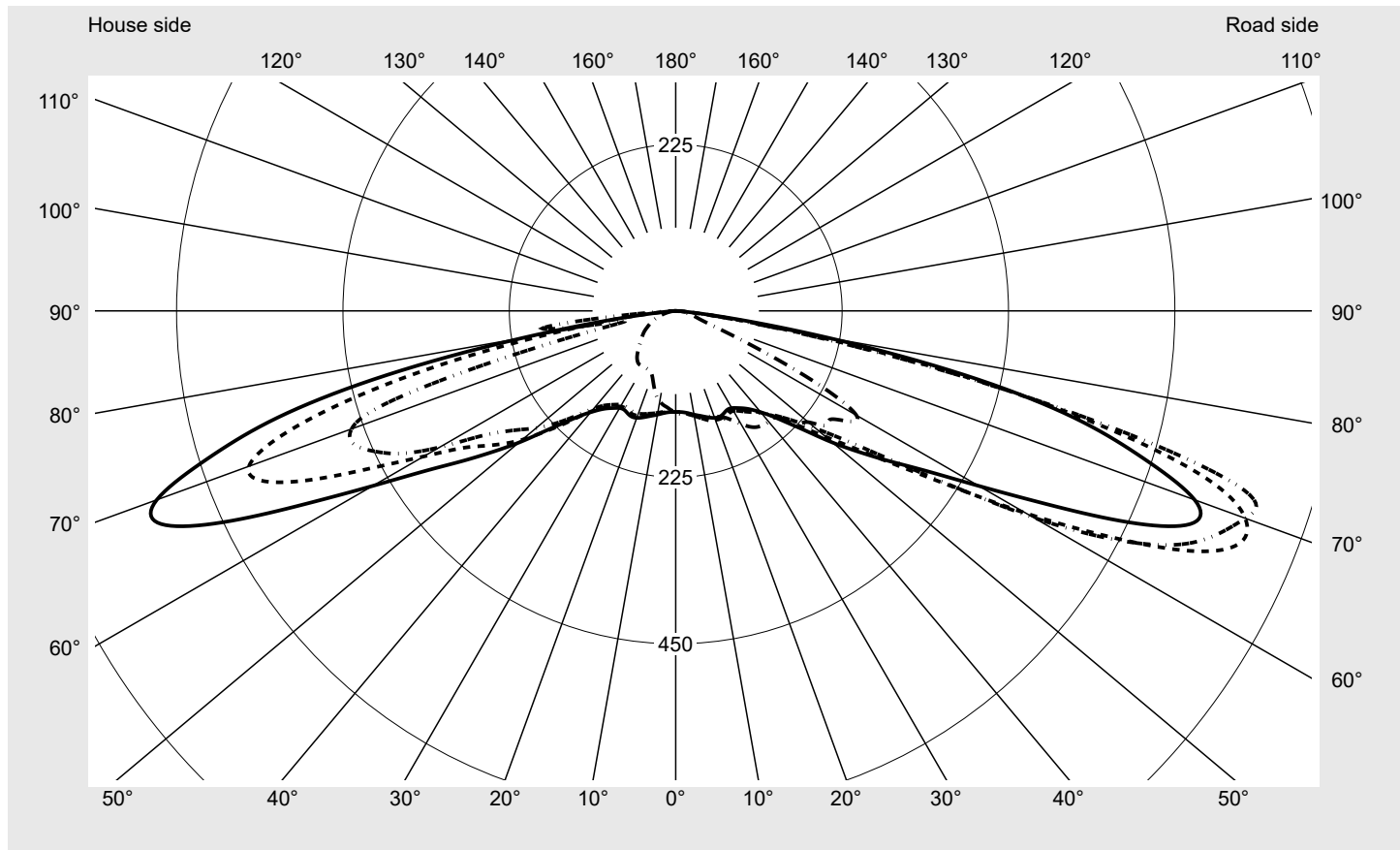
**C180-0**

**C185-5**

**C190-10**

**C270-90**

**Imax: 824 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°	819.8
Imax 80°	208.9
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

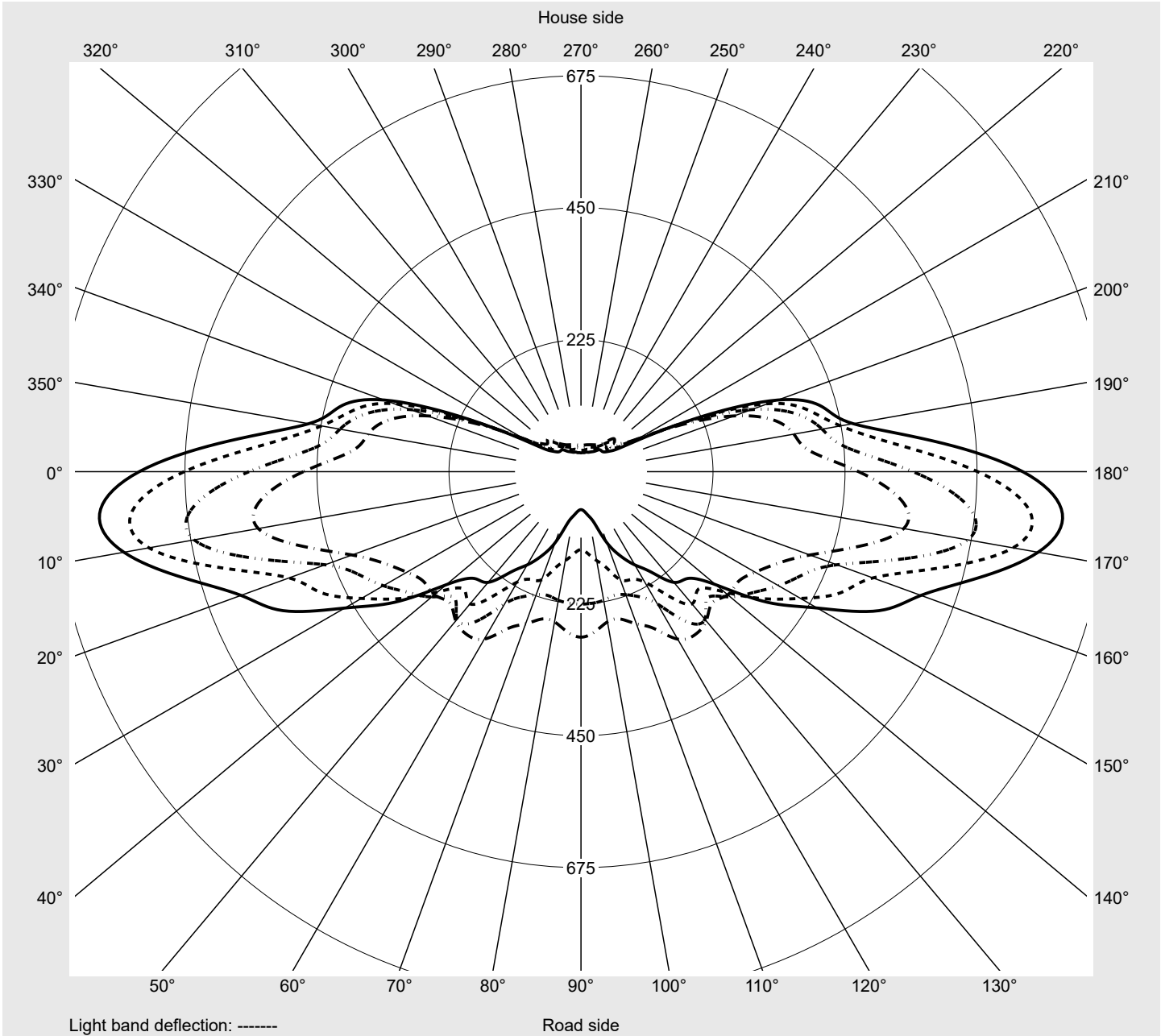
### Measurement conditions

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	137.0	137.2	137.4	137.5	137.7	137.8	137.9	138.0	138.1	138.3	138.5	138.6
5,0°	137.8	138.4	138.8	139.2	139.4	139.7	139.9	140.1	140.1	140.1	140.0	140.0	140.0
7,5°	139.8	140.5	141.2	141.8	142.2	142.4	142.5	142.5	142.5	142.1	141.7	141.5	141.2
10,0°	142.4	143.4	144.3	145.1	145.6	145.8	145.7	145.3	145.0	144.5	144.1	143.9	143.7
12,5°	145.0	146.3	147.8	149.0	149.5	149.5	149.2	148.8	148.5	148.3	148.3	148.4	148.2
15,0°	147.9	149.9	151.7	153.3	154.1	154.1	153.7	153.4	153.5	153.7	153.7	153.4	152.8
17,5°	151.1	153.5	155.7	157.6	158.6	158.7	158.5	158.4	158.6	158.7	158.4	157.8	156.9
20,0°	153.9	156.6	158.9	161.3	162.4	162.6	162.8	162.9	163.1	163.1	162.6	161.8	160.7
22,5°	154.9	157.8	160.7	163.6	165.5	166.3	166.8	167.2	167.4	167.0	166.4	165.7	165.2
25,0°	153.2	156.0	159.2	163.2	166.3	168.4	170.2	171.1	171.3	170.9	170.7	170.6	170.7
27,5°	150.8	153.2	156.2	160.3	163.7	166.8	170.7	173.2	174.0	174.7	175.3	176.3	177.3
30,0°	151.7	153.7	156.1	159.0	161.1	164.1	169.0	173.6	176.7	178.7	180.5	182.4	185.3
32,5°	155.7	158.2	160.5	162.8	162.6	162.9	166.1	171.6	179.1	183.9	186.9	190.3	194.9
35,0°	160.9	163.7	166.4	168.7	167.7	167.9	166.0	169.3	179.4	189.4	193.0	197.2	203.9
37,5°	168.2	170.5	173.0	174.5	174.3	174.2	173.4	171.2	178.0	191.3	196.9	203.1	213.5
