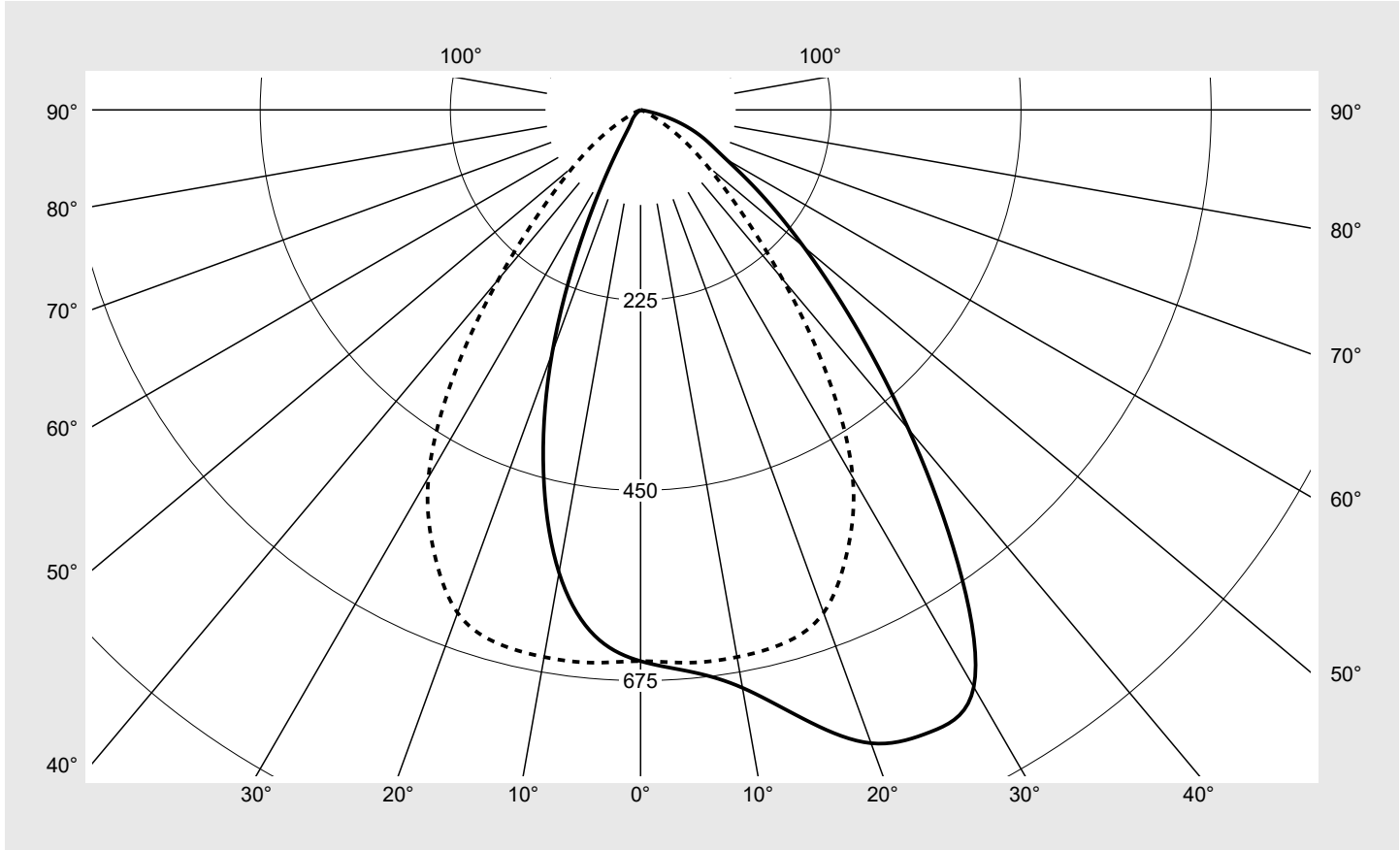


Lichttechnischer Prüfbefund

Familie Silica® 21	Bestell-Nr.: 51MX24DC4AWB EAN: 4058352905579	LP-Nummer 59270_80
	Ausführung Anbauleuchte, Reflektor, schwarz, direkt strahlend, asymmetrisch strahlend Bestückung LED 4000 K CRI ≥ 80 Betriebsgerät EVG-DALI Bemessungswerte Nettolichtstrom = 10800 lm Systemleistung = 73.7 W Lichtausbeute = 146.5 lm/W	Seriendokumentation 02.08.2023
		

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	
η_{LB}	100,0%
ϕ_u	100,0%
ϕ_o	0,0%

Messbedingungen
DIN EN 13032 und DIN 5032

Lichttechnischer Prüfbefund

Familie Silica® 21	Bestell-Nr.: 51MX24DC4AWB EAN: 4058352905579	LP-Nummer 59270_80
Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		siteco

C- Ebenen	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
γ	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

Lichttechnischer Prüfbefund

Familie Silica® 21	Bestell-Nr.: 51MX24DC4AWB EAN: 4058352905579	LP-Nummer 59270_80
Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		siteco

C- Ebenen	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°	Phi-Zone	Summe Phi-Zone
γ	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

