

Lichttechnischer Prüfbefund

Familie
Silica® 21

Bestell-Nr.: 51MX6KDU34B
EAN: 4058352988848

LP-Nummer
59266_199

Seriendokumentation
20.10.2023



Ausführung Einbauleuchte für Einlegemontage, schwarz, quadratisch M625, Reflektor, schwarz, breit strahlend, $UGR \leq 19$ ($L65 \leq 1000 \text{ cd/m}^2$)

Bestückung LED 3000 K | CRI ≥ 80

Betriebsgerät EVG-DALI

Bemessungswerte Nettolichtstrom = 4600 lm
Systemleistung = 31.9 W
Lichtausbeute = 144.2 lm/W

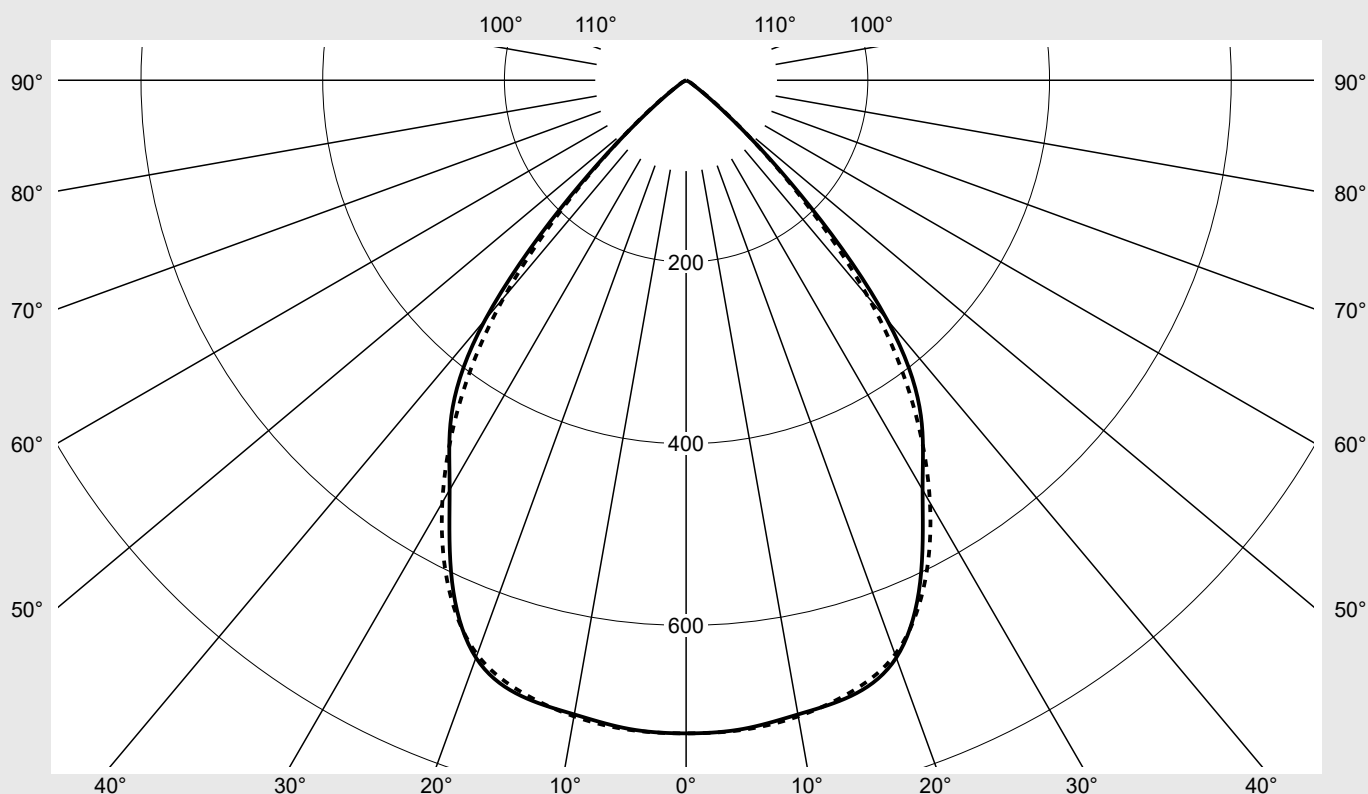
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 719 cd/klm



