

Lichttechnischer Prüfbefund

Familie
DL® 20 LED

Bestell-Nr.: 5XA51283NA008P
EAN: 4058352271780

LP-Nummer
59487_29



Ausführung	Mastaufsatz-Montage
Optik	asymmetrisch, breit strahlend (ST1.2a)
Abdeckung	Einscheibensicherheitsglas (ESG)
Bestückung	LED 4000 K CRI ≥ 70
Betriebsgerät	EVG Plus
Bemessungswerte	Nettolichtstrom = 5340 lm Systemleistung = 41.9 W Lichtausbeute = 127.4 lm/W

Seriendokumentation
07.12.2023

sitEco

Lichtstärke in cd/klm

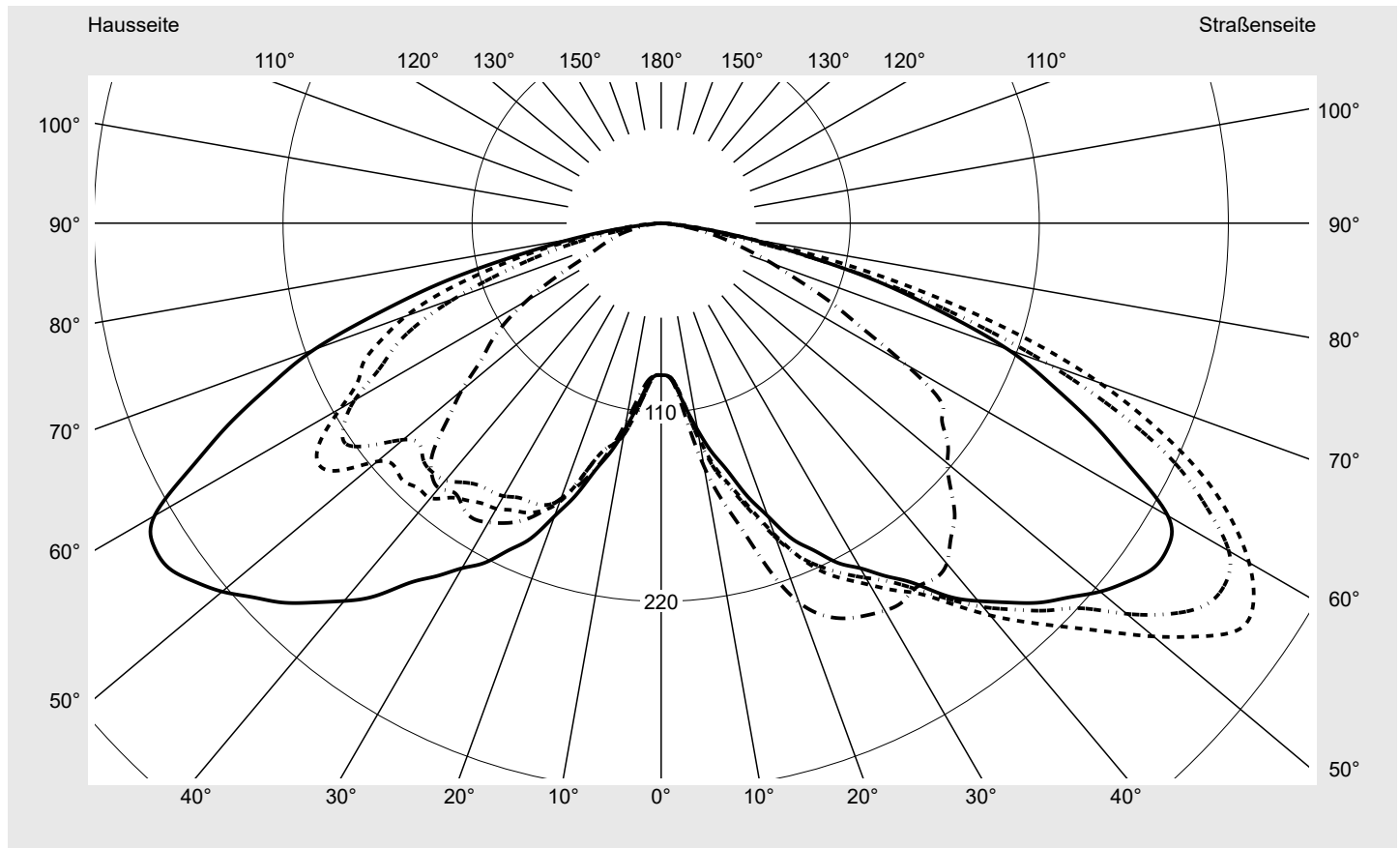
C180-0

C205-25

C210-30

C270-90

Imax: 411 cd/klm



Leuchtenbetriebswirkungsgrade

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

Lichtstärkeklasse nach EN13201-2

Klasse:	G6
Imax 70°	272.5
Imax 80°	53.2
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

