

Photometric test report

Family
DL® 50 mini LED

Order number: 5XA248W21F08RE
EAN: 4058352804056

LP number
59398_13



Version wire mounting
Optic symmetric, wide distribution (ST1.0s)
Cover toughened safety glass
Lamps LED 2200 K | CRI ≥ 70
Controlgear ECG SITECO iQ
Rated values
Net luminous flux = 5120 lm
Power consumption = 36.6 W
Luminous efficacy = 139.9 lm/W

serial
documentation
03.04.2023

siteco

Luminous intensity in cd/klm

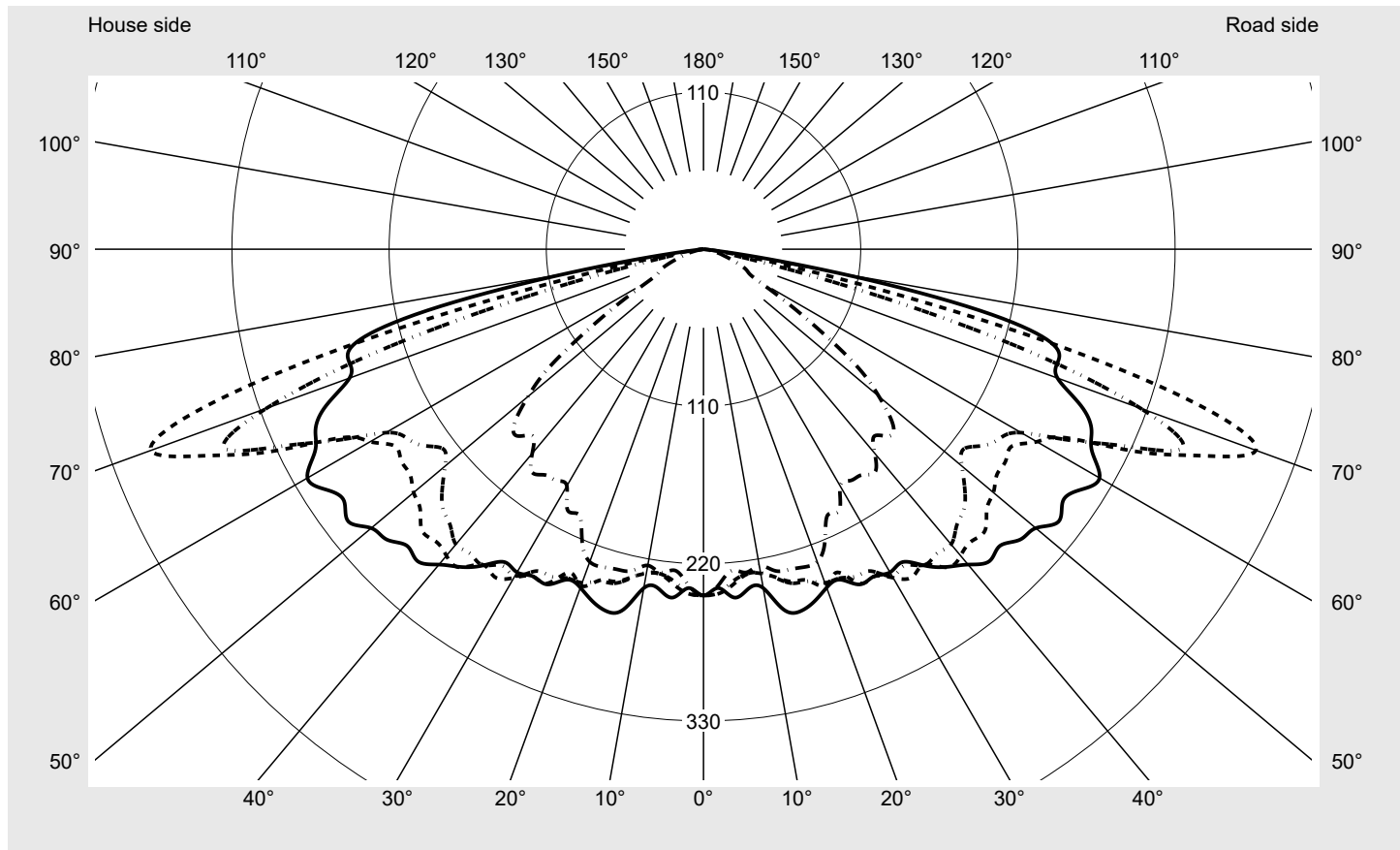
C180-0

C205-25

C210-30

C270-90

Imax: 411 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:	G4
Imax 70°	411.4
Imax 80°	95.1
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

