

Photometric test report

Family
Silica® 21 round S

Order number: 51MF41DAENWA
EAN: 4069025808837

LP number
60071_61



Version Suspended luminaire, housing, white, cover, opal, direct extremely wide distribution, UGR≤22

Lamps LED 4000 K | CRI ≥ 90

Controlgear ECG-DALI

Rated values Net luminous flux = 2190 lm
Power consumption = 15.0 W
Luminous efficacy = 146 lm/W

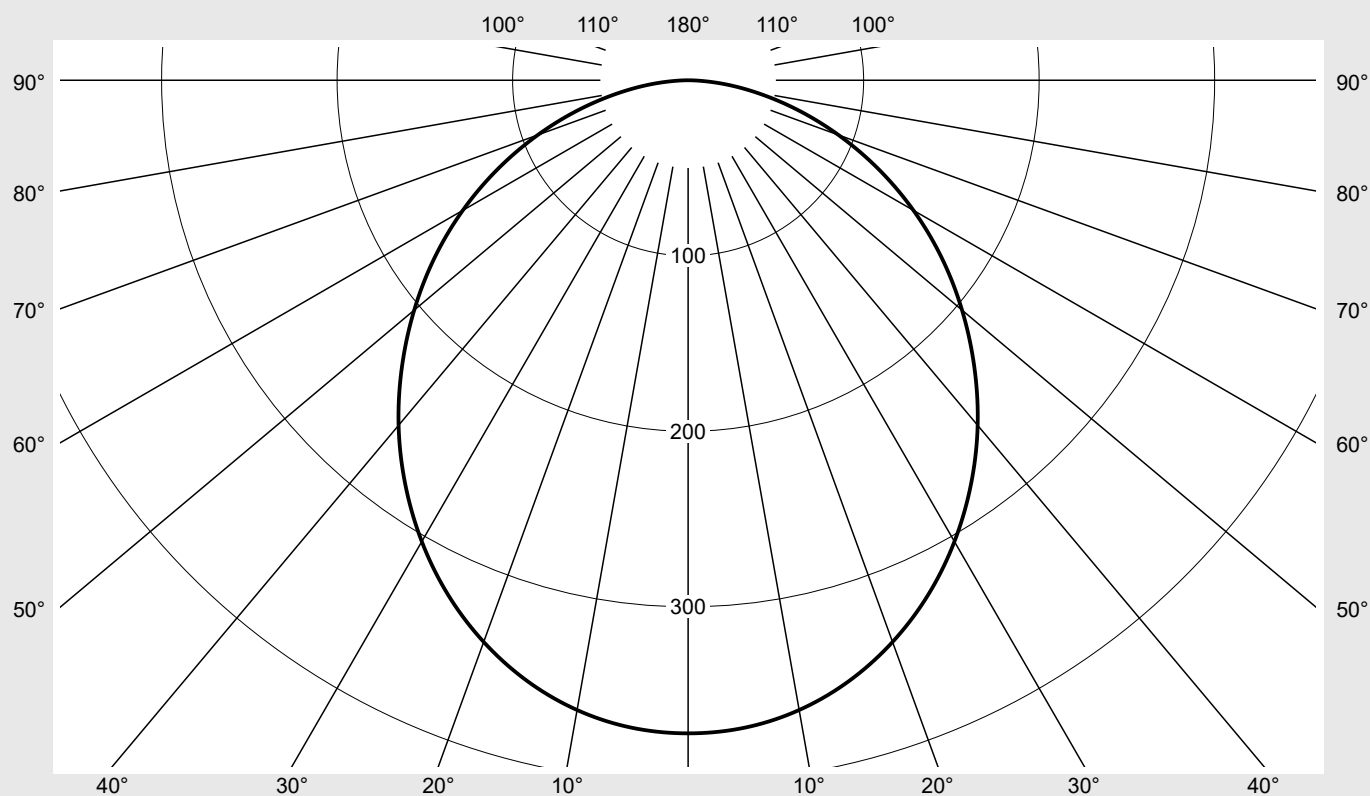
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documentation
20.05.2026

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Luminous intensity in cd/klm

C180-0

Imax: 372 cd/klm



Classifications

DIN 5040 A 4 0
CIE N1=49 N2=79 N3=96
N4=100 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 100.0%
 ϕ_o 0.0%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity

