

Photometric test report

Family
DL® 50 mini LED

Order number: 5XA248V41F08FE
EAN: 4058352803899

LP number
59397_65



Version wire mounting
Optic direct, symmetric wide distribution
 S080001
Cover toughened safety glass
Lamps LED 4000 K | CRI ≥ 70
Controlgear ECG SITECO iQ
Rated values Net luminous flux = 2690 lm
 Power consumption = 15.7 W
 Luminous efficacy = 171.3 lm/W

serial
documentation
16.05.2023

siteco

Luminous intensity in cd/klm

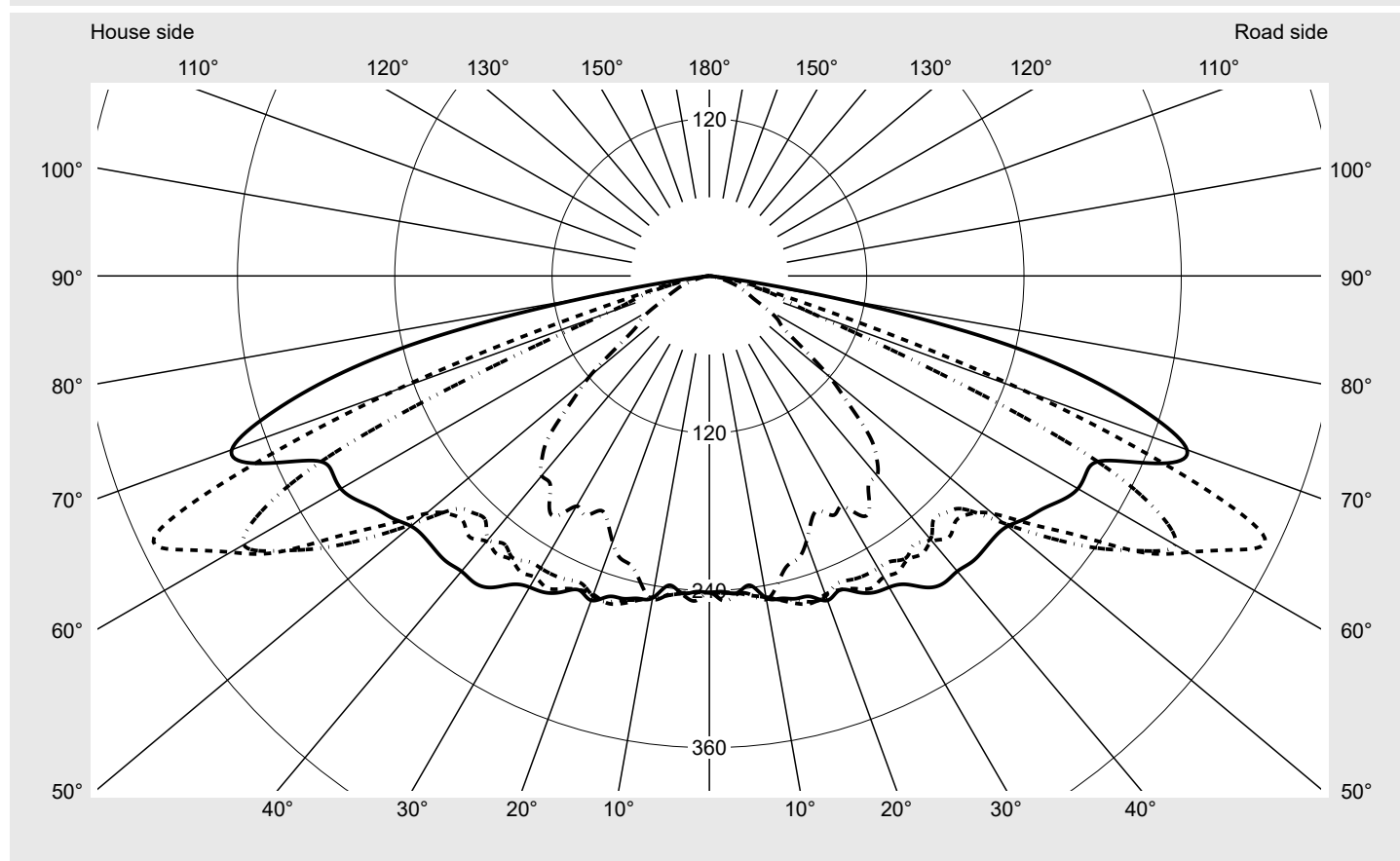
C180-0

C205-25

C210-30

C270-90

Imax: 466 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°	442.5
Imax 80°	96.9
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

