

## Lichttechnischer Prüfbefund

**Familie**  
**DL® 20 LED**

**Bestell-Nr.: 5XA512836R008**  
**EAN: 4058352042878**

**LP-Nummer**  
**59488\_30**



<b>Ausführung</b>	Mastaufsatz-Montage
<b>Optik</b>	asymmetrisch, extrem breit strahlend (P1.0a)
<b>Abdeckung</b>	Einscheibensicherheitsglas (ESG)
<b>Bestückung</b>	LED 2700 K   CRI ≥ 70
<b>Betriebsgerät</b>	EVG Plus
<b>Bemessungswerte</b>	Nettolichtstrom = 3030 lm Systemleistung = 28.6 W Lichtausbeute = 105.9 lm/W

**Seriendokumentation**  
**07.12.2023**

**sitEco**

**Lichtstärke in cd/klm**

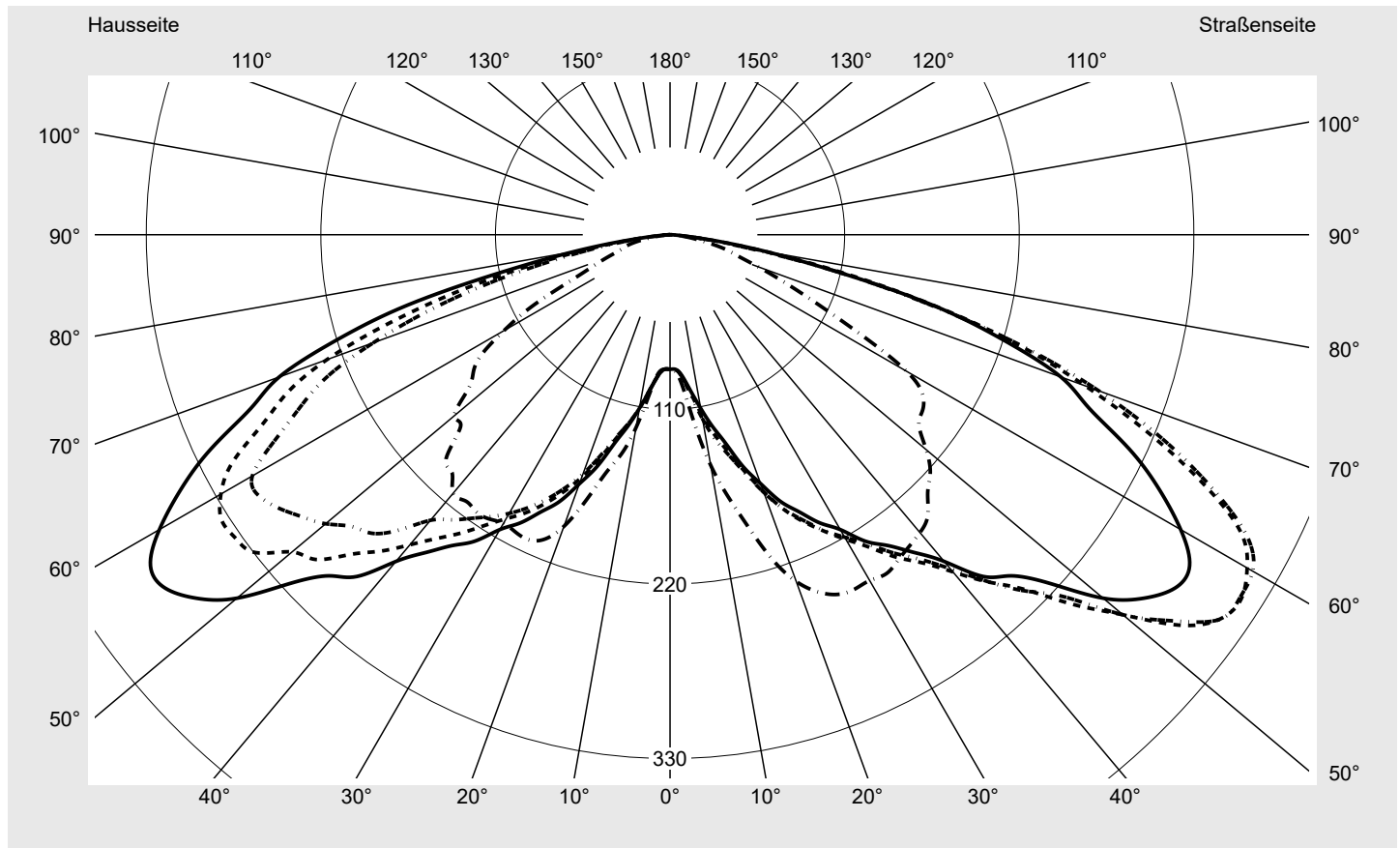
**C180-0**

**C190-10**

**C195-15**

**C270-90**

**Imax: 427 cd/klm**



**Leuchtenbetriebswirkungsgrade**

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

**Lichtstärkeklasse nach EN13201-2**

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

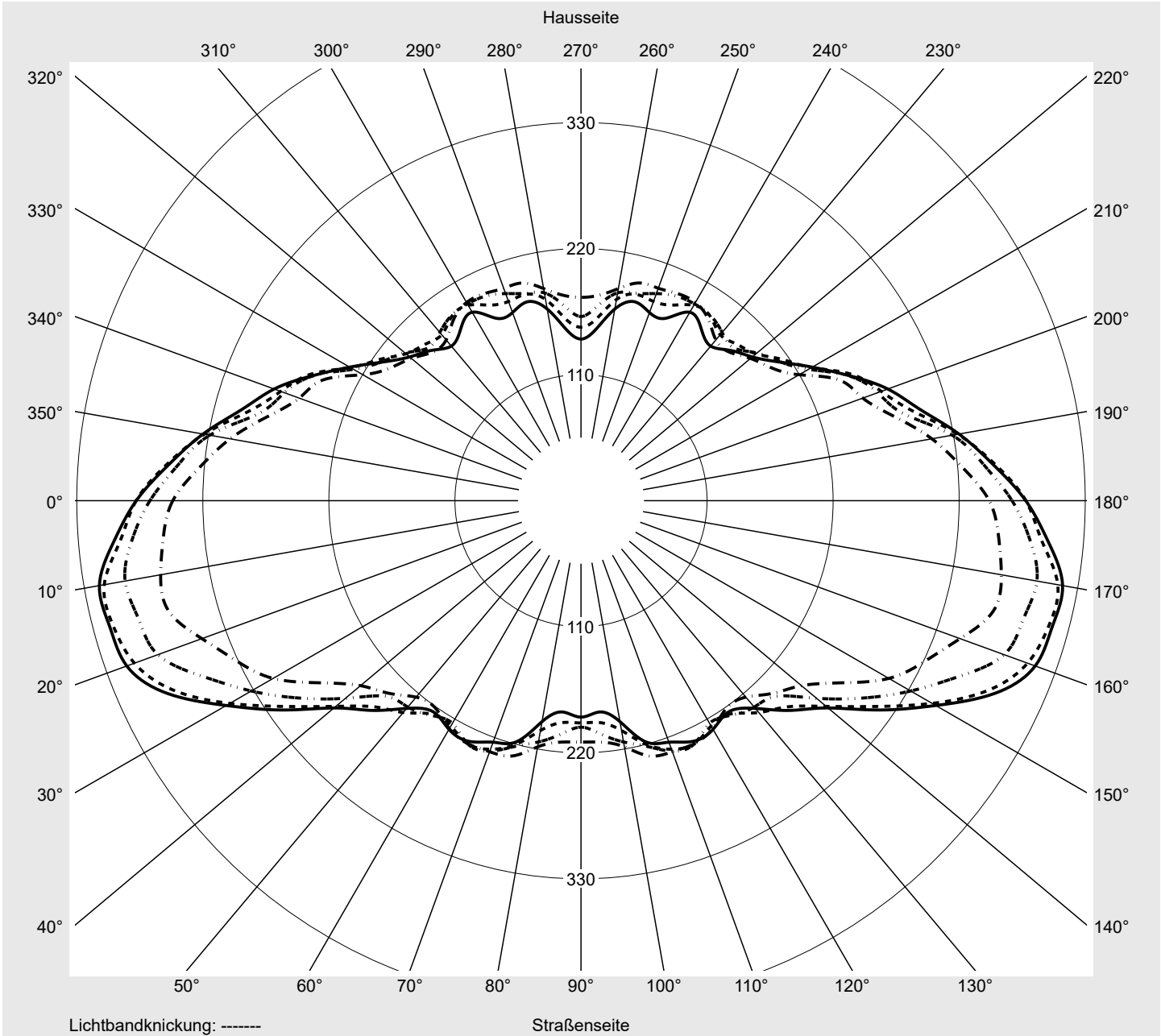
**Messbedingungen**

DIN EN 13032 und DIN 5032

**Lichttechnischer Prüfbefund**

<b>Familie</b> DL® 20 LED	<b>Bestell-Nr.:</b> 5XA512836R008 <b>EAN:</b> 4058352042878	<b>LP-Nummer</b> 59488_30
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**Kegelmantelkurven in cd/klm**    **KMK 57,5°**    **KMK 55°**    **KMK 52,5°**    **KMK 50°**    **siteco**



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<b>Wertetabelle Lichtstärkemessung</b>		<b>Maximale Lichtstärke</b>
		<b>siteco</b>

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°	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>Wertetabelle Lichtstärkemessung</b>	<b>Maximale Lichtstärke</b>	<b>siteco</b>
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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°	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>Wertetabelle Lichtstärkemessung</b>		<b>Maximale Lichtstärke</b>
		<b>sitEco</b>

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°	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

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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	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