

Photometric test report

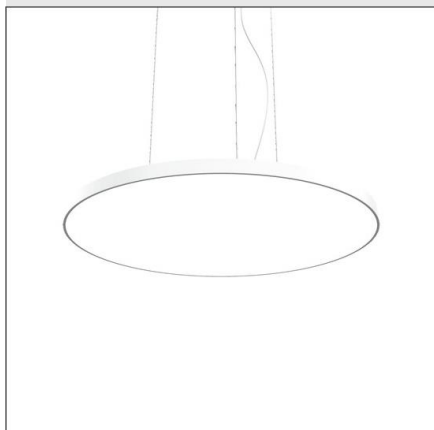
Family
Silica® 21 round L

Order number: 51MF31DC3NWA
EAN: 4069025807694

LP number
60083_10

serial
documentation
20.05.2026

siteco



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

Lamps LED 3000 K | CRI ≥ 80

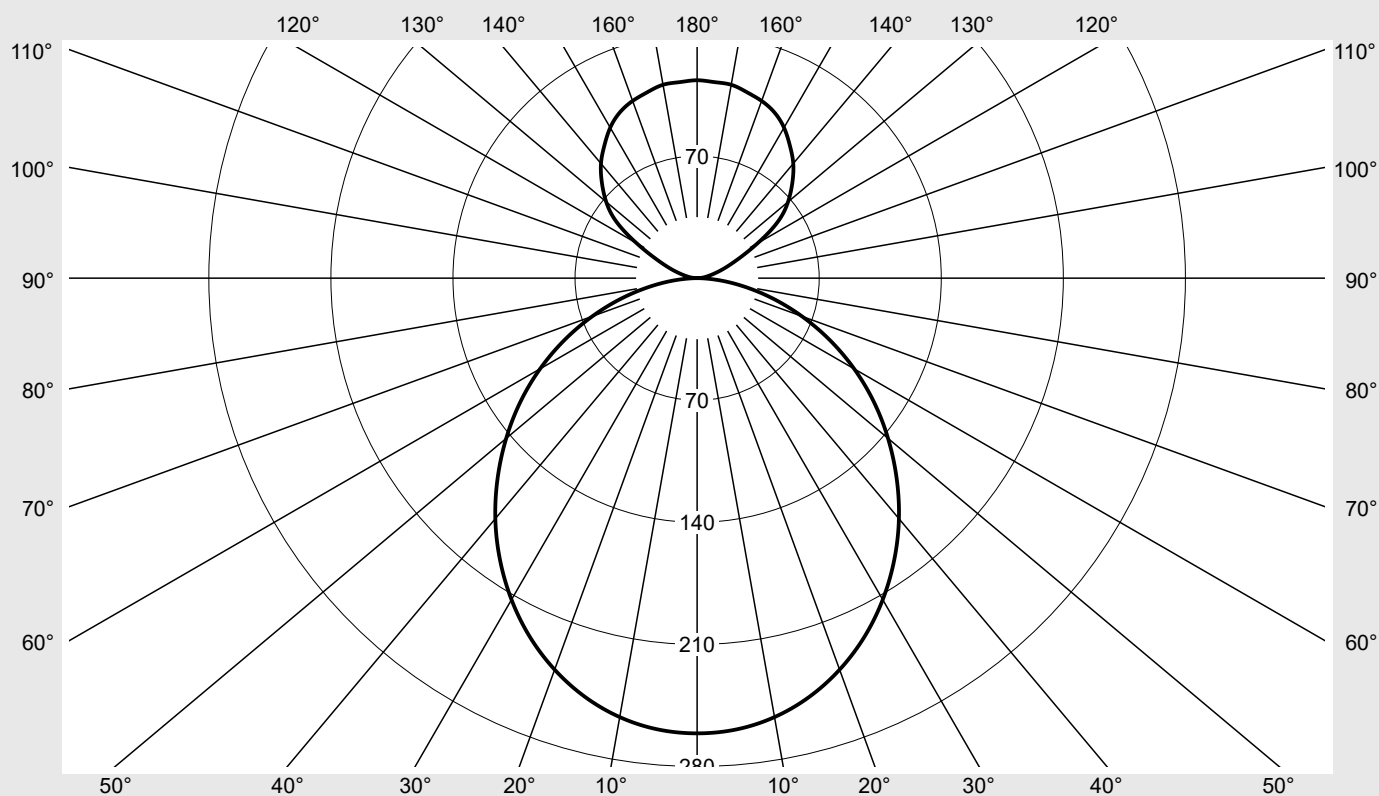
Controlgear ECG-DALI

Rated values Net luminous flux = 15340 lm
Power consumption = 88.9 W
Luminous efficacy = 172.6 lm/W