Measurement conditions

DIN EN 13032 and DIN 5032

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Order number: **5XA248V41F08FE**
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Envelope curve in cd/klm

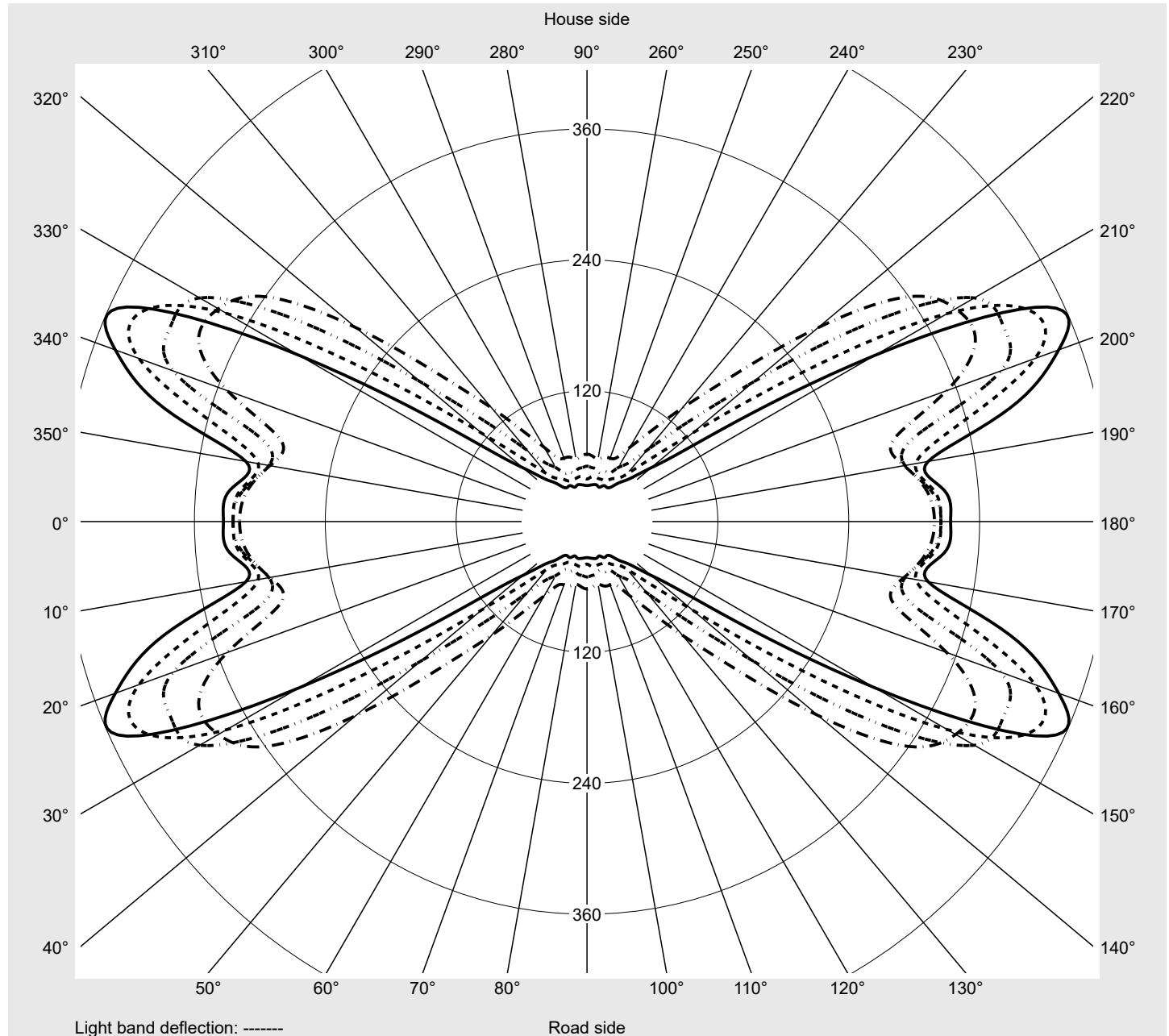
KMK 65°

KMK 62,5°

KMK 60°

KMK 57,5°

siteco



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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°	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6
2,5°	241.2	241.1	240.8	242.5	241.9	241.7	242.2	243.7	244.6	244.6	245.9	244.8	246.3
5,0°	242.8	243.5	243.5	243.6	244.4	242.9	243.3	243.7	242.7	241.3	240.8	239.4	242.2
7,5°	238.1	241.5	243.8	244.8	248.4	246.0	245.9	244.9	245.5	244.8	241.7	245.5	246.9
10,0°	249.5	248.4	250.1	247.4	250.3	248.8	249.1	246.5	245.8	247.1	246.4	244.6	243.4
12,5°	252.1	255.3	255.2	253.1	253.2	253.6	253.2	254.8	257.0	257.2	252.3	246.4	244.3
15,0°	254.9	252.2	252.9	256.6	257.3	258.8	256.3	256.5	253.3	249.0	245.8	242.3	240.2
17,5°	256.6	254.4	257.8	262.8	262.4	261.5	260.8	252.4	248.2	245.7	244.3	234.9	234.4
20,0°	263.5	259.6	259.8	262.9	258.6	258.6	259.9	253.4	249.0	242.8	235.3	229.1	228.7
22,5°	259.6	265.4	266.3	270.8	266.6	259.3	254.2	252.9	248.2	240.5	232.0	228.8	222.0
25,0°	266.1	265.6	266.0	273.9	270.4	263.3	255.8	254.2	247.3	235.1	228.1	218.4	216.8
27,5°	272.3	270.3	274.3	276.4	274.1	268.4	257.4	249.0	240.3	236.6	223.0	218.7	218.2
30,0°	274.3	276.3	274.7	282.2	272.9	265.7	257.4	249.7	237.6	223.0	218.6	222.0	224.8
32,5°	279.1	285.8	282.4	280.8	281.9	267.8	258.2	247.3	233.5	226.8	228.8	232.6	233.7
35,0°	290.3	287.4	285.4	283.4	277.2	264.1	262.2	245.0	233.4	234.6	241.4	244.5	240.2
37,5°	294.9	294.0	287.3	285.9	280.9	267.1	257.6	245.8	242.3	249.7	256.4	254.6	247.1
40,0°	294.3	293.1	290.2	282.7	276.0	264.4	262.3	241.4	249.3	272.3	267.4	266.7	256.9
42,5°	296.2	293.5	290.6	284.0	276.9	270.4	252.9	247.0	267.5	290.3	283.1	270.2	258.2
45,0°	295.8	290.3	294.5	286.0	272.9	265.3	255.5	267.9	291.8	305.0	291.0	268.1	249.1
