

## Photometric test report

Family  
DL® 20 LED

Order number: 5XA51283NR008  
EAN: 4058352271803

LP number  
59488\_32



**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 = 3040 lm  
Power consumption = 23.2 W  
Luminous efficacy = 131 lm/W

serial  
documentation  
09.01.2024

sitEco

Luminous intensity in cd/klm

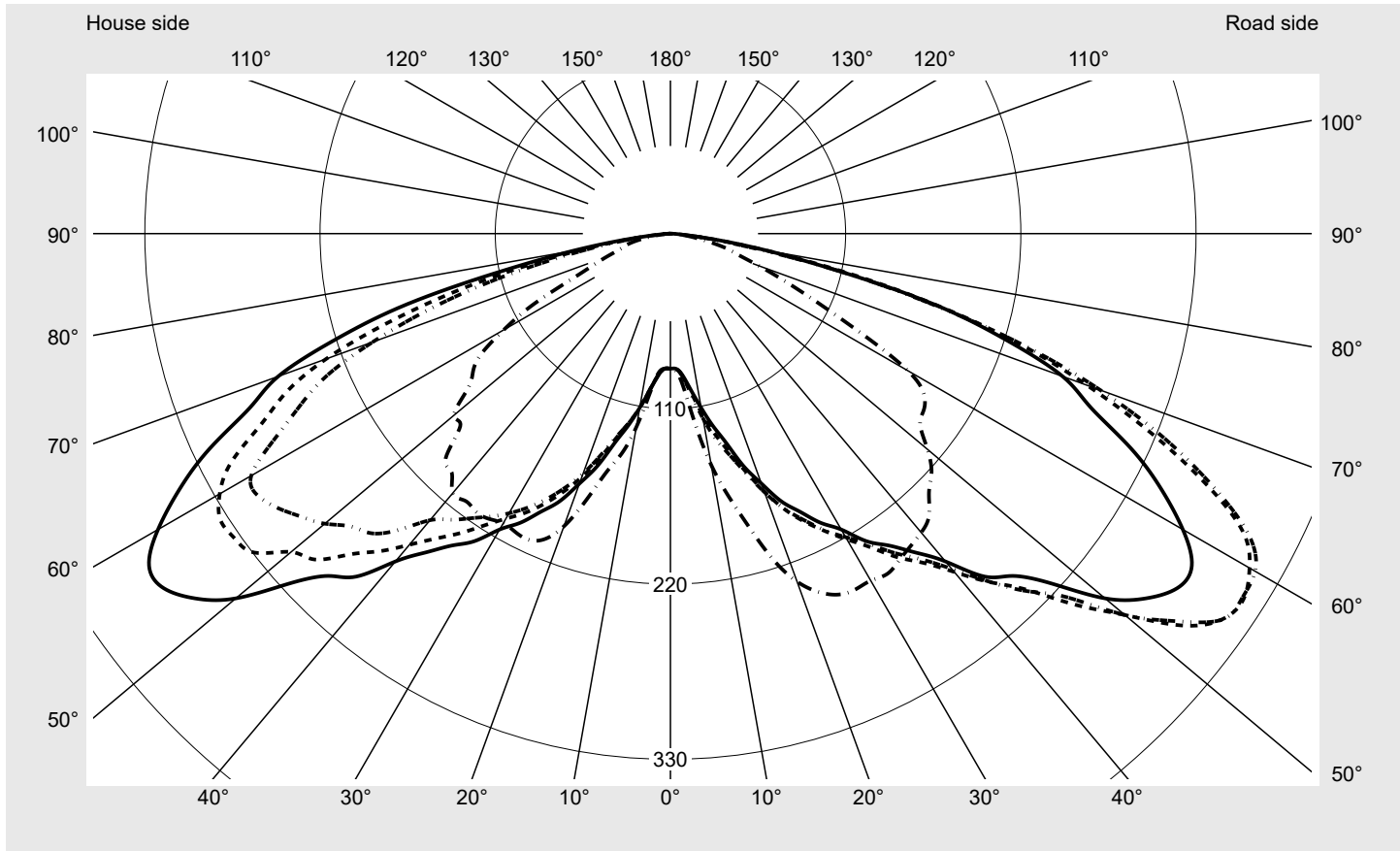
**C180-0**

**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

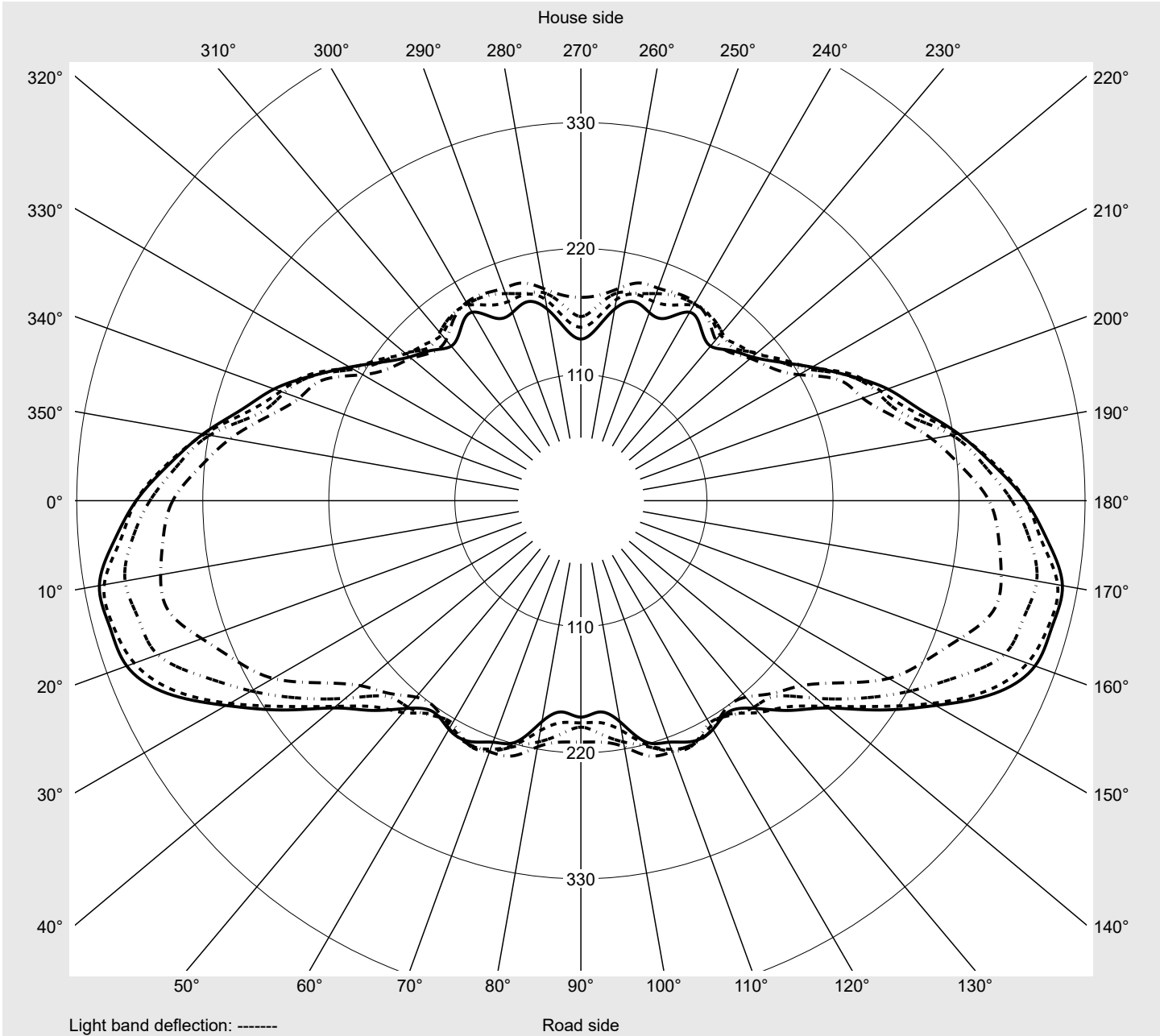
**Measurement conditions**

DIN EN 13032 and DIN 5032

**Photometric test report**

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



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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
<b>siteco</b>		

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°
$\gamma$	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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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
<b>siteco</b>		

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

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>sITeco</b>

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

<b>Family</b> DL® 20 LED	<b>Order number: 5XA51283NR008</b> <b>EAN: 4058352271803</b>	<b>LP number</b> 59488_32
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<b>Dimming levels table</b>	environmental temperature: 25°C	<b>sITeco</b>
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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	3040	23.2	23.7	23.4
95	241	2890	22.0	22.6	22.3
90	228	2739	20.9	21.4	21.2
85	215	2588	19.8	20.3	20.0
80	202	2436	18.7	19.1	18.9
75	189	2284	17.6	18.0	17.8
70	176	2130	16.5	16.9	16.7
65	163	1975	15.4	15.8	15.6
60	150	1821	14.3	14.7	14.5
55	138	1677	13.4	13.7	13.6
50	125	1521	12.4	12.6	12.5
45	112	1365	11.3	11.6	11.4
40	100	1219	10.4	10.6	10.5
35	87	1061	9.4	9.6	9.5
30	75	915	8.4	8.5	8.4
25	62	755	7.3	7.4	7.4
20	51	619	6.5	6.6	6.6