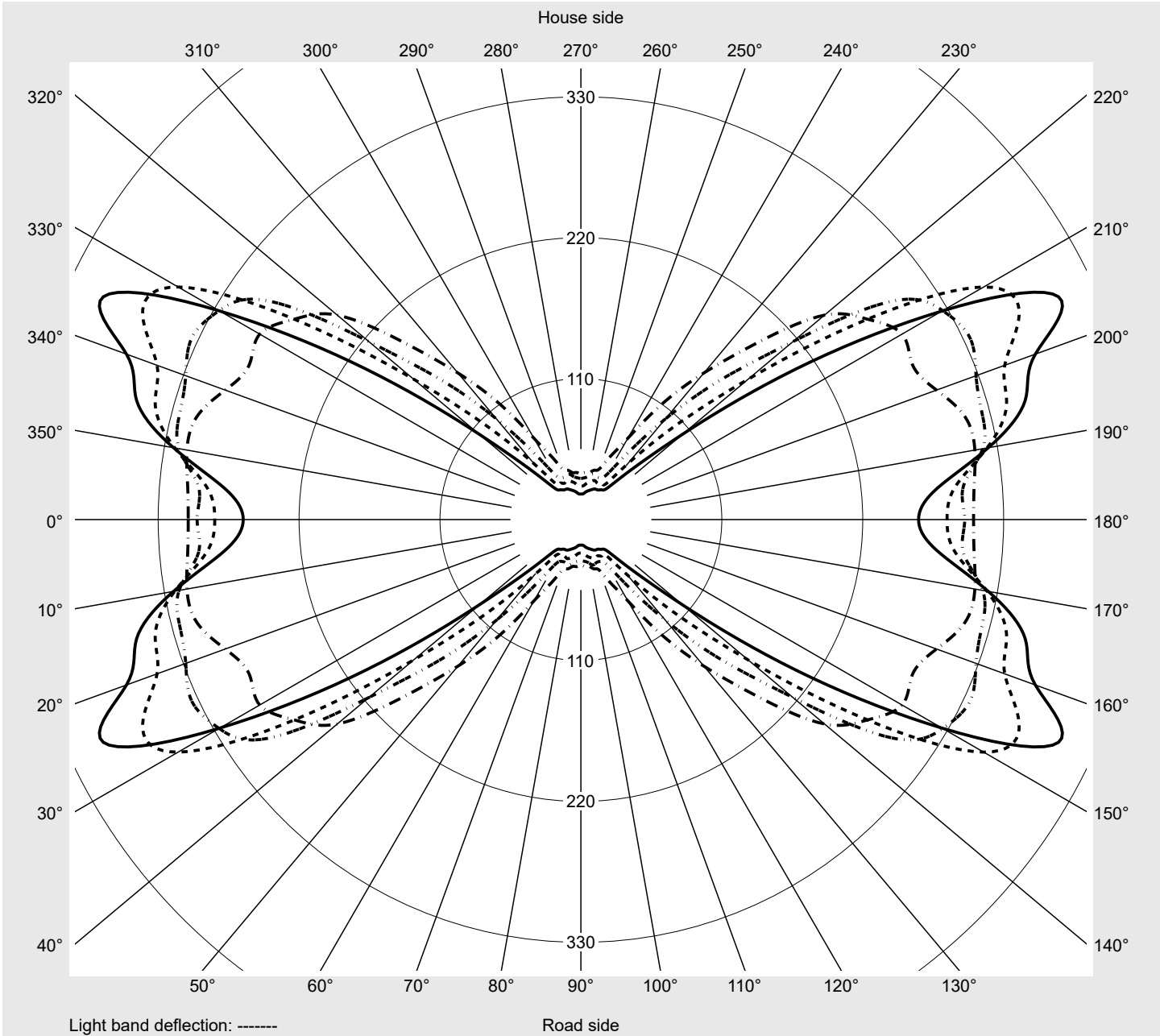
Measurement conditions

DIN EN 13032 and DIN 5032

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Family DL® 50 mini LED	Order number: 5XA248W21F08RE EAN: 4058352804056	LP number 59398_13
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Envelope curve in cd/klm **KMK 70°** **KMK 67.5°** **KMK 65°** **KMK 62.5°** **siteco**



