

## Lichttechnischer Prüfbefund

Familie  
DL® 20 LED

Bestell-Nr.: 5XA51283WA008  
EAN: 4058352271889

LP-Nummer  
58602\_1



<b>Ausführung</b>	Mastaufsatz-Montage
<b>Optik</b>	asymmetrisch, breit strahlend (ST1.2a)
<b>Abdeckung</b>	Einscheibensicherheitsglas (ESG)
<b>Bestückung</b>	LED 3000K / CRI ≥ 80
<b>Betriebsgerät</b>	EVG Plus
<b>Bemessungswerte</b>	Nettolichtstrom = 3020 lm Systemleistung = 35.5 W Lichtausbeute = 85.1 lm/W

Seriendokumentation  
28.06.2018

siteco

Lichtstärke in cd/klm

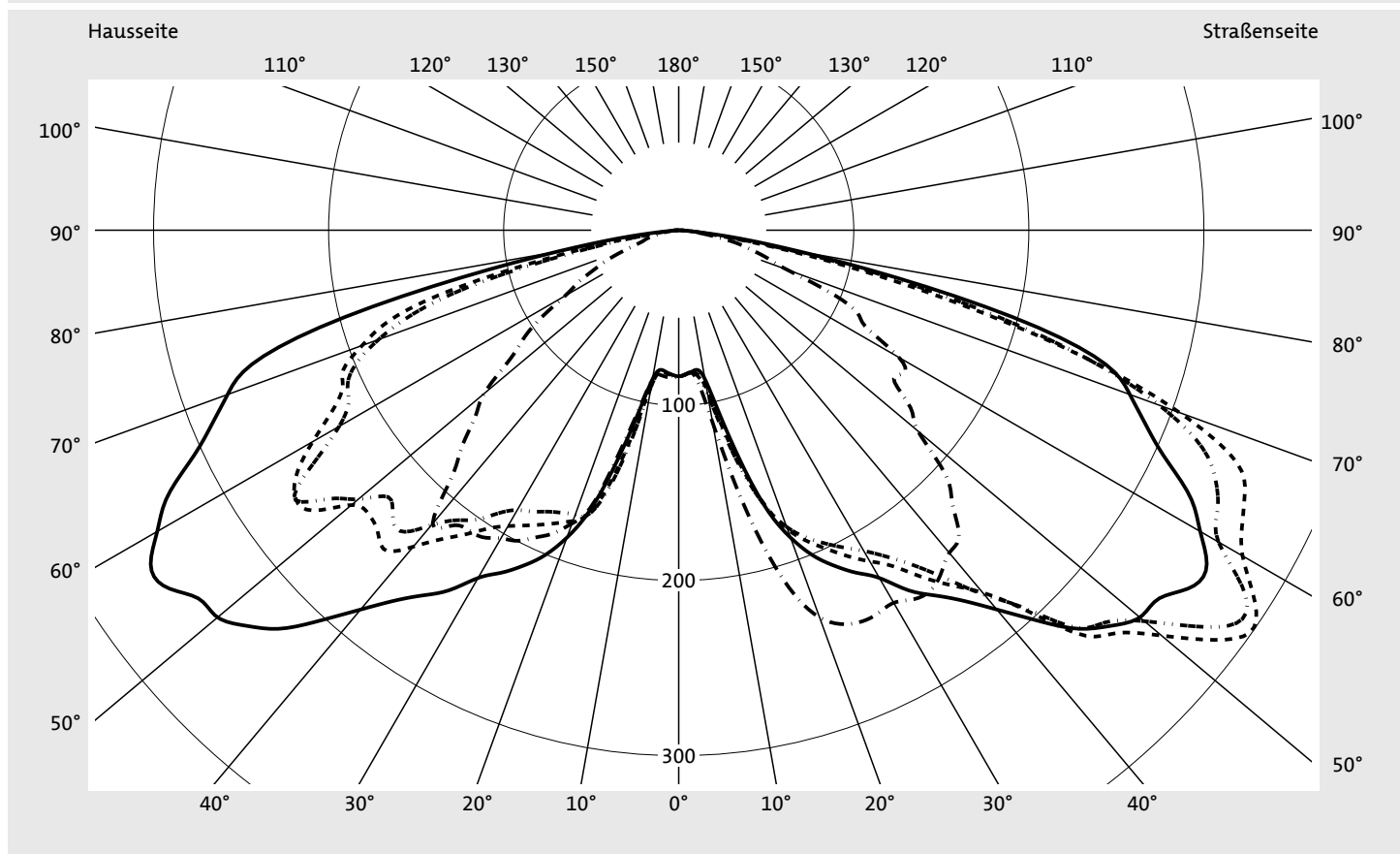
C180-0

C200-20

C205-25

C270-90

Imax: 399 cd/klm



Leuchtenbetriebswirkungsgrade

Eta	100.0%
Eta 0° - 90°	100.0%
Eta 90° - 180°	0.0%

Lichtstärkeklasse nach EN13201-2

Klasse:	G6
Imax 70°	314.9
Imax 80°	71.3
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