Messbedingungen

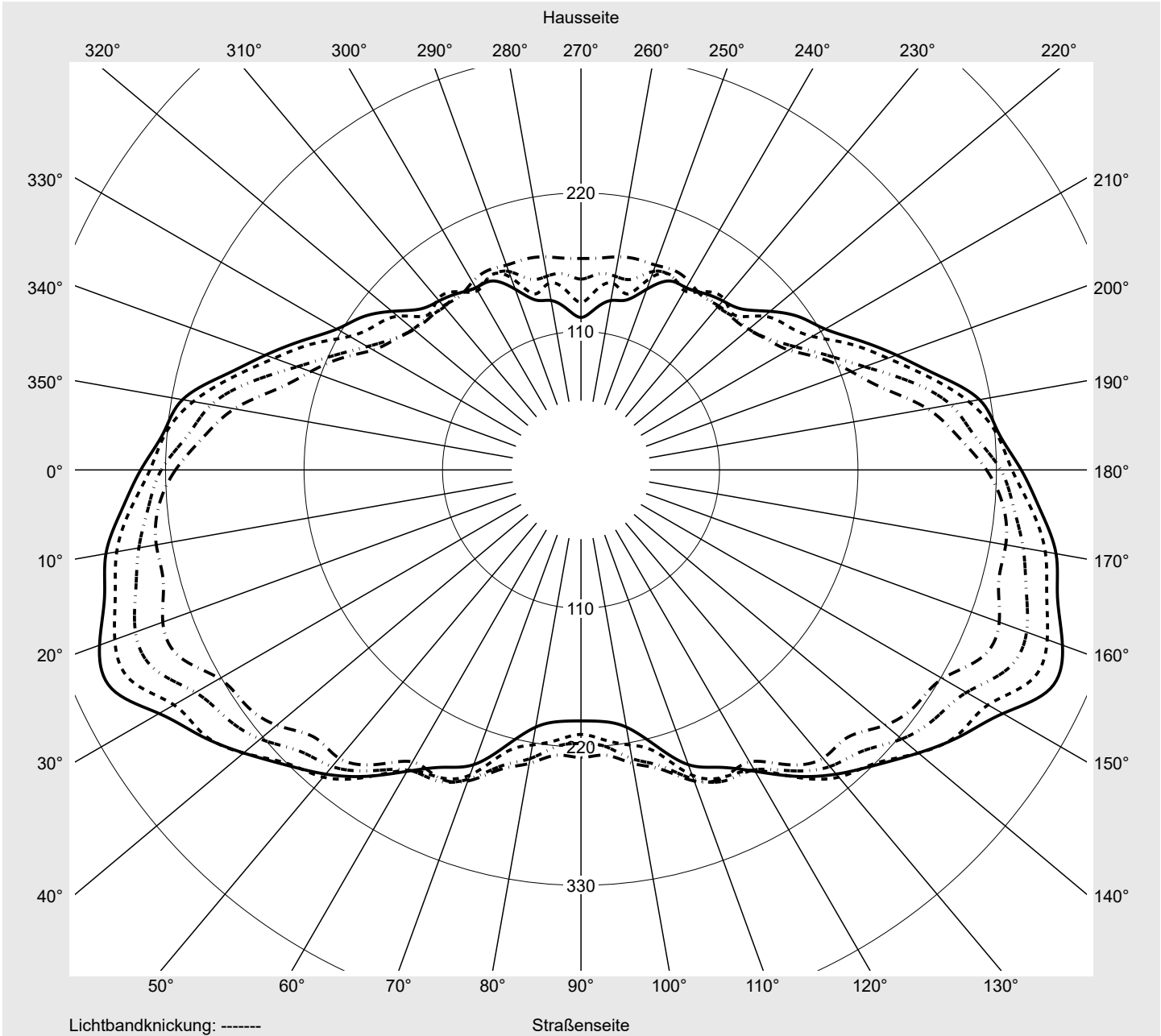
DIN EN 13032 und DIN 5032

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Kegelmantelkurven in cd/klm **KMK 55°** **KMK 52,5°** **KMK 50°** **KMK 47,5°**