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Family DL® 50 mini LED	Order number: 5XA248W21F08RE EAN: 4058352804056	LP number 59398_13
Table of values for luminous intensities		Maximum luminous intensity
siteco		

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°	242.2	242.2	242.2	242.2	242.2	242.2	242.2	242.2	242.2	242.2	242.2	242.2	242.2
2,5°	237.2	238.8	239.3	239.2	239.9	241.2	240.6	240.8	241.4	240.6	238.9	237.8	237.8
5,0°	244.6	241.4	240.2	237.3	236.1	235.6	233.4	231.4	230.5	230.7	228.2	228.5	226.9
7,5°	239.7	239.5	240.1	235.6	230.3	229.5	229.2	225.4	225.6	225.9	225.4	227.1	225.1
10,0°	240.7	240.9	240.7	237.0	232.9	230.3	229.8	230.5	226.7	226.6	227.4	229.7	229.2
12,5°	258.0	251.4	239.6	234.1	232.4	235.2	235.7	235.9	233.6	234.4	232.0	232.6	231.2
15,0°	262.2	250.4	240.5	240.5	239.4	240.7	241.9	238.0	237.7	239.0	237.6	234.9	234.8
17,5°	258.3	253.0	242.6	241.9	244.5	243.0	243.5	237.8	239.0	239.5	238.9	236.1	238.6
20,0°	251.9	251.7	247.9	246.2	247.7	250.6	248.4	247.3	244.0	239.5	241.1	238.3	236.1
22,5°	250.2	255.3	250.1	252.0	251.1	244.7	249.1	247.1	248.1	247.7	235.9	233.3	230.7
25,0°	258.8	257.1	258.5	256.3	253.3	257.8	252.5	254.0	249.6	244.1	237.2	232.2	232.3
27,5°	258.1	256.5	263.2	259.5	259.5	258.2	253.9	256.2	251.7	239.8	233.2	229.8	227.8
30,0°	261.0	262.4	270.3	263.6	265.2	265.4	263.9	258.9	247.1	240.8	234.7	231.8	223.5
32,5°	259.5	269.3	271.6	271.6	269.8	271.9	262.4	260.2	247.0	244.5	238.0	221.6	215.1
35,0°	270.2	271.5	277.7	274.8	276.3	269.4	269.7	256.6	244.8	241.8	231.1	224.2	215.4
37,5°	280.1	278.2	282.9	283.0	277.8	280.5	268.3	250.9	240.6	237.6	227.8	218.9	216.9
40,0°	288.0	287.7	283.7	284.7	284.3	279.9	269.6	249.3	243.8	233.3	222.4	225.7	216.8
42,5°	296.1	291.5	287.5	295.3	291.2	277.3	262.2	243.9	239.3	228.4	226.9	220.5	217.6
45,0°	293.4	298.8	291.6	294.0	289.4	278.5	257.7	237.7	232.5	235.6	229.6	227.2	218.7
47,5°	300.6	298.4	297.6	302.8	292.3	268.9	248.0	237.2	231.6	238.0	233.9	219.4	210.6
50,0°	303.5	301.8	294.9	296.2	291.7	264.8	236.1	229.1	235.5	235.4	227.4	211.0	203.7
52,5°	313.1	306.4	297.9	293.8	282.3	258.9	229.6	232.4	238.8	238.4	223.0	204.0	193.8
55,0°	307.1	309.6	303.0	293.1	276.4	258.2	239.5	242.7	237.6	226.6	215.3	201.3	182.8
57,5°	313.1	310.7	306.8	291.4	269.9	256.2	246.1	247.7	241.0	221.4	213.5	184.7	154.5
60,0°	320.0	316.0	306.0	294.2	273.9	269.4	256.7	259.9	244.6	223.8	186.2	149.8	120.5
62,5°	306.5	308.2	312.3	310.4	295.5	285.6	289.5	272.8	248.2	195.5	149.4	109.6	73.2
65,0°	299.6	299.7	318.5	324.0	328.3	335.2	326.1	297.5	216.1	154.1	102.4	62.6	40.7
67,5°	285.8	293.3	321.9	344.0	352.1	377.5	363.0	272.0	170.4	101.8	56.5	34.1	32.7
70,0°	263.6	279.1	322.9	359.1	377.5	411.4	325.6	204.8	103.6	53.3	32.1	28.3	26.7
72,5°	260.2	275.7	322.3	347.2	375.3	364.9	242.0	112.7	53.4	31.2	25.3	24.3	21.6
75,0°	251.4	265.8	278.0	285.9	301.8	245.3	128.4	47.3	27.7	22.4	20.0	19.1	16.8
77,5°	197.9	175.8	144.1	149.6	149.5	108.1	39.8	20.4	16.2	15.7	15.3	13.4	11.5
80,0°	95.1	62.5	44.4	47.7	50.8	36.7	13.5	10.8	8.9	8.8	10.7	7.7	7.1
82,5°	19.9	11.3	7.0	9.6	15.5	10.3	5.6	6.2	4.3	3.5	4.0	4.1	4.1
85,0°	1.2	1.2	1.3	1.2	1.4	1.4	1.5	1.4	1.4	1.2	1.2	1.1	1.1
87,5°	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2
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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Table of values for luminous intensities		Maximum luminous intensity
		siteco