40,0°	178.8	179.6	180.6	180.9	180.5	181.2	182.3	180.3	178.1	189.8	201.0	212.6	227.7
42,5°	193.1	191.6	190.0	187.9	186.8	187.4	191.8	191.5	185.7	188.6	208.9	225.4	244.2
45,0°	213.9	209.2	203.6	197.5	194.4	193.4	198.7	203.2	199.0	192.5	220.8	242.1	260.1
47,5°	241.1	233.1	222.0	211.7	205.0	201.3	204.2	214.9	216.3	204.7	235.6	260.0	276.9
50,0°	276.9	264.8	247.7	234.2	221.7	214.5	216.2	229.0	237.9	227.3	255.2	283.5	304.1
52,5°	313.8	305.6	285.1	264.5	247.3	238.2	237.5	248.9	261.1	253.8	281.3	313.4	328.0
55,0°	355.0	361.8	344.3	315.2	291.4	277.2	270.0	273.4	282.3	282.0	311.3	328.3	330.9
57,5°	403.4	439.6	434.6	392.5	351.8	323.9	304.5	295.5	301.3	309.9	329.0	335.9	347.6
60,0°	473.2	547.3	558.6	491.3	415.3	369.9	342.7	327.0	326.5	316.6	332.1	339.1	329.6
62,5°	565.9	661.1	669.6	572.5	464.0	416.5	388.8	359.0	332.0	304.6	328.4	311.6	260.2
65,0°	676.3	767.7	747.8	633.7	529.5	488.3	432.1	377.2	318.8	283.1	294.2	257.3	217.4
67,5°	753.0	823.7	791.1	700.3	616.6	560.5	464.9	388.3	299.8	257.4	246.3	209.2	183.5
70,0°	746.8	819.5	819.8	758.7	688.2	619.3	515.7	407.7	294.7	229.7	190.0	158.5	121.9
72,5°	663.4	751.7	806.0	776.0	714.3	665.0	531.7	389.8	281.1	182.2	126.8	91.3	58.2
75,0°	557.3	589.1	614.4	627.9	637.0	572.6	390.4	268.0	182.0	120.0	74.9	47.7	38.0
77,5°	399.1	374.4	363.2	363.8	409.9	313.4	202.9	97.5	68.7	69.3	39.9	29.3	25.0
80,0°	208.9	172.9	157.6	172.7	158.4	155.0	84.1	47.0	40.9	42.6	23.7	18.3	16.0
82,5°	73.2	58.8	55.8	60.1	53.4	64.3	40.1	24.5	20.4	20.2	12.4	9.8	9.5
85,0°	14.5	13.6	13.1	17.4	16.8	14.3	9.2	7.5	6.4	6.2	5.8	5.0	4.0
