

## Lichttechnischer Prüfbefund

Familie  
Silica® 21

Bestell-Nr.: 51MX37DA47WB  
EAN: 4058352885499

LP-Nummer  
59284\_74



**Ausführung** Pendelleuchte, Reflektor, weiß, direkt-/ indirekt strahlend, asymmetrisch strahlend

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Bemessungswerte** Nettolichtstrom = 7300 lm  
Systemleistung = 44.0 W  
Lichtausbeute = 165.9 lm/W

Seriendokumentation  
02.08.2023

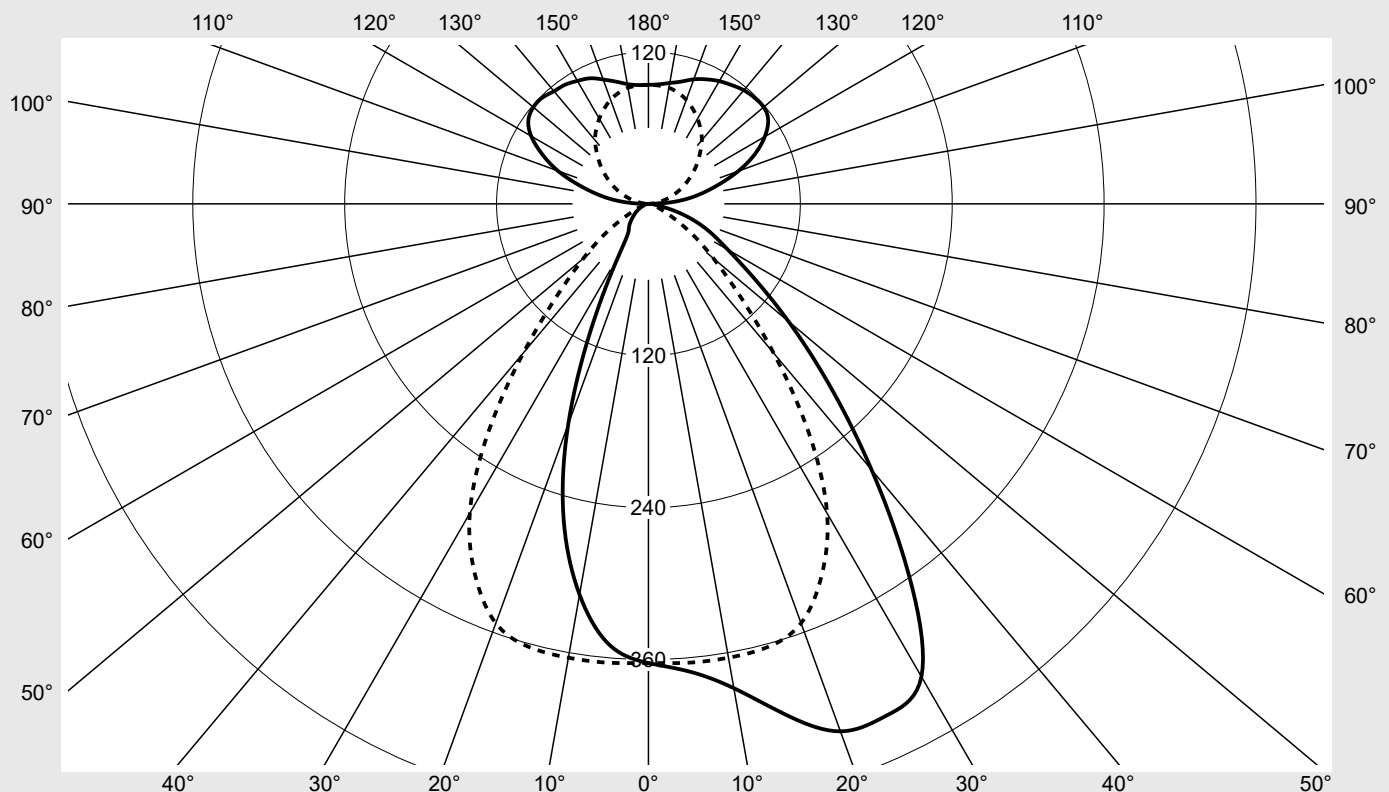
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 452 cd/klm



