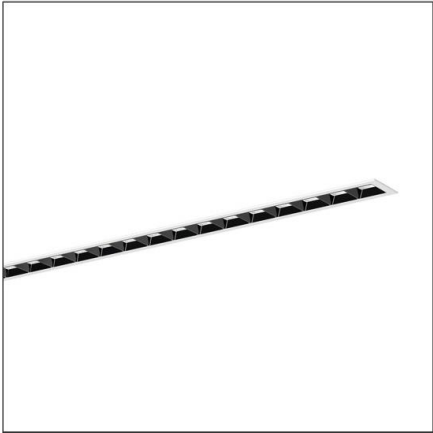


Lichttechnischer Prüfbefund

Familie
Silica® 21



Bestell-Nr.: 51MX14DP4AWB
EAN: 4069025130013

Ausführung

Bestückung

Betriebsgerät

Bemessungswerte

Einbauleuchte, Reflektor, schwarz, direkt strahlend, asymmetrisch strahlend

LED 4000 K | CRI ≥ 80

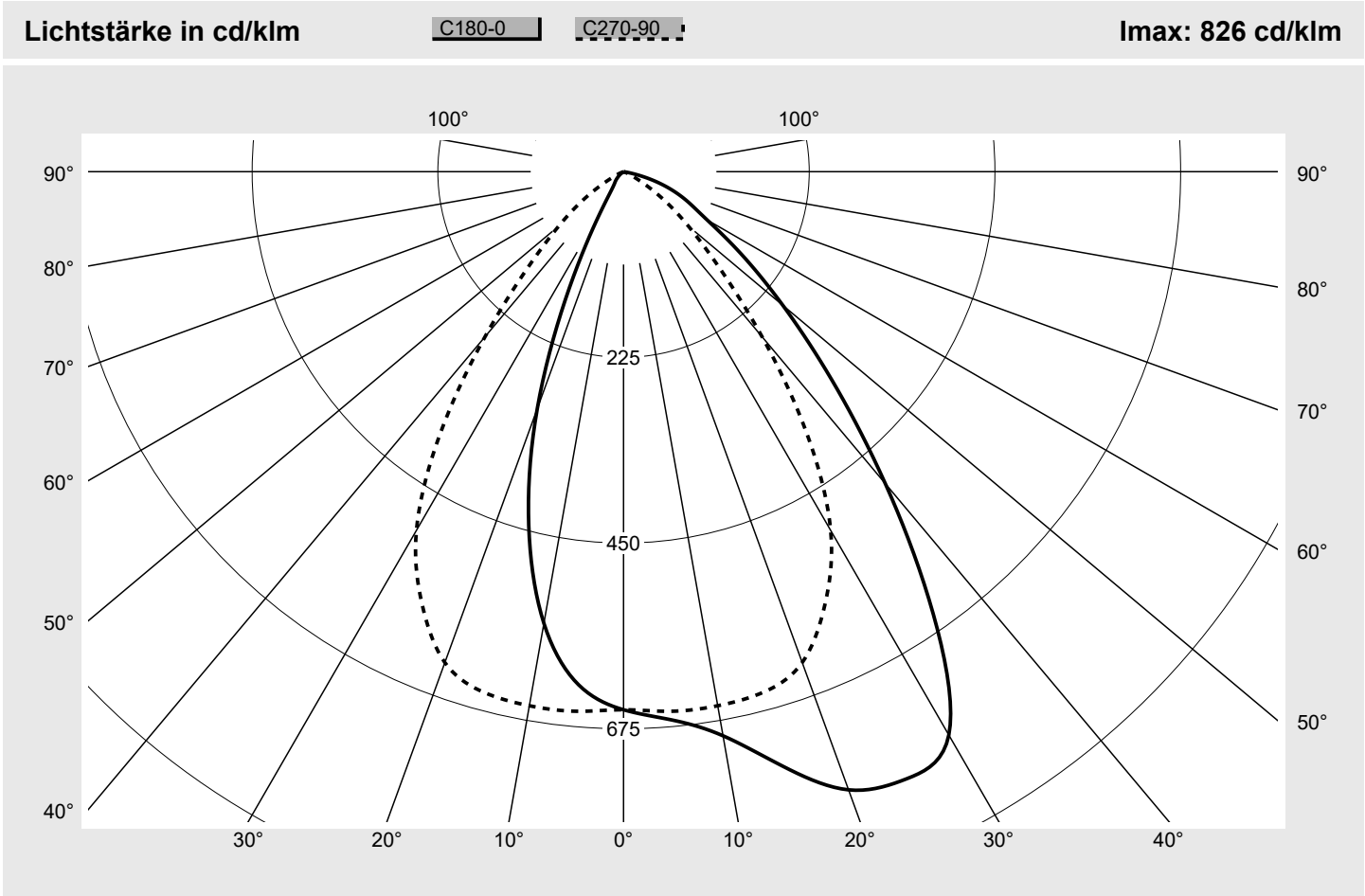
EVG-DALI

Nettolichtstrom = 11880 lm
Systemleistung = 80.7 W
Lichtausbeute = 147.2 lm/W

LP-Nummer
59270_141

Seriendokumentation
22.05.2024

siteco



Klassifizierungen		Leuchtenbetriebswirkungsgrade	
DIN 5040	A 6 0	η_{LB}	100,0%
CIE	N1=74 N2=94 N3=99	ϕ_u	100,0%
	N4=100 N5=100	ϕ_o	0,0%

