

## Lichttechnischer Prüfbefund

**Familie**  
**DL® 20 LED**

**Bestell-Nr.: 5XA512836S008P**  
**EAN: 4069025024770**

**LP-Nummer**  
**59489\_23**



<b>Ausführung</b>	Mastaufsatz-Montage
<b>Optik</b>	symmetrisch, breit strahlend (PL1.2s)
<b>Abdeckung</b>	Einscheibensicherheitsglas (ESG)
<b>Bestückung</b>	LED 2700 K   CRI ≥ 70
<b>Betriebsgerät</b>	EVG Plus
<b>Bemessungswerte</b>	Nettolichtstrom = 4250 lm Systemleistung = 40.6 W Lichtausbeute = 104.7 lm/W

**Seriendokumentation**  
**07.12.2023**

**siteco**

**Lichtstärke in cd/klm**

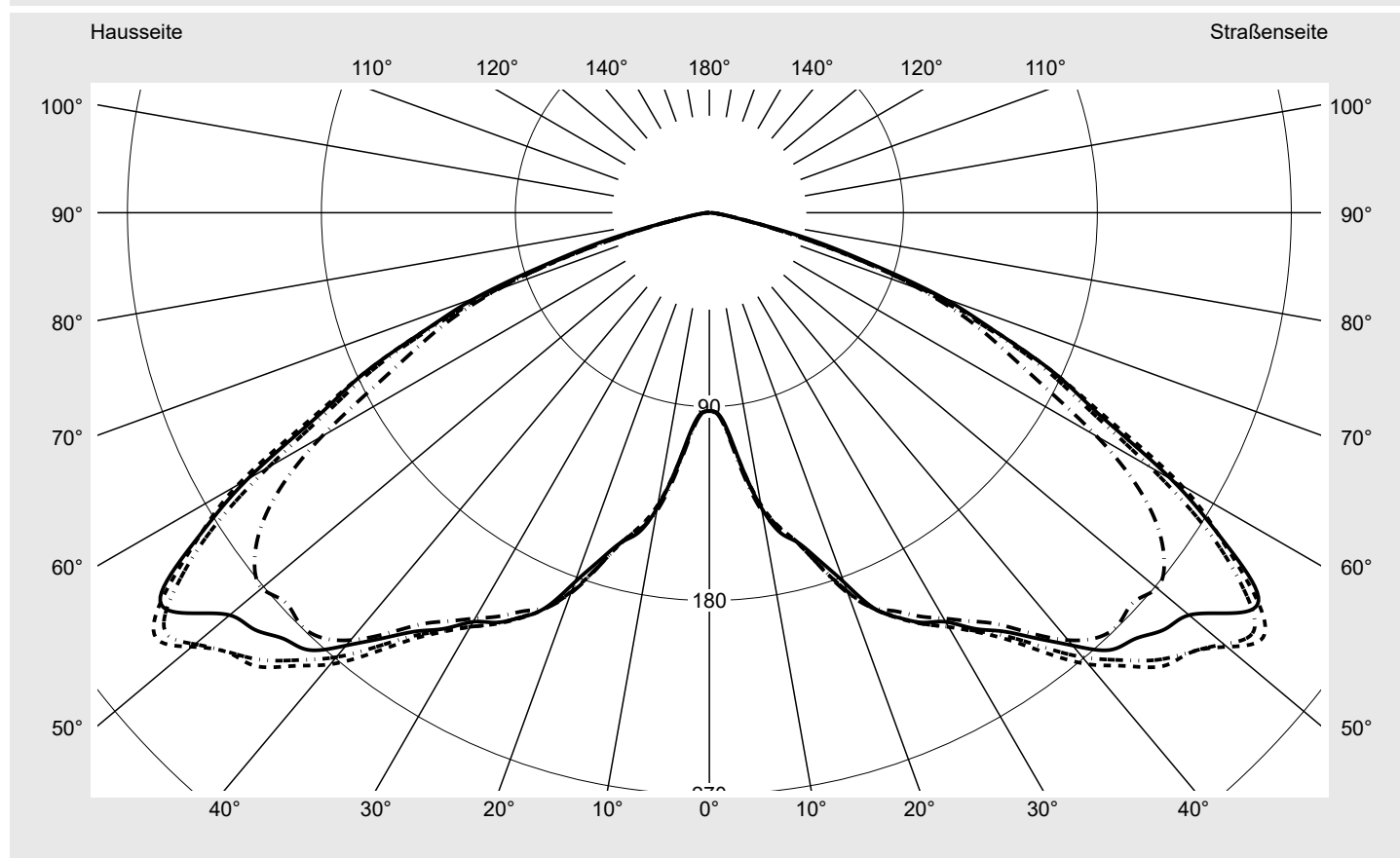
**C180-0**

**C230-50**

**C235-55**

**C270-90**

**Imax: 324 cd/klm**



**Leuchtenbetriebswirkungsgrade**

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

**Lichtstärkeklasse nach EN13201-2**

Klasse:	G6
Imax 70°	119.6
Imax 80°	10.2
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