87,5°	3.5	3.3	3.2	3.1	3.1	2.8	2.6	2.2	2.1	1.9	1.8	1.6	1.4
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°	138.8	139.0	139.2	139.4	139.6	139.6	136.6	136.3	135.9	135.7	135.3	135.1	134.8
5,0°	140.0	140.1	140.1	140.2	140.3	140.4	137.3	136.6	135.9	135.3	134.6	133.9	133.3
7,5°	140.9	140.8	140.7	140.8	140.9	140.9	138.9	137.9	136.8	135.8	134.7	133.6	132.7
10,0°	143.5	143.5	143.3	143.5	143.5	143.6	141.2	139.9	138.6	137.0	135.5	134.1	132.7
12,5°	147.7	147.2	146.6	146.2	146.0	146.0	143.5	141.9	140.3	138.5	136.6	134.9	133.1
15,0°	152.0	151.0	149.9	149.0	148.4	148.2	145.9	143.9	141.8	139.7	137.8	135.5	133.2
17,5°	155.7	154.4	152.8	151.2	150.0	149.7	148.6	146.1	143.4	140.7	138.1	135.4	132.5
20,0°	159.4	158.1	156.0	153.8	152.4	151.8	150.7	147.6	144.4	141.2	138.1	134.7	131.0
22,5°	164.3	163.0	160.7	158.0	155.9	154.9	151.4	148.1	144.9	141.5	138.0	133.8	128.4
25,0°	170.7	169.5	166.9	163.7	160.6	159.3	150.1	147.4	144.5	141.1	137.6	132.4	124.7
27,5°	178.5	178.4	176.3	172.7	169.4	167.1	148.2	145.9	143.3	140.1	136.3	129.5	119.1
30,0°	188.6	190.0	189.3	185.6	179.5	176.2	149.3	146.6	143.2	139.7	134.7	125.6	112.3
32,5°	200.4	204.0	204.5	199.0	190.2	185.5	153.1	150.2	146.0	141.3	133.2	120.0	105.1
35,0°	211.2	218.3	220.6	212.7	199.0	191.6	158.1	155.1	150.4	143.8	131.5	114.1	98.2
37,5°	227.2	235.9	236.2	224.8	205.3	194.2	165.5	161.7	156.3	146.8	128.7	107.9	92.2
40,0°	245.4	251.5	248.6	235.2	210.1	195.6	177.3	172.3	164.3	150.0	125.2	101.3	87.8
42,5°	260.0	264.6	258.6	243.6	213.9	196.2	194.3	187.6	175.0	154.6	120.8	94.8	85.0
