

## Lichttechnischer Prüfbefund

<b>Familie</b> <b>Silica® 21</b>	<b>Bestell-Nr.: 51MX24DC3ABB</b> <b>EAN: 4058352905470</b>	<b>LP-Nummer</b> <b>59270_87</b>
	<b>Ausführung</b> Anbauleuchte, Reflektor, schwarz, direkt strahlend, asymmetrisch strahlend <b>Bestückung</b> LED 3000 K   CRI ≥ 80 <b>Betriebsgerät</b> EVG-DALI <b>Bemessungswerte</b> Nettolichtstrom = 10800 lm Systemleistung = 79.0 W Lichtausbeute = 136.7 lm/W	<b>Seriendokumentation</b> <b>02.08.2023</b>
		

Lichtstärke in cd/klm C180-0 C270-90 **Imax: 826 cd/klm**



Klassifizierungen	
DIN 5040	A 6 0
CIE	N1=74 N2=94 N3=99 N4=100 N5=100

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

**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°	652.0	652.0	652.0	652.0	652.0	652.0	652.0
5°	666.9	669.0	664.7	668.1	665.8	658.5	656.3
10°	694.1	699.5	694.9	697.8	687.8	669.7	657.2
15°	745.9	757.8	758.6	751.7	720.3	681.6	653.2
20°	797.2	810.9	815.9	795.0	737.5	674.0	633.0
25°	811.7	825.8	812.3	769.4	703.1	631.1	577.8
30°	788.3	790.4	769.6	695.9	622.5	550.2	501.9
35°	654.2	653.0	648.0	598.2	512.7	433.1	387.1
40°	493.4	503.0	513.6	491.7	407.8	312.4	261.1
45°	356.9	371.2	396.6	382.3	311.7	212.0	163.2
50°	252.0	264.9	292.8	285.3	227.0	141.1	102.4
55°	174.1	185.5	214.4	210.2	168.5	93.5	60.0
60°	116.9	126.6	154.3	157.4	127.4	55.1	26.1
65°	85.8	90.4	106.5	115.9	84.8	29.1	8.4
70°	58.6	65.3	76.1	78.1	49.1	15.0	3.2
75°	29.3	36.5	51.8	37.7	23.5	8.4	1.1
80°	4.9	7.0	15.4	15.1	10.7	3.3	0.5
85°	1.0	1.2	2.3	2.1	0.8	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	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
105°	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
115°	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
125°	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
135°	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
145°	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
155°	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
165°	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
175°	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

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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°	652.0	652.0	652.0	652.0	652.0	652.0	3.9	3.9
5°	648.8	644.3	634.4	624.8	623.0	624.2	31.1	35.0
10°	640.2	622.4	598.9	573.5	560.8	555.7	61.3	96.3
15°	627.5	590.3	536.8	485.9	456.2	443.8	90.0	186.3
20°	595.4	535.2	448.1	369.0	322.8	305.6	113.9	300.1
25°	535.8	444.7	330.5	240.5	178.2	155.1	126.1	426.3
30°	439.6	334.4	213.1	117.0	65.0	52.1	126.1	552.3
35°	312.5	213.9	111.2	44.6	25.1	21.7	112.1	664.4
40°	197.6	120.2	49.4	22.0	16.7	15.5	92.5	756.9
45°	117.6	62.5	22.8	14.8	11.5	10.5	72.7	829.5
50°	69.7	30.7	13.3	9.8	7.0	5.9	55.0	884.6
55°	38.5	15.6	8.4	6.0	3.7	3.2	40.9	925.5
60°	14.7	7.6	5.1	3.5	2.8	2.3	29.3	954.8
65°	4.9	3.9	3.0	2.5	1.8	1.2	20.5	975.2
70°	1.9	1.9	1.7	1.4	1.0	0.6	13.9	989.2
75°	0.7	0.9	0.9	0.8	0.6	0.5	7.8	997.0
80°	0.4	0.5	0.5	0.5	0.4	0.4	2.6	999.6
85°	0.4	0.4	0.4	0.4	0.3	0.3	0.4	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
95°	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	1000.0
105°	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	1000.0
115°	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	1000.0
125°	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	1000.0
135°	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	1000.0
145°	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	1000.0
155°	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	1000.0
165°	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	1000.0
175°	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	1000.0