**Messbedingungen**

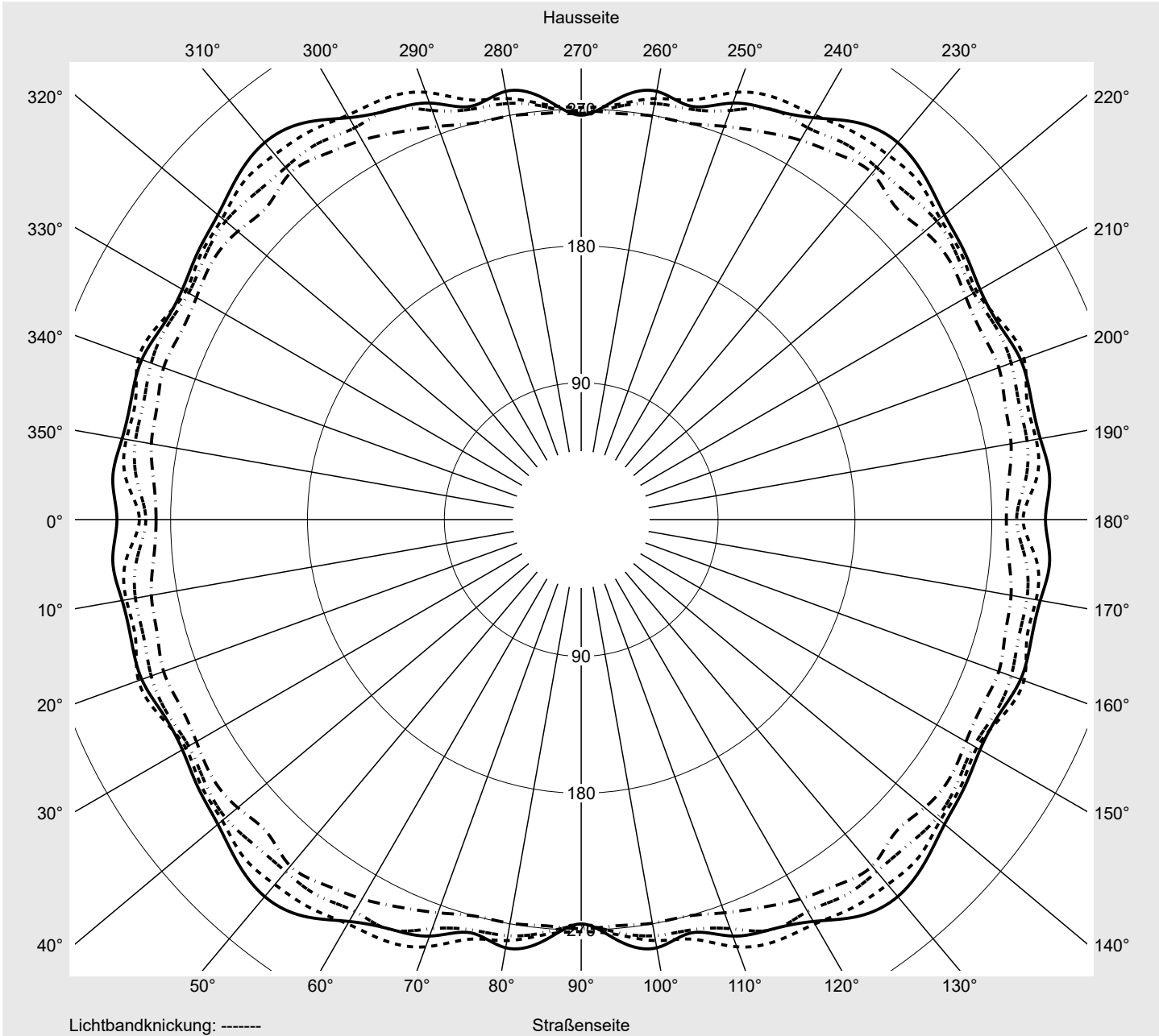
DIN EN 13032 und DIN 5032

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Kegelmantelkurven in cd/klm      **KMK 52,5°**      **KMK 50°**      **KMK 47,5°**      **KMK 45°**



