

Photometric test report

Family
DL® 20 LED

Order number: 5XA51283NR008P
EAN: 4058352271827

LP number
59488_29



Version post-top mounting
Optic asymmetric, extremely wide distribution (P1.0a)
Cover toughened safety glass
Lamps LED 4000 K | CRI ≥ 70
Controlgear ECG Plus
Rated values Net luminous flux = 5360 lm
Power consumption = 41.9 W
Luminous efficacy = 127.9 lm/W

serial
documentation
07.12.2023

siteco

Luminous intensity in cd/klm

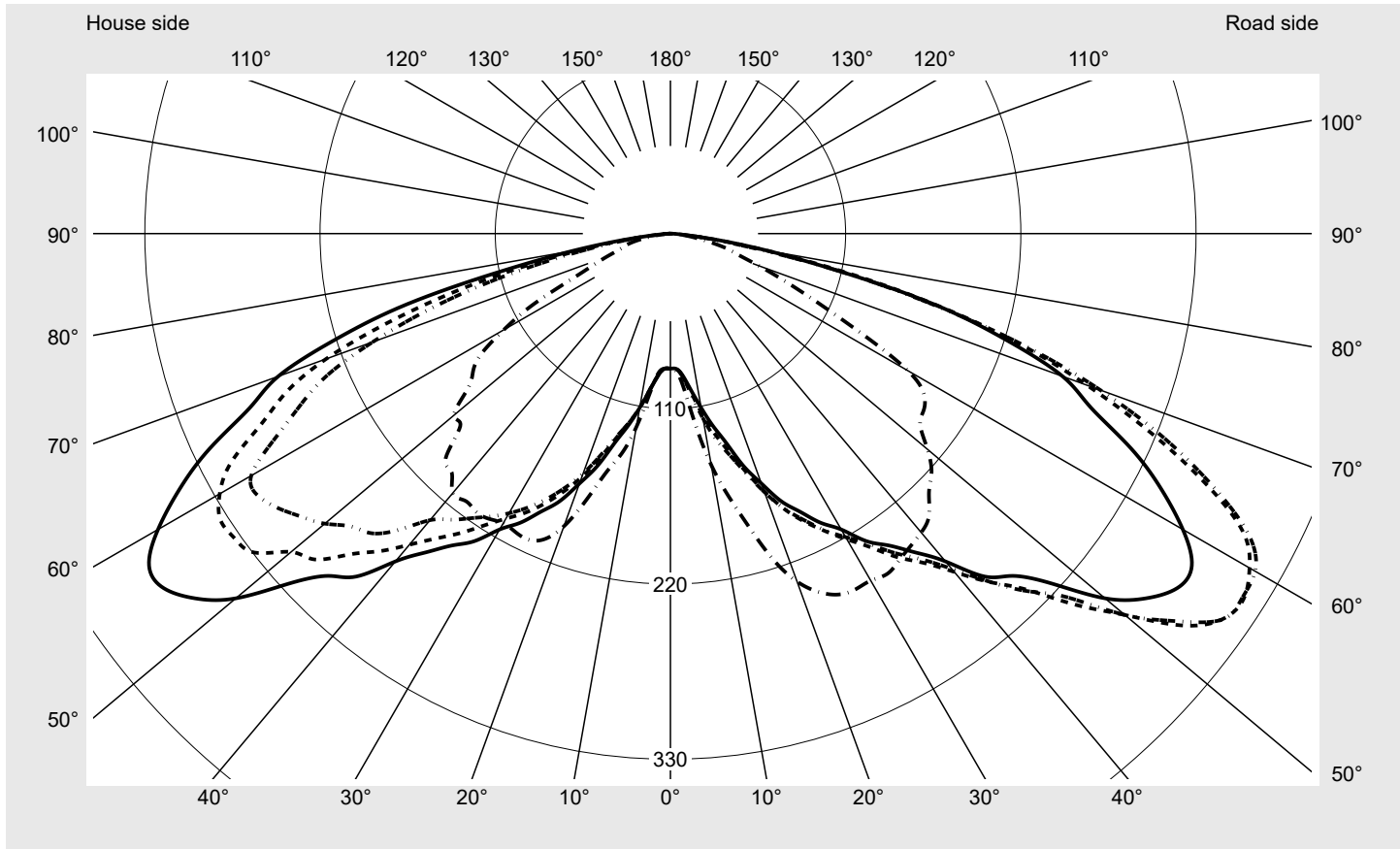
C180-0

C190-10

C195-15

C270-90

Imax: 427 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:	G6
Imax 70°	291.0
Imax 80°	62.7
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