47,5°	295.0	292.6	292.3	282.5	272.5	269.0	263.4	291.0	314.5	315.2	288.5	252.7	225.7
50,0°	297.1	294.1	292.8	281.3	275.1	282.1	293.8	319.9	330.3	310.0	272.2	233.8	196.6
52,5°	304.1	305.1	291.7	276.2	281.1	312.1	328.9	347.0	330.8	289.8	246.6	198.1	157.6
55,0°	310.1	307.1	295.6	282.4	308.8	346.7	362.2	357.9	313.0	259.8	196.1	148.4	119.6
57,5°	318.6	313.3	295.2	291.2	351.0	393.0	390.4	359.4	276.7	189.0	135.9	100.1	78.7
60,0°	324.7	317.2	296.1	316.7	404.0	421.7	410.2	318.5	199.2	125.8	85.1	65.2	57.1
62,5°	324.4	319.8	306.1	358.3	437.3	452.6	381.6	231.6	126.1	79.6	56.8	48.4	45.3
65,0°	333.4	328.8	317.7	401.2	460.3	465.6	304.9	133.7	76.8	55.9	46.9	38.8	36.2
67,5°	373.8	358.7	357.8	443.3	463.4	378.1	169.4	74.3	53.7	46.6	40.0	32.3	30.7
70,0°	387.7	355.9	381.1	442.5	410.6	254.5	84.1	56.6	44.6	38.2	32.4	29.1	27.5
72,5°	352.6	313.3	374.2	387.2	312.4	127.0	60.6	45.2	34.7	31.0	27.0	22.4	21.2
75,0°	295.8	254.0	298.3	269.9	189.5	58.5	44.3	33.1	23.8	23.3	20.4	17.3	15.0
77,5°	213.1	166.1	166.9	135.4	86.6	37.0	26.6	19.3	16.2	16.9	14.8	13.2	12.8
80,0°	96.9	65.3	52.3	44.1	34.0	21.5	14.3	10.7	10.7	10.0	9.3	8.0	7.9
82,5°	18.6	14.2	11.4	7.8	7.3	5.9	4.4	4.3	4.9	5.0	4.9	4.0	4.1
85,0°	1.2	1.1	1.2	1.2	1.1	1.2	1.2	1.3	1.4	1.7	1.5	1.4	1.1
87,5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	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: 5XA248V41F08FE EAN: 4058352803899										LP number 59397_65	
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°	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6
2,5°	245.8	247.0	246.8	247.4	246.5	248.2	241.1	240.8	242.5	241.9	241.7	242.2	243.7
5,0°	244.4	244.1	243.7	243.4	243.7	243.8	243.5	243.5	243.6	244.4	242.9	243.3	243.7
7,5°	246.6	247.7	246.9	245.7	247.0	245.5	241.5	243.8	244.8	248.4	246.0	245.9	244.9
10,0°	245.6	248.3	247.7	247.9	246.2	250.6	248.4	250.1	247.4	250.3	248.8	249.1	246.5
12,5°	243.9	244.4	242.6	238.4	240.2	240.7	255.3	255.2	253.1	253.2	253.6	253.2	254.8
15,0°	238.2	232.0	230.8	232.5	229.9	229.1	252.2	252.9	256.6	257.3	258.8	256.3	256.5