Luminous intensity in cd/klm

C180-0

Imax: 261 cd/klm



Classifications

DIN 5040 B 4 3
CIE N1=49 N2=79 N3=96
N4=70 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 70.2%
 ϕ_o 29.8%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities Maximum luminous intensity		sITeco

C- planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
0°	261.0	1.6	1.6
5°	259.7	12.4	14.0
10°	255.6	24.3	38.3
15°	248.6	35.3	73.6
20°	238.9	44.8	118.3
25°	227.0	52.6	170.9
30°	212.9	58.3	229.3
35°	197.1	62.0	291.2
40°	180.0	63.4	354.7
45°	161.7	62.7	417.3
50°	142.9	60.0	477.4
55°	123.7	55.6	532.9
60°	104.0	49.4	582.3
65°	83.9	41.7	623.9
70°	63.9	32.9	656.9
75°	44.8	23.7	680.6
80°	27.0	14.6	695.1
85°	11.6	6.3	701.4
90°	0.6	0.3	701.8
95°	2.6	1.4	703.2
100°	5.8	3.1	706.3
105°	10.2	5.4	711.8
110°	16.8	8.7	720.4
115°	26.0	12.9	733.3
120°	40.1	19.0	752.4
125°	56.6	25.4	777.8
130°	68.1	28.6	806.4
135°	77.2	29.9	836.3
140°	85.8	30.2	866.5
145°	92.8	29.2	895.7
150°	99.6	27.3	923.0
155°	104.9	24.3	947.3
160°	108.1	20.3	967.6
165°	110.4	15.7	983.2
170°	112.6	10.7	993.9
175°	112.9	5.4	999.3
180°	113.5	0.7	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	16.3	17.4	17.0	18.2	19.1	16.3	17.4	17.0	18.2	19.1
	3H	17.7	18.7	18.5	19.5	20.5	17.7	18.7	18.5	19.5	20.5
	4H	18.3	19.3	19.1	20.1	21.0	18.3	19.3	19.1	20.1	21.0
	6H	18.8	19.7	19.6	20.5	21.4	18.8	19.7	19.6	20.5	21.4
	8H	18.9	19.7	19.7	20.5	21.5	18.9	19.7	19.7	20.5	21.5
	12H	19.0	19.7	19.8	20.6	21.6	19.0	19.7	19.8	20.6	21.6
4H	2H	16.9	17.8	17.6	18.6	19.6	16.9	17.8	17.6	18.6	19.6
	3H	18.5	19.4	19.3	20.2	21.2	18.5	19.4	19.3	20.2	21.2
	4H	19.3	20.0	20.1	20.8	21.8	19.3	20.0	20.1	20.8	21.8
	6H	19.8	20.5	20.7	21.3	22.3	19.8	20.5	20.7	21.3	22.3
	8H	20.0	20.5	20.8	21.4	22.4	20.0	20.5	20.8	21.4	22.4
	12H	20.1	20.6	21.0	21.5	22.5	20.1	20.6	21.0	21.5	22.5
8H	4H	19.5	20.1	20.3	20.9	22.0	19.5	20.1	20.3	20.9	22.0
	6H	20.1	20.6	21.0	21.5	22.6	20.1	20.6	21.0	21.5	22.6
	8H	20.4	20.8	21.3	21.7	22.8	20.4	20.8	21.3	21.7	22.8
	12H	20.7	21.0	21.5	21.9	23.0	20.7	21.0	21.5	21.9	23.0
12H	4H	19.5	20.0	20.4	20.9	22.0	19.5	20.0	20.4	20.9	22.0
	6H	20.3	20.7	21.1	21.5	22.6	20.3	20.7	21.1	21.5	22.6
	8H	20.6	20.9	21.4	21.8	22.9	20.6	20.9	21.4	21.8	22.9

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 886
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C-planes		0°
γ	Luminance in cd/m²	
45°	5690.5	
50°	5531.7	
55°	5367.4	
60°	5174.2	
65°	4939.5	
70°	4650.7	
75°	4304.1	
80°	3863.1	
85°	3300.1	