## Klassifizierungen

DIN 5040 C 5 2  
CIE N1=71 N2=92 N3=99  
N4=59 N5=100

## Leuchtenbetriebswirkungsgrade

$\eta_{LB}$  100,0%  
 $\phi_u$  59,0%  
 $\phi_o$  41,0%

## Messbedingungen

DIN EN 13032 und DIN 5032

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

C- Ebenen	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
$\gamma$	Lichtstärke in cd/klm						
0°	362.8	362.8	362.8	362.8	362.8	362.8	362.8
5°	370.9	371.6	370.9	369.3	368.9	367.2	363.9
10°	388.6	388.5	387.1	385.7	381.5	371.9	364.1
15°	417.6	422.5	420.8	414.5	399.0	379.0	362.6
20°	443.5	449.9	449.8	438.4	406.1	374.1	352.6
25°	445.9	451.8	444.0	423.3	391.5	349.7	323.9
30°	431.3	429.9	420.1	385.1	347.8	308.2	282.3
35°	359.2	357.5	355.5	331.7	286.9	244.3	220.9
40°	274.3	279.4	286.0	275.4	231.4	180.4	153.7
45°	201.9	208.2	223.0	216.2	179.6	126.4	101.0
50°	144.4	152.7	166.7	164.5	134.4	88.4	67.1
55°	100.9	110.3	125.4	123.1	101.8	61.8	43.4
60°	72.5	78.2	92.0	93.5	77.9	39.9	24.1
65°	54.7	57.3	65.1	70.1	53.6	24.1	12.4
70°	38.2	41.6	47.1	47.8	32.4	14.4	7.5
75°	21.3	25.0	32.7	24.9	16.8	8.6	4.2
80°	7.7	8.6	12.1	11.3	8.4	4.0	2.2
85°	3.8	3.9	4.0	3.3	2.1	1.6	1.4
90°	4.7	4.6	4.9	4.8	2.9	1.0	0.4
95°	22.0	22.5	24.1	22.9	14.6	7.5	3.9
100°	39.5	40.4	40.7	35.9	24.0	13.5	8.9
105°	56.3	57.6	56.5	48.2	33.0	20.4	15.0
110°	75.5	76.2	71.2	59.4	42.4	27.6	21.4
115°	92.7	91.8	84.6	69.6	51.2	34.9	28.6
120°	106.1	104.5	95.4	77.8	59.8	41.9	35.6
125°	115.5	112.5	102.3	85.9	66.7	48.6	43.0
130°	118.9	116.4	105.4	89.8	72.4	55.5	50.4
135°	118.5	116.1	106.5	93.2	76.8	62.2	57.9
140°	117.2	115.0	106.5	95.4	80.4	68.3	65.6
145°	114.6	113.5	107.0	96.5	83.7	73.9	71.9
150°	111.9	111.4	106.1	96.6	86.1	79.3	77.7
155°	108.5	108.5	103.0	95.9	88.2	84.3	82.8
160°	104.7	104.6	99.8	95.1	90.4	87.6	87.5
165°	100.0	99.6	96.8	93.8	91.9	90.5	90.8
170°	97.0	96.1	95.3	93.8	93.1	93.1	93.1
175°	94.8	94.4	93.7	93.5	93.8	93.7	93.8
180°	94.0	94.0	94.0	94.0	94.0	94.0	94.0