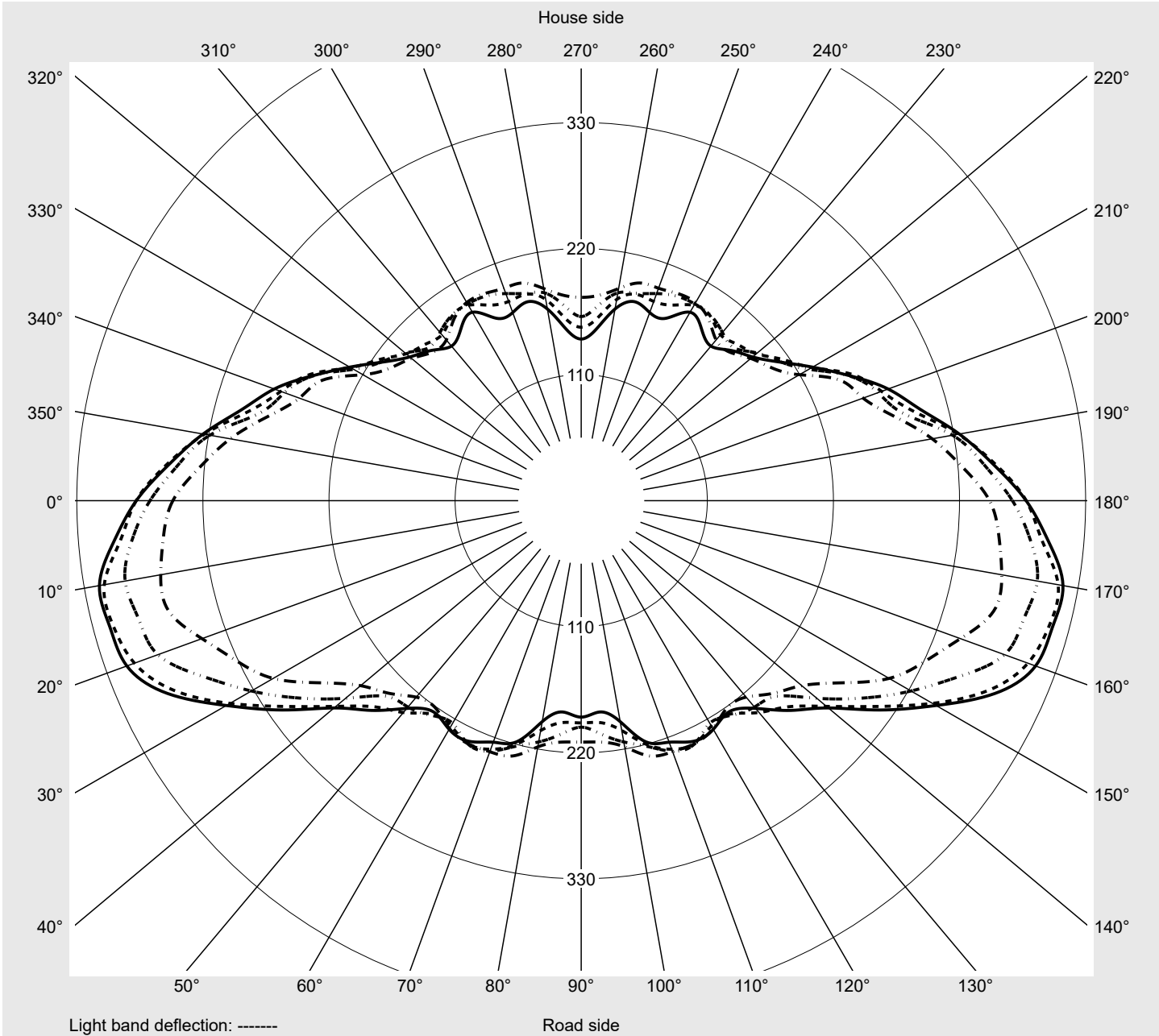
Measurement conditions

DIN EN 13032 and DIN 5032

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Envelope curve in cd/klm **KMK 57.5°** **KMK 55°** **KMK 52.5°** **KMK 50°** **siteco**



