

Lichttechnischer Prüfbefund

Familie
DL® 50 mini LED



Bestell-Nr.: 5XA248U31F08FE
EAN: 4058352803752

LP-Nummer
59408_63

Ausführung Seil-Montage
Optik symmetrisch, extrem breit strahlend (P1.0s)
Abdeckung Einscheibensicherheitsglas (ESG)
Bestückung LED 3000 K | CRI ≥ 70
Betriebsgerät EVG SITECO iQ
Bemessungswerte Nettolichtstrom = 2610 lm
Systemleistung = 16.3 W
Lichtausbeute = 160.1 lm/W

Seriendokumentation
16.05.2023

siteco

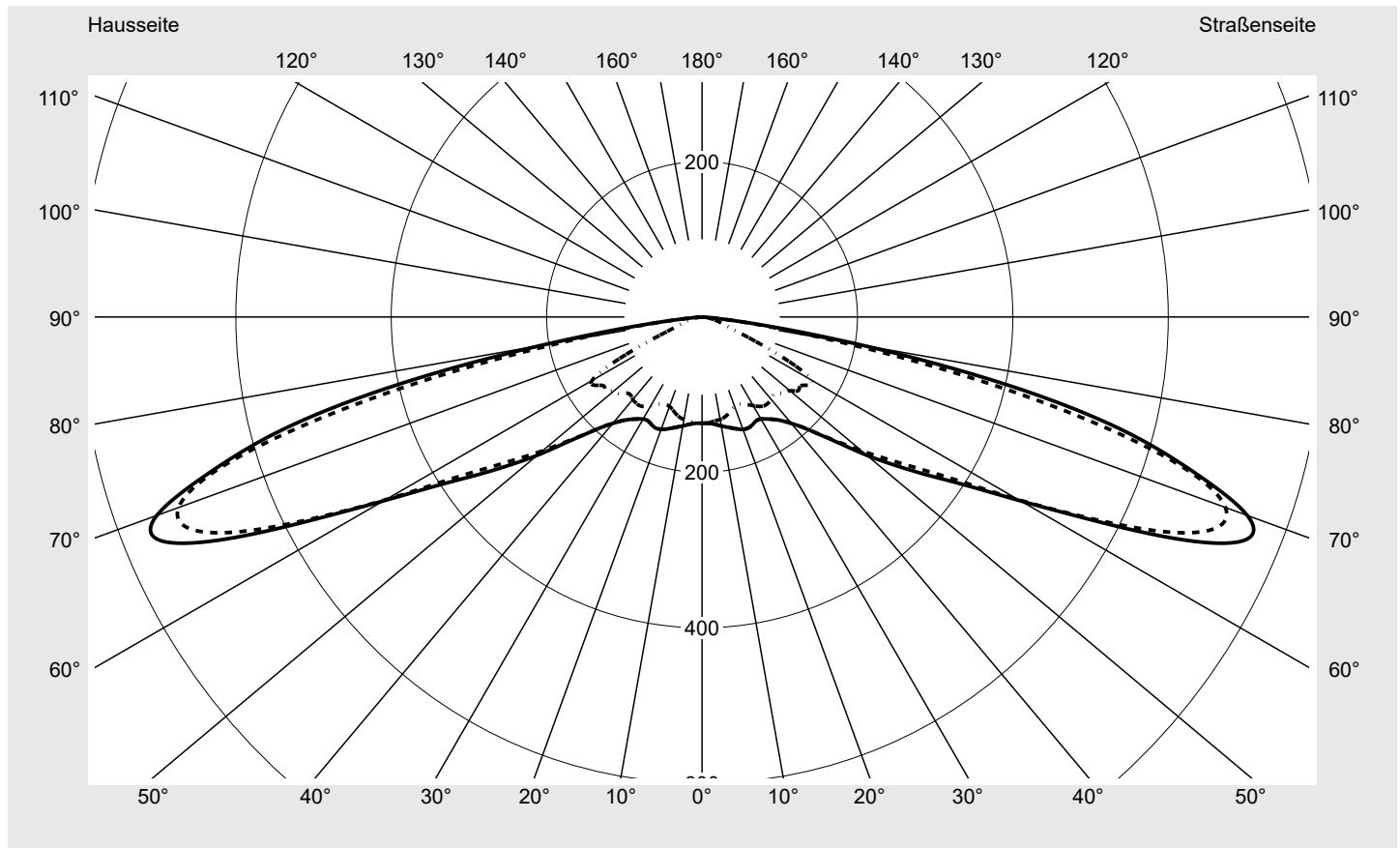
Lichtstärke in cd/klm

C180-0

C185-5

C270-90

Imax: 753 cd/klm



Leuchtenbetriebswirkungsgrade

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

Lichtstärkeklasse nach EN13201-2

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

Messbedingungen

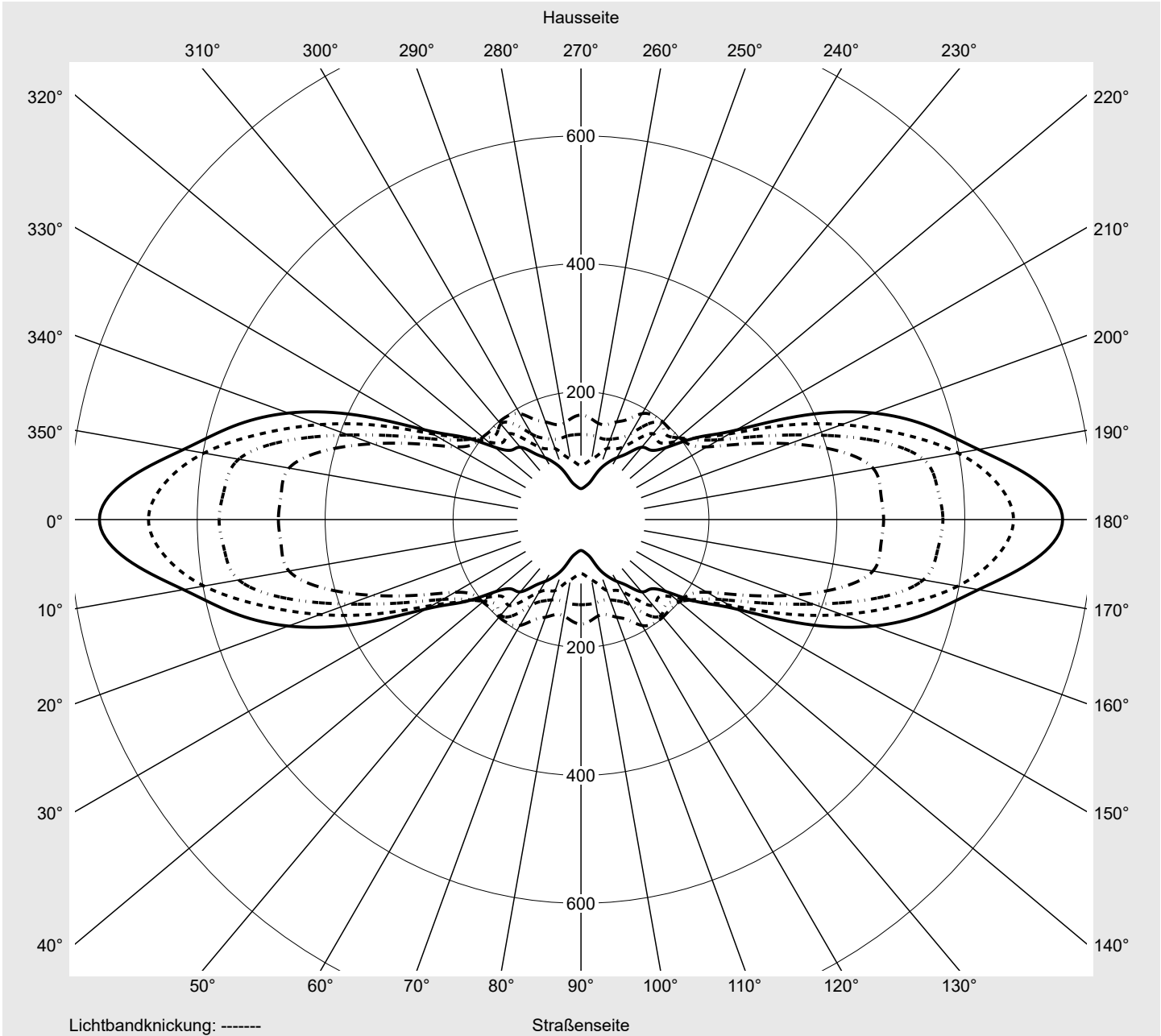
DIN EN 13032 und DIN 5032

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Kegelmantelkurven in cd/klm **KMK 67,5°** **KMK 65°** **KMK 62,5°** **KMK 60°**



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Familie DL® 50 mini LED	Bestell-Nr.: 5XA248U31F08FE EAN: 4058352803752	LP-Nummer 59408_63
Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		siteco

C- Ebenen	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	Lichtstärke 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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Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		siteco

C- Ebenen	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	Lichtstärke 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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Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		siteco

C- Ebenen	220° 320°	225° 315°	230° 310°	235° 305°	240° 300°	245° 295°	250° 290°	255° 285°	260° 280°	265° 275°	270°	Phi-Zone	Summe Phi-Zone
γ	Lichtstärke in cd/klm											Lichtstrom 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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Familie DL® 50 mini LED	Bestell-Nr.: 5XA248U31F08FE EAN: 4058352803752	LP-Nummer 59408_63
Dimmstufen-Tabelle		Umgebungstemperatur: 25°C
siteco		

Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W] Lebensdauerbeginn	Systemleistung [W] Lebensdauerende	Systemleistung [W] Durchschnitt
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