Lichttechnischer Prüfbefund

Familie Silica® 21	Bestell-Nr.: 51MX24DC4AWB EAN: 4058352905579	LP-Nummer 59270_80
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UGR-Tabelle		Standardraum									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
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°
γ	Leuchtdichte in cd/m ²												
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

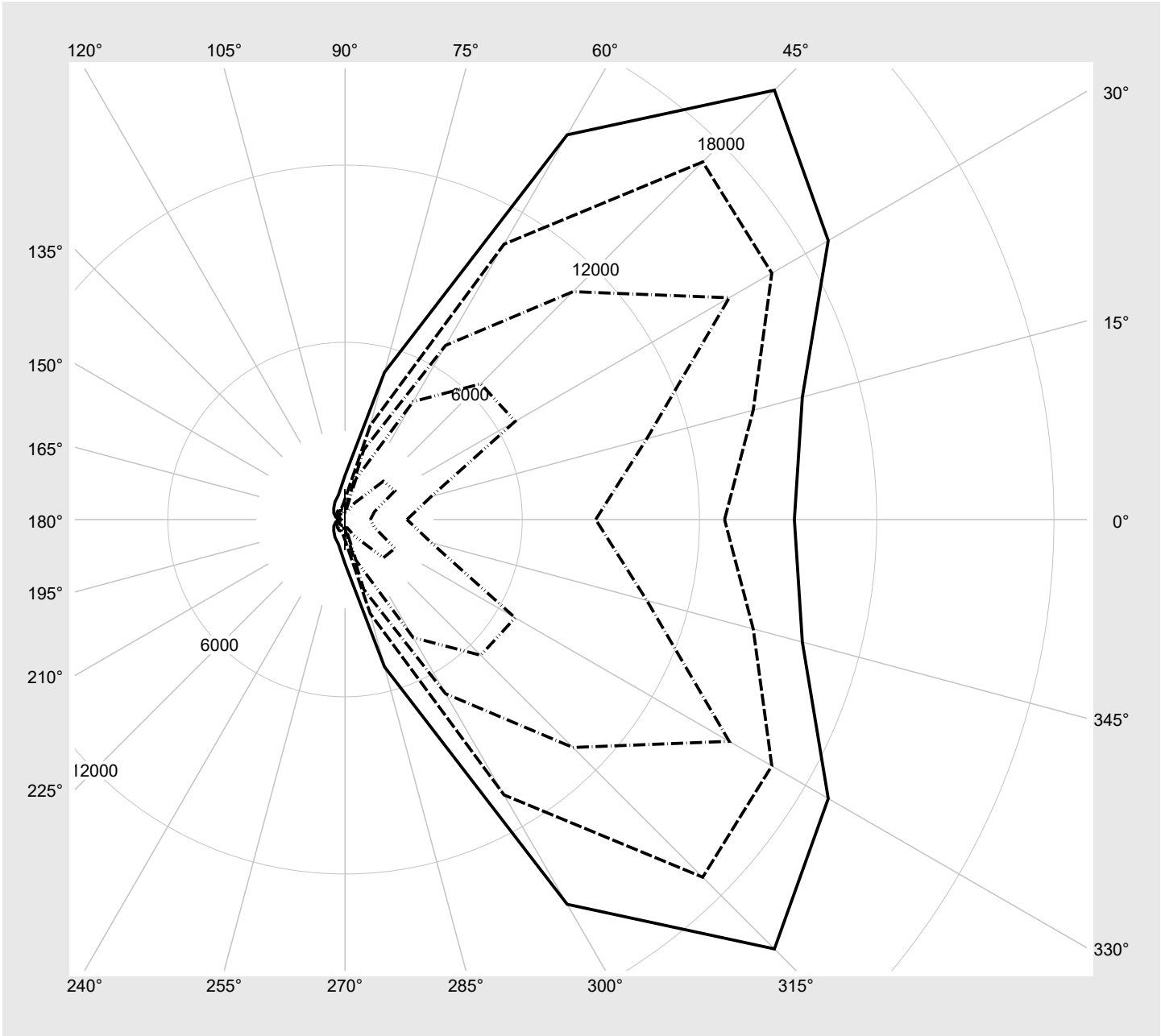
Lichttechnischer Prüfbefund

Familie Silica® 21	Bestell-Nr.: 51MX24DC4AWB EAN: 4058352905579	LP-Nummer 59270_80
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Leuchtdichten in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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Lichttechnischer Prüfbefund

Familie Silica® 21	Bestell-Nr.: 51MX24DC4AWB EAN: 4058352905579	LP-Nummer 59270_80
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Dimmstufen-Tabelle	Umgebungstemperatur: 25°C	sITeco
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	10800	73.7
95	240	252	10245	69.7
90	227	250	9725	66.0
85	214	248	9198	62.4
80	200	245	8625	58.3
75	187	243	8091	54.8
70	174	240	7554	51.1
65	161	237	7011	47.5
60	148	234	6466	43.8
55	136	231	5958	40.5
50	123	227	5401	37.0
45	110	223	4843	33.4
40	98	219	4325	30.0
35	85	214	3759	26.4
30	73	208	3235	23.3
25	61	202	2707	20.0
20	49	194	2176	16.9
15	37	183	1640	13.4
10	24	168	1060	9.8
5	12	142	521	6.1
3	7	122	295	4.1