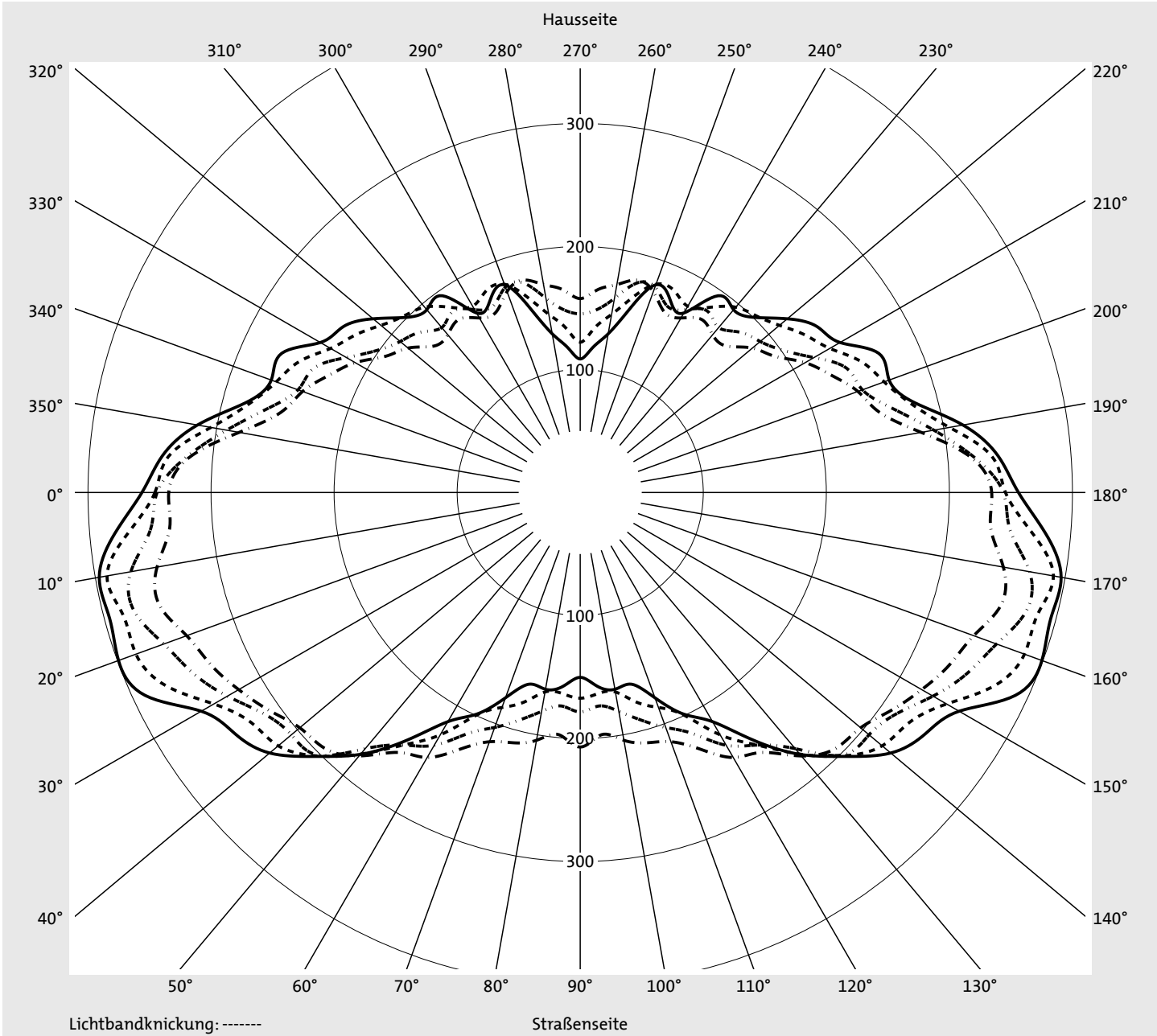
Messbedingungen

DIN EN 13032 und DIN 5032

**Lichttechnischer Prüfbefund**

<b>Familie</b> <b>DL® 20 LED</b>	<b>Bestell-Nr.: 5XA51283WA008</b> <b>EAN: 4058352271889</b>	<b>LP-Nummer</b> <b>58602_1</b>
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**Kegelmantelkurven in cd/klm**     **KMK 55°**     **KMK 52,5°**     **KMK 50°**     **KMK 47,5°**     **siteco**



