

## Photometric test report

Family  
DL® 20 LED

Order number: 5XA512836R008  
EAN: 4058352042878

LP number  
59488\_30



**Version** post-top mounting  
**Optic** asymmetric, extremely wide distribution (P1.0a)  
**Cover** toughened safety glass  
**Lamps** LED 2700 K | CRI ≥ 70  
**Controlgear** ECG Plus  
**Rated values** Net luminous flux = 3030 lm  
Power consumption = 28.6 W  
Luminous efficacy = 105.9 lm/W

serial  
documentation  
07.12.2023

sitEco

Luminous intensity in cd/klm

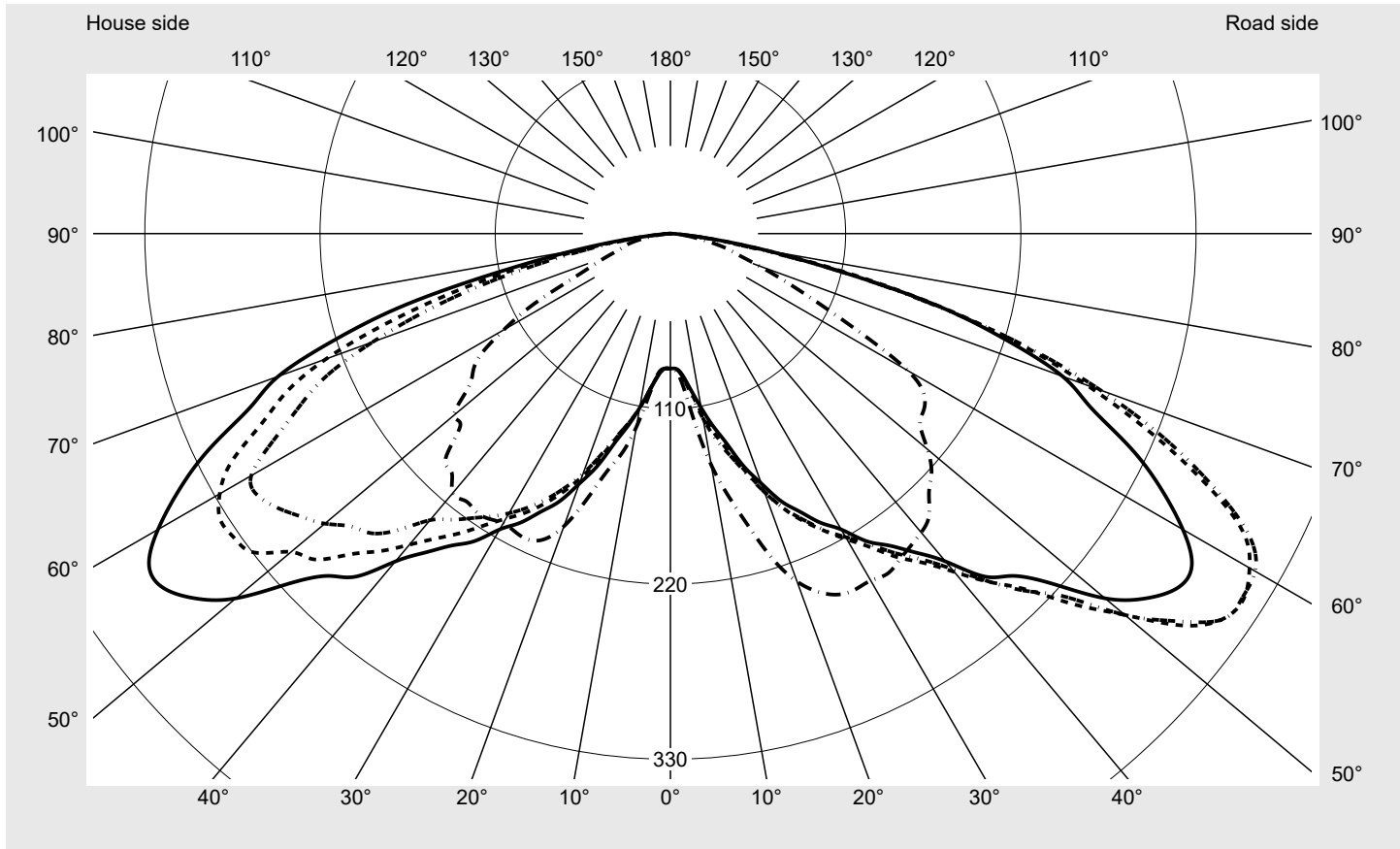
**C180-0**

**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

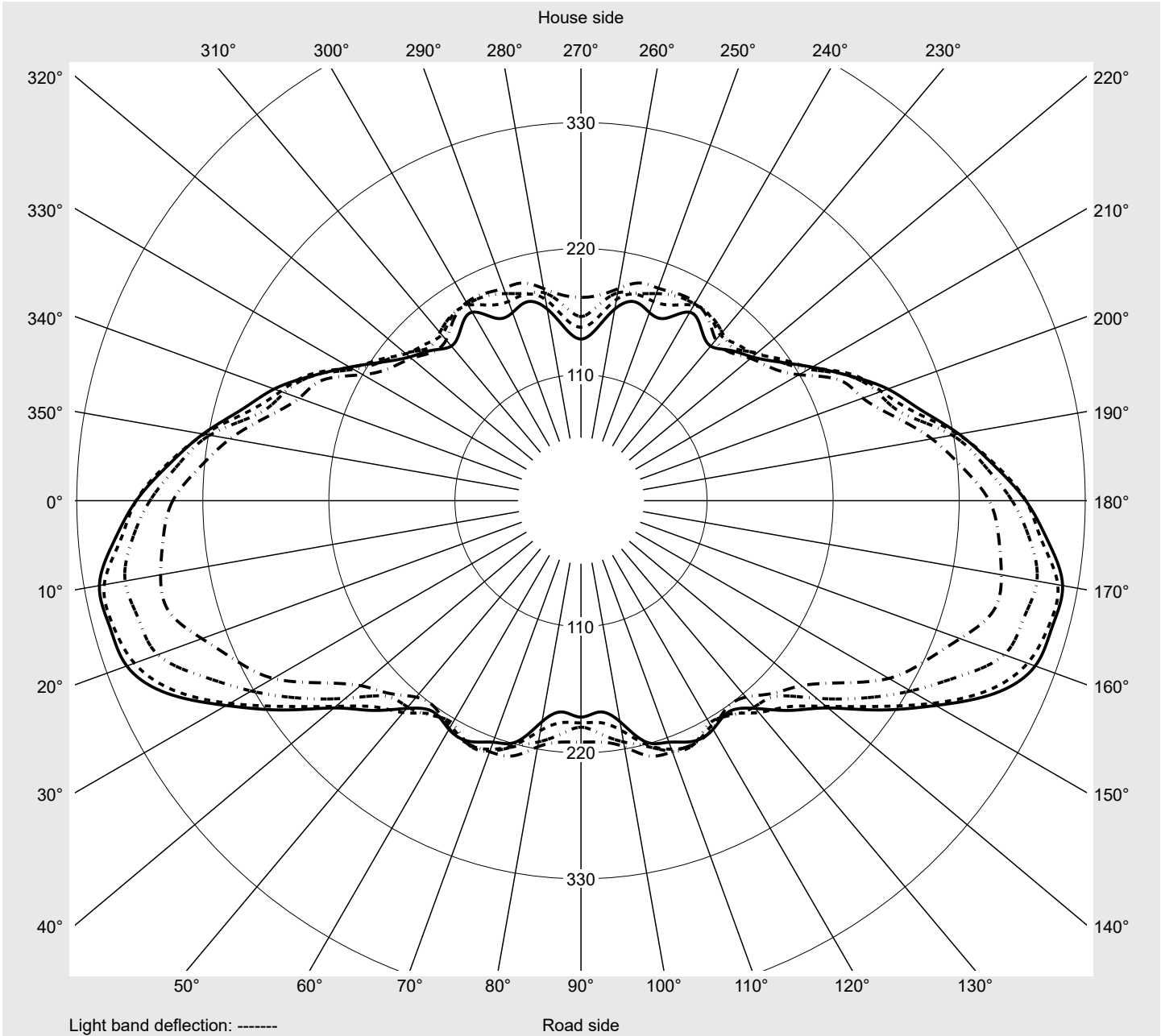
#### Measurement conditions

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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<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: 5XA512836R008</b> <b>EAN: 4058352042878</b>	<b>LP number</b> 59488_30
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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	3030	28.6	29.3	29.0
95	241	2883	27.2	27.8	27.5
90	227	2722	25.6	26.3	26.0
85	214	2573	24.2	24.9	24.5
80	201	2422	22.8	23.4	23.1
75	188	2272	21.4	21.9	21.6
70	175	2120	20.0	20.5	20.2
65	162	1967	18.7	19.1	18.9
60	149	1813	17.3	17.7	17.5
55	137	1670	16.0	16.4	16.2
50	124	1514	14.7	15.1	14.9
45	111	1358	13.4	13.7	13.6
40	99	1213	12.2	12.5	12.4
35	86	1055	10.9	11.2	11.0
30	74	909	9.8	9.9	9.9
25	62	762	8.6	8.7	8.6
20	49	601	7.2	7.4	7.3
17	41	501	6.5	6.6	6.6