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

C- Ebenen	0° 180°	5°	10°	15°	20°	25°	30°	35°	40°	45°	
		175° 185° 355°	170° 190° 350°	165° 195° 345°	160° 200° 340°	155° 205° 335°	150° 210° 330°	145° 215° 325°	140° 220° 320°	135° 225° 315°	
γ		Lichtstärke in cd/klm									
0,0°	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
2,5°	93.4	93.2	93.1	93.3	93.3	93.3	93.3	93.3	93.4	93.5	93.5
5,0°	102.6	102.9	102.9	103.0	102.9	102.9	103.0	103.0	103.1	103.3	103.3
7,5°	120.6	120.2	120.1	120.1	119.8	119.6	119.7	119.6	119.8	120.3	120.3
10,0°	139.0	139.1	138.5	138.4	137.3	136.8	136.8	136.3	136.6	137.5	137.5
12,5°	152.1	151.2	150.5	150.5	149.0	148.4	148.7	147.7	147.9	149.4	149.4
15,0°	158.5	157.9	157.9	158.4	157.4	157.4	158.2	157.5	157.6	159.0	159.0
17,5°	169.1	168.6	169.4	170.4	170.6	171.4	172.2	172.4	172.1	172.5	172.5
20,0°	182.5	183.9	185.1	185.3	186.6	187.2	186.8	186.8	186.6	186.5	186.5
22,5°	198.4	198.7	199.5	198.7	200.2	200.0	198.4	199.1	198.5	197.4	197.4
25,0°	207.3	209.4	209.1	207.0	208.7	208.9	206.7	207.5	207.4	205.9	205.9
27,5°	214.5	216.3	216.8	214.4	215.4	215.5	214.3	214.7	214.1	213.5	213.5
30,0°	219.3	221.6	223.0	220.8	221.0	222.5	222.0	220.9	220.0	219.9	219.9
32,5°	228.9	230.3	232.4	230.1	228.5	229.7	230.3	229.4	230.0	229.4	229.4
35,0°	237.2	241.2	242.0	238.8	237.4	239.3	241.5	239.9	239.5	240.8	240.8
37,5°	248.9	251.0	250.2	248.6	251.3	252.2	253.8	251.9	252.2	254.2	254.2
40,0°	262.2	264.6	262.5	260.0	264.5	267.0	266.1	268.6	268.1	269.8	269.8
42,5°	275.2	277.3	275.3	277.1	278.3	279.3	279.4	282.4	282.6	279.4	279.4
45,0°	279.6	282.1	287.0	288.7	292.2	290.7	292.2	296.1	294.8	291.7	291.7
47,5°	286.3	293.2	297.7	297.9	300.9	300.6	298.1	302.0	305.3	303.3	303.3
50,0°	290.6	300.3	303.8	303.4	309.8	305.6	300.3	305.1	308.1	314.0	314.0
52,5°	305.3	309.2	306.5	306.3	307.5	303.2	302.8	307.5	311.9	319.4	319.4
55,0°	311.0	305.4	298.9	300.0	292.0	289.0	292.6	299.2	298.2	304.3	304.3
57,5°	282.2	276.7	270.3	271.8	266.1	264.4	268.1	272.4	272.2	276.3	276.3