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<b>Familie</b> DL® 20 LED	<b>Bestell-Nr.: 5XA51283WA008</b> <b>EAN: 4058352271889</b>	<b>LP-Nummer</b> 58602_1
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<b>Wertetabelle Lichtstärkemessung</b>	<b>Maximale Lichtstärke</b>	<b>siteco</b>
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C- Ebenen	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	Lichtstärke in cd/klm												
0,0°	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
2,5°	82.6	82.4	82.3	82.5	82.6	82.6	82.3	82.2	82.6	82.3	82.2	82.3	82.4
5,0°	81.3	81.1	81.1	81.3	81.4	81.5	81.4	81.5	82.0	81.7	81.8	81.8	81.8
7,5°	80.4	80.6	81.3	82.1	83.1	84.0	84.8	85.6	86.9	87.0	87.6	87.8	88.2
10,0°	86.4	86.6	88.2	90.3	92.3	94.8	97.2	99.7	102.4	103.8	105.5	106.8	107.9
12,5°	107.2	107.3	108.9	111.9	115.0	118.2	120.9	123.9	126.9	128.8	132.4	135.1	137.2
15,0°	136.8	136.5	137.4	138.8	141.2	144.2	147.0	149.5	151.1	152.9	157.4	162.2	166.4
17,5°	166.8	165.7	166.1	166.3	165.2	165.7	167.2	168.0	168.8	170.0	174.8	180.9	187.0
20,0°	186.8	187.0	185.0	184.2	181.8	180.3	180.3	179.9	179.3	181.2	186.3	191.7	198.4
22,5°	201.2	202.0	199.8	196.9	192.3	189.9	190.0	190.9	188.8	189.2	193.7	199.5	205.7
25,0°	211.6	212.3	211.2	206.6	200.9	197.2	198.1	198.7	197.9	197.5	201.7	207.5	212.3
27,5°	220.6	220.8	221.1	219.5	209.9	204.2	204.8	205.1	204.5	206.6	210.8	215.1	217.3
30,0°	229.3	231.1	230.9	227.9	218.3	211.4	209.4	210.3	210.5	214.1	218.1	221.8	224.1
32,5°	243.6	244.1	242.3	237.6	227.4	221.0	218.5	219.1	220.0	222.7	225.2	229.8	232.5
35,0°	254.5	257.9	254.4	248.5	241.5	233.4	232.8	238.2	238.9	236.6	237.0	237.1	238.1
37,5°	266.6	266.0	267.7	264.3	255.4	250.6	249.7	257.3	260.7	251.8	247.7	246.8	244.1
40,0°	282.7	280.8	279.7	277.1	270.2	271.8	269.9	270.8	272.4	269.6	262.3	257.9	251.2
42,5°	302.0	303.6	301.0	299.9	294.8	292.7	291.8	291.7	283.5	283.0	276.1	271.7	259.9
45,0°	321.7	323.0	330.7	332.0	327.1	320.9	316.2	306.9	297.9	294.1	287.6	276.2	261.8
47,5°	334.4	334.9	349.2	354.0	340.3	331.2	320.5	308.7	297.5	293.9	279.5	257.9	248.7
50,0°	343.9	350.7	370.8	374.9	360.1	347.3	331.0	313.7	306.4	301.7	271.8	250.6	237.2
52,5°	345.6	368.1	390.5	384.6	384.2	371.5	343.8	326.2	320.4	302.8	277.6	250.6	227.5
55,0°	356.2	379.5	396.9	395.9	399.3	390.2	355.6	342.2	329.4	303.4	277.9	245.9	215.1
57,5°	357.6	369.0	389.2	397.8	389.5	382.8	358.4	341.3	323.9	300.0	270.1	247.3	218.1
60,0°	344.0	352.6	378.5	380.0	371.9	356.1	334.4	324.7	306.9	277.2	253.7	231.2	203.0
62,5°	329.3	331.1	358.4	371.3	363.0	347.0	323.7	322.8	294.7	257.6	251.5	221.4	184.8
65,0°	306.1	317.8	347.0	364.5	356.8	338.5	322.5	314.8	279.8	255.4	239.7	202.8	176.1
67,5°	288.4	309.5	336.9	352.2	344.4	323.4	315.6	296.6	258.9	249.6	227.2	175.6	153.4
70,0°	274.3	292.3	314.9	313.1	304.6	292.1	286.9	270.2	231.8	221.1	193.9	143.3	127.8
72,5°	256.4	259.8	264.8	247.7	246.0	245.8	244.6	220.2	190.9	176.7	140.7	104.6	97.9
75,0°	208.9	211.4	202.1	182.7	174.3	185.0	185.5	156.2	137.3	129.0	93.5	73.3	74.4
77,5°	133.7	137.6	128.7	110.3	108.5	121.4	114.6	85.2	81.6	78.0	52.3	47.8	51.1
80,0°	70.6	71.3	65.3	56.5	54.4	62.2	45.5	33.9	35.7	31.8	26.0	27.0	28.7
82,5°	32.3	30.3	29.7	24.6	20.6	22.5	15.9	14.2	15.7	13.4	13.1	13.6	14.5
85,0°	7.7	7.9	8.3	7.9	7.4	9.0	6.2	5.9	6.4	5.8	5.8	5.6	5.8
87,5°	2.5	2.5	2.5	2.5	2.4	2.6	2.1	2.1	2.0	1.9	1.9	1.8	1.8
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
100,0°	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
110,0°	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
120,0°	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
130,0°	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
140,0°	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
150,0°	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
160,0°	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
170,0°	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
180,0°	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>Wertetabelle Lichtstärkemessung</b>		<b>Maximale Lichtstärke</b>
		<b>siteco</b>