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Familie DL® 20 LED	Bestell-Nr.: 5XA51283NA008P EAN: 4058352271780	LP-Nummer 59487_29
Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		siteco

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°	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
2,5°	89.1	88.8	88.7	88.8	88.8	88.8	89.0	89.0	88.9	89.0	89.1	89.2	89.2
5,0°	95.0	95.0	94.4	94.2	94.0	93.8	93.8	93.9	94.0	94.2	94.4	94.7	95.0
7,5°	107.9	107.4	106.9	107.2	107.3	107.3	108.0	108.7	109.4	110.4	111.2	112.2	113.4
10,0°	122.1	122.9	123.4	124.9	125.9	126.9	128.8	129.7	130.6	132.5	133.3	134.4	136.6
12,5°	136.6	137.9	140.2	142.4	143.9	145.6	147.8	148.0	148.8	150.6	150.3	151.3	153.8
15,0°	149.2	151.9	154.9	157.0	157.6	159.3	161.5	161.8	163.4	166.0	166.0	167.2	170.6
17,5°	166.4	168.4	171.4	172.3	172.7	174.8	177.1	179.2	183.1	187.2	189.2	191.7	195.8
20,0°	181.4	185.4	188.4	189.2	190.3	192.7	194.5	196.9	200.8	203.5	206.5	209.8	213.8
22,5°	198.6	202.0	205.4	206.2	208.6	210.1	209.8	210.1	211.3	211.7	215.4	219.4	223.3
25,0°	209.9	214.8	217.9	219.7	223.8	224.1	220.7	219.6	218.7	217.8	221.6	226.1	230.2
27,5°	222.8	227.4	229.3	230.9	235.0	233.7	229.8	228.3	225.1	225.2	228.7	232.4	236.4
30,0°	231.8	237.9	239.9	240.8	243.6	243.0	238.2	235.4	233.0	231.6	236.0	239.0	242.0
32,5°	243.5	250.4	252.6	251.0	253.2	253.3	247.2	244.2	243.2	239.9	241.4	243.5	247.4
35,0°	255.5	265.0	265.7	263.7	263.4	263.4	260.3	256.0	255.8	250.0	249.8	250.7	250.1
37,5°	273.4	285.9	282.5	279.6	280.8	279.7	275.9	272.9	267.3	263.8	261.5	258.5	255.2
40,0°	286.9	301.4	304.8	299.5	300.3	297.8	291.5	288.8	281.6	272.6	267.6	264.3	260.5
42,5°	299.3	315.0	322.9	317.0	321.4	314.8	305.0	301.1	293.2	283.4	277.4	272.3	261.8
45,0°	312.1	322.8	330.4	331.6	333.3	332.1	318.6	307.2	298.2	289.6	283.1	273.2	261.4
47,5°	322.1	336.9	342.6	343.5	353.5	351.7	331.6	325.2	315.5	300.1	299.0	285.8	267.8
50,0°	333.4	345.0	356.7	366.1	376.7	374.0	353.5	343.8	332.6	316.0	307.6	291.8	275.2
52,5°	342.4	359.3	374.5	383.0	394.1	394.9	373.3	366.1	349.9	329.8	318.6	298.0	275.5
55,0°	349.7	366.3	383.2	391.9	407.0	411.3	387.0	368.5	349.8	331.5	315.5	297.1	276.5
57,5°	349.9	363.2	378.2	392.7	410.1	408.7	389.4	364.3	344.6	322.1	301.2	279.9	269.2
60,0°	340.4	354.4	369.2	386.1	402.5	395.0	381.3	354.5	330.9	303.2	275.1	253.3	247.9
62,5°	308.5	331.8	352.4	366.5	381.2	374.3	357.7	326.0	303.9	273.2	249.2	235.2	226.2
65,0°	278.1	300.7	316.7	333.1	343.1	347.8	329.5	296.4	276.9	248.5	224.6	215.0	195.2
67,5°	245.9	260.8	278.7	298.7	308.0	312.3	288.5	263.1	247.3	212.8	192.2	177.8	155.7
70,0°	214.7	218.9	232.0	256.8	272.5	271.5	240.0	222.3	211.1	170.2	150.1	136.7	118.2
72,5°	170.3	180.3	189.5	209.5	223.5	221.7	186.3	173.9	161.8	132.2	115.0	99.9	87.6
75,0°	129.4	136.2	139.7	150.5	162.7	164.5	134.2	124.1	119.8	94.3	76.8	68.9	63.7
77,5°	84.1	91.7	89.7	93.7	104.1	107.1	80.8	75.0	77.3	55.3	46.0	41.3	40.1
80,0°	51.7	51.9	48.0	46.2	49.9	53.2	33.9	36.4	41.0	24.0	23.0	22.8	23.5
82,5°	23.2	23.6	22.2	20.6	22.4	25.5	13.7	16.2	19.6	10.1	10.0	10.6	11.6
85,0°	6.0	6.0	6.0	6.0	7.3	10.7	5.4	7.3	9.1	4.5	4.3	4.4	4.7
87,5°	2.0	2.0	2.0	1.9	1.9	2.4	1.8	1.7	1.7	1.6	1.6	1.5	1.6
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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Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		siteco

