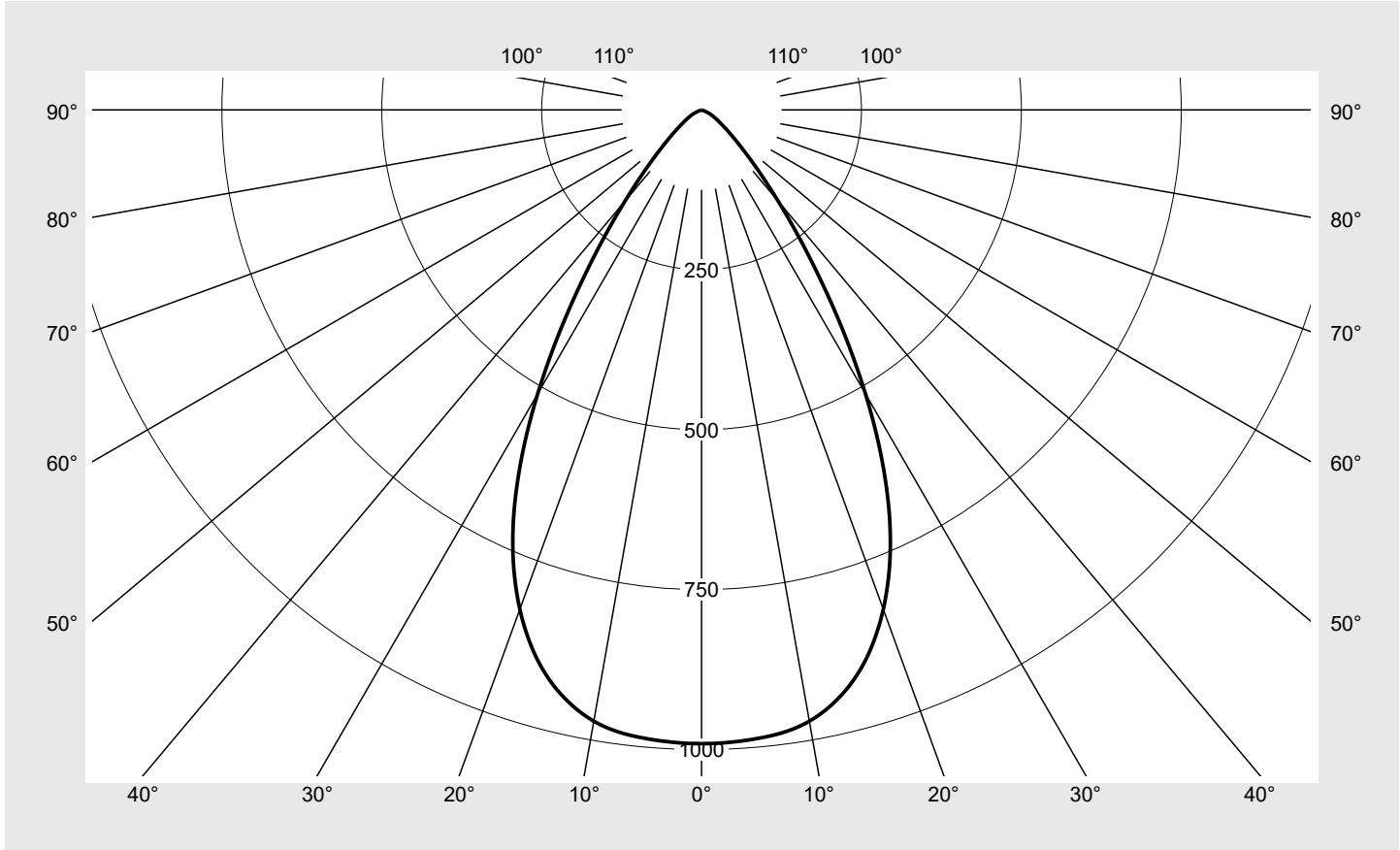


# Photometric test report

<b>Family</b> <b>Lunis 21</b>	<b>Order number: 51DB15DF42</b> <b>EAN: 4058352555095</b>	<b>LP number</b> <b>59251_3</b>
	<b>Version</b> Combined lens and reflector optics, highly specular reflector, wide distribution, UGR≤19 (L65≤3000cd/m²)	<b>serial documentation</b> 03.02.2022
	<b>Lamps</b> LED 4000 K   CRI ≥ 80	<b>Controlgear</b> ECG-DALI
<b>Rated values</b> Net luminous flux = 2280 lm Power consumption = 17.7 W Luminous efficacy = 128.8 lm/W		

**Luminous intensity in cd/klm** C180-0 **Imax: 991 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=89 N2=99 N3=100 N4=100 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	100.0%
$\phi_o$	0.0%