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

C- Ebenen	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°	Phi-Zone	Summe Phi-Zone
$\gamma$	Lichtstärke in cd/klm						Lichtstrom in lm/klm	
0°	362.8	362.8	362.8	362.8	362.8	362.8	2.2	2.2
5°	361.1	357.7	355.2	351.7	350.7	350.1	17.3	19.5
10°	354.6	345.8	334.7	324.3	315.6	313.4	34.1	53.6
15°	349.2	329.3	304.2	278.4	262.9	258.7	50.4	104.0
20°	331.4	301.7	258.1	215.5	192.6	185.2	63.8	167.8
25°	301.5	254.0	195.2	148.3	115.3	102.8	70.9	238.7
30°	250.8	197.1	132.9	80.9	53.4	46.2	71.4	310.1
35°	183.1	132.2	77.3	40.6	29.9	28.0	64.3	374.4
40°	120.2	80.2	41.8	27.0	24.2	23.8	54.3	428.7
45°	76.8	47.8	25.9	22.0	20.4	20.0	43.9	472.6
50°	49.9	29.0	19.6	18.1	16.6	16.0	34.5	507.1
55°	31.7	19.0	15.4	14.5	13.2	12.7	26.8	533.9
60°	17.1	12.8	11.6	11.2	10.2	9.6	20.2	554.1
65°	9.9	8.8	8.5	8.3	7.4	6.6	14.7	568.8
70°	6.3	5.9	5.8	5.6	5.0	4.4	10.3	579.1
75°	3.7	3.5	3.4	3.5	3.3	3.0	6.3	585.4
80°	2.1	2.0	2.0	2.1	2.0	2.0	2.8	588.2
85°	1.4	1.3	1.4	1.4	1.4	1.4	1.2	589.3
90°	1.0	2.9	4.8	4.8	4.6	4.7	1.9	591.2
95°	7.5	14.6	22.8	24.1	22.5	22.0	9.5	600.7
100°	13.5	23.9	35.5	40.7	40.4	39.1	16.0	616.8
105°	20.5	32.9	48.2	56.4	57.6	56.5	22.2	638.9
110°	27.6	42.2	59.3	71.4	75.9	76.1	27.9	666.9
115°	34.9	51.3	69.7	84.7	91.8	92.6	32.5	699.4
120°	42.0	59.5	78.1	95.7	105.1	106.9	35.7	735.1
125°	48.7	66.8	85.3	102.0	112.4	115.8	37.0	772.1
130°	55.5	71.9	90.3	105.2	115.9	118.7	36.7	808.7
135°	61.7	76.2	93.0	106.5	116.2	118.6	35.0	843.8
140°	67.8	79.8	95.1	107.1	114.8	116.1	32.7	876.4
145°	73.5	83.2	96.5	106.6	113.5	114.9	29.7	906.2
150°	78.9	86.2	96.2	105.0	111.8	112.2	26.2	932.4
155°	83.7	88.3	96.1	102.8	108.8	109.4	22.2	954.6
160°	87.9	89.8	95.3	99.8	104.2	104.5	17.9	972.5
165°	90.9	92.1	94.4	97.4	99.3	100.0	13.4	986.0
170°	93.1	93.4	94.5	95.5	96.0	96.1	9.0	994.9
175°	93.9	93.7	94.0	94.2	94.4	94.2	4.5	999.4
180°	94.0	94.0	94.0	94.0	94.0	94.0	0.6	1000.0