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°	242.2	242.2	242.2	242.2	242.2	242.2	242.2	242.2	242.2	242.2	242.2	242.2	242.2
2,5°	237.6	237.2	238.4	236.8	236.6	235.5	238.8	239.3	239.2	239.9	241.2	240.6	240.8
5,0°	225.5	223.4	223.5	224.4	224.8	225.6	241.4	240.2	237.3	236.1	235.6	233.4	231.4
7,5°	224.0	222.3	222.8	225.7	224.9	228.1	239.5	240.1	235.6	230.3	229.5	229.2	225.4
10,0°	227.7	225.8	224.1	224.7	223.8	224.6	240.9	240.7	237.0	232.9	230.3	229.8	230.5
12,5°	231.2	231.4	229.8	229.8	229.6	230.4	251.4	239.6	234.1	232.4	235.2	235.7	235.9
15,0°	230.0	230.3	232.1	235.2	232.2	232.0	250.4	240.5	240.5	239.4	240.7	241.9	238.0
17,5°	237.7	232.4	229.1	230.6	232.7	233.2	253.0	242.6	241.9	244.5	243.0	243.5	237.8
20,0°	232.3	229.1	229.0	222.8	224.5	232.7	251.7	247.9	246.2	247.7	250.6	248.4	247.3
22,5°	227.4	224.4	223.2	217.3	219.8	221.9	255.3	250.1	252.0	251.1	244.7	249.1	247.1
25,0°	229.1	225.8	217.2	216.6	211.4	205.4	257.1	258.5	256.3	253.3	257.8	252.5	254.0
27,5°	221.2	221.3	210.3	205.3	201.2	205.9	256.5	263.2	259.5	259.5	258.2	253.9	256.2
30,0°	219.6	203.8	203.4	198.5	195.7	191.2	262.4	270.3	263.6	265.2	265.4	263.9	258.9
32,5°	213.1	203.8	198.3	195.7	194.0	191.8	269.3	271.6	271.6	269.8	271.9	262.4	260.2
35,0°	208.0	203.1	202.6	196.4	199.0	192.9	271.5	277.7	274.8	276.3	269.4	269.7	256.6
37,5°	214.0	207.7	201.2	204.7	194.8	196.9	278.2	282.9	283.0	277.8	280.5	268.3	250.9
40,0°	214.8	205.4	199.6	193.5	195.0	186.4	287.7	283.7	284.7	284.3	279.9	269.6	249.3
42,5°	212.5	197.8	193.6	191.5	186.2	177.2	291.5	287.5	295.3	291.2	277.3	262.2	243.9
45,0°	204.2	194.8	190.2	187.3	183.5	184.7	298.8	291.6	294.0	289.4	278.5	257.7	237.7
47,5°	198.5	192.3	181.2	184.3	173.1	179.1	298.4	297.6	302.8	292.3	268.9	248.0	237.2
50,0°	192.3	181.6	172.1	167.7	161.5	160.3	301.8	294.9	296.2	291.7	264.8	236.1	229.1
52,5°	180.8	167.6	154.5	148.1	139.4	137.0	306.4	297.9	293.8	282.3	258.9	229.6	232.4
55,0°	162.1	142.2	122.5	115.6	106.9	100.5	309.6	303.0	293.1	276.4	258.2	239.5	242.7
57,5°	128.4	106.6	92.1	76.1	71.9	68.4	310.7	306.8	291.4	269.9	256.2	246.1	247.7
60,0°	90.9	69.4	55.8	47.4	46.4	43.4	316.0	306.0	294.2	273.9	269.4	256.7	259.9
62,5°	54.4	42.1	39.9	37.1	36.9	35.5	308.2	312.3	310.4	295.5	285.6	289.5	272.8
65,0°	36.0	35.7	36.7	34.2	32.7	32.1	299.7	318.5	324.0	328.3	335.2	326.1	297.5
67,5°	31.2	32.2	31.0	29.2	26.7	26.1	293.3	321.9	344.0	352.1	377.5	363.0	272.0
70,0°	26.3	24.9	23.4	21.9	20.2	20.0	279.1	322.9	359.1	377.5	411.4	325.6	204.8
72,5°	20.5	19.7	18.0	16.2	16.2	14.7	275.7	322.3	347.2	375.3	364.9	242.0	112.7
75,0°	16.0	14.9	13.6	11.8	11.4	11.4	265.8	278.0	285.9	301.8	245.3	128.4	47.3
77,5°	11.5	10.5	8.9	7.7	6.7	6.8	175.8	144.1	149.6	149.5	108.1	39.8	20.4
80,0°	7.4	6.4	5.4	4.6	3.8	3.8	62.5	44.4	47.7	50.8	36.7	13.5	10.8
82,5°	3.5	3.3	2.7	2.1	1.9	1.8	11.3	7.0	9.6	15.5	10.3	5.6	6.2
85,0°	1.2	1.1	1.0	0.8	0.6	0.8	1.2	1.3	1.2	1.4	1.4	1.5	1.4
87,5°	0.2	0.2	0.2	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3
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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Family DL® 50 mini LED	Order number: 5XA248W21F08RE EAN: 4058352804056	LP number 59398_13
Table of values for luminous intensities		Maximum luminous intensity
		siteco

