

Photometric test report

Family
Silica® 21 round S

Order number: 51ME31DA4NWA
EAN: 4069025800466

LP number
60077_3



Version

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

Lamps

LED 4000 K | CRI ≥ 80

Controlgear

ECG-DALI

Rated values

Net luminous flux = 3290 lm

Power consumption = 21.8 W

Luminous efficacy = 150.9 lm/W

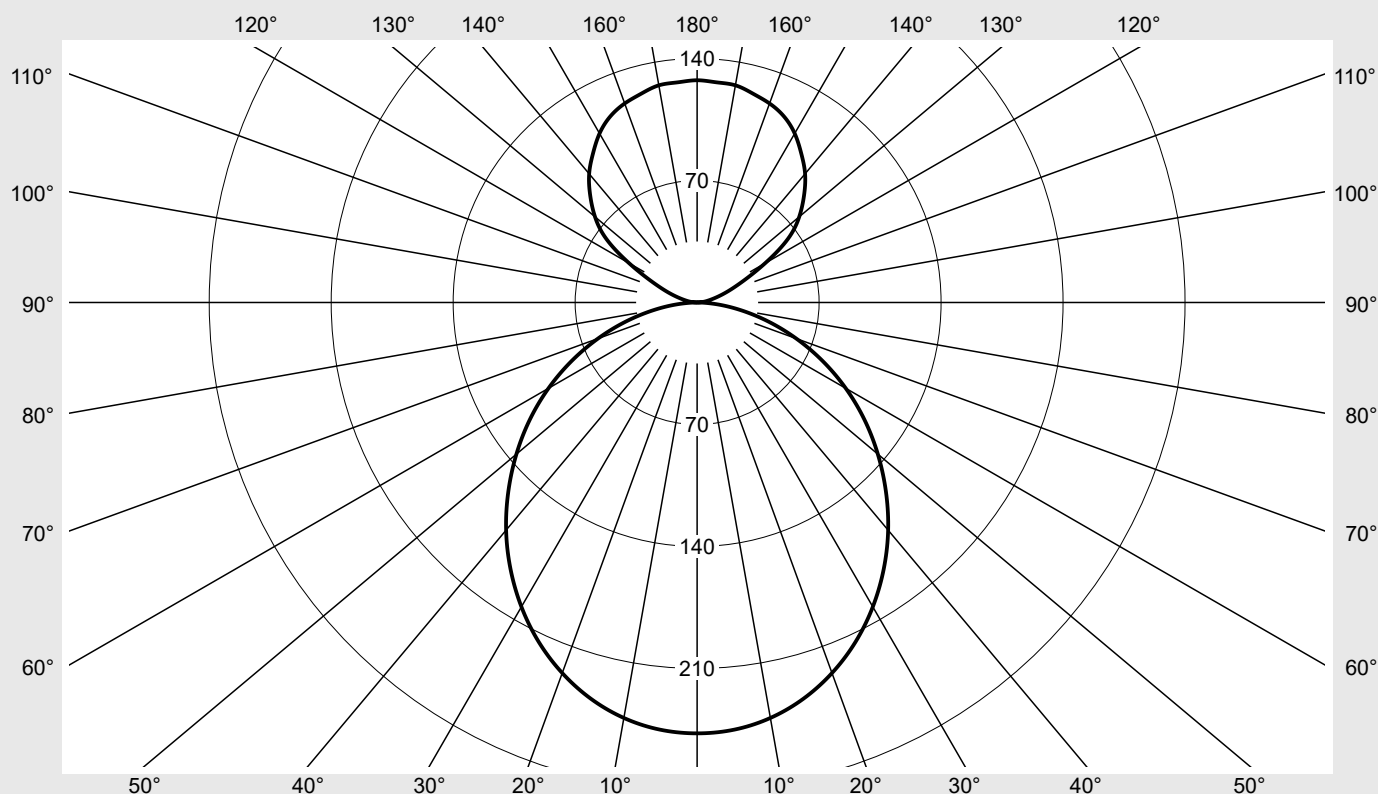
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Luminous intensity in cd/klm