Messbedingungen
DIN EN 13032 und DIN 5032

Lichttechnischer Prüfbefund

Familie Silica® 21	Bestell-Nr.: 51MX14DP4AWB EAN: 4069025130013	LP-Nummer 59270_141
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.: 51MX14DP4AWB EAN: 4069025130013				LP-Nummer 59270_141	
Wertetabelle Lichtstärkemessung							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

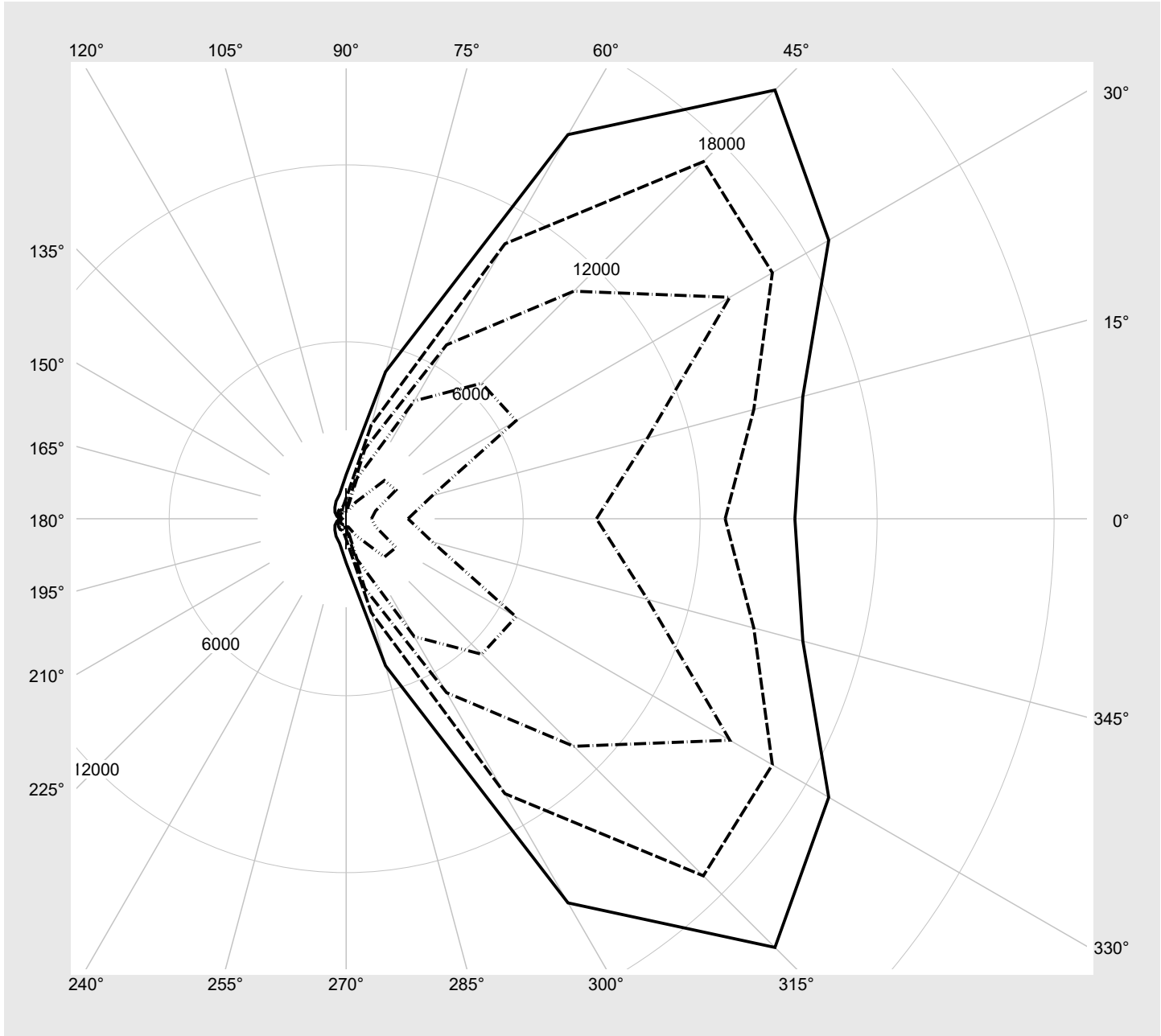
Familie Silica® 21			Bestell-Nr.: 51MX14DP4AWB EAN: 4069025130013						LP-Nummer 59270_141		
UGR-Tabelle			Standardraum						siteco		
Reflexionsgrad Decke		0,7	0,7	0,5	0,5	0,3	0,7	0,7	0,5	0,5	0,3
Reflexionsgrad Wände		0,5	0,3	0,5	0,3	0,3	0,5	0,3	0,5	0,3	0,3
Reflexionsgrad Boden		0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2
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 = 3234 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/m²												
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.: 51MX14DP4AWB EAN: 4069025130013	LP-Nummer 59270_141
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.: 51MX14DP4AWB EAN: 4069025130013	LP-Nummer 59270_141
Dimmstufen-Tabelle		Umgebungstemperatur: 25°C

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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	11880	80.7
95	240	252	11269	76.4
90	227	250	10697	72.8
85	214	248	10119	69.1
80	200	245	9488	65.1
75	187	243	8901	61.3
70	174	240	8309	57.4
65	161	237	7713	53.5
60	148	234	7112	49.4
55	136	231	6554	45.7
50	123	227	5941	41.6
45	110	223	5327	37.5
40	98	219	4757	33.6
35	85	214	4136	29.3
30	73	208	3558	25.3
25	61	202	2978	21.3
20	49	194	2394	17.6
15	37	183	1804	13.7
10	24	168	1165	9.4
5	12	142	573	5.4
3	7	122	325	3.8