C- Ebenen	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	Lichtstärke in cd/klm												
0,0°	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
2,5°	82.6	82.4	82.4	82.5	82.4	82.4	82.4	82.5	82.6	82.8	83.2	83.0	83.5
5,0°	81.9	81.8	81.8	81.6	81.5	81.6	81.2	81.5	81.6	81.9	82.3	82.2	82.8
7,5°	88.5	88.6	88.6	88.7	88.7	88.8	80.0	80.2	80.4	80.8	81.4	81.5	82.2
10,0°	108.7	109.4	110.2	110.4	110.9	111.5	86.1	86.9	87.6	89.1	90.6	91.8	93.5
12,5°	139.6	141.9	144.6	145.8	146.6	147.9	107.1	109.1	112.2	116.3	119.9	122.9	125.6
15,0°	171.2	176.1	180.6	183.3	184.8	186.2	137.5	140.5	143.4	147.5	150.9	154.2	156.0
17,5°	194.6	202.2	208.4	212.9	215.7	217.1	167.3	167.6	167.7	169.4	169.8	170.9	169.9
20,0°	207.4	216.6	223.4	229.4	233.6	235.3	186.5	185.1	180.9	176.7	172.8	171.4	169.5
22,5°	215.4	224.0	230.5	237.9	242.6	243.4	201.3	197.7	189.2	181.0	174.6	170.6	168.2
25,0°	220.3	227.6	233.7	241.7	245.8	246.6	212.0	205.6	196.3	185.5	177.3	171.7	168.8
27,5°	224.3	229.7	234.4	242.3	245.9	246.6	218.3	211.6	201.3	190.1	181.1	174.1	170.2
30,0°	229.8	232.9	236.8	244.6	247.0	245.6	225.2	216.5	206.2	195.0	184.5	177.6	172.9
32,5°	233.1	236.9	243.7	249.5	251.7	249.8	234.4	225.5	214.5	201.8	191.6	184.8	178.2
35,0°	238.6	242.2	250.1	252.9	254.2	251.0	250.4	239.2	224.6	211.9	201.7	191.2	181.3
37,5°	241.4	244.6	252.5	253.8	250.1	246.4	263.7	251.2	237.7	222.3	208.7	198.6	193.1
40,0°	243.2	246.4	250.5	250.3	243.6	240.4	271.5	259.1	250.6	235.8	219.8	209.3	201.2
42,5°	246.6	247.4	248.4	241.6	235.8	237.0	289.2	272.3	258.9	247.9	233.5	221.4	204.7
45,0°	246.2	236.8	234.1	231.0	226.0	221.1	312.2	283.2	264.9	243.2	231.0	216.4	197.5
47,5°	230.1	215.6	210.6	204.5	197.6	206.9	319.8	281.4	251.8	240.1	225.4	211.1	193.0
50,0°	216.2	203.2	191.6	180.7	174.2	178.4	322.1	291.8	263.2	244.0	238.9	219.4	201.4
52,5°	199.7	186.0	176.4	164.6	164.1	167.2	335.9	304.7	278.5	262.9	251.9	234.3	223.2
55,0°	198.7	177.6	161.3	162.4	158.0	150.2	340.9	315.9	281.6	267.2	267.7	243.8	235.1
57,5°	192.3	176.6	166.6	155.0	152.6	152.0	340.3	313.5	282.4	258.7	247.1	234.5	216.1
60,0°	178.2	172.6	171.8	158.9	149.8	145.3	336.0	306.7	279.4	241.4	224.0	217.6	189.4
62,5°	172.9	166.0	161.0	155.9	140.3	121.5	317.9	299.1	272.3	223.0	212.6	212.0	176.5
65,0°	158.2	155.3	149.6	125.5	112.6	113.1	295.7	282.0	250.3	211.8	208.7	209.5	161.2
67,5°	145.4	128.3	122.4	102.2	89.3	95.4	276.2	264.6	235.5	207.2	199.6	199.2	139.1
