

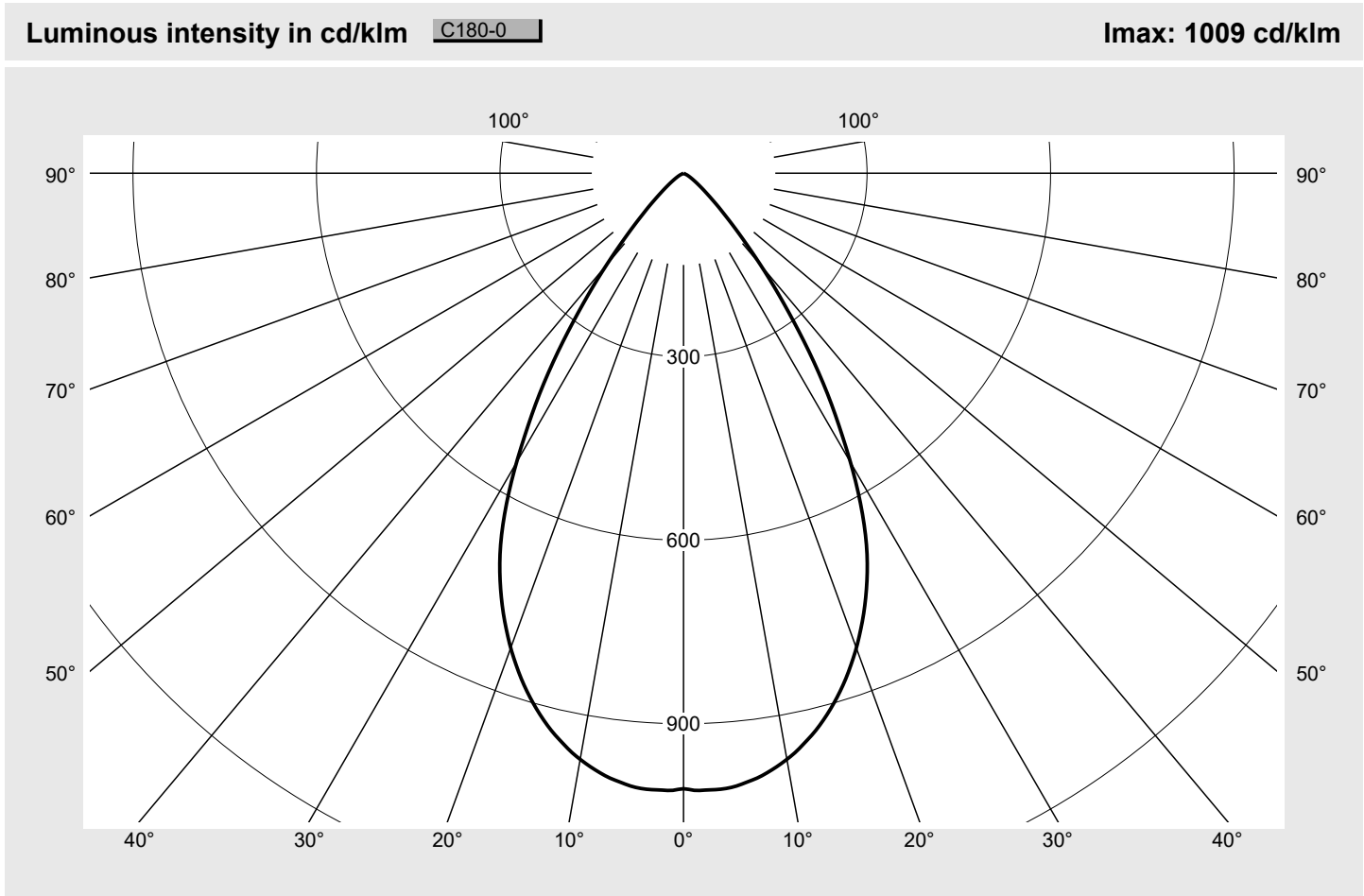
Photometric test report

Family Lunis 21 	Order number: 51DB19ED91C EAN: 4069025012944	LP number 59687_5
	Version	recessed luminaire, Combined lens and reflector optics, reflector, aluminium, matt, rotationally symmetrical wide distribution, adjustable color temperature: 3000K 4000K 6500K, UGR≤19 (L65≤3000cd/m²)
	Lamps Controlgear Setting Rated values	LED 4000 K CRI ≥ 80 ECG Multilumen factory setting: DIP-Step=5, colour temperature 4000K Net luminous flux = 2020 lm Power consumption = 12.2 W Luminous efficacy = 165.6 lm/W