Klassifizierungen

DIN 5040 A 6 0
CIE N1=86 N2=100 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°			
Lichtstärke in cd/klm								Lichtstrom in lm/klm	
γ									
0°	718.8	718.8	718.8	718.8	718.8	718.8	718.8	4.3	4.3
5°	716.8	715.7	712.2	716.2	717.8	715.2	717.7	34.2	38.5
10°	708.8	709.0	703.3	708.6	709.9	707.6	710.9	67.4	105.9
15°	701.5	704.3	697.3	698.3	698.8	696.7	697.6	99.2	205.1
20°	676.3	682.5	681.1	681.0	677.6	673.2	672.5	127.2	332.2
25°	609.5	618.9	627.5	636.4	634.5	625.9	617.8	145.0	477.3
30°	520.6	528.9	533.1	542.9	550.7	541.7	536.8	147.4	624.6
35°	450.5	455.7	444.2	436.3	445.0	443.0	435.2	139.8	764.4
40°	343.9	350.9	343.2	332.9	329.4	321.5	312.0	117.8	882.2
45°	178.2	185.2	190.8	192.2	186.9	176.3	167.1	71.3	953.5
50°	59.7	64.4	73.8	78.7	75.2	68.1	63.7	29.5	983.0
55°	15.6	18.5	24.7	31.2	26.2	20.2	17.4	10.3	993.3
60°	6.1	6.8	9.1	12.2	9.8	7.7	7.0	4.1	997.4
65°	2.1	2.4	3.4	4.3	3.8	3.0	2.8	1.6	999.0
70°	1.4	1.4	1.0	1.0	1.2	1.5	1.5	0.7	999.7
75°	0.3	0.4	0.3	0.4	0.4	0.5	0.4	0.2	999.9
80°	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1	999.9
85°	0.0	0.0	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									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
x	y										
2H	2H	19,3	20,5	19,6	20,9	21,2	19,1	20,4	19,4	20,7	21,0
	3H	19,1	20,2	19,5	20,6	20,9	18,9	20,1	19,3	20,4	20,8
	4H	19,1	20,1	19,5	20,4	20,8	18,9	19,9	19,3	20,3	20,6
	6H	19,0	19,9	19,4	20,3	20,7	18,8	19,7	19,2	20,1	20,5
	8H	19,0	19,8	19,5	20,2	20,6	18,9	19,7	19,3	20,1	20,5
	12H	19,0	19,7	19,4	20,1	20,6	18,8	19,6	19,3	20,0	20,4
4H	2H	19,1	20,1	19,5	20,5	20,8	18,9	19,9	19,3	20,3	20,7
	3H	18,9	19,8	19,3	20,2	20,6	18,7	19,6	19,2	20,0	20,4
	4H	18,8	19,6	19,3	20,0	20,4	18,7	19,4	19,1	19,8	20,3
	6H	18,7	19,4	19,2	19,8	20,3	18,6	19,2	19,0	19,6	20,1
	8H	18,7	19,3	19,2	19,7	20,2	18,5	19,1	19,0	19,6	20,0
	12H	18,7	19,2	19,2	19,6	20,1	18,5	19,0	19,0	19,5	20,0
8H	4H	18,7	19,3	19,2	19,7	20,2	18,5	19,1	19,0	19,6	20,0
	6H	18,6	19,1	19,1	19,5	20,1	18,4	18,9	18,9	19,4	19,9
	8H	18,5	19,0	19,1	19,4	20,0	18,4	18,8	18,9	19,3	19,8
	12H	18,5	18,8	19,0	19,3	19,9	18,3	18,7	18,9	19,2	19,7
12H	4H	18,7	19,2	19,2	19,6	20,1	18,5	19,0	19,0	19,5	20,0
	6H	18,6	19,0	19,1	19,4	20,0	18,4	18,8	18,9	19,3	19,8
	8H	18,5	18,8	19,0	19,3	19,9	18,3	18,7	18,9	19,2	19,7