70,0°	122.7	99.4	89.0	78.3	72.6	65.6	262.6	244.4	214.9	192.5	182.5	182.5	117.9
72,5°	90.1	73.6	66.4	65.0	57.4	53.3	238.9	212.4	194.5	174.7	159.2	151.1	93.7
75,0°	64.8	55.7	54.6	51.6	44.8	42.7	189.6	168.5	157.9	139.5	122.6	107.8	64.7
77,5°	47.0	42.2	41.7	39.0	35.5	33.7	124.3	112.1	100.0	84.4	71.1	59.4	33.9
80,0°	28.9	26.9	26.9	25.6	23.5	21.4	67.7	60.1	50.1	40.7	33.3	22.5	15.5
82,5°	14.8	14.2	14.6	13.7	12.8	11.8	31.3	24.5	18.7	13.9	12.2	9.4	7.7
85,0°	6.2	6.1	6.2	5.9	5.3	5.2	7.5	6.8	6.3	5.5	5.1	4.5	3.9
87,5°	1.8	1.8	1.8	1.7	1.6	1.6	2.5	2.4	2.3	2.1	2.0	2.0	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
100,0°	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
110,0°	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
120,0°	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
130,0°	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
140,0°	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
150,0°	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
160,0°	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
170,0°	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
180,0°	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>Wertetabelle Lichtstärkemessung</b>	<b>Maximale Lichtstärke</b>	<b>siteco</b>
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C- Ebenen	220° 320°	225° 315°	230° 310°	235° 305°	240° 300°	245° 295°	250° 290°	255° 285°	260° 280°	265° 275°	270°	Phi-Zone	Summe Phi-Zone
γ	Lichtstärke in cd/klm											Lichtstrom in lm/klm	
0,0°	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	0.1	0.1
2,5°	83.6	83.6	83.8	83.8	84.2	83.9	83.9	84.3	83.9	83.9	84.4	1.0	1.1
5,0°	82.9	83.0	83.1	83.2	83.7	83.4	83.4	83.8	83.4	83.4	84.0	2.0	3.1
7,5°	82.5	83.0	83.1	83.2	83.6	83.2	83.1	83.2	82.8	82.7	83.2	3.0	6.1
10,0°	94.3	94.8	94.4	93.9	93.4	91.1	89.6	88.7	87.3	86.4	86.0	4.6	10.6
12,5°	126.7	126.5	124.0	122.2	119.5	115.1	111.5	108.5	106.2	104.6	104.6	7.2	17.9
15,0°	156.1	155.1	150.8	148.1	143.7	139.1	136.1	134.2	133.6	133.8	132.1	10.7	28.6
17,5°	169.4	167.1	162.9	161.2	158.2	155.8	155.4	157.0	158.9	160.6	164.8	14.3	42.9
20,0°	170.0	168.4	165.5	164.9	165.0	165.6	167.6	171.3	174.5	177.5	178.2	17.3	60.2
22,5°	168.0	166.7	166.0	166.9	168.8	172.3	177.5	181.4	185.0	186.9	187.4	20.2	80.4
25,0°	167.3	165.4	165.6	168.0	172.9	178.3	184.7	189.7	191.5	193.2	193.5	23.0	103.3
27,5°	167.9	165.5	165.5	169.2	177.0	184.8	190.9	194.6	196.3	197.7	199.9	25.7	129.1