C180-0

Imax: 247 cd/klm



Classifications

DIN 5040 B 4 3
CIE N1=49 N2=79 N3=96
N4=66 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 66.5%
 ϕ_o 33.5%

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°	247.3	1.5	1.5
5°	246.0	11.8	13.2
10°	242.1	23.0	36.3
15°	235.5	33.4	69.7
20°	226.3	42.4	112.1
25°	215.0	49.8	161.9
30°	201.7	55.3	217.2
35°	186.7	58.7	275.9
40°	170.5	60.1	336.0
45°	153.2	59.4	395.3
50°	135.4	56.8	452.2
55°	117.2	52.6	504.8
60°	98.5	46.8	551.6
65°	79.5	39.5	591.1
70°	60.6	31.2	622.3
75°	42.4	22.5	644.7
80°	25.5	13.8	658.5
85°	11.0	6.0	664.5
90°	0.7	0.4	664.9
95°	2.9	1.6	666.5
100°	6.5	3.5	670.0
105°	11.5	6.1	676.1
110°	18.9	9.7	685.8
115°	29.2	14.5	700.3
120°	45.1	21.4	721.7
125°	63.6	28.6	750.3
130°	76.5	32.1	782.4
135°	86.8	33.6	816.0
140°	96.4	34.0	850.0
145°	104.2	32.8	882.8
150°	112.0	30.7	913.5
155°	117.8	27.3	940.8
160°	121.5	22.8	963.5
165°	124.0	17.6	981.1
170°	126.5	12.0	993.2
175°	126.8	6.1	999.2
180°	127.5	0.8	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	16.2	17.4	17.0	18.1	19.1	16.2	17.4	17.0	18.1	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	19.2	19.1	20.0	21.1	18.3	19.2	19.1	20.0	21.1
	6H	18.7	19.6	19.6	20.4	21.5	18.7	19.6	19.6	20.4	21.5
	8H	18.8	19.6	19.6	20.4	21.5	18.8	19.6	19.6	20.4	21.5
	12H	18.9	19.7	19.8	20.5	21.6	18.9	19.7	19.8	20.5	21.6
4H	2H	16.8	17.8	17.6	18.6	19.6	16.8	17.8	17.6	18.6	19.6
	3H	18.5	19.3	19.3	20.1	21.2	18.5	19.3	19.3	20.1	21.2
	4H	19.2	19.9	20.1	20.8	21.8	19.2	19.9	20.1	20.8	21.8
	6H	19.8	20.4	20.6	21.3	22.3	19.8	20.4	20.6	21.3	22.3
	8H	19.9	20.4	20.8	21.3	22.4	19.9	20.4	20.8	21.3	22.4
	12H	20.1	20.5	20.9	21.4	22.6	20.1	20.5	20.9	21.4	22.6
8H	4H	19.4	20.0	20.3	20.9	22.0	19.4	20.0	20.3	20.9	22.0
	6H	20.1	20.5	21.0	21.4	22.6	20.1	20.5	21.0	21.4	22.6
	8H	20.4	20.8	21.3	21.7	22.8	20.4	20.8	21.3	21.7	22.8
	12H	20.6	20.9	21.5	21.9	23.0	20.6	20.9	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	20.2	20.6	21.1	21.5	22.6	20.2	20.6	21.1	21.5	22.6
	8H	20.5	20.8	21.4	21.8	22.9	20.5	20.8	21.4	21.8	22.9

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 386
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C-planes	0°
γ	Luminance in cd/m²
45°	6091.2
50°	5921.2
55°	5745.2
60°	5538.5
65°	5287.3
70°	4978.1
75°	4607.2
80°	4135.1
85°	3532.2