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UGR-Tabelle		Standardraum									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
x	y										
2H	2H	22,1	23,1	23,0	23,9	25,0	17,9	18,9	18,8	19,7	20,8
	3H	22,7	23,5	23,5	24,3	25,4	17,9	18,7	18,8	19,6	20,7
	4H	22,8	23,5	23,7	24,4	25,5	17,8	18,6	18,7	19,5	20,6
	6H	22,7	23,4	23,6	24,3	25,4	17,7	18,4	18,6	19,3	20,4
	8H	22,6	23,3	23,6	24,2	25,4	17,6	18,3	18,5	19,2	20,3
	12H	22,6	23,1	23,5	24,1	25,2	17,5	18,1	18,4	19,0	20,2
4H	2H	22,4	23,2	23,3	24,0	25,1	18,5	19,3	19,4	20,2	21,3
	3H	23,1	23,8	24,1	24,7	25,8	18,7	19,4	19,6	20,3	21,4
	4H	23,4	24,0	24,3	24,9	26,1	18,7	19,3	19,6	20,2	21,4
	6H	23,4	23,9	24,3	24,8	26,0	18,6	19,1	19,6	20,0	21,2
	8H	23,3	23,8	24,3	24,7	25,9	18,6	19,0	19,5	19,9	21,2
	12H	23,3	23,6	24,2	24,6	25,8	18,5	18,9	19,4	19,8	21,0
8H	4H	23,4	23,8	24,3	24,8	26,0	18,9	19,3	19,8	20,2	21,4
	6H	23,4	23,8	24,4	24,8	26,0	18,8	19,2	19,8	20,2	21,4
	8H	23,4	23,7	24,4	24,7	25,9	18,8	19,1	19,8	20,1	21,3
	12H	23,4	23,6	24,4	24,6	25,9	18,7	19,0	19,7	20,0	21,3
12H	4H	23,3	23,7	24,2	24,6	25,8	18,8	19,2	19,8	20,1	21,4
	6H	23,4	23,7	24,4	24,7	25,9	18,8	19,1	19,8	20,1	21,3
	8H	23,4	23,6	24,3	24,6	25,9	18,8	19,0	19,8	20,0	21,3