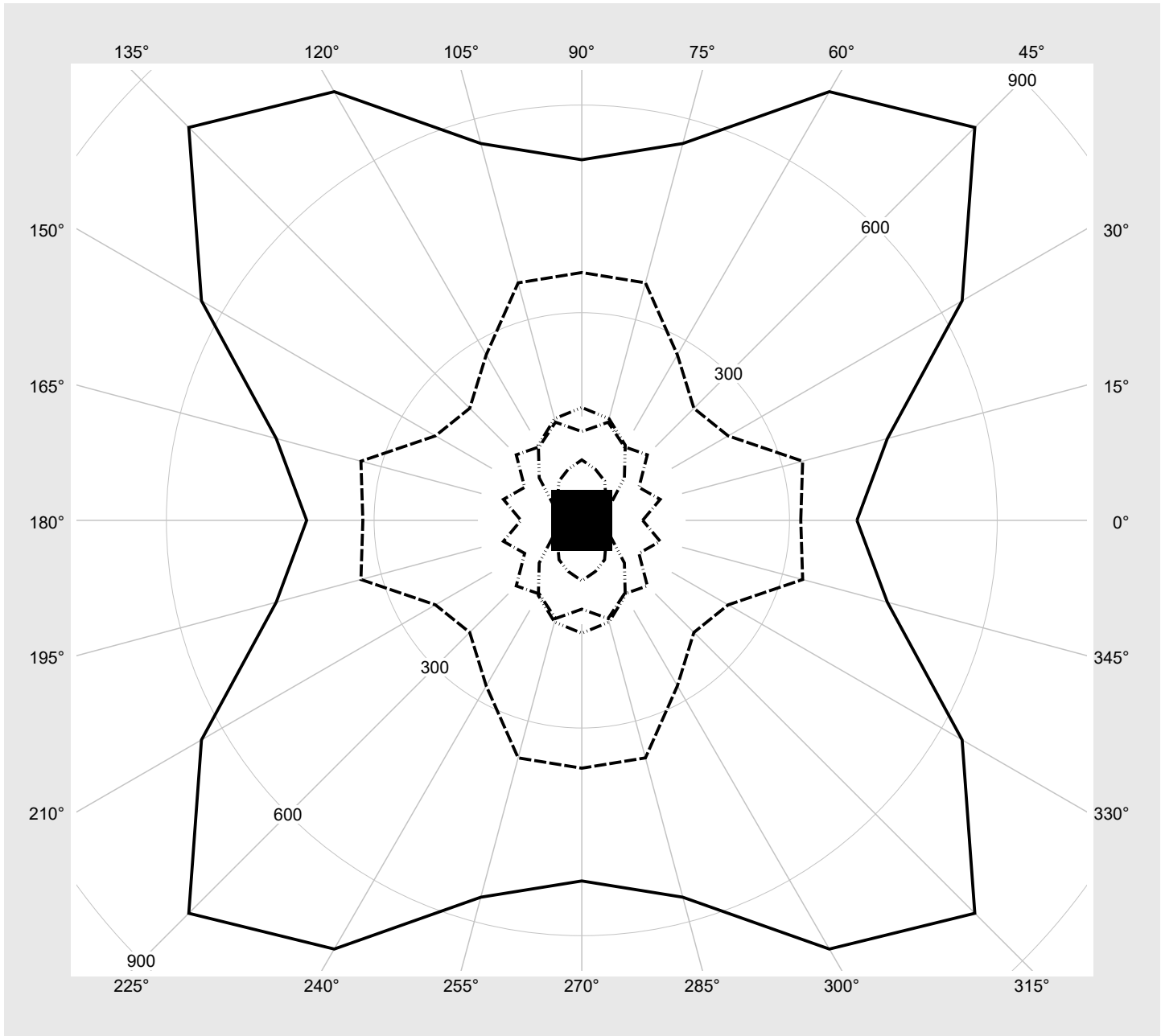
Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$	Lichttechnische Abmessungen in mm: L = 294 B = 196
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C- Ebenen	γ	Leuchtdichte in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		20118.4	20912.3	21535.7	21699.5	21100.8	19897.6	18867.6	
50°		7419.0	8002.9	9160.5	9769.5	9333.9	8459.8	7916.6	
55°		2172.4	2572.8	3432.3	4346.6	3644.2	2815.2	2422.4	
60°		973.7	1088.5	1459.6	1947.3	1570.7	1229.0	1112.3	
65°		397.4	456.9	634.3	802.8	715.1	563.6	521.0	
70°		316.3	330.3	244.1	229.0	276.1	355.2	358.0	
75°		87.9	117.2	95.3	133.9	122.8	146.8	128.3	
80°		22.1	22.1	32.6	49.2	65.7	76.3	87.3	
85°		22.0	38.5	48.5	87.0	125.5	152.0	163.0	

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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	4600	31.9
95	240	252	4371	30.1
90	226	250	4137	28.5
85	212	247	3902	26.8
80	199	245	3681	25.2
75	186	243	3456	23.5
70	172	240	3212	21.9
65	159	237	2984	20.4
60	146	234	2752	18.8
55	134	231	2536	17.4
50	121	227	2299	15.9
45	109	223	2079	14.5
40	96	218	1839	12.8
35	84	213	1614	11.3
30	72	208	1387	9.9
25	60	201	1159	8.5
20	48	193	928	7.1
15	36	182	697	5.7
10	24	168	462	4.4
5	12	142	228	3.0
2	4	102	70	2.0