30,0°	168.6	166.1	168.7	174.1	181.8	191.0	197.3	199.5	201.5	203.3	203.1	28.6	157.6
32,5°	171.7	168.1	171.8	178.8	188.7	197.7	202.5	207.0	204.6	206.1	207.9	31.7	189.4
35,0°	176.2	172.0	176.0	182.3	189.3	199.0	204.1	208.8	209.3	209.0	209.1	35.1	224.5
37,5°	183.4	176.1	182.0	189.6	195.5	203.0	208.2	208.9	211.9	211.2	212.5	38.7	263.2
40,0°	187.9	180.5	191.4	199.7	200.2	198.2	209.0	211.1	213.4	214.9	218.7	42.3	305.4
42,5°	189.4	184.3	192.9	196.0	188.9	188.7	196.2	196.5	203.3	201.1	192.6	45.5	351.0
45,0°	180.7	169.8	167.5	169.7	166.7	171.0	181.6	185.9	181.2	179.4	175.4	47.8	398.7
47,5°	182.7	168.3	167.4	171.8	163.8	161.8	173.8	178.8	171.6	165.6	157.6	49.0	447.7
50,0°	191.0	184.2	175.0	180.1	171.6	167.2	177.8	176.1	160.2	149.0	145.3	51.3	499.0
52,5°	211.4	202.8	196.6	183.8	174.8	180.9	180.2	164.0	147.1	134.3	122.1	54.3	553.4
55,0°	219.7	201.2	193.9	195.2	168.5	172.9	179.7	154.0	131.0	118.4	108.5	56.5	609.9
57,5°	186.1	171.6	174.1	170.2	153.8	153.5	155.1	144.0	113.4	94.6	93.6	56.0	665.9
60,0°	146.5	141.1	148.2	138.2	127.1	122.6	124.2	116.5	102.2	81.6	75.0	53.4	719.3
62,5°	125.6	133.2	135.2	118.5	118.0	108.6	111.9	111.1	90.1	71.7	64.8	51.9	771.2
65,0°	118.0	128.1	121.8	106.4	111.5	92.5	98.7	100.7	78.8	58.0	53.5	50.0	821.2
67,5°	105.4	113.1	93.2	76.4	76.4	54.5	70.3	73.8	47.5	45.3	43.5	46.2	867.4
70,0°	86.5	90.2	68.0	51.9	44.6	37.9	42.2	40.5	34.0	33.5	31.3	40.8	908.2
72,5°	62.7	68.4	50.1	35.3	30.1	30.0	28.9	28.2	27.3	25.0	22.3	34.1	942.3
75,0°	41.8	50.7	32.5	22.6	24.1	24.9	23.4	23.1	21.8	20.2	19.2	26.1	968.4
77,5°	25.0	29.6	16.4	15.8	18.3	19.5	17.8	18.7	18.1	15.6	14.4	16.8	985.2
80,0°	13.3	11.6	10.3	10.1	12.1	13.1	11.7	13.3	13.1	11.1	10.6	8.7	994.0
82,5°	7.2	6.3	6.0	6.3	7.5	7.6	6.9	7.4	7.6	6.8	6.4	4.0	997.9
85,0°	3.7	3.4	3.3	3.2	3.4	3.5	3.4	3.5	3.5	3.3	3.4	1.5	999.4
87,5°	1.7	1.5	1.5	1.4	1.4	1.4	1.4	1.2	1.2	1.1	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
100,0°	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
110,0°	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
120,0°	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
130,0°	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
140,0°	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
150,0°	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
160,0°	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
170,0°	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
180,0°	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