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**siteco**

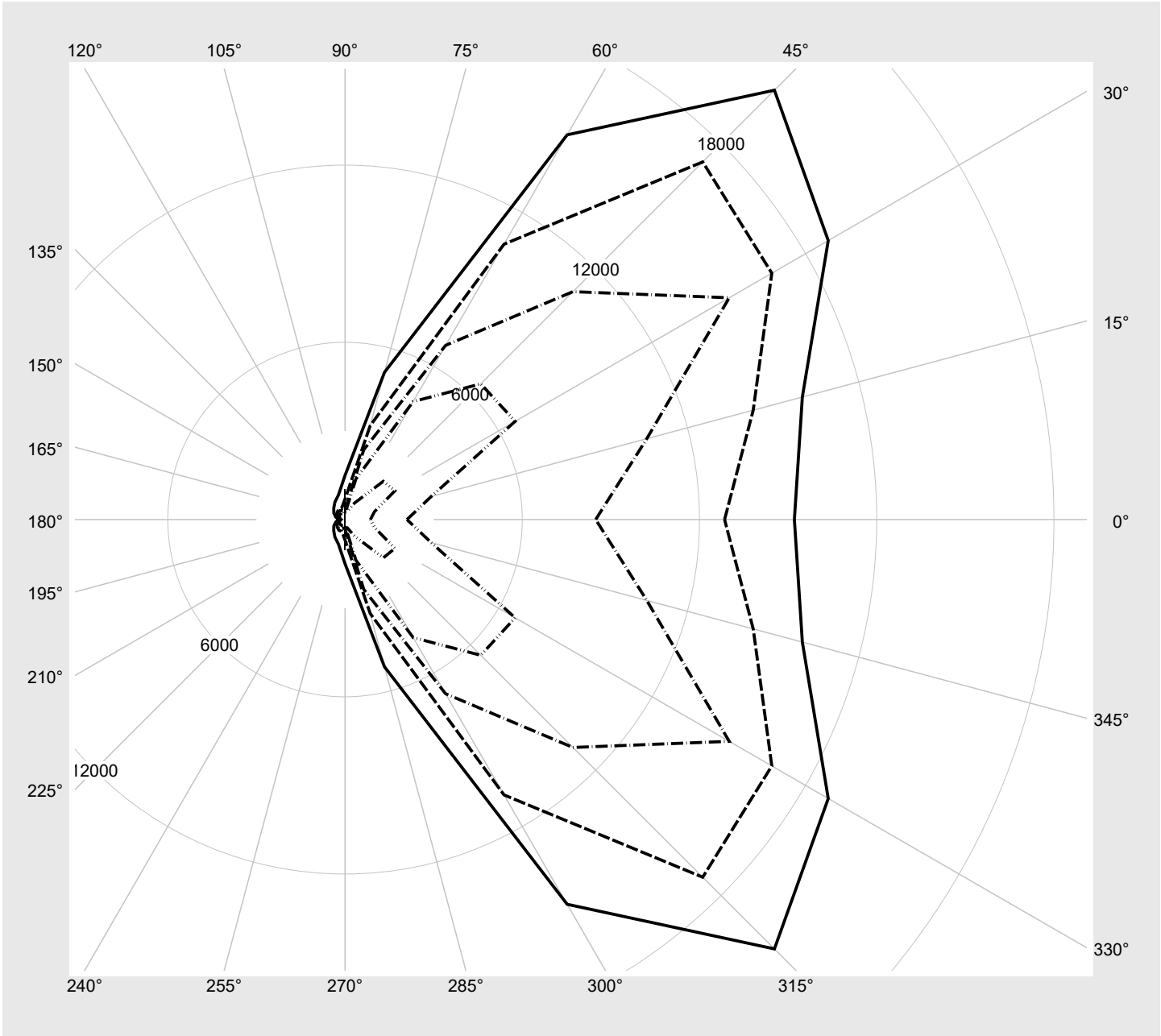
UGR-Tabelle		Standardraum									
Raumabmessungen		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
x	y										
2H	2H	25,0	26,4	25,4	26,7	27,0	20,4	21,8	20,8	22,1	22,4
	3H	25,5	26,8	25,9	27,1	27,5	20,4	21,6	20,7	21,9	22,3
	4H	25,7	26,8	26,1	27,2	27,5	20,3	21,5	20,7	21,8	22,2
	6H	25,7	26,7	26,1	27,1	27,5	20,2	21,3	20,7	21,7	22,1
	8H	25,6	26,6	26,1	27,0	27,4	20,2	21,2	20,7	21,6	22,0
	12H	25,7	26,5	26,1	26,9	27,3	20,3	21,1	20,7	21,5	21,9
4H	2H	25,4	26,5	25,8	26,9	27,3	21,2	22,4	21,6	22,8	23,1
	3H	26,1	27,1	26,5	27,5	27,9	21,4	22,4	21,8	22,8	23,2
	4H	26,4	27,2	26,8	27,6	28,1	21,4	22,2	21,8	22,7	23,1
	6H	26,4	27,1	26,8	27,5	28,0	21,3	22,1	21,8	22,5	23,0
	8H	26,3	27,0	26,8	27,4	27,9	21,3	22,0	21,8	22,4	22,9
	12H	26,3	26,9	26,8	27,4	27,9	21,3	21,9	21,8	22,3	22,8
8H	4H	26,4	27,1	26,9	27,5	28,0	21,6	22,3	22,1	22,7	23,2
	6H	26,5	27,0	26,9	27,5	28,0	21,6	22,1	22,1	22,6	23,1
	8H	26,4	26,9	26,9	27,4	27,9	21,6	22,0	22,1	22,5	23,1
	12H	26,4	26,8	26,9	27,3	27,8	21,5	21,9	22,1	22,4	23,0
12H	4H	26,4	27,0	26,9	27,4	27,9	21,7	22,2	22,2	22,7	23,2
	6H	26,5	26,9	27,0	27,4	27,9	21,6	22,1	22,1	22,6	23,1
	8H	26,4	26,8	26,9	27,3	27,8	21,6	22,0	22,1	22,5	23,0