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Family DL® 20 LED	Order number: 5XA51283NR008P EAN: 4058352271827	LP number 59488_29
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°	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
2,5°	85.0	85.0	85.0	85.2	85.3	85.2	85.4	85.5	85.6	85.8	85.9	85.9	86.3
5,0°	89.6	90.0	90.3	90.7	91.2	91.5	92.1	92.8	93.3	94.0	94.6	95.0	95.9
7,5°	99.2	100.0	100.9	102.4	103.9	105.3	107.1	108.9	110.4	112.3	113.5	114.8	116.5
10,0°	111.0	113.0	115.1	117.8	120.6	123.2	126.3	128.3	130.1	132.8	133.7	135.2	138.1
12,5°	123.8	126.0	128.8	132.2	135.0	137.9	141.4	142.9	144.3	146.7	147.1	148.7	152.2
15,0°	136.5	139.0	141.6	144.0	145.8	149.2	153.2	155.7	158.6	162.2	163.6	166.4	170.9
17,5°	153.2	154.7	156.3	157.7	160.1	164.8	170.0	174.1	178.6	183.3	186.6	191.1	196.4
20,0°	166.9	170.5	172.1	172.8	175.4	180.4	185.2	188.7	191.6	194.3	199.1	205.0	210.5
22,5°	181.9	185.6	187.3	187.0	189.0	192.2	195.0	197.4	198.3	199.7	205.0	211.5	217.2
25,0°	192.7	198.4	199.6	198.4	199.5	200.0	201.1	203.7	203.4	203.7	209.1	215.5	221.9
27,5°	204.8	209.3	210.6	209.9	209.4	206.7	206.3	208.8	209.1	208.8	212.2	219.0	227.0
30,0°	214.5	219.4	221.7	220.0	216.5	213.4	211.2	212.8	215.2	212.8	216.1	223.7	231.4
32,5°	228.9	232.4	233.4	230.7	227.6	223.1	216.4	218.2	222.3	218.5	219.7	227.9	235.4
35,0°	239.0	245.8	247.9	244.5	242.1	232.3	225.2	226.8	229.3	223.7	222.1	228.7	235.2
37,5°	252.2	260.1	260.4	257.5	258.2	248.8	237.4	237.1	234.5	227.7	226.7	231.0	235.0
40,0°	268.7	277.0	277.2	274.7	277.0	262.4	250.3	247.3	240.1	233.8	232.7	234.4	239.7
42,5°	292.0	292.6	296.7	296.4	294.2	278.8	260.6	251.5	243.8	233.0	234.0	234.8	237.4
45,0°	303.9	311.1	316.0	317.5	313.1	292.9	276.4	260.2	246.0	232.1	231.5	233.3	235.5
47,5°	325.4	337.3	344.8	337.9	328.1	311.5	289.8	267.6	245.4	230.2	228.4	226.4	229.5
50,0°	356.2	365.9	372.5	372.5	352.0	331.3	310.2	277.1	251.2	237.6	223.8	221.2	229.8
52,5°	376.2	393.3	404.0	399.6	393.0	363.4	332.2	300.3	268.3	241.3	235.1	228.6	224.3
55,0°	388.2	403.7	422.5	422.6	414.7	391.8	353.8	313.1	279.3	254.5	241.3	227.2	227.0
57,5°	388.1	409.2	426.7	425.7	421.8	398.1	357.5	318.5	281.4	258.8	236.7	224.9	230.4
60,0°	371.5	398.9	419.8	423.9	418.9	391.5	349.4	304.2	268.0	244.3	218.8	215.6	225.7
62,5°	347.5	376.5	405.2	409.3	399.8	375.5	330.2	279.9	244.1	213.1	188.6	193.0	198.9
65,0°	319.1	340.2	370.3	376.1	367.6	347.2	308.8	252.6	215.5	183.9	160.5	170.1	162.8
67,5°	285.9	303.0	326.3	335.6	331.5	310.6	275.2	221.8	195.7	160.5	130.9	142.4	125.7
70,0°	262.1	266.9	278.4	287.3	291.0	272.8	233.9	190.1	169.6	132.3	99.9	110.8	95.1
72,5°	219.8	223.5	229.2	231.6	238.8	229.8	187.3	155.5	138.1	105.1	82.1	80.2	68.6
75,0°	171.0	169.4	171.8	167.8	172.9	173.4	139.2	116.0	108.9	84.3	63.9	56.5	52.5
77,5°	107.7	114.4	112.8	108.2	107.3	109.5	86.8	71.4	76.7	57.3	44.4	39.5	37.5
80,0°	61.9	62.7	61.1	54.6	54.0	59.6	39.6	34.0	43.6	27.7	22.9	22.2	22.8
82,5°	27.6	27.0	26.5	24.1	22.0	27.1	15.6	14.5	22.1	10.9	10.3	11.0	12.2
85,0°	8.1	7.4	6.9	6.6	6.3	9.8	6.0	5.4	9.0	4.8	4.5	4.6	4.9