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°	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
2,5°	89.3	89.3	89.4	89.4	89.3	89.2	88.9	88.9	89.1	89.0	89.1	89.2	89.1
5,0°	95.3	95.5	95.9	96.0	96.0	96.2	95.9	96.3	96.8	97.0	97.1	97.1	97.0
7,5°	114.1	114.8	115.9	116.2	116.5	116.9	108.5	109.1	109.9	110.3	110.7	111.0	111.0
10,0°	137.6	139.1	141.4	141.9	142.8	143.8	122.7	123.4	124.3	124.4	124.8	125.0	124.9
12,5°	154.6	156.8	160.6	161.9	163.9	165.6	135.1	134.1	134.2	133.1	132.3	132.2	132.0
15,0°	171.6	174.9	179.5	181.2	183.7	186.1	147.0	144.2	142.8	141.2	139.7	139.6	139.1
17,5°	197.6	201.3	206.8	208.7	210.9	213.3	163.3	160.1	158.5	157.4	156.2	155.7	154.2
20,0°	217.8	222.9	228.2	230.9	233.2	234.9	180.7	177.8	175.7	174.5	172.5	170.9	168.2
22,5°	229.6	235.6	240.4	244.8	246.9	247.0	195.8	192.5	188.2	185.5	181.1	177.5	174.5
25,0°	237.2	243.2	246.8	252.2	254.6	253.6	208.5	203.2	196.4	192.4	185.8	179.1	176.3
27,5°	243.6	249.3	251.5	257.0	259.0	257.3	219.9	212.2	204.1	197.0	188.2	180.0	177.5
30,0°	248.1	251.6	253.3	258.6	261.3	260.3	229.3	219.8	210.1	200.7	191.8	183.3	179.4
32,5°	250.8	253.5	256.5	260.6	261.5	261.3	238.2	230.6	217.0	205.1	193.4	184.8	178.6
35,0°	251.6	255.3	258.9	260.7	259.9	258.7	248.7	239.2	223.2	209.3	196.9	185.9	180.1
37,5°	255.6	257.3	260.4	261.7	259.4	260.9	260.3	247.0	231.5	217.8	201.3	190.0	182.0
40,0°	262.6	262.4	261.7	260.2	260.1	258.5	274.1	257.4	239.5	223.2	208.8	195.3	186.1
42,5°	267.2	267.0	258.6	253.4	249.5	249.3	283.3	267.7	246.0	225.6	209.2	196.7	189.5
45,0°	266.6	267.0	254.6	243.7	238.6	241.5	295.2	268.4	246.4	227.0	212.1	195.5	185.0
47,5°	269.3	263.0	246.2	236.8	227.5	228.5	301.0	279.6	249.3	228.5	210.0	190.6	180.6
50,0°	272.3	261.4	243.3	232.9	220.5	217.4	313.7	298.2	270.9	239.8	215.7	196.0	181.8
52,5°	269.2	258.0	232.4	221.8	215.4	210.1	331.4	312.8	285.8	259.4	236.4	212.2	199.8
55,0°	260.7	249.2	226.1	207.5	200.7	199.4	333.1	321.4	292.5	266.7	243.6	223.9	211.9
57,5°	248.6	231.5	221.9	193.0	182.3	192.8	324.6	302.6	280.6	258.2	234.8	218.9	207.6
60,0°	233.2	208.6	194.3	174.6	161.0	163.9	308.1	283.8	270.6	239.5	215.3	206.0	191.9
62,5°	211.0	184.4	158.7	148.5	139.5	131.3	289.1	265.4	245.6	221.5	198.8	185.6	171.6
65,0°	183.8	160.4	128.4	126.1	118.6	108.9	260.0	241.7	221.3	205.2	190.9	171.6	151.9
67,5°	150.3	133.3	100.8	100.3	97.5	85.7	232.2	215.5	203.1	187.5	175.4	153.0	133.3
70,0°	112.0	99.3	77.8	78.8	76.7	69.1	203.4	186.8	176.9	170.2	157.9	127.3	116.4
72,5°	80.4	69.5	60.4	59.6	56.6	54.0	160.4	150.2	142.9	139.9	133.0	99.2	93.1
75,0°	56.7	48.6	47.0	44.1	42.0	41.9	116.1	110.2	104.7	106.2	102.0	73.1	64.7
77,5°	37.8	33.1	32.6	33.3	31.8	31.4	79.5	74.8	68.9	74.3	72.9	48.1	41.4
80,0°	22.8	20.7	20.9	21.4	20.8	19.9	47.3	43.9	37.9	40.3	43.4	23.3	22.9
82,5°	12.2	11.3	11.8	11.7	11.3	11.1	22.0	20.4	17.3	18.6	23.9	10.2	11.2
85,0°	4.8	4.8	5.1	5.0	4.9	4.9	6.0	6.3	6.0	7.2	12.1	5.2	4.9
87,5°	1.5	1.5	1.6	1.4	1.4	1.4	2.0	2.0	2.0	1.9	2.7	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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Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		siteco

