

Lichttechnischer Prüfbefund

Familie
Silica® 21

Bestell-Nr.: 51MX21DB45BB
EAN: 4058352896013

LP-Nummer
59268_82



Ausführung Anbauleuchte, Reflektor, schwarz, direkt strahlend, eng strahlend, UGR≤19 (L65≤3000cd/m²)

Bestückung LED 4000 K | CRI ≥ 80

Betriebsgerät EVG-DALI

Bemessungswerte Nettolichtstrom = 5400 lm
Systemleistung = 32.0 W
Lichtausbeute = 168.8 lm/W

Seriendokumentation
02.08.2023

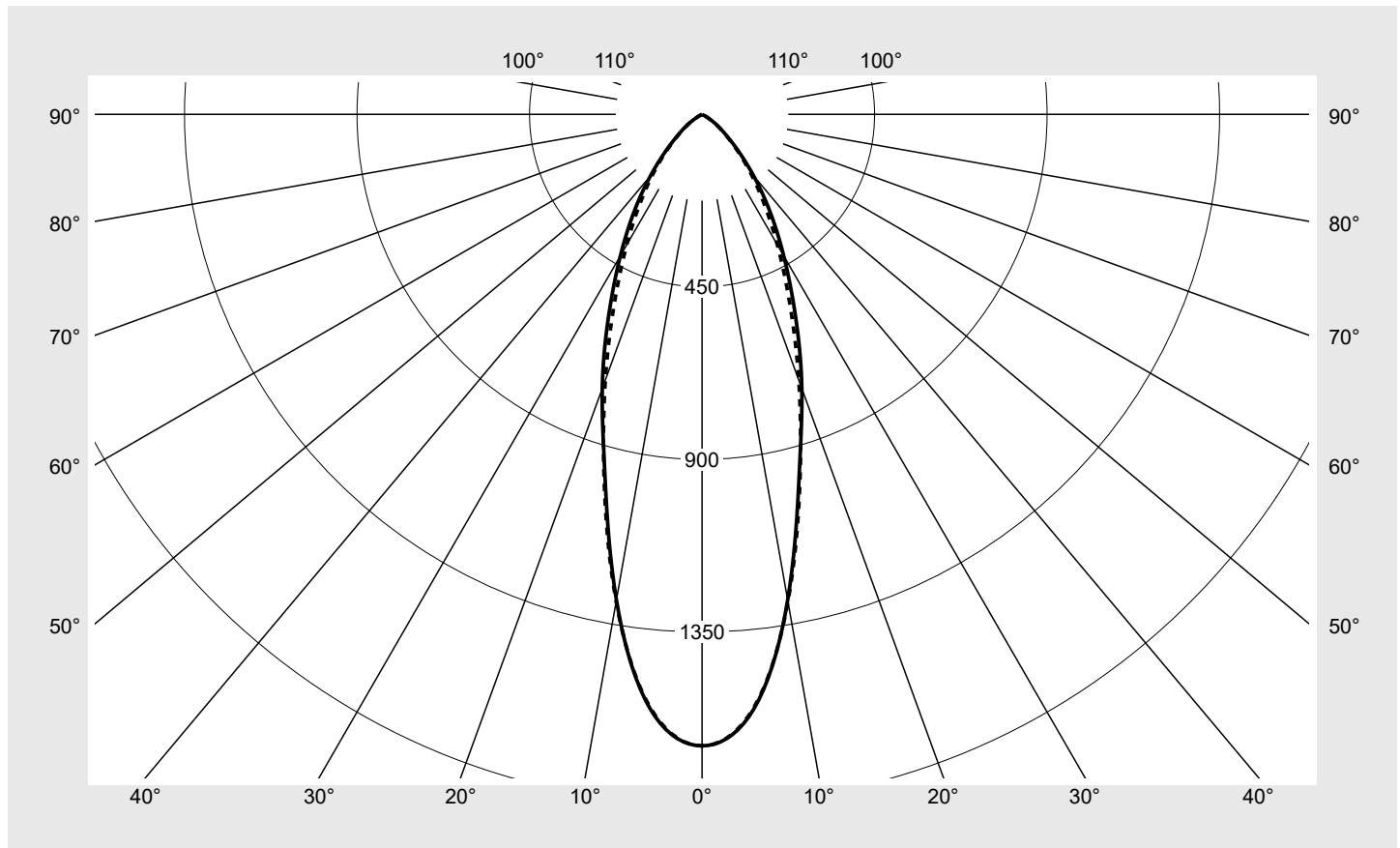
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 1647 cd/klm



Klassifizierungen

DIN 5040 A 7 0
CIE N1=87 N2=99 N3=100
N4=100 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 100,0%
 ϕ_o 0,0%

Messbedingungen

DIN EN 13032 und DIN 5032

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Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		sITeco