87,5°	2.2	2.1	2.1	2.0	2.0	2.2	1.8	1.8	2.0	1.6	1.6	1.6	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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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°	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
2,5°	86.4	86.4	86.7	86.7	86.7	86.8	84.8	84.8	84.9	84.8	84.7	84.8	84.6
5,0°	96.3	96.6	97.3	97.2	97.5	97.9	89.6	89.5	89.4	89.1	89.1	89.1	88.9
7,5°	117.4	118.4	119.8	119.9	120.4	121.4	98.8	98.7	98.8	99.0	99.4	99.7	100.2
10,0°	139.0	140.9	143.9	144.6	146.0	147.5	110.7	110.8	111.1	111.6	112.6	114.0	115.4
12,5°	153.7	156.9	162.1	164.1	166.6	169.1	122.7	122.2	122.2	122.4	123.3	125.1	126.6
15,0°	173.0	177.0	182.5	184.8	187.8	190.7	135.3	133.6	132.5	131.8	132.5	134.7	136.5
17,5°	199.9	204.5	209.3	211.2	213.0	214.6	150.5	148.1	146.0	145.5	147.5	150.7	152.8
20,0°	216.7	222.7	227.0	230.6	232.2	232.5	165.4	162.4	160.3	160.5	162.6	165.8	167.2
22,5°	225.4	232.4	237.2	242.2	244.1	243.6	178.4	175.3	172.6	172.5	173.0	173.6	174.6
25,0°	231.4	237.6	241.5	247.2	250.0	250.0	190.2	187.1	183.8	182.3	179.6	178.8	180.8
27,5°	236.4	240.6	243.5	250.0	253.2	251.7	200.9	197.6	193.9	190.7	185.4	183.9	184.8
30,0°	239.3	241.7	244.2	250.1	252.8	251.6	211.6	206.6	202.7	197.8	193.1	189.9	188.4
32,5°	240.5	244.3	245.8	248.2	252.1	253.3	223.2	217.1	210.6	205.6	199.9	194.5	189.5
35,0°	242.0	245.8	245.8	245.5	248.1	250.4	236.4	229.4	218.1	212.5	205.7	196.8	191.8
37,5°	240.8	243.3	242.8	243.9	245.7	247.5	247.4	241.1	226.4	218.5	214.8	203.6	197.9
40,0°	243.0	242.9	241.3	243.1	244.3	244.9	261.9	255.0	234.8	228.5	223.3	210.2	207.7
42,5°	242.3	243.5	242.7	241.5	242.8	240.3	281.1	270.4	252.1	239.3	232.4	212.9	206.9
45,0°	241.1	241.5	237.4	239.2	235.1	229.6	294.1	284.8	265.9	246.2	233.5	216.3	200.5
47,5°	243.2	235.3	231.2	233.6	225.9	222.4	314.7	302.8	272.1	255.9	241.4	216.3	199.9
50,0°	233.9	233.2	230.6	218.2	211.6	210.7	334.0	310.9	283.3	261.7	248.9	219.8	202.4
52,5°	234.1	232.7	222.0	213.8	204.7	197.7	353.3	329.0	292.0	275.6	257.8	229.3	211.7
55,0°	234.0	230.8	220.2	203.7	194.5	194.0	362.8	333.8	300.6	278.9	260.8	232.3	214.8
57,5°	231.7	224.3	217.9	195.8	185.1	188.9	361.1	334.9	306.7	284.9	258.2	233.1	211.0
60,0°	217.5	209.8	211.0	180.9	164.1	172.2	349.9	326.7	303.9	279.1	249.8	222.2	196.9
62,5°	193.3	185.0	177.2	155.6	136.2	133.9	331.1	310.9	280.8	253.3	227.8	197.5	169.3
65,0°	160.7	156.3	135.0	118.7	107.7	101.0	305.6	283.8	257.2	230.6	203.7	173.9	146.0
67,5°	124.5	131.5	97.5	88.5	87.9	77.4	277.9	261.6	233.8	209.2	186.1	154.9	127.6
70,0°	87.1	97.6	70.5	67.2	69.1	58.9	247.4	230.1	198.8	177.6	161.3	133.7	108.4
72,5°	60.3	63.7	51.4	50.1	50.1	45.1	206.9	186.0	159.9	143.6	134.8	108.6	85.2
75,0°	46.9	44.6	41.7	40.4	36.9	37.2	154.2	138.8	118.3	105.8	102.4	79.7	60.4
77,5°	34.8	31.9	32.1	30.5	28.3	26.8	102.4	91.8	76.9	70.0	71.0	51.1	38.7
80,0°	22.4	21.2	21.6	21.1	19.0	17.3	56.8	52.6	44.7	39.6	42.9	23.7	20.2
82,5°	12.3	11.6	12.2	11.8	10.7	10.3	25.8	24.7	21.0	18.6	22.1	11.7	9.3
85,0°	5.1	5.0	5.0	5.0	4.7	4.7	7.4	7.3	6.5	6.3	8.4	5.0	4.0
87,5°	1.6	1.5	1.6	1.5	1.4	1.4	2.2	2.2	2.1	2.0	2.1	1.8	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