**Measurement conditions**  
 DIN EN 13032 and DIN 5032

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>sITeco</b>

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm Luminous flux in lm/klm		
0°	990.7	0.2	0.2
1°	990.6	1.9	2.1
2°	990.1	3.8	5.9
3°	989.2	5.7	11.6
4°	988.1	7.6	19.2
5°	986.7	9.4	28.6
6°	985.0	11.3	39.9
7°	982.9	13.1	53.0
8°	979.9	15.0	68.0
9°	975.8	16.7	84.7
10°	970.4	18.5	103.2
11°	963.5	20.2	123.3
12°	955.2	21.8	145.1
13°	945.3	23.3	168.4
14°	934.3	24.8	193.2
15°	921.5	26.2	219.4
16°	907.0	27.4	246.8
17°	890.7	28.6	275.4
18°	872.4	29.6	304.9
19°	852.5	30.4	335.4
20°	830.8	31.2	366.5
21°	807.2	31.7	398.2
22°	781.9	32.1	430.4
23°	754.7	32.3	462.7
24°	725.4	32.4	495.1
25°	694.2	32.2	527.2
26°	660.5	31.8	559.0
27°	625.3	31.1	590.1
28°	588.7	30.3	620.4
29°	550.8	29.3	649.7
30°	512.4	28.1	677.8
31°	473.3	26.7	704.5
32°	434.8	25.3	729.8
33°	396.6	23.7	753.5
34°	359.9	22.1	775.5
35°	324.8	20.4	796.0
36°	292.5	18.9	814.8
37°	262.4	17.3	832.2
38°	234.7	15.8	848.0
39°	209.6	14.5	862.5
40°	186.5	13.1	875.6
41°	166.1	11.9	887.6
42°	147.7	10.8	898.4
43°	131.2	9.8	908.2
44°	116.7	8.9	917.1
45°	103.8	8.1	925.2
46°	92.3	7.3	932.4

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm Luminous flux in lm/klm		
47°	82.4	6.6	939.0
48°	73.8	6.0	945.1
49°	66.3	5.5	950.5
50°	59.8	5.0	955.6
51°	53.9	4.6	960.2
52°	48.5	4.2	964.4
53°	43.7	3.8	968.2
54°	39.5	3.5	971.7
55°	35.9	3.2	974.9
56°	32.7	3.0	977.9
57°	29.9	2.8	980.6
58°	27.3	2.5	983.2
59°	24.8	2.3	985.5
60°	22.4	2.1	987.6
61°	20.4	2.0	989.6
62°	18.6	1.8	991.4
63°	17.0	1.7	993.1
64°	15.2	1.5	994.5
65°	13.0	1.3	995.8
66°	10.6	1.1	996.9
67°	8.3	0.8	997.7
68°	6.5	0.7	998.4
69°	5.2	0.5	998.9
70°	4.0	0.4	999.3
71°	2.7	0.3	999.6
72°	1.7	0.2	999.8
73°	0.8	0.1	999.9
74°	0.4	0.0	999.9
75°	0.3	0.0	1000.0
76°	0.1	0.0	1000.0
77°	0.0	0.0	1000.0
78°	0.0	0.0	1000.0
79°	0.0	0.0	1000.0
80°	0.0	0.0	1000.0
81°	0.0	0.0	1000.0
82°	0.0	0.0	1000.0
83°	0.0	0.0	1000.0
84°	0.0	0.0	1000.0
85°	0.0	0.0	1000.0
86°	0.0	0.0	1000.0
87°	0.0	0.0	1000.0
88°	0.0	0.0	1000.0
89°	0.0	0.0	1000.0
90°	0.0	0.0	1000.0

## Photometric test report

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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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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	17.1	18.4	17.5	18.7	19.0	17.1	18.4	17.5	18.7	19.0
	3H	17.1	18.1	17.5	18.5	18.8	17.1	18.1	17.5	18.5	18.8
	4H	17.0	18.0	17.4	18.3	18.7	17.0	18.0	17.4	18.3	18.7
	6H	16.9	17.8	17.3	18.2	18.6	16.9	17.8	17.3	18.2	18.6
	8H	17.0	17.7	17.4	18.1	18.5	17.0	17.7	17.4	18.1	18.5
	12H	17.0	17.6	17.4	18.0	18.5	17.0	17.6	17.4	18.0	18.5
4H	2H	17.0	18.0	17.4	18.4	18.8	17.0	18.0	17.4	18.4	18.8
	3H	17.0	17.8	17.4	18.2	18.6	17.0	17.8	17.4	18.2	18.6
	4H	16.9	17.6	17.3	18.0	18.4	16.9	17.6	17.3	18.0	18.4
	6H	16.8	17.4	17.3	17.8	18.3	16.8	17.4	17.3	17.8	18.3
	8H	16.8	17.3	17.2	17.7	18.2	16.8	17.3	17.2	17.7	18.2
	12H	16.8	17.2	17.2	17.6	18.1	16.8	17.2	17.2	17.6	18.1
8H	4H	16.8	17.3	17.2	17.7	18.2	16.8	17.3	17.2	17.7	18.2
	6H	16.6	17.1	17.1	17.6	18.1	16.6	17.1	17.1	17.6	18.1
	8H	16.6	17.0	17.1	17.5	18.0	16.6	17.0	17.1	17.5	18.0
	12H	16.6	16.9	17.1	17.4	17.9	16.6	16.9	17.1	17.4	17.9
12H	4H	16.8	17.2	17.3	17.6	18.1	16.8	17.2	17.3	17.6	18.1
	6H	16.6	17.0	17.1	17.5	18.0	16.6	17.0	17.1	17.5	18.0
	8H	16.6	16.9	17.1	17.4	17.9	16.6	16.9	17.1	17.4	17.9

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm: D = 187</b>
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<b>C-planes</b>	<b>0°</b>
$\gamma$	<b>Luminance in cd/m<sup>2</sup></b>
45°	12188.9
50°	7721.4
55°	5192.6
60°	3726.9
65°	2546.2
70°	966.5
75°	80.2
80°	7.2
85°	22.9

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**Luminance values in cd/m<sup>2</sup>**       $\gamma$  65°      $\gamma$  70°      $\gamma$  75°      $\gamma$  80°      $\gamma$  85°