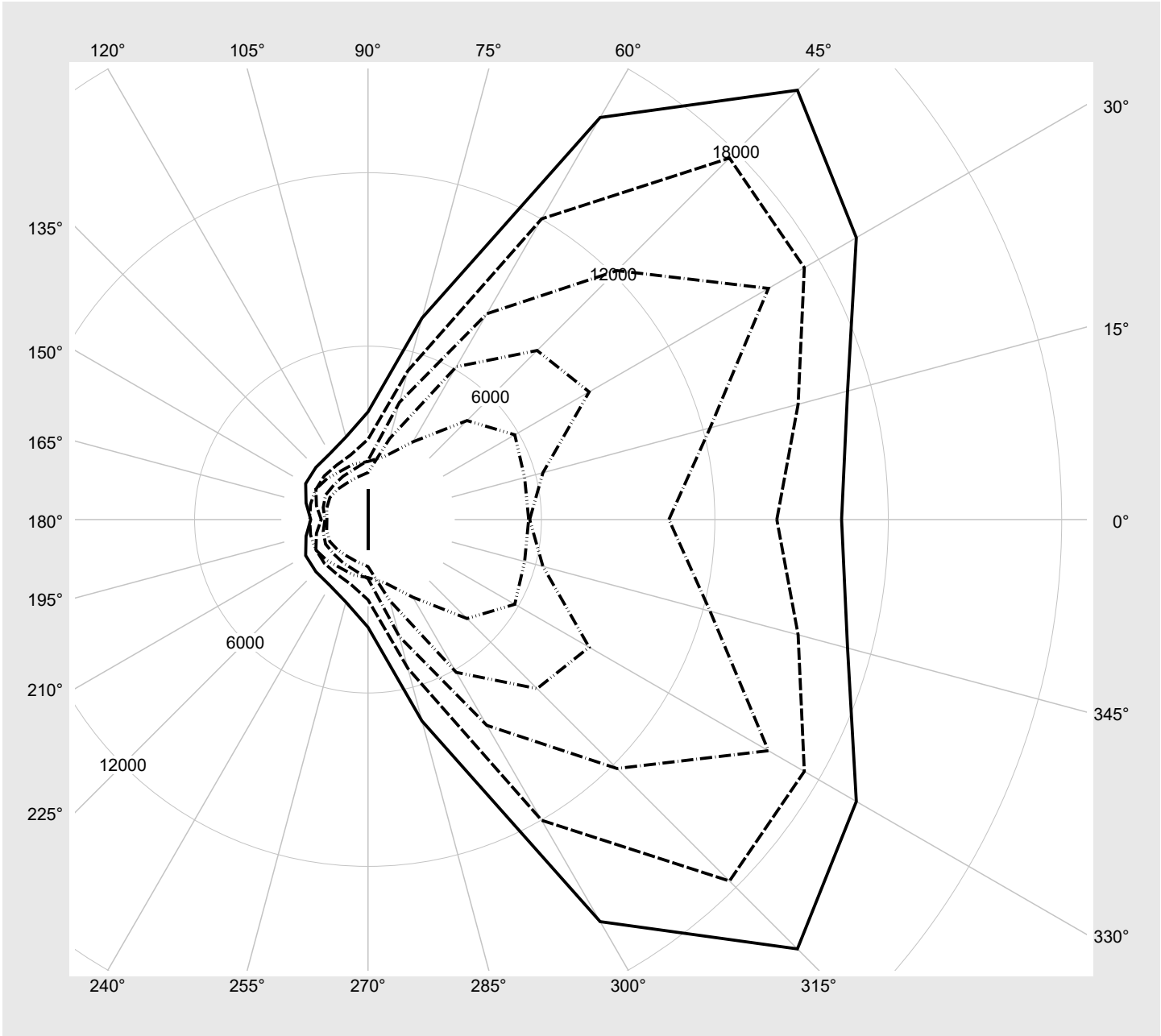
Leuchtdichten-Tabelle		Max. für $\gamma \geq 65^\circ$											
		Lichttechnische Abmessungen in mm:											L = 1176
		B = 49											
C-Ebenen	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°
$\gamma$	Leuchtdichte in cd/m <sup>2</sup>												
45°	36167.6	37298.2	39954.9	38741.3	32183.1	22646.4	18101.2	13762.7	8557.3	4643.4	3949.7	3661.3	3576.3
50°	28456.0	30086.1	32854.7	32413.9	26488.3	17427.4	13217.7	9834.5	5723.3	3866.2	3564.1	3264.9	3143.5
55°	22288.0	24363.2	27699.2	27181.9	22479.5	13655.2	9577.6	7001.4	4200.6	3393.8	3203.4	2911.7	2796.4
60°	18374.9	19821.1	23312.8	23681.2	19727.4	10120.7	6099.3	4340.9	3250.4	2933.0	2833.9	2577.8	2425.2
65°	16384.5	17176.1	19508.3	21009.2	16064.0	7217.3	3725.4	2955.0	2634.9	2551.2	2491.0	2219.1	1982.3
70°	14144.0	15405.6	17430.2	17686.5	12015.3	5331.5	2776.9	2316.1	2172.8	2137.6	2082.4	1847.5	1619.0
75°	10410.0	12252.3	15995.8	12181.4	8223.0	4195.2	2047.0	1810.5	1728.3	1681.3	1697.0	1604.0	1489.9
80°	5592.7	6265.3	8834.0	8273.0	6104.8	2902.8	1626.9	1508.0	1458.4	1484.6	1524.0	1481.7	1423.3
85°	5558.3	5609.2	5863.5	4843.2	3103.3	2267.5	2008.8	1982.6	1925.9	2004.4	2093.1	2058.2	2017.5

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**Leuchtdichten in cd/m<sup>2</sup>**

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°



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<b>Dimmstufen-Tabelle</b>	Umgebungstemperatur: 25°C	<b>sITeco</b>
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	7300	44.0
95	241	252	6946	41.8
90	227	250	6563	39.4
85	214	248	6204	37.2
80	201	245	5842	35.0
75	188	243	5479	32.8
70	175	240	5114	30.6
65	162	238	4746	28.5
60	149	234	4376	26.2
55	136	231	4003	24.1
50	124	228	3658	22.1
45	111	224	3282	20.0
40	99	219	2933	18.0
35	86	214	2552	15.9
30	74	209	2198	14.0
25	61	202	1812	11.8
20	49	194	1456	9.7
15	37	183	1097	7.8
10	25	169	738	5.9
5	13	145	377	4.0
2	6	117	166	3.4