Photometric test report

Family DL® 20 LED	Order number: 5XA51283NR008P EAN: 4058352271827	LP number 59488_29
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°	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	0.1	0.1
2,5°	84.6	84.6	84.6	84.5	84.6	84.6	84.5	84.7	84.6	84.5	84.8	1.0	1.1
5,0°	89.0	88.8	88.7	88.5	88.4	88.2	88.0	88.0	87.8	87.8	88.1	2.2	3.3
7,5°	100.8	101.2	101.5	101.8	102.1	102.0	102.0	102.1	101.8	101.8	102.1	3.8	7.1
10,0°	116.9	118.3	119.2	120.2	121.8	122.0	122.2	123.0	122.4	122.4	123.3	5.9	13.0
12,5°	128.2	130.5	131.7	133.5	136.3	136.6	137.5	140.0	139.9	140.4	141.4	8.2	21.2
15,0°	137.6	140.2	141.8	143.8	147.4	148.5	150.0	152.9	153.0	153.6	154.9	10.8	32.0
17,5°	153.6	155.4	157.5	160.0	164.8	167.2	169.4	172.7	173.5	174.0	175.1	14.1	46.1
20,0°	167.3	167.9	170.0	173.7	179.3	183.5	186.8	190.7	193.5	195.0	195.5	17.5	63.6
22,5°	174.8	174.7	177.2	182.0	186.7	192.1	197.8	201.7	206.1	207.7	207.8	20.6	84.2
25,0°	179.9	178.4	182.3	187.5	191.3	197.2	203.4	207.7	211.9	212.9	211.9	23.6	107.8
27,5°	182.1	181.5	187.1	192.0	193.6	200.1	208.0	212.2	217.6	216.3	211.1	26.5	134.2
30,0°	184.4	184.0	190.7	193.8	194.9	201.6	209.0	216.0	221.5	216.5	209.9	29.3	163.5
32,5°	185.6	187.1	193.6	195.0	197.3	202.3	210.2	217.7	221.3	217.0	212.3	32.2	195.7
35,0°	189.4	191.3	197.1	196.9	200.2	202.8	210.3	217.0	219.5	215.4	213.0	35.1	230.8
37,5°	195.1	196.5	197.6	198.7	202.4	205.4	210.6	217.3	217.0	213.1	211.5	38.1	268.8
40,0°	201.9	193.2	195.9	198.5	203.8	207.5	213.6	219.6	218.8	214.9	212.8	41.4	310.2
42,5°	196.5	191.5	193.9	196.4	203.0	208.2	210.4	217.9	212.7	208.0	203.3	44.3	354.5
45,0°	189.1	187.4	186.8	190.8	200.7	204.8	203.1	209.4	205.5	200.9	199.6	46.8	401.3
47,5°	190.3	182.9	185.2	190.8	196.7	200.7	200.7	198.1	201.3	190.2	179.0	49.5	450.8
50,0°	193.1	183.3	183.1	193.5	199.7	199.4	197.3	196.7	187.9	180.0	177.4	52.5	503.3
52,5°	200.5	188.5	191.6	197.2	198.2	197.0	192.3	187.4	184.1	170.9	160.7	56.2	559.5
