

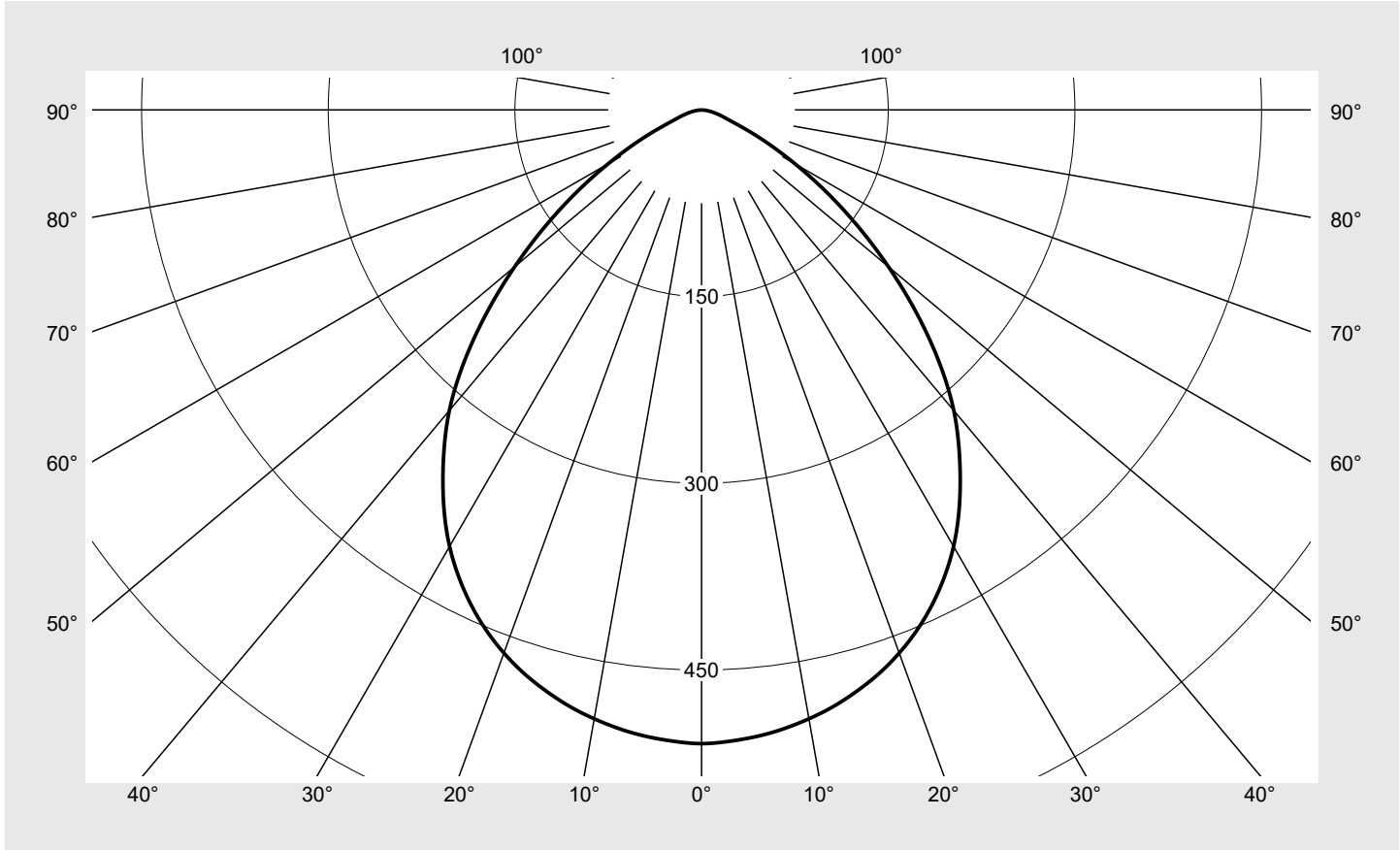


# Photometric test report

<b>Family</b> <b>Lunis 31</b>	<b>Order number: 51DN16MG32B</b> <b>EAN: 4069025151957</b>	<b>LP number</b> <b>59322_5</b>
	<b>Version</b> cover, diffuse, wide distribution, UGR≤22	<b>serial documentation</b> <b>12.12.2024</b>
	<b>Lamps</b> LED 3000 K   CRI ≥ 80	
	<b>Controlgear</b> ECG Multilumen	
	<b>Setting</b> factory setting: DIP-Step=7	
<b>Rated values</b>	Net luminous flux = 2500 lm Power consumption = 17.0 W Luminous efficacy = 147.1 lm/W	