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Luminance values in cd/m²

γ 65°

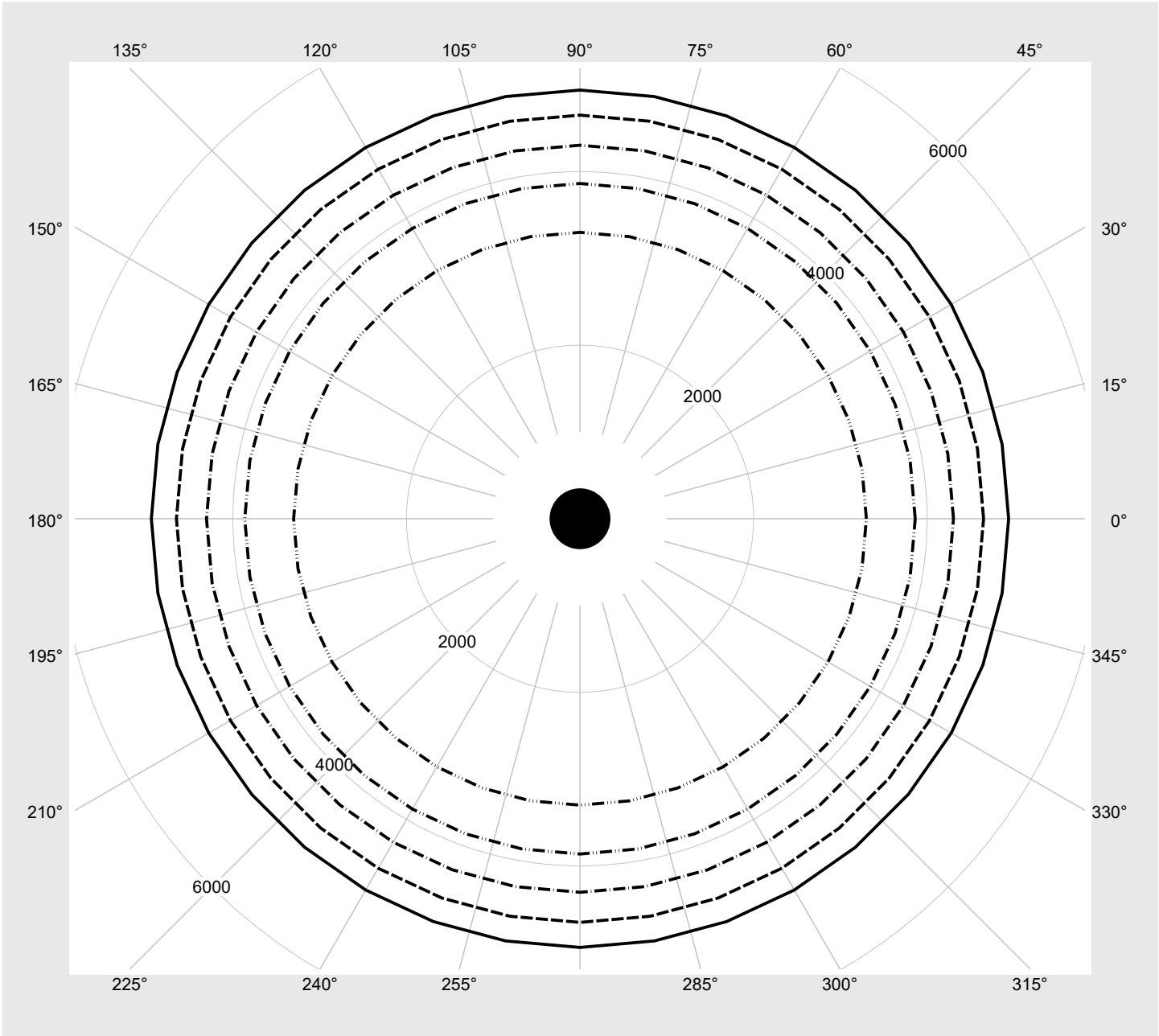
γ 70°

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	15340	88.9
95	241	252	14567	84.4
90	228	250	13795	79.9
85	215	248	13018	75.3
80	203	246	12301	71.2
75	190	243	11520	66.6
70	177	241	10737	62.1
65	164	238	9950	57.7
60	152	235	9222	53.5
55	139	232	8431	49.1
50	126	228	7640	44.8
45	114	225	6904	40.7
40	101	220	6107	36.3
35	89	216	5369	32.3
30	77	210	4630	28.5
25	64	204	3825	24.3
20	52	196	3081	20.1
15	39	185	2272	15.5
10	27	172	1524	11.2
5	15	150	774	6.8
2	8	127	335	4.3