Leuchtdichten-Tabelle		Max. für $\gamma \geq 65^\circ$												
		Lichttechnische Abmessungen in mm: L = 2940 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°		37839.4	39355.2	42043.7	40527.9	33048.7	22474.8	17303.7	12471.6	6626.9	2419.6	1571.7	1222.7	1112.6
50°		29386.5	30896.8	34153.2	33272.3	26476.2	16458.3	11940.3	8123.8	3582.1	1555.9	1146.8	814.9	682.8
55°		22760.1	24248.1	28024.4	27469.0	22017.9	12219.3	7847.1	5028.1	2036.2	1094.8	781.0	481.3	412.5
60°		17526.2	18986.4	23128.3	23597.5	19103.7	8263.5	3917.4	2206.5	1140.6	766.5	529.9	412.6	347.9
65°		15212.9	16028.7	18890.4	20558.2	15040.6	5161.0	1495.4	861.4	684.4	540.7	437.8	325.3	215.4
70°		12849.2	14306.8	16684.0	17124.5	10764.8	3293.6	697.7	416.9	416.9	369.6	307.5	221.8	135.9
75°		8486.1	10576.2	15018.4	10912.3	6809.8	2445.9	320.4	210.9	257.8	246.2	226.5	183.6	148.6
80°		2096.5	3022.1	6650.3	6498.8	4612.1	1426.9	203.8	192.1	227.1	233.1	221.5	192.1	174.8
85°		858.4	1032.2	1949.1	1833.0	649.4	289.9	278.7	313.1	348.4	359.6	336.3	289.9	278.7

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**Leuchtdichten in cd/m<sup>2</sup>**      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**



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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	10800	79.0
95	240	252	10250	74.7
90	227	250	9735	70.7
85	213	248	9176	66.4
80	200	245	8648	62.5
75	187	243	8115	58.5
70	174	240	7579	54.6
65	161	237	7040	50.8
60	148	234	6494	46.8
55	135	231	5945	43.0
50	122	227	5391	39.1
45	110	223	4872	35.6
40	97	219	4310	31.7
35	85	214	3787	28.2
30	73	208	3259	24.7
25	60	201	2684	20.9
20	48	193	2151	17.5
15	36	182	1611	13.8
10	24	168	1070	10.3
5	12	142	527	6.4
3	7	122	300	4.3