## Lichttechnischer Prüfbefund

<b>Familie</b> DL® 20 LED	<b>Bestell-Nr.: 5XA51283WA008</b> <b>EAN: 4058352271889</b>	<b>LP-Nummer</b> <b>58602_1</b>
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<b>Dimmstufen-Tabelle</b>	Umgebungstemperatur: 25°C	<b>sITeco</b>
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Lichtstrom [%]	Dimmstufe linear	Lichtstrom [lm]	Systemleistung [W] Lebensdauerbeginn	Systemleistung [W] Lebensdauerende	Systemleistung [W] Durchschnitt
100	254	3020	35.5	36.4	36.0
95	239	2869	33.5	34.3	33.9
90	225	2718	31.5	32.2	31.8
85	211	2567	29.5	30.2	29.8
80	197	2416	27.6	28.3	28.0
75	183	2265	25.8	26.4	26.1
70	170	2114	24.0	24.5	24.2
65	156	1963	22.2	22.7	22.4
60	143	1812	20.4	20.9	20.6
55	131	1661	18.8	19.1	19.0
50	117	1510	17.0	17.4	17.2
45	105	1359	15.4	15.7	15.6
40	92	1208	13.8	14.1	14.0
35	80	1057	12.3	12.4	12.4
30	69	906	10.8	11.0	10.9
25	57	755	9.4	9.5	9.4
20	46	604	7.9	8.0	8.0
15	34	452	6.5	6.6	6.6