55,0°	199.4	192.8	189.0	196.5	196.9	188.3	185.0	186.4	178.3	159.7	151.4	59.0	618.5
57,5°	195.1	185.3	176.1	183.0	189.9	175.7	174.7	179.8	169.8	150.2	141.0	60.2	678.6
60,0°	180.8	174.5	161.1	169.4	176.8	161.4	161.1	163.6	151.7	128.5	120.8	58.9	737.6
62,5°	155.4	148.2	135.0	146.4	149.8	136.7	145.6	139.5	120.9	102.7	98.8	54.5	792.1
65,0°	137.5	125.2	108.7	112.1	107.6	103.9	116.2	104.2	87.5	76.1	70.6	48.4	840.5
67,5°	124.8	105.1	87.0	87.7	79.7	79.3	91.9	76.6	57.6	55.2	53.7	42.5	883.0
70,0°	105.0	84.0	64.3	68.2	53.1	55.2	67.3	55.8	44.5	42.9	42.8	36.0	919.0
72,5°	81.5	66.9	46.6	44.5	37.3	37.1	46.8	40.8	37.2	35.0	33.9	29.1	948.1
75,0°	62.9	52.4	34.8	29.8	29.2	29.8	31.9	32.3	32.5	29.9	29.4	22.2	970.3
77,5°	45.9	34.6	22.1	21.7	21.9	22.9	23.3	25.7	26.7	24.3	23.7	15.1	985.3
80,0°	26.9	17.1	13.5	14.1	15.2	16.0	16.1	17.6	18.4	16.9	16.1	8.6	993.9
82,5°	13.3	7.7	7.0	7.7	9.1	9.2	9.2	9.9	10.4	9.6	9.3	4.1	998.0
85,0°	6.4	3.7	3.5	3.7	4.0	4.1	4.0	4.1	4.2	4.0	3.9	1.5	999.5
87,5°	2.0	1.5	1.5	1.5	1.5	1.5	1.3	1.3	1.3	1.2	1.2	0.5	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® 20 LED	Order number: 5XA51283NR008P EAN: 4058352271827	LP number 59488_29
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Dimming levels table	environmental temperature: 25°C	siteco
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Luminous flux %	Dimming level linear	Luminous flux [lm]	Power consumption [W] start of lifetime	Power consumption [W] end of lifetime	Power consumption [W] average
100	254	5360	41.9	43.0	42.4
95	240	5085	39.5	40.5	40.0
90	227	4828	37.3	38.4	37.8
85	213	4548	35.0	35.9	35.4
80	200	4286	32.9	33.8	33.3
75	187	4022	30.7	31.6	31.2
70	174	3758	28.7	29.4	29.0
65	161	3490	26.6	27.3	27.0
60	148	3219	24.5	25.2	24.8
55	135	2947	22.5	23.1	22.8
50	122	2672	20.4	21.0	20.7
45	110	2417	18.6	19.0	18.8
40	97	2138	16.6	17.0	16.8
35	85	1878	14.8	15.1	15.0
30	73	1617	13.0	13.3	13.2
25	60	1332	11.1	11.4	11.2
20	48	1067	9.4	9.6	9.5
15	36	799	7.6	7.8	7.7
12	28	619	6.5	6.6	6.6