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°	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	0.1	0.1
2,5°	89.1	89.1	89.1	88.9	88.9	88.8	88.8	88.9	88.7	88.7	89.0	1.1	1.2
5,0°	96.7	96.5	95.9	95.4	94.8	94.1	93.6	93.2	92.5	92.2	92.5	2.3	3.5
7,5°	110.7	110.2	109.5	108.5	107.7	106.2	105.1	104.2	102.8	102.4	102.6	3.9	7.4
10,0°	124.4	124.2	123.3	122.5	122.0	120.4	119.3	119.1	117.7	117.2	117.7	6.1	13.4
12,5°	131.4	132.1	131.9	131.9	132.9	132.4	132.9	133.7	133.0	133.1	133.8	8.4	21.9
15,0°	138.2	139.3	140.1	140.5	142.3	143.0	144.5	146.4	146.4	147.1	148.1	11.0	32.8
17,5°	152.1	152.1	152.8	153.3	154.7	156.0	157.2	158.6	159.5	160.1	160.0	14.2	47.0
20,0°	165.1	163.1	163.5	164.0	164.6	167.1	169.2	170.3	172.0	171.6	170.5	17.7	64.7
22,5°	171.4	168.9	169.5	170.3	171.3	175.5	178.1	178.9	182.7	183.4	181.8	20.9	85.6
25,0°	173.5	170.8	172.7	173.5	174.3	180.2	184.0	185.0	189.9	192.6	190.8	24.0	109.6
27,5°	173.6	172.2	175.8	177.6	177.9	183.4	188.1	190.7	196.1	197.9	196.7	27.0	136.7
30,0°	174.9	173.5	178.6	182.9	182.9	186.9	190.4	194.2	199.7	201.4	201.0	30.0	166.6
32,5°	174.7	173.5	180.8	184.4	185.0	187.3	192.5	198.1	202.7	202.9	203.7	33.0	199.6
35,0°	173.3	174.4	181.5	185.6	186.5	188.3	194.2	199.5	201.8	202.1	201.4	36.0	235.6
37,5°	174.5	176.0	183.3	189.9	190.9	190.1	196.1	202.1	203.2	200.3	197.6	39.4	275.0
40,0°	179.5	179.6	185.1	190.4	191.5	192.3	198.9	202.1	203.8	202.5	201.2	42.9	317.9
42,5°	178.5	177.1	181.1	183.0	188.5	188.5	195.7	195.7	199.8	199.5	197.6	45.8	363.7
45,0°	175.1	173.4	176.1	178.1	178.3	181.1	188.7	188.0	187.8	189.1	187.5	48.1	411.8
47,5°	173.4	170.5	170.1	168.3	172.5	174.9	173.2	173.3	171.9	169.0	168.0	50.4	462.1
50,0°	174.0	171.7	169.1	170.4	167.0	169.8	167.8	156.9	156.3	156.3	151.6	53.4	515.6
52,5°	189.9	173.5	177.1	172.9	164.4	170.3	162.5	144.8	150.2	143.9	133.1	56.9	572.5