60,0°	247.6	245.5	244.2	239.0	236.3	232.0	232.9	238.4	241.6	244.4	244.4
62,5°	205.4	209.1	210.1	207.7	204.4	198.0	200.9	206.1	205.1	205.5	205.5
65,0°	177.5	177.6	176.7	178.2	173.4	171.3	172.2	176.4	174.3	174.3	174.3
67,5°	143.2	143.6	143.1	145.0	143.3	140.0	143.1	149.0	147.3	144.4	144.4
70,0°	114.9	113.5	112.8	112.7	112.4	110.9	112.3	119.6	115.8	111.4	111.4
72,5°	78.2	80.5	81.1	78.8	75.5	76.3	77.9	81.3	79.6	74.4	74.4
75,0°	50.1	48.6	45.8	43.9	43.4	42.5	42.2	43.8	44.5	42.1	42.1
77,5°	21.0	22.0	20.5	20.2	21.3	21.4	20.6	22.0	22.3	21.2	21.2
80,0°	9.7	9.8	9.3	9.1	9.7	10.1	9.8	10.2	9.9	9.2	9.2
82,5°	4.6	4.9	4.8	4.7	4.8	4.9	4.7	4.9	4.9	4.8	4.8
85,0°	2.3	2.4	2.4	2.3	2.3	2.3	2.3	2.4	2.4	2.3	2.3
87,5°	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.2	1.1	1.1	1.1
90,0°	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	50°	55°	60°	65°	70°	75°	80°	85°	90°	Phi-Zone	Summe Phi-Zone
	130°	125°	120°	115°	110°	105°	100°	95°			
	230°	235°	240°	245°	250°	255°	260°	265°			
	310°	305°	300°	295°	290°	285°	280°	275°			
γ	Lichtstärke in cd/klm									Lichtstrom in lm/klm	
0,0°	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	0.1	0.1
2,5°	93.6	93.6	93.8	93.7	93.8	93.9	94.0	94.0	94.0	1.1	1.3
5,0°	103.5	103.8	104.1	104.3	104.4	104.7	104.7	104.8	104.8	2.5	3.7
7,5°	120.8	121.4	122.0	122.4	122.6	123.0	123.1	123.2	123.3	4.3	8.1
10,0°	137.7	138.2	139.0	139.1	139.5	140.3	140.0	140.2	140.7	6.6	14.7
12,5°	149.2	149.7	150.7	150.0	150.0	150.8	150.0	149.8	150.7	8.9	23.5
15,0°	158.8	159.0	159.7	158.5	158.3	159.1	158.1	157.8	158.5	11.2	34.8
17,5°	172.6	172.6	172.5	172.3	172.4	172.6	172.5	172.7	172.9	14.2	48.9
20,0°	187.2	186.9	186.0	186.5	187.0	186.8	187.9	188.4	188.0	17.5	66.4
22,5°	198.9	198.8	197.2	198.1	198.3	197.6	199.7	199.8	198.5	20.8	87.3
25,0°	207.7	207.1	204.7	205.8	206.0	204.4	206.4	206.2	204.0	24.0	111.2
27,5°	215.2	215.1	211.4	213.0	213.8	212.2	213.4	213.2	211.2	27.1	138.3
30,0°	222.0	221.9	217.5	218.7	221.0	221.0	221.2	219.6	217.4	30.3	168.6
32,5°	230.7	230.2	225.0	226.1	228.5	226.7	226.4	226.4	224.8	33.7	202.3