45,0°	273.3	275.7	268.4	252.8	226.7	206.4	217.7	207.3	186.7	161.0	117.7	90.0	84.8
47,5°	292.1	294.7	290.3	274.6	245.1	225.1	242.7	227.4	199.3	169.4	117.2	86.7	86.9
50,0°	322.0	327.1	310.4	289.2	252.5	234.0	270.9	246.5	213.3	180.4	123.3	88.2	89.6
52,5°	333.1	331.3	326.4	309.2	275.8	254.2	295.3	263.5	231.0	196.5	135.3	93.0	92.0
55,0°	343.8	356.9	335.7	307.1	281.3	255.7	318.3	284.6	257.3	219.5	154.6	99.3	92.0
57,5°	365.9	331.2	312.3	297.3	291.1	277.6	346.0	316.5	293.5	246.7	174.5	106.9	89.1
60,0°	295.1	276.0	260.1	259.9	273.8	282.1	393.6	368.5	339.9	277.9	189.4	112.2	83.8
62,5°	235.2	223.1	218.5	222.6	225.0	225.8	457.7	417.3	380.3	309.2	199.5	110.6	77.0
65,0°	202.7	196.1	170.0	153.9	140.6	132.7	538.6	449.3	402.5	338.8	207.3	104.0	69.6
67,5°	158.2	128.7	92.8	77.0	68.2	64.7	601.9	471.0	426.2	357.1	212.0	93.9	61.5
70,0°	84.5	63.0	52.1	42.8	39.6	38.6	614.2	466.4	446.0	367.2	212.9	83.4	55.1
72,5°	44.2	40.4	37.1	32.2	30.3	29.8	557.3	399.8	429.1	344.4	178.5	68.3	47.8
75,0°	34.0	31.2	29.4	27.4	24.5	24.1	444.9	215.0	290.8	262.8	130.9	53.2	38.4
77,5°	23.9	22.4	21.2	19.7	18.3	18.2	300.0	82.4	170.8	162.6	82.5	42.4	29.8
80,0°	16.5	15.1	14.2	12.7	12.3	12.2	156.2	98.0	133.7	99.3	52.6	32.3	22.4
82,5°	9.1	7.9	7.2	6.5	6.0	6.0	72.9	182.1	124.7	57.8	33.9	22.8	15.8
85,0°	3.6	3.4	3.0	2.8	2.5	2.4	16.0	80.6	55.7	23.3	17.7	12.9	9.3
87,5°	1.2	1.1	1.1	1.0	1.0	0.9	3.9	5.6	5.0	4.2	4.7	4.0	3.4
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°	134.5	134.3	134.2	134.0	134.0	134.1	134.1	134.1	134.2	134.4	134.5	1.6	1.8
5,0°	132.7	132.3	131.9	131.5	131.2	131.1	130.9	130.9	130.9	131.0	131.0	3.3	5.1