17,5°	231.3	225.1	223.8	224.2	226.4	225.9	254.4	257.8	262.8	262.4	261.5	260.8	252.4
20,0°	227.0	220.6	219.2	215.6	213.7	216.0	259.6	259.8	262.9	258.6	258.6	259.9	253.4
22,5°	218.8	212.2	207.8	207.9	206.6	202.9	265.4	266.3	270.8	266.6	259.3	254.2	252.9
25,0°	212.1	207.5	204.6	199.8	202.4	197.5	265.6	266.0	273.9	270.4	263.3	255.8	254.2
27,5°	211.2	212.3	210.7	211.8	207.1	205.8	270.3	274.3	276.4	274.1	268.4	257.4	249.0
30,0°	219.8	217.5	214.8	212.9	212.7	202.9	276.3	274.7	282.2	272.9	265.7	257.4	249.7
32,5°	229.5	224.0	219.5	217.8	213.2	217.3	285.8	282.4	280.8	281.9	267.8	258.2	247.3
35,0°	235.7	227.9	220.7	218.2	210.1	212.9	287.4	285.4	283.4	277.2	264.1	262.2	245.0
37,5°	237.8	229.2	218.5	211.9	208.8	199.7	294.0	287.3	285.9	280.9	267.1	257.6	245.8
40,0°	240.5	229.5	218.1	209.6	206.1	198.9	293.1	290.2	282.7	276.0	264.4	262.3	241.4
42,5°	238.5	224.4	210.4	205.3	196.4	189.0	293.5	290.6	284.0	276.9	270.4	252.9	247.0
45,0°	224.0	203.5	188.9	176.3	169.8	172.8	290.3	294.5	286.0	272.9	265.3	255.5	267.9
47,5°	198.1	177.6	164.7	153.5	143.3	143.4	292.6	292.3	282.5	272.5	269.0	263.4	291.0
50,0°	166.6	147.6	134.5	124.1	119.1	119.4	294.1	292.9	281.3	275.1	282.1	293.8	319.9
52,5°	132.7	117.0	103.6	95.9	88.3	87.7	305.1	291.7	276.2	281.1	312.1	328.9	347.0
55,0°	94.7	83.7	76.4	73.6	70.1	68.4	307.1	295.6	282.4	308.8	346.7	362.2	357.9
57,5°	64.8	61.9	61.2	58.4	60.1	61.8	313.3	295.2	291.2	351.0	393.0	390.4	359.4
60,0°	48.7	48.8	46.1	48.8	49.7	50.8	317.2	296.1	316.7	404.0	421.7	410.2	318.5
62,5°	41.2	40.9	40.8	41.7	41.1	39.0	319.8	306.1	358.3	437.3	452.6	381.6	231.6
65,0°	36.4	33.5	34.6	34.4	33.6	33.1	328.8	317.7	401.2	460.3	465.6	304.9	133.7
67,5°	32.2	30.0	28.9	29.5	27.9	27.6	358.7	357.8	443.3	463.4	378.1	169.4	74.3
70,0°	27.5	26.3	24.9	24.6	22.4	23.1	355.9	381.1	442.5	410.6	254.5	84.1	56.6
72,5°	20.6	20.3	19.8	18.7	18.1	17.2	313.3	374.2	387.2	312.4	127.0	60.6	45.2
75,0°	15.2	13.2	12.7	12.5	12.0	12.0	254.0	298.3	269.9	189.5	58.5	44.3	33.1
77,5°	11.0	8.8	7.7	7.4	7.1	7.0	166.1	166.9	135.4	86.6	37.0	26.6	19.3