35,0°	242.1	239.9	236.9	238.1	238.4	235.2	234.4	234.3	233.1	37.5	239.8
37,5°	257.9	254.0	251.8	253.1	250.1	245.3	243.6	245.6	246.2	41.9	281.6
40,0°	273.6	269.3	265.8	265.6	261.7	256.1	255.0	256.8	259.0	46.6	328.2
42,5°	285.3	281.6	279.0	274.3	269.2	263.3	265.7	264.5	267.2	51.1	379.3
45,0°	297.6	293.5	288.2	281.5	275.3	270.1	269.7	268.3	269.2	55.3	434.6
47,5°	302.4	302.0	297.7	297.7	286.4	279.5	278.0	272.6	267.2	59.4	494.0
50,0°	313.4	311.6	307.2	305.6	299.1	285.9	281.3	274.1	271.1	63.1	557.1
52,5°	323.8	318.5	305.3	297.3	291.6	281.4	286.1	278.0	266.0	65.8	622.9
55,0°	308.6	301.6	284.6	267.9	262.8	266.7	273.7	261.2	253.9	64.7	687.6
57,5°	281.4	273.7	260.4	243.6	239.6	241.8	248.4	242.0	234.7	60.7	748.3
60,0°	252.7	236.3	225.6	218.2	209.4	207.3	215.1	212.9	207.5	54.9	803.2
62,5°	210.3	199.3	188.5	191.6	187.9	180.1	183.3	184.8	175.8	48.1	851.3
65,0°	177.5	172.0	164.5	167.2	167.2	158.3	157.6	157.0	151.2	42.2	893.6
67,5°	143.0	139.2	137.6	142.5	139.9	135.1	129.6	129.7	130.3	35.6	929.2
70,0°	108.8	106.6	108.9	113.6	113.6	108.1	104.3	105.9	104.6	28.6	957.8
72,5°	72.6	73.7	76.1	79.3	78.8	76.0	73.7	73.5	74.9	20.1	977.9
75,0°	42.7	43.0	42.7	43.6	43.1	44.3	40.7	40.8	41.6	11.5	989.5
77,5°	21.9	21.5	21.5	22.1	20.4	19.9	19.5	19.9	19.4	5.6	995.1
80,0°	9.5	9.8	9.7	10.1	9.8	9.4	9.7	9.9	9.3	2.6	997.7
82,5°	4.9	5.0	4.9	5.3	5.0	4.8	5.1	5.2	4.9	1.3	999.0
85,0°	2.4	2.4	2.4	2.4	2.4	2.3	2.5	2.4	2.3	0.6	999.7
87,5°	1.2	1.1	1.2	1.2	1.2	1.2	1.2	1.1	1.2	0.3	1000.0
90,0°	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	4250	40.6	41.8	41.2
95	240	4032	38.4	39.4	38.9
90	227	3828	36.2	37.2	36.7
85	213	3606	34.0	34.9	34.4
80	200	3398	32.0	32.8	32.4
75	187	3189	29.9	30.7	30.3
70	174	2979	27.9	28.6	28.2
65	161	2765	25.8	26.5	26.2
60	148	2552	23.8	24.5	24.2
55	135	2336	21.8	22.4	22.1
50	122	2118	19.9	20.4	20.2
45	110	1915	18.1	18.6	18.4
40	97	1694	16.1	16.5	16.3
35	85	1488	14.4	14.8	14.6
30	73	1282	12.7	13.0	12.8
25	60	1055	10.9	11.1	11.0
20	48	845	9.2	9.4	9.3
15	36	633	7.5	7.6	7.6
12	29	508	6.5	6.6	6.6