7,5°	131.8	131.0	130.3	129.6	129.1	128.8	128.5	128.3	128.2	128.2	128.3	4.9	10.0
10,0°	131.5	130.3	129.1	128.1	127.2	126.2	125.5	124.9	124.5	124.3	124.2	6.6	16.6
12,5°	131.4	129.5	127.7	125.8	124.0	122.3	120.8	119.8	119.0	118.7	118.6	8.2	24.8
15,0°	130.7	128.0	125.0	122.1	119.1	116.5	114.1	112.4	111.0	110.3	110.3	9.9	34.7
17,5°	129.1	125.2	120.8	116.3	112.2	108.6	105.8	103.5	102.0	101.3	101.1	11.5	46.3
20,0°	126.3	120.5	114.3	108.8	104.0	100.2	97.3	95.4	94.0	93.5	93.3	13.1	59.4
22,5°	121.4	113.6	106.2	100.2	95.7	92.8	90.8	89.7	89.2	89.0	89.0	14.7	74.0
25,0°	114.9	105.5	98.0	92.9	89.8	88.3	87.6	87.5	87.6	87.6	87.6	16.2	90.2
27,5°	107.4	97.6	91.2	88.0	86.9	86.6	86.8	87.0	87.2	87.2	87.1	17.7	108.0
30,0°	100.1	91.3	87.0	86.1	85.9	86.1	86.8	87.2	87.6	87.4	87.3	19.4	127.4
32,5°	93.2	86.8	85.7	85.6	85.8	86.4	87.3	88.1	88.3	87.8	87.4	21.3	148.6
35,0°	88.3	85.3	85.4	85.5	85.8	86.7	87.6	88.4	88.5	87.8	87.3	23.2	171.8
37,5°	85.6	85.4	85.4	85.2	85.7	86.4	87.0	87.1	86.9	85.7	85.1	25.3	197.1
40,0°	85.4	86.0	85.2	84.9	84.9	84.8	84.7	84.1	83.3	82.0	81.3	27.4	224.5
42,5°	86.2	86.1	84.9	83.9	82.9	81.8	80.9	79.7	78.4	76.9	76.2	29.8	254.3
45,0°	87.3	85.8	83.7	81.4	79.3	77.3	75.5	73.8	72.6	71.4	70.7	32.4	286.7
47,5°	88.5	85.9	81.6	78.1	75.0	72.9	70.9	69.0	67.3	66.1	65.6	35.7	322.4
50,0°	90.2	87.4	78.8	73.8	70.7	68.5	66.4	64.6	63.1	61.9	61.3	39.7	362.0
52,5°	91.2	86.9	76.0	69.8	66.5	64.3	62.1	60.3	58.9	57.9	57.3	44.2	406.2
55,0°	88.2	84.9	73.7	66.0	62.3	59.8	57.7	56.0	54.9	53.9	53.5	49.2	455.4
57,5°	82.7	83.5	70.2	61.5	57.5	55.2	53.4	51.9	50.9	49.8	49.5	54.7	510.1