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C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
0°	372.1	2.2	2.2
5°	370.3	17.7	19.9
10°	364.3	34.7	54.6
15°	354.3	50.3	104.9
20°	340.6	63.8	168.7
25°	323.6	75.0	243.7
30°	303.5	83.2	326.8
35°	281.0	88.3	415.2
40°	256.7	90.4	505.6
45°	230.6	89.4	595.0
50°	203.7	85.5	680.5
55°	176.4	79.2	759.7
60°	148.2	70.4	830.1
65°	119.6	59.4	889.5
70°	91.1	46.9	936.5
75°	63.8	33.8	970.3
80°	38.4	20.7	991.0
85°	16.5	9.0	1000.0
90°	0.0	0.0	1000.0
95°	0.0	0.0	1000.0
100°	0.0	0.0	1000.0
105°	0.0	0.0	1000.0
110°	0.0	0.0	1000.0
115°	0.0	0.0	1000.0
120°	0.0	0.0	1000.0
125°	0.0	0.0	1000.0
130°	0.0	0.0	1000.0
135°	0.0	0.0	1000.0
140°	0.0	0.0	1000.0
145°	0.0	0.0	1000.0
150°	0.0	0.0	1000.0
155°	0.0	0.0	1000.0
160°	0.0	0.0	1000.0
165°	0.0	0.0	1000.0
170°	0.0	0.0	1000.0
175°	0.0	0.0	1000.0
180°	0.0	0.0	1000.0

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UGR-Table									Standard room		siteco	
Reflection factor of ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5		0.3
Reflection factor of walls		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3		0.3
Reflection factor of floor		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		0.2
Room dimensions		View crosswise (C0)					View endwise (C90)					
x	y											
2H	2H	18.4	20.1	18.7	20.4	20.7	18.4	20.1	18.7	20.4	20.7	
	3H	19.9	21.5	20.3	21.8	22.2	19.9	21.5	20.3	21.8	22.2	
	4H	20.6	22.0	21.0	22.4	22.7	20.6	22.0	21.0	22.4	22.7	
	6H	21.1	22.4	21.5	22.7	23.1	21.1	22.4	21.5	22.7	23.1	
	8H	21.3	22.5	21.7	22.9	23.3	21.3	22.5	21.7	22.9	23.3	
	12H	21.4	22.5	21.8	22.9	23.3	21.4	22.5	21.8	22.9	23.3	
4H	2H	19.1	20.6	19.5	20.9	21.3	19.1	20.6	19.5	20.9	21.3	
	3H	20.9	22.1	21.3	22.5	22.9	20.9	22.1	21.3	22.5	22.9	
	4H	21.6	22.7	22.1	23.1	23.6	21.6	22.7	22.1	23.1	23.6	
	6H	22.2	23.2	22.7	23.6	24.1	22.2	23.2	22.7	23.6	24.1	
	8H	22.4	23.3	22.9	23.8	24.2	22.4	23.3	22.9	23.8	24.2	
	12H	22.6	23.4	23.1	23.8	24.3	22.6	23.4	23.1	23.8	24.3	
8H	4H	22.0	22.8	22.4	23.3	23.8	22.0	22.8	22.4	23.3	23.8	
	6H	22.7	23.4	23.2	23.9	24.4	22.7	23.4	23.2	23.9	24.4	
	8H	23.0	23.6	23.5	24.1	24.6	23.0	23.6	23.5	24.1	24.6	
	12H	23.2	23.7	23.7	24.2	24.8	23.2	23.7	23.7	24.2	24.8	
12H	4H	22.0	22.8	22.5	23.3	23.7	22.0	22.8	22.5	23.3	23.7	
	6H	22.8	23.4	23.3	23.9	24.4	22.8	23.4	23.3	23.9	24.4	
	8H	23.1	23.6	23.6	24.1	24.7	23.1	23.6	23.6	24.1	24.7	

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 386
C- planes	0°			
γ	Luminance in cd/m²			
45°	6102.0			
50°	5931.7			
55°	5755.5			
60°	5548.3			
65°	5296.6			
70°	4986.9			
75°	4615.2			
80°	4142.4			
85°	3538.5			