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°	242.2	242.2	242.2	242.2	242.2	242.2	242.2	242.2	242.2	242.2	242.2	0.4	0.4
2,5°	241.4	240.6	238.9	237.8	237.8	237.6	237.2	238.4	236.8	236.6	235.5	2.9	3.2
5,0°	230.5	230.7	228.2	228.5	226.9	225.5	223.4	223.5	224.4	224.8	225.6	5.5	8.7
7,5°	225.6	225.9	225.4	227.1	225.1	224.0	222.3	222.8	225.7	224.9	228.1	8.2	16.9
10,0°	226.7	226.6	227.4	229.7	229.2	227.7	225.8	224.1	224.7	223.8	224.6	10.9	27.9
12,5°	233.6	234.4	232.0	232.6	231.2	231.2	231.4	229.8	229.8	229.6	230.4	13.9	41.8
15,0°	237.7	239.0	237.6	234.9	234.8	230.0	230.3	232.1	235.2	232.2	232.0	16.9	58.7
17,5°	239.0	239.5	238.9	236.1	238.6	237.7	232.4	229.1	230.6	232.7	233.2	19.7	78.4
20,0°	244.0	239.5	241.1	238.3	236.1	232.3	229.1	229.0	222.9	224.5	232.7	22.5	100.9
22,5°	248.1	247.7	235.9	233.3	230.7	227.4	224.4	223.2	217.3	219.8	221.9	25.0	125.9
25,0°	249.6	244.1	237.2	232.2	232.3	229.1	225.8	217.2	216.6	211.4	205.4	27.8	153.7
27,5°	251.7	239.8	233.2	229.8	227.8	221.2	221.3	210.3	205.3	201.2	205.9	30.1	183.8
30,0°	247.1	240.8	234.7	231.8	223.5	219.5	203.8	203.4	198.5	195.7	191.2	32.6	216.3
32,5°	247.0	244.5	238.0	221.6	215.1	213.1	203.8	198.3	195.7	194.0	191.8	35.0	251.3
35,0°	244.8	241.8	231.1	224.2	215.4	208.0	203.1	202.6	196.4	199.0	192.9	37.5	288.8
37,5°	240.6	237.6	227.8	218.9	216.9	214.0	207.7	201.2	204.7	194.8	196.9	40.1	328.9
40,0°	243.8	233.3	222.4	225.7	216.8	214.8	205.4	199.6	193.5	195.0	186.4	42.4	371.3
42,5°	239.3	228.4	226.9	220.5	217.6	212.5	197.8	193.6	191.5	186.2	177.2	44.2	415.5
45,0°	232.5	235.6	229.6	227.2	218.7	204.2	194.8	190.2	187.3	183.5	184.7	46.2	461.7
47,5°	231.6	238.0	233.9	219.4	210.6	198.5	192.3	181.2	184.3	173.1	179.1	47.7	509.4
50,0°	235.5	235.4	227.4	211.0	203.7	192.3	181.6	172.1	167.7	161.5	160.3	48.2	557.6
52,5°	238.8	238.4	223.0	204.0	193.8	180.8	167.6	154.5	148.1	139.4	137.0	48.5	606.2
