

Photometric test report

Family
DL® 50 mini LED

Order number: 5XA248W41F08RE
EAN: 4058352804247

LP number
59398_15



Version	wire mounting
Optic	symmetric, wide distribution (ST1.0s)
Cover	toughened safety glass
Lamps	LED 4000 K CRI ≥ 70
Controlgear	ECG SITECO iQ
Rated values	Net luminous flux = 5990 lm Power consumption = 33.8 W Luminous efficacy = 177.2 lm/W

serial
documentation
03.04.2023

siteco

Luminous intensity in cd/klm

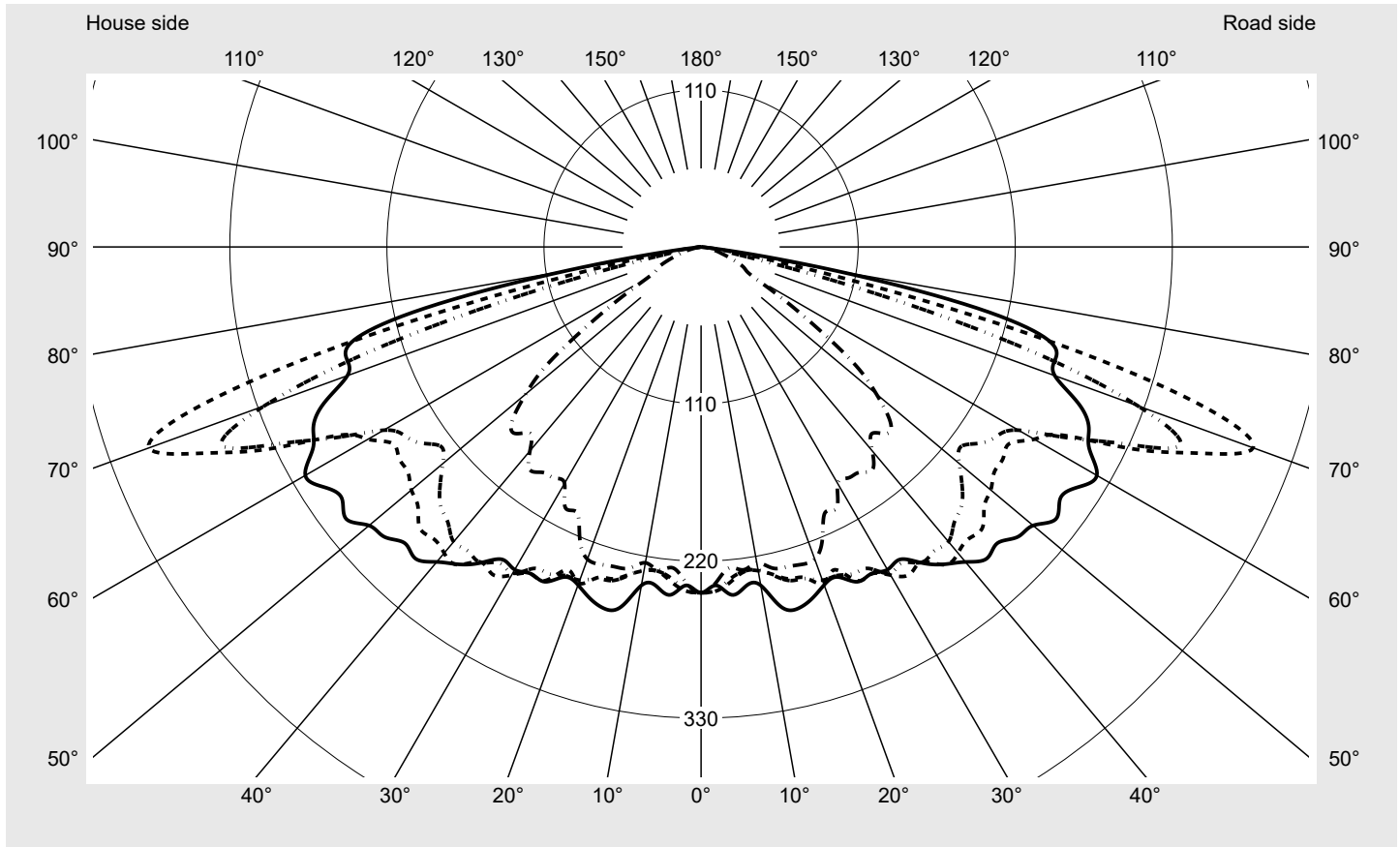
C180-0

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

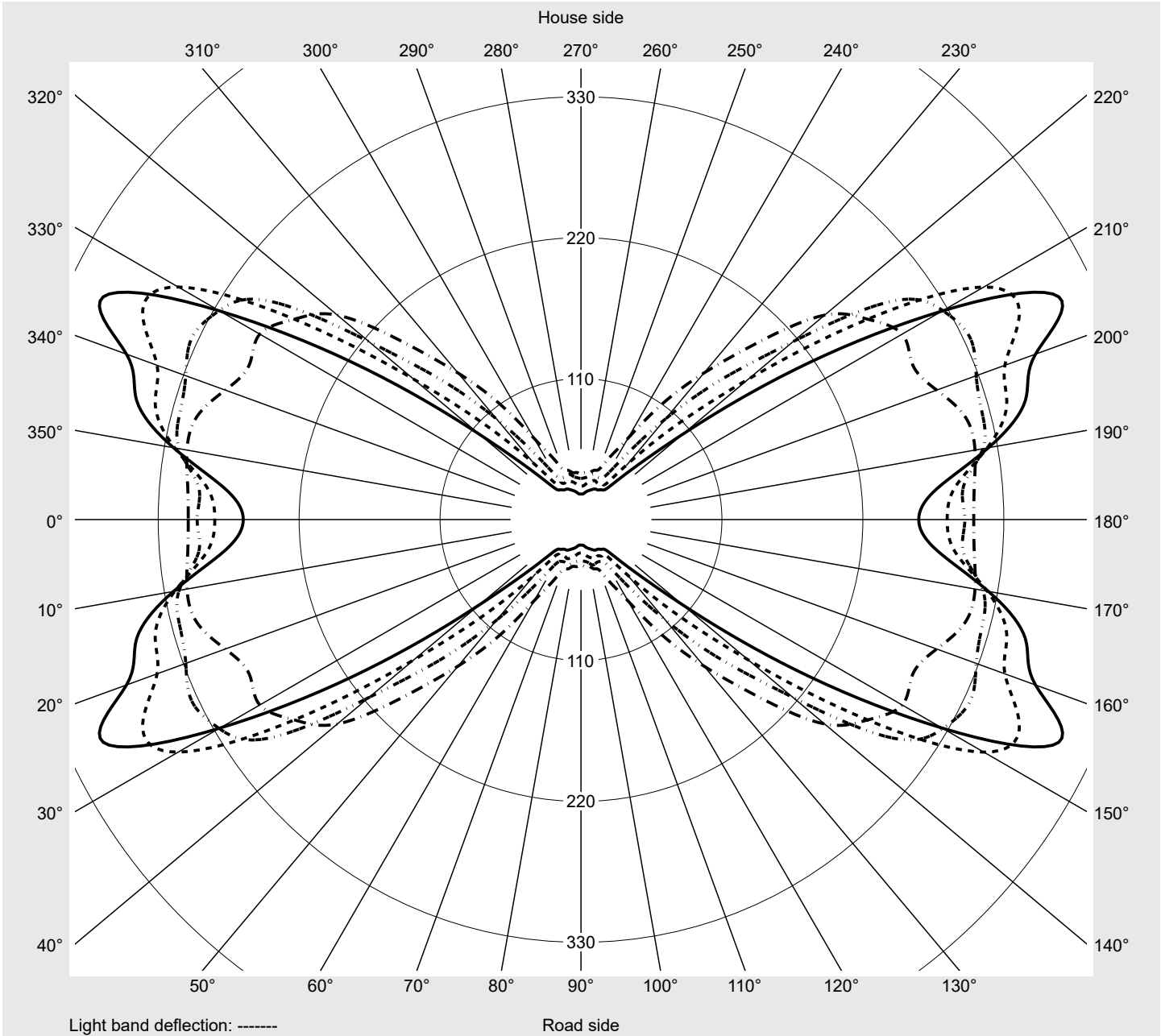
Measurement conditions

DIN EN 13032 and DIN 5032

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Family DL® 50 mini LED	Order number: 5XA248W41F08RE EAN: 4058352804247	LP number 59398_15
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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: 5XA248W41F08RE EAN: 4058352804247	LP number 59398_15
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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Family DL® 50 mini LED	Order number: 5XA248W41F08RE EAN: 4058352804247	LP number 59398_15
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

Photometric test report

Family DL® 50 mini LED	Order number: 5XA248W41F08RE EAN: 4058352804247	LP number 59398_15
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: 5XA248W41F08RE EAN: 4058352804247	LP number 59398_15
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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	5990	33.8	34.8	34.3
95	241	252	5683	31.9	32.9	32.4
90	229	250	5400	30.2	31.2	30.7
85	216	248	5094	28.3	29.2	28.8
80	203	246	4787	26.6	27.3	27.0
75	190	243	4481	24.8	25.5	25.2
70	178	241	4198	23.1	23.8	23.5
65	165	238	3891	21.3	22.0	21.6
60	152	235	3585	19.6	20.2	19.9
55	140	232	3302	18.0	18.5	18.2
50	127	229	2995	16.3	16.8	16.6
45	114	225	2688	14.6	15.0	14.8
40	102	221	2405	13.1	13.5	13.3
35	89	216	2099	11.5	11.8	11.6
30	76	210	1792	9.9	10.2	10.0
25	63	203	1486	8.4	8.6	8.5
20	51	195	1203	6.9	7.0	7.0
15	38	184	896	5.3	5.5	5.4
11	29	175	684	4.1	4.2	4.2