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Luminance values in cd/m²

γ 65°

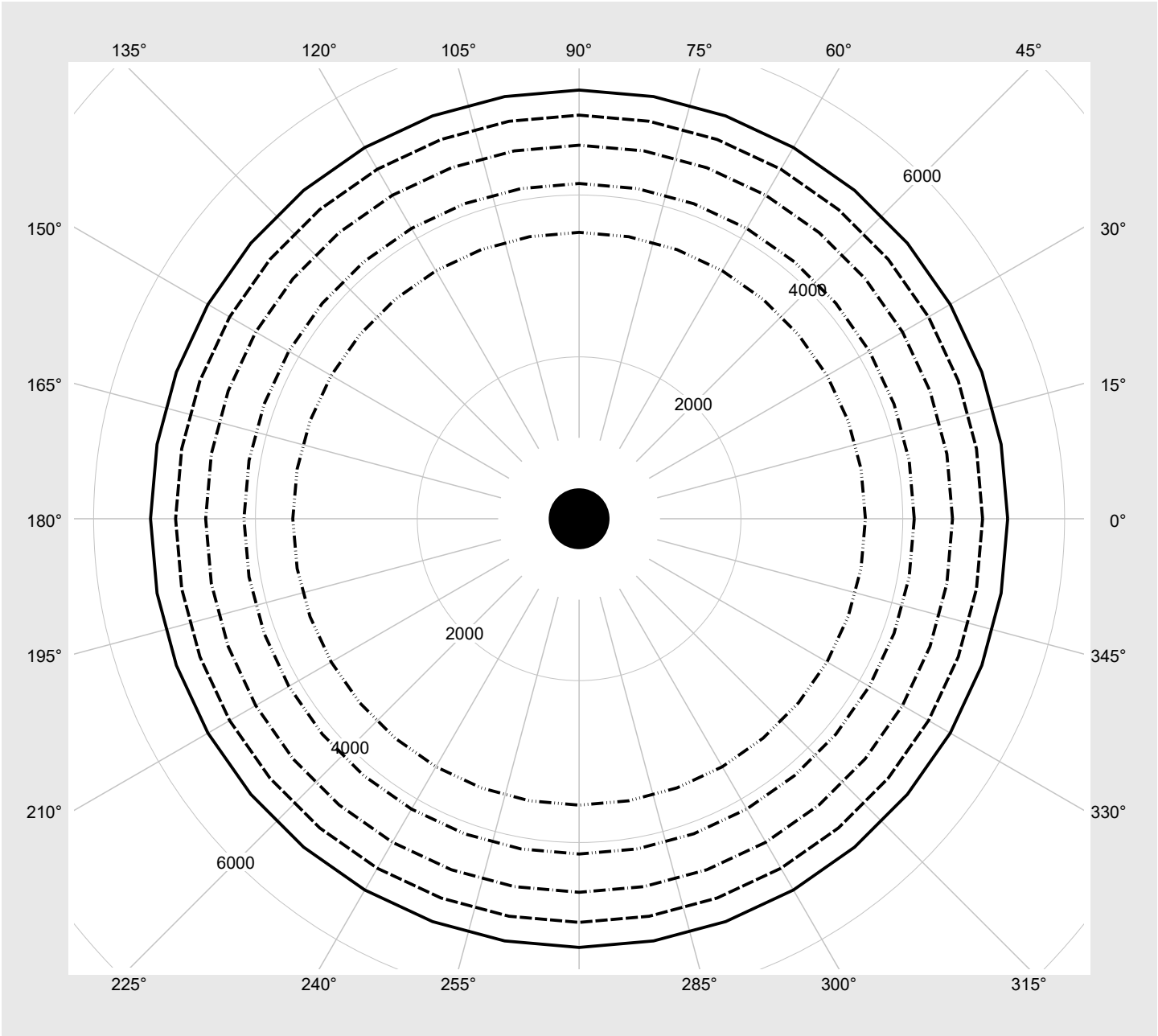
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C



Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	2190	15.0
95	241	252	2081	14.3
90	228	250	1972	13.5
85	215	248	1862	12.8
80	202	246	1752	12.2
75	189	243	1642	11.4
70	176	241	1531	10.7
65	163	238	1420	10.0
60	151	235	1317	9.3
55	138	232	1206	8.6
50	125	228	1093	7.9
45	113	224	990	7.2
40	100	220	877	6.5
35	87	215	764	5.7
30	75	209	658	5.0
25	62	202	545	4.2
20	50	194	439	3.5
15	37	183	324	2.8
10	25	169	218	2.0
5	14	148	120	1.2