80,0°	6.9	6.4	5.1	4.3	4.4	4.3	65.3	52.3	44.1	34.0	21.5	14.3	10.7
82,5°	3.5	3.5	2.6	2.3	2.1	2.1	14.2	11.4	7.8	7.3	5.9	4.4	4.3
85,0°	1.3	1.1	0.8	0.8	0.7	0.8	1.1	1.2	1.2	1.1	1.2	1.2	1.3
87,5°	0.2	0.2	0.2	0.1	0.1	0.1	0.3	0.3	0.3	0.3	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: 5XA248V41F08FE EAN: 4058352803899								LP number 59397_65	
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°	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6	0.4	0.4
2,5°	244.6	244.6	245.9	244.8	246.3	245.8	247.0	246.8	247.4	246.5	248.2	2.9	3.3
5,0°	242.7	241.3	240.8	239.4	242.2	244.4	244.1	243.7	243.4	243.7	243.8	5.8	9.1
7,5°	245.5	244.8	241.7	245.5	246.9	246.6	247.7	246.9	245.7	247.0	245.5	8.8	17.9
10,0°	245.8	247.1	246.4	244.6	243.4	245.6	248.3	247.7	247.9	246.2	250.6	11.8	29.6
12,5°	257.0	257.2	252.3	246.4	244.3	243.9	244.4	242.6	238.4	240.2	240.7	14.8	44.4
15,0°	253.3	249.0	245.8	242.3	240.2	238.2	232.0	230.8	232.5	229.9	229.1	17.4	61.9
17,5°	248.2	245.7	244.3	234.9	234.4	231.3	225.1	223.8	224.2	226.4	225.9	20.1	82.0
20,0°	249.0	242.8	235.3	229.1	228.7	227.0	220.6	219.2	215.6	213.7	216.0	22.6	104.6
22,5°	248.2	240.5	232.0	228.8	222.0	218.8	212.2	207.8	207.9	206.6	202.9	25.0	129.6
25,0°	247.3	235.1	228.1	218.4	216.8	212.1	207.5	204.6	199.8	202.4	197.5	27.4	157.0
27,5°	240.3	236.6	223.0	218.7	218.2	211.2	212.3	210.7	211.8	207.1	205.8	30.2	187.2
30,0°	237.6	223.0	218.6	222.0	224.8	219.8	217.5	214.8	212.9	212.7	202.9	32.9	220.1
32,5°	233.5	226.8	228.8	232.6	233.7	229.5	224.0	219.5	217.8	213.2	217.3	36.1	256.2
35,0°	233.4	234.6	241.4	244.5	240.2	235.7	227.9	220.7	218.2	210.1	212.9	39.0	295.2
37,5°	242.3	249.7	256.4	254.6	247.1	237.8	229.2	218.5	211.9	208.8	199.7	41.9	337.1
40,0°	249.3	272.3	267.4	266.7	256.9	240.5	229.5	218.1	209.6	206.1	198.9	44.8	381.9
42,5°	267.5	290.3	283.1	270.2	258.2	238.5	224.4	210.4	205.3	196.4	189.0	47.4	429.2
45,0°	291.8	305.0	291.0	268.1	249.1	224.0	203.5	188.9	176.3	169.8	172.8	48.8	478.1