**Luminous intensity in cd/klm** C180-0 **Imax: 509 cd/klm**



Classifications	
DIN 5040	A 5 0
CIE	N1=64 N2=93 N3=99 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>
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C-planes	0°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm	Luminous flux in lm/klm	
0,0°	509.2	0.8	0.8
2,5°	507.8	6.1	6.8
5,0°	505.4	12.1	18.9
7,5°	501.7	18.0	36.9
10,0°	496.8	23.6	60.5
12,5°	490.8	29.1	89.6
15,0°	483.3	34.3	123.9
17,5°	474.7	39.1	163.1
20,0°	464.4	43.5	206.6
22,5°	452.4	47.5	254.1
25,0°	438.6	50.8	304.9
27,5°	422.8	53.5	358.4
30,0°	405.0	55.5	413.9
32,5°	384.6	56.7	470.6
35,0°	362.4	57.0	527.5
37,5°	339.5	56.7	584.2
40,0°	315.3	55.6	639.7
42,5°	287.7	53.3	693.0
45,0°	257.7	50.0	743.0
47,5°	226.8	45.8	788.8
50,0°	196.0	41.2	830.0
52,5°	166.3	36.2	866.1
55,0°	138.0	31.0	897.1
57,5°	111.4	25.8	922.9
60,0°	86.8	20.6	943.5
62,5°	65.4	15.9	959.4
65,0°	47.0	11.7	971.1
67,5°	32.2	8.1	979.2
70,0°	22.8	5.9	985.1
72,5°	17.7	4.6	989.7
75,0°	13.7	3.6	993.3
77,5°	10.2	2.7	996.1
80,0°	7.1	1.9	998.0
82,5°	4.5	1.2	999.2
85,0°	2.3	0.6	999.9
87,5°	0.5	0.1	1000.0
90,0°	0.0	0.0	1000.0

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UGR-Table		Standard room									
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	22.1	23.6	22.4	23.9	24.2	22.1	23.6	22.4	23.9	24.2
	3H	22.2	23.6	22.6	23.9	24.2	22.2	23.6	22.6	23.9	24.2
	4H	22.3	23.5	22.7	23.8	24.2	22.3	23.5	22.7	23.8	24.2
	6H	22.3	23.4	22.7	23.8	24.1	22.3	23.4	22.7	23.8	24.1
	8H	22.3	23.3	22.7	23.7	24.1	22.3	23.3	22.7	23.7	24.1
	12H	22.3	23.2	22.7	23.6	24.1	22.3	23.2	22.7	23.6	24.1
4H	2H	22.3	23.5	22.6	23.8	24.2	22.3	23.5	22.6	23.8	24.2
	3H	22.5	23.5	22.9	23.9	24.3	22.5	23.5	22.9	23.9	24.3
	4H	22.5	23.4	23.0	23.8	24.3	22.5	23.4	23.0	23.8	24.3
	6H	22.5	23.3	23.0	23.8	24.2	22.5	23.3	23.0	23.8	24.2
	8H	22.5	23.3	23.0	23.7	24.2	22.5	23.3	23.0	23.7	24.2
	12H	22.6	23.2	23.0	23.6	24.1	22.6	23.2	23.0	23.6	24.1
8H	4H	22.5	23.2	23.0	23.6	24.1	22.5	23.2	23.0	23.6	24.1
	6H	22.5	23.1	23.0	23.6	24.1	22.5	23.1	23.0	23.6	24.1
	8H	22.5	23.0	23.0	23.5	24.1	22.5	23.0	23.0	23.5	24.1
	12H	22.5	23.0	23.1	23.5	24.0	22.5	23.0	23.1	23.5	24.0
12H	4H	22.5	23.1	23.0	23.6	24.1	22.5	23.1	23.0	23.6	24.1
	6H	22.5	23.0	23.0	23.5	24.0	22.5	23.0	23.0	23.5	24.0
	8H	22.5	22.9	23.0	23.4	24.0	22.5	22.9	23.0	23.4	24.0