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Luminance values in cd/m²

γ 65°

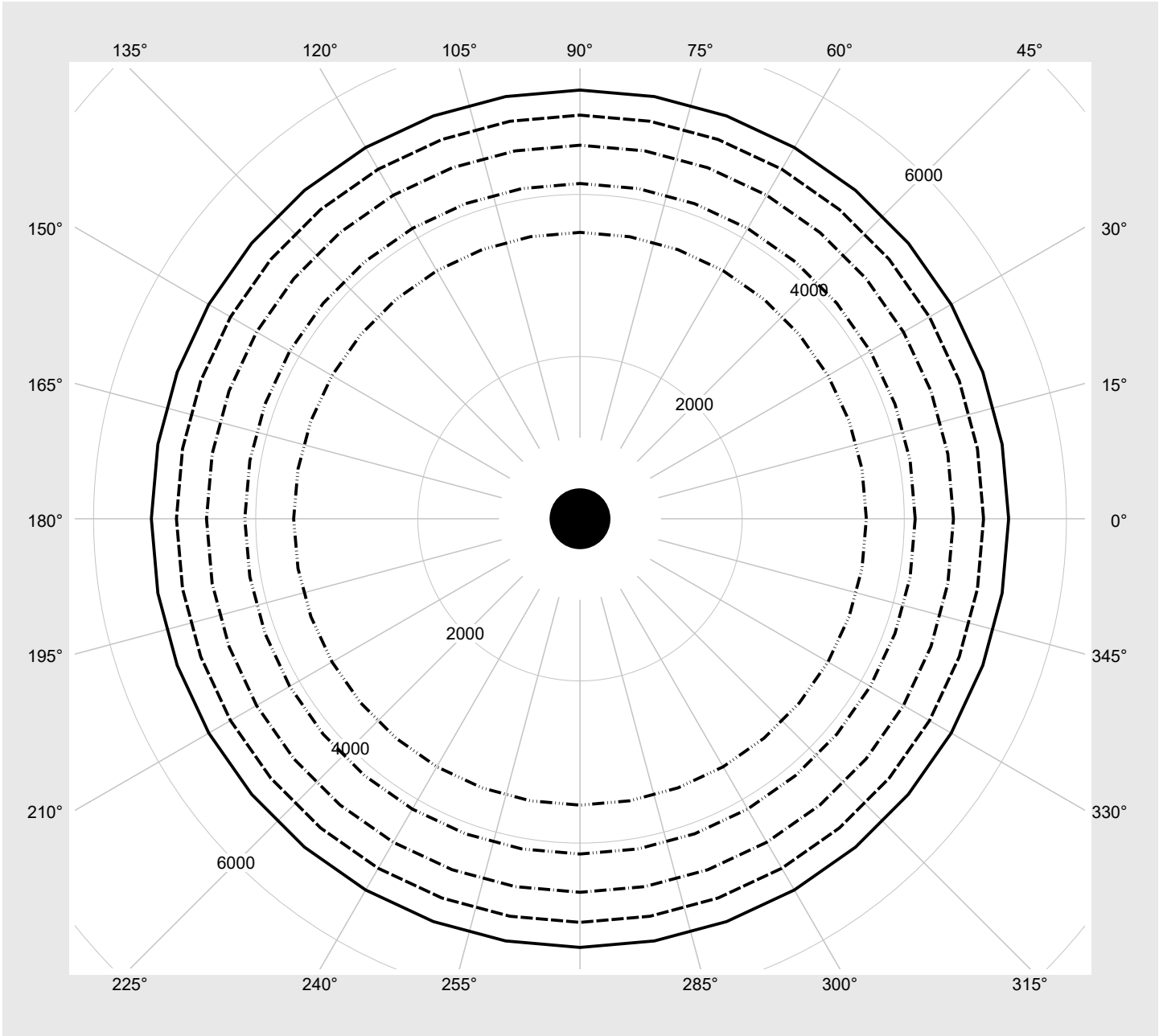
γ 70°

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	3290	21.8
95	241	252	3123	20.7
90	228	250	2956	19.7
85	216	248	2801	18.7
80	203	246	2633	17.6
75	190	243	2464	16.6
70	178	241	2309	15.6
65	165	238	2139	14.5
60	152	235	1970	13.5
55	140	232	1813	12.5
50	127	229	1643	11.5
45	115	225	1485	10.5
40	102	221	1315	9.4
35	90	216	1158	8.4
30	77	210	987	7.3
25	65	204	829	6.3
20	52	196	657	5.3
15	40	186	498	4.2
10	27	172	326	3.0
5	15	150	167	1.9
3	10	136	100	1.4