47,5°	314.5	315.2	288.5	252.7	225.7	198.1	177.6	164.7	153.5	143.3	143.4	49.6	527.7
50,0°	330.3	310.0	272.2	233.8	196.6	166.6	147.6	134.5	124.1	119.1	119.4	50.0	577.6
52,5°	330.8	289.8	246.6	198.1	157.6	132.7	117.0	103.6	95.9	88.3	87.7	49.5	627.1
55,0°	313.0	259.8	196.1	148.4	119.6	94.7	83.7	76.4	73.6	70.1	68.4	48.5	675.6
57,5°	276.7	189.0	135.9	100.1	78.7	64.8	61.9	61.2	58.4	60.1	61.8	47.1	722.8
60,0°	199.2	125.8	85.1	65.2	57.1	48.7	48.8	46.1	48.8	49.7	50.8	45.5	768.2
62,5°	126.1	79.6	56.8	48.4	45.3	41.2	40.9	40.8	41.7	41.1	39.0	43.6	811.9
65,0°	76.8	55.9	46.9	38.8	36.2	36.4	33.5	34.6	34.4	33.6	33.1	41.7	853.6
67,5°	53.7	46.6	40.0	32.3	30.7	32.2	30.0	28.9	29.5	27.9	27.6	39.4	892.9
70,0°	44.6	38.2	32.4	29.1	27.5	27.5	26.3	24.9	24.6	22.4	23.1	35.6	928.5
72,5°	34.7	31.0	27.0	22.4	21.2	20.6	20.3	19.8	18.7	18.1	17.2	29.6	958.2
75,0°	23.8	23.3	20.4	17.3	15.0	15.2	13.2	12.7	12.5	12.0	12.0	21.6	979.7
77,5°	16.2	16.9	14.8	13.2	12.8	11.0	8.8	7.7	7.4	7.1	7.0	12.8	992.6
80,0°	10.7	10.0	9.3	8.0	7.9	6.9	6.4	5.1	4.3	4.4	4.3	5.5	998.1
82,5°	4.9	5.0	4.9	4.0	4.1	3.5	3.5	2.6	2.3	2.1	2.1	1.5	999.6
85,0°	1.4	1.7	1.5	1.4	1.1	1.3	1.1	0.8	0.8	0.7	0.8	0.3	999.9
87,5°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	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: 5XA248V41F08FE EAN: 4058352803899	LP number 59397_65
Dimming levels table	environmental temperature: 25°C	siteco

Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]start of lifetime	Power consumption [W]end of lifetime	Power consumption [W]average
100	254	254	2690	15.7	16.1	15.9
95	241	252	2552	14.8	15.3	15.0
90	229	250	2425	14.1	14.5	14.3
85	216	248	2288	13.3	13.7	13.5
80	203	246	2150	12.5	12.9	12.7
75	190	243	2012	11.7	12.0	11.8
70	178	241	1885	11.0	11.3	11.2
65	165	238	1747	10.2	10.5	10.4
60	152	235	1610	9.5	9.7	9.6
55	140	232	1483	8.8	9.0	8.9
50	127	229	1345	8.1	8.3	8.2
45	114	225	1207	7.4	7.5	7.4
40	102	221	1080	6.7	6.8	6.8
35	89	216	943	6.0	6.1	6.0
30	76	210	805	5.3	5.5	5.4
25	63	203	667	4.7	4.7	4.7
21	54	197	572	4.2	4.3	4.2