C- Ebenen	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-Zone	Summe Phi-Zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
γ									
Lichtstärke in cd/klm									
Lichtstrom in lm/klm									
0°	1647.1	1647.1	1647.1	1647.1	1647.1	1647.1	1647.1	9.9	9.9
5°	1556.0	1552.2	1545.4	1552.7	1555.3	1549.6	1552.8	74.1	84.0
10°	1286.3	1288.4	1295.0	1311.1	1307.0	1291.2	1290.4	123.4	207.4
15°	978.4	985.5	998.6	1011.3	1007.8	991.2	986.9	141.3	348.7
20°	761.0	758.1	743.8	731.7	736.2	737.5	737.7	139.2	488.0
25°	575.0	565.5	534.1	513.6	528.8	542.8	539.9	125.2	613.2
30°	426.0	419.2	386.1	366.4	385.1	401.9	392.9	108.2	721.3
35°	308.0	307.0	281.1	264.9	280.7	295.5	280.0	90.3	811.6
40°	209.2	211.1	196.7	188.3	198.2	205.5	193.0	70.5	882.1
45°	130.5	131.9	127.1	124.8	130.2	130.3	123.1	49.8	932.0
50°	76.5	78.3	78.7	78.6	80.6	77.5	73.2	32.8	964.8
55°	42.1	44.0	46.1	47.2	47.6	43.6	40.6	20.2	985.0
60°	13.4	16.3	24.8	26.9	25.6	18.0	14.5	9.9	994.9
65°	4.2	5.2	7.6	13.7	8.3	5.3	4.6	3.7	998.6
70°	1.7	1.8	1.5	2.7	1.9	2.1	2.2	1.0	999.6
75°	0.3	0.5	0.5	0.6	0.6	0.6	0.4	0.3	999.9
80°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	999.9
85°	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	1000.0
90°	0.0	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	0.0	1000.0
100°	0.0	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	0.0	1000.0
110°	0.0	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	0.0	1000.0
120°	0.0	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	0.0	1000.0
130°	0.0	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	0.0	1000.0
140°	0.0	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	0.0	1000.0
150°	0.0	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	0.0	1000.0
160°	0.0	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	0.0	1000.0
170°	0.0	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	0.0	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

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UGR-Tabelle		Standardraum									
Raumabmessungen		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
x	y										
2H	2H	17,1	18,3	17,5	18,6	18,9	17,0	18,2	17,4	18,5	18,8
	3H	17,0	18,0	17,3	18,4	18,7	16,9	17,9	17,2	18,3	18,6
	4H	16,9	17,9	17,3	18,2	18,6	16,8	17,8	17,2	18,1	18,5
	6H	16,8	17,7	17,3	18,1	18,5	16,7	17,6	17,2	18,0	18,4
	8H	16,9	17,6	17,3	18,0	18,4	16,8	17,5	17,2	17,9	18,3
	12H	16,9	17,5	17,3	17,9	18,3	16,8	17,4	17,2	17,8	18,2
4H	2H	17,0	18,0	17,4	18,4	18,7	16,9	17,9	17,3	18,3	18,6
	3H	16,9	17,7	17,3	18,1	18,5	16,8	17,6	17,2	18,0	18,4
	4H	16,8	17,5	17,2	17,9	18,3	16,7	17,4	17,1	17,8	18,2
	6H	16,7	17,3	17,2	17,7	18,2	16,6	17,2	17,1	17,6	18,1
	8H	16,6	17,2	17,1	17,6	18,1	16,6	17,1	17,0	17,5	18,0
	12H	16,6	17,1	17,1	17,5	18,0	16,5	17,0	17,0	17,4	17,9
8H	4H	16,6	17,2	17,1	17,6	18,1	16,6	17,1	17,0	17,5	18,0
	6H	16,5	17,0	17,0	17,4	18,0	16,4	16,9	16,9	17,3	17,9
	8H	16,5	16,8	17,0	17,3	17,9	16,4	16,8	16,9	17,2	17,8
	12H	16,5	16,7	17,0	17,2	17,8	16,4	16,6	16,9	17,1	17,7
12H	4H	16,6	17,1	17,1	17,5	18,0	16,6	17,0	17,0	17,4	17,9
	6H	16,5	16,8	17,0	17,3	17,9	16,4	16,8	16,9	17,2	17,8
	8H	16,5	16,7	17,0	17,2	17,8	16,4	16,6	16,9	17,1	17,7

Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$

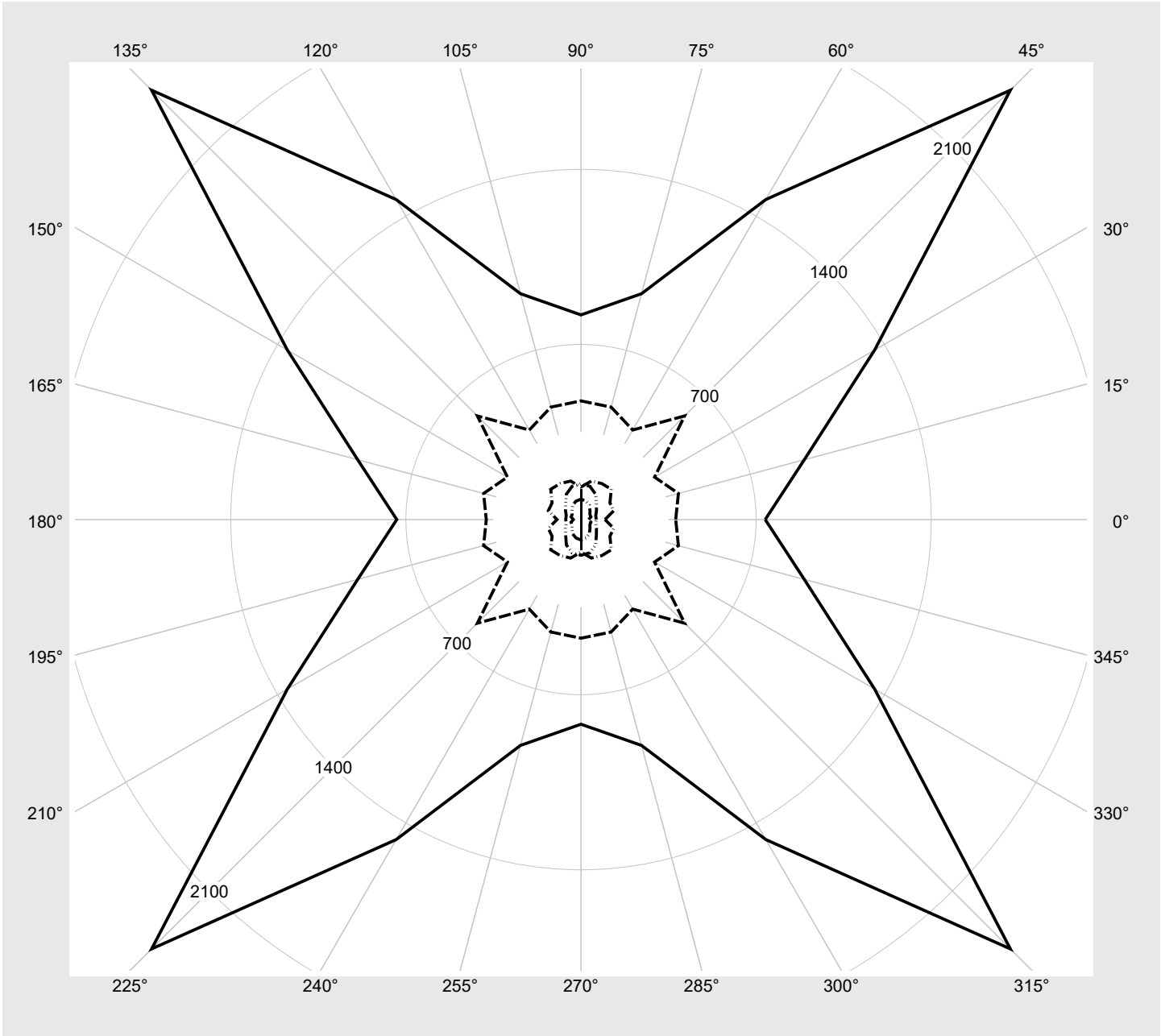
Lichttechnische Abmessungen in mm: **L = 1470**
B = 49

C- Ebenen	γ	Leuchtdichte in cd/m ²						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		13837.3	13986.0	13475.6	13233.6	13804.1	13819.2	13053.7
50°		8925.4	9130.3	9184.1	9166.8	9400.7	9037.8	8535.2
55°		5509.0	5751.6	6021.4	6172.9	6227.0	5700.7	5312.7
60°		2003.8	2439.0	3713.1	4029.6	3843.3	2697.1	2177.5
65°		736.4	924.0	1355.3	2427.2	1477.0	934.7	818.1
70°		378.5	403.1	339.5	585.9	413.4	465.3	474.3
75°		95.9	135.3	133.5	171.2	166.3	159.3	130.1
80°		30.7	41.0	41.0	50.9	66.5	76.4	81.6
85°		61.1	61.1	71.4	86.9	117.0	137.6	142.8

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Leuchtdichten in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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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	5400	32.0
95	241	252	5139	30.3
90	227	250	4853	28.5
85	214	248	4589	26.8
80	201	245	4323	25.2
75	188	243	4055	23.6
70	175	240	3785	21.9
65	162	238	3513	20.3
60	149	234	3239	18.7
55	136	231	2962	17.1
50	124	228	2707	15.7
45	111	224	2429	14.0
40	99	219	2170	12.5
35	86	214	1888	11.0
30	74	209	1628	9.6
25	61	202	1343	8.2
20	49	194	1079	6.8
15	37	183	813	5.4
10	25	169	546	4.0
5	13	145	279	2.5
3	8	127	167	1.5