55,0°	237.6	226.6	215.3	201.3	182.8	162.1	142.2	122.5	115.6	106.9	100.5	47.9	654.0
57,5°	241.0	221.4	213.5	184.7	154.5	128.4	106.6	92.1	76.1	71.9	68.4	46.4	700.4
60,0°	244.6	223.8	186.2	149.8	120.5	90.9	69.4	55.8	47.4	46.4	43.4	44.7	745.2
62,5°	248.2	195.5	149.4	109.6	73.2	54.4	42.1	39.9	37.1	36.9	35.5	43.7	788.8
65,0°	216.1	154.1	102.4	62.6	40.7	36.0	35.7	36.7	34.2	32.7	32.1	43.4	832.2
67,5°	170.4	101.8	56.5	34.1	32.7	31.2	32.2	31.0	29.2	26.7	26.1	42.6	874.8
70,0°	103.6	53.3	32.1	28.3	26.7	26.3	24.9	23.4	21.9	20.2	20.0	39.8	914.6
72,5°	53.4	31.2	25.3	24.3	21.6	20.5	19.7	18.0	16.2	16.2	14.7	35.2	949.9
75,0°	27.7	22.4	20.0	19.1	16.8	16.0	14.9	13.6	11.8	11.4	11.4	27.3	977.2
77,5°	16.2	15.7	15.3	13.4	11.5	11.5	10.5	8.9	7.7	6.7	6.8	15.0	992.2
80,0°	8.9	8.8	10.7	7.7	7.1	7.4	6.4	5.4	4.6	3.8	3.8	5.8	998.0
82,5°	4.3	3.5	4.0	4.1	4.1	3.5	3.3	2.7	2.1	1.9	1.8	1.7	999.6
85,0°	1.4	1.2	1.2	1.1	1.1	1.2	1.1	1.0	0.8	0.6	0.8	0.3	999.9
87,5°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.1	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

Family DL® 50 mini LED	Order number: 5XA248W21F08RE EAN: 4058352804056	LP number 59398_13
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Dimming levels table	environmental temperature: 25°C	siteco
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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	5120	36.6	37.6	37.1
95	241	252	4858	34.5	35.5	35.0
90	229	250	4616	32.6	33.6	33.1
85	216	248	4354	30.6	31.5	31.0
80	203	246	4092	28.6	29.4	29.0
75	190	243	3830	26.7	27.4	27.0
70	178	241	3588	24.9	25.6	25.2
65	165	238	3326	22.9	23.6	23.2
60	152	235	3064	21.1	21.6	21.4
55	140	232	2822	19.3	19.9	19.6
50	127	229	2560	17.5	17.9	17.7
45	114	225	2298	15.7	16.1	15.9
40	102	221	2056	14.0	14.4	14.2
35	89	216	1794	12.2	12.6	12.4
30	76	210	1532	10.6	10.8	10.7
25	63	203	1270	8.9	9.1	9.0
20	51	195	1028	7.3	7.5	7.4
15	38	184	766	5.7	5.8	5.8
11	27	172	544	4.1	4.2	4.2