60,0°	74.5	79.5	66.2	57.4	53.0	50.5	48.9	47.5	46.4	45.2	44.7	59.6	569.7
62,5°	65.9	71.2	61.9	53.2	48.7	46.0	44.3	43.0	42.0	41.0	40.5	63.2	632.9
65,0°	58.6	60.2	56.3	48.6	44.4	41.7	40.1	39.6	37.7	36.7	36.1	65.9	698.8
67,5°	52.4	49.8	48.8	43.1	39.4	37.0	35.2	34.6	32.9	32.6	32.1	66.8	765.6
70,0°	45.6	41.6	41.6	37.7	34.3	32.0	30.5	29.9	28.1	27.9	27.7	66.4	832.0
72,5°	39.0	34.7	34.0	32.1	29.2	27.1	25.4	24.8	23.4	22.6	22.5	62.2	894.2
75,0°	32.3	28.3	27.2	26.3	24.5	22.5	20.7	19.9	18.8	18.0	18.0	48.3	942.4
77,5°	25.0	22.1	20.8	20.4	19.1	17.4	15.9	15.0	14.2	13.6	13.6	29.2	971.7
80,0°	18.8	16.3	15.2	15.1	14.1	12.6	11.4	10.8	10.0	9.9	9.8	15.8	987.5
82,5°	13.1	11.3	9.8	10.1	9.4	8.7	7.4	6.8	6.2	6.2	6.3	8.6	996.1
85,0°	7.9	6.7	5.7	5.5	5.4	5.1	4.4	4.0	3.5	3.5	3.4	3.2	999.3
87,5°	3.0	2.7	2.5	2.3	2.1	2.1	1.8	1.7	1.5	1.5	1.4	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: 5XA248A31F08FE</b> <b>EAN: 4058352802038</b>	<b>LP number</b> 59405_63
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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	2610	16.3	16.8	16.6
95	241	252	2476	15.5	15.9	15.7
90	229	250	2353	14.7	15.1	14.9
85	216	248	2220	13.8	14.2	14.0
80	203	246	2086	13.0	13.4	13.2
75	190	243	1952	12.1	12.5	12.3
70	178	241	1829	11.4	11.7	11.6
65	165	238	1695	10.6	10.9	10.8
60	152	235	1562	9.9	10.1	10.0
55	140	232	1439	9.1	9.3	9.2
50	127	229	1305	8.3	8.6	8.4
45	114	225	1171	7.6	7.8	7.7
40	102	221	1048	6.9	7.1	7.0
35	89	216	915	6.2	6.4	6.3
30	76	210	781	5.5	5.6	5.6
25	63	203	647	4.8	4.9	4.8
20	52	196	534	4.2	4.3	4.2