55,0°	196.0	180.8	175.3	171.1	167.1	165.6	152.8	139.8	136.7	128.5	121.2	58.9	631.4
57,5°	191.0	175.2	161.9	155.6	160.3	154.5	140.2	129.5	123.3	113.1	107.3	58.7	690.0
60,0°	175.3	161.7	143.8	142.2	148.1	140.1	125.6	115.5	107.1	96.7	90.5	56.5	746.5
62,5°	159.2	137.0	125.3	128.8	123.2	116.5	109.7	100.5	90.2	77.4	72.0	52.5	799.0
65,0°	141.4	119.2	106.0	111.5	96.4	90.6	93.7	78.0	66.1	58.5	53.7	47.7	846.7
67,5°	127.9	100.8	85.8	87.6	72.2	69.7	74.2	59.2	45.9	43.2	42.3	41.9	888.6
70,0°	110.1	75.8	59.5	66.7	46.1	47.3	55.7	42.1	35.2	35.4	35.7	35.2	923.8
72,5°	86.3	58.3	39.8	39.2	30.1	31.4	37.8	30.6	28.7	28.4	29.7	28.0	951.8
75,0°	65.3	44.3	27.1	24.2	23.7	23.4	26.2	25.4	23.9	23.5	24.8	20.7	972.5
77,5°	48.8	32.1	17.4	16.9	18.0	18.3	18.6	19.5	19.5	18.6	18.1	13.9	986.4
80,0°	31.4	16.4	10.7	11.3	12.5	13.5	13.2	13.7	13.9	13.2	12.3	7.8	994.2
82,5°	18.1	7.0	6.3	6.8	7.7	8.0	7.9	8.4	8.7	8.0	7.8	3.8	998.0
85,0°	9.0	3.6	3.4	3.4	3.8	3.8	3.7	3.8	3.9	3.7	3.5	1.5	999.5
87,5°	2.1	1.6	1.6	1.5	1.6	1.4	1.4	1.4	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

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Dimmstufen-Tabelle	Umgebungstemperatur: 25°C	siteco
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Lichtstrom [%]	Dimmstufe linear	Lichtstrom [lm]	Systemleistung [W] Lebensdauerbeginn	Systemleistung [W] Lebensdauerende	Systemleistung [W] Durchschnitt
100	254	5340	41.9	43.0	42.4
95	240	5066	39.5	40.5	40.0
90	227	4810	37.3	38.4	37.8
85	213	4531	35.0	35.9	35.4
80	200	4270	32.9	33.8	33.3
75	187	4007	30.7	31.6	31.2
70	174	3744	28.7	29.4	29.0
65	161	3477	26.6	27.3	27.0
60	148	3207	24.5	25.2	24.8
55	135	2936	22.5	23.1	22.8
50	122	2662	20.4	21.0	20.7
45	110	2408	18.6	19.0	18.8
40	97	2130	16.6	17.0	16.8
35	85	1871	14.8	15.1	15.0
30	73	1611	13.0	13.3	13.2
25	60	1327	11.1	11.4	11.2
20	48	1063	9.4	9.6	9.5
15	36	796	7.6	7.8	7.7
12	28	617	6.5	6.6	6.6