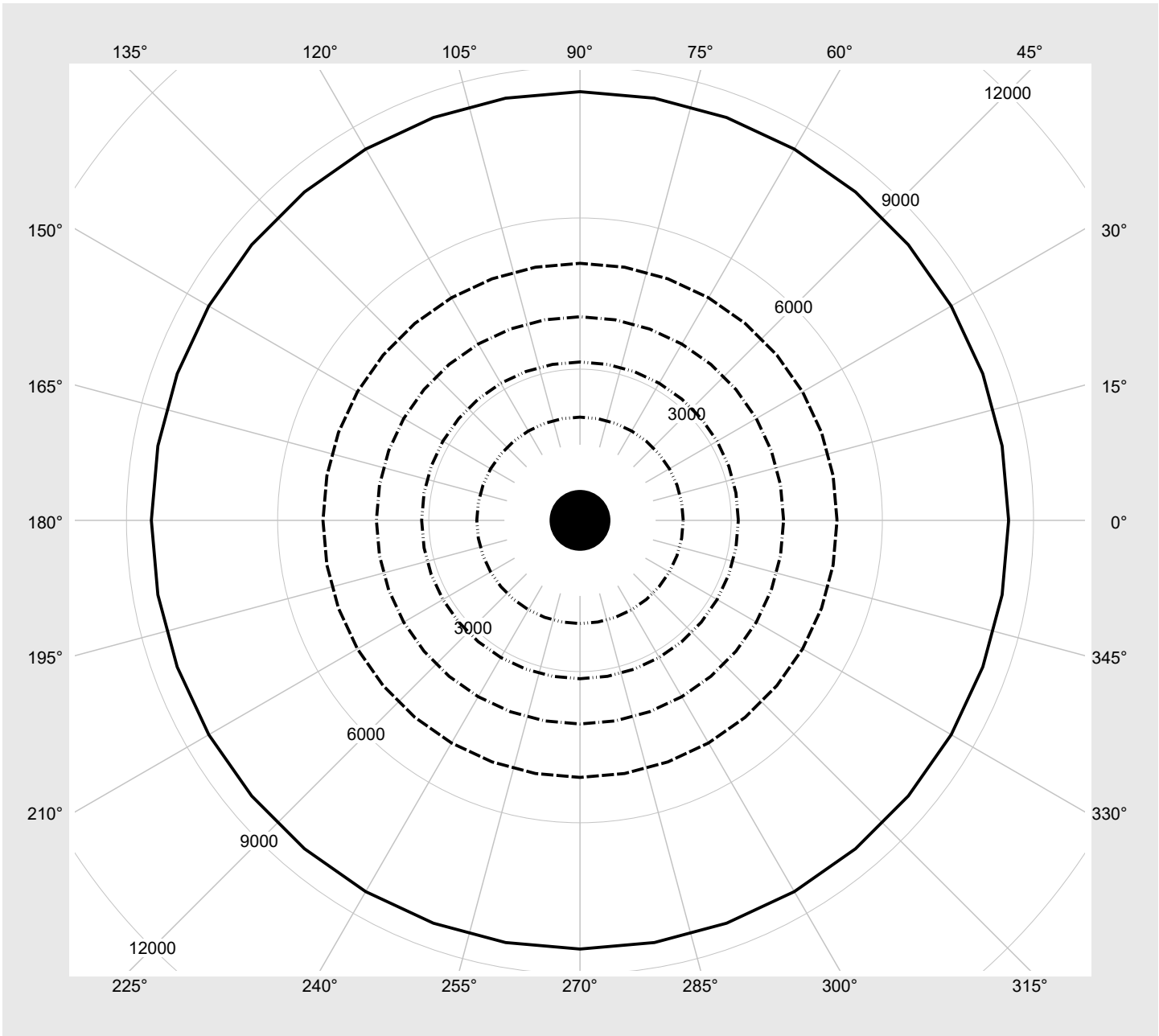
<b>Luminance table</b>	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 204
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C-planes	0°
$\gamma$	Luminance in cd/m <sup>2</sup>
45,0°	27876.7
50,0°	23320.9
55,0°	18397.5
60,0°	13273.8
65,0°	8506.3
70,0°	5100.6
75,0°	4040.4
80,0°	3142.3
85,0°	2048.3

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**Luminance values in cd/m<sup>2</sup>**     γ 65°   γ 70°   γ 75°   γ 80°   γ 85°     **siteco**



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<b>Multilumen Table</b>	environmental temperature: 25°C	
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DIP-Step	Switch Setting				Luminous flux [lm]	Power consumption [W]
	1	2	3	4		
7	ON	ON	ON	OFF	2500	17.0
6	OFF	ON	ON	OFF	2200	15.0
5	ON	OFF	ON	OFF	1950	13.0
4	OFF	OFF	ON	OFF	1750	11.5