serial documentation

27.09.2024

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Classifications		Luminaire light output ratios	
DIN 5040	A 7 0	η_{LB}	100.0%
CIE	N1=91 N2=99 N3=100	ϕ_u	100.0%
	N4=100 N5=100	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°	1006.3	0.2	0.2
1°	1009.1	1.9	2.2
2°	1009.1	3.9	6.0
3°	1009.1	5.8	11.8
4°	1008.2	7.7	19.5
5°	1005.3	9.6	29.1
6°	1000.6	11.5	40.6
7°	995.8	13.3	53.9
8°	989.2	15.1	69.0
9°	981.6	16.8	85.9
10°	973.0	18.5	104.4
11°	963.5	20.2	124.5
12°	952.1	21.7	146.3
13°	940.6	23.2	169.5
14°	927.6	24.6	194.1
15°	913.3	25.9	220.0
16°	898.0	27.1	247.1
17°	881.7	28.3	275.4
18°	864.2	29.3	304.7
19°	845.4	30.2	334.9
20°	826.0	31.0	365.9
21°	804.9	31.6	397.5
22°	783.3	32.2	429.7
23°	760.4	32.6	462.2
24°	736.3	32.8	495.1
25°	710.8	32.9	528.0
26°	683.2	32.8	560.9
27°	652.4	32.5	593.4
28°	618.9	31.9	625.2
29°	583.3	31.0	656.2
30°	546.0	29.9	686.2
31°	507.6	28.7	714.8
32°	471.1	27.4	742.2
33°	435.2	26.0	768.2
34°	398.1	24.4	792.6
35°	361.0	22.7	815.3
36°	323.6	20.9	836.2
37°	288.1	19.0	855.2
38°	255.5	17.3	872.4
39°	225.0	15.5	888.0
40°	195.9	13.8	901.8
41°	169.3	12.2	914.0
42°	145.6	10.7	924.6
43°	125.3	9.4	934.0
44°	107.4	8.2	942.2
45°	91.9	7.1	949.3
46°	80.0	6.3	955.6

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm Luminous flux in lm/klm		
47°	68.1	5.5	961.1
48°	58.4	4.8	965.9
49°	50.2	4.2	970.0
50°	43.5	3.7	973.7
51°	37.6	3.2	976.9
52°	32.4	2.8	979.7
53°	28.1	2.5	982.1
54°	24.4	2.2	984.3
55°	21.0	1.9	986.2
56°	18.3	1.7	987.8
57°	15.9	1.5	989.3
58°	13.7	1.3	990.6
59°	11.9	1.1	991.7
60°	10.2	1.0	992.7
61°	8.7	0.8	993.5
62°	7.3	0.7	994.2
63°	6.1	0.6	994.8
64°	5.0	0.5	995.3
65°	4.2	0.4	995.7
66°	3.6	0.4	996.1
67°	3.2	0.3	996.4
68°	3.0	0.3	996.7
69°	2.8	0.3	997.0
70°	2.6	0.3	997.3
71°	2.5	0.3	997.5
72°	2.3	0.2	997.8
73°	2.2	0.2	998.0
74°	2.0	0.2	998.2
75°	1.9	0.2	998.4
76°	1.8	0.2	998.6
77°	1.6	0.2	998.8
78°	1.5	0.2	998.9
79°	1.4	0.2	999.1
80°	1.3	0.1	999.2
81°	1.2	0.1	999.3
82°	1.1	0.1	999.5
83°	0.9	0.1	999.6
84°	0.8	0.1	999.7
85°	0.7	0.1	999.7
86°	0.7	0.1	999.8
87°	0.6	0.1	999.9
88°	0.6	0.1	999.9
89°	0.5	0.1	1000.0
90°	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	18.7	19.9	19.1	20.2	20.6	18.7	19.9	19.1	20.2	20.6
	3H	18.6	19.7	19.0	20.0	20.4	18.6	19.7	19.0	20.0	20.4
	4H	18.5	19.5	18.9	19.9	20.2	18.5	19.5	18.9	19.9	20.2
	6H	18.5	19.3	18.9	19.7	20.1	18.5	19.3	18.9	19.7	20.1
	8H	18.6	19.3	19.0	19.7	20.1	18.6	19.3	19.0	19.7	20.1
	12H	18.5	19.2	19.0	19.6	20.0	18.5	19.2	19.0	19.6	20.0
4H	2H	18.5	19.5	18.9	19.9	20.2	18.5	19.5	18.9	19.9	20.2
	3H	18.4	19.2	18.8	19.6	20.0	18.4	19.2	18.8	19.6	20.0
	4H	18.3	19.0	18.8	19.4	19.9	18.3	19.0	18.8	19.4	19.9
	6H	18.2	18.8	18.7	19.3	19.7	18.2	18.8	18.7	19.3	19.7
	8H	18.2	18.7	18.7	19.2	19.7	18.2	18.7	18.7	19.2	19.7
	12H	18.2	18.6	18.7	19.1	19.6	18.2	18.6	18.7	19.1	19.6
8H	4H	18.2	18.7	18.7	19.2	19.7	18.2	18.7	18.7	19.2	19.7
	6H	18.1	18.5	18.6	19.0	19.5	18.1	18.5	18.6	19.0	19.5
	8H	18.0	18.4	18.6	18.9	19.4	18.0	18.4	18.6	18.9	19.4
	12H	18.0	18.3	18.6	18.8	19.4	18.0	18.3	18.6	18.8	19.4
12H	4H	18.2	18.6	18.7	19.1	19.6	18.2	18.6	18.7	19.1	19.6
	6H	18.1	18.4	18.6	18.9	19.4	18.1	18.4	18.6	18.9	19.4
	8H	18.0	18.3	18.6	18.8	19.4	18.0	18.3	18.6	18.8	19.4

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 135
C-planes				
	0°			
γ	Luminance in cd/m²			
45°	18339.9			
50°	9560.6			
55°	5155.0			
60°	2891.0			
65°	1409.8			
70°	1084.8			
75°	1033.3			
80°	1058.1			
85°	1191.7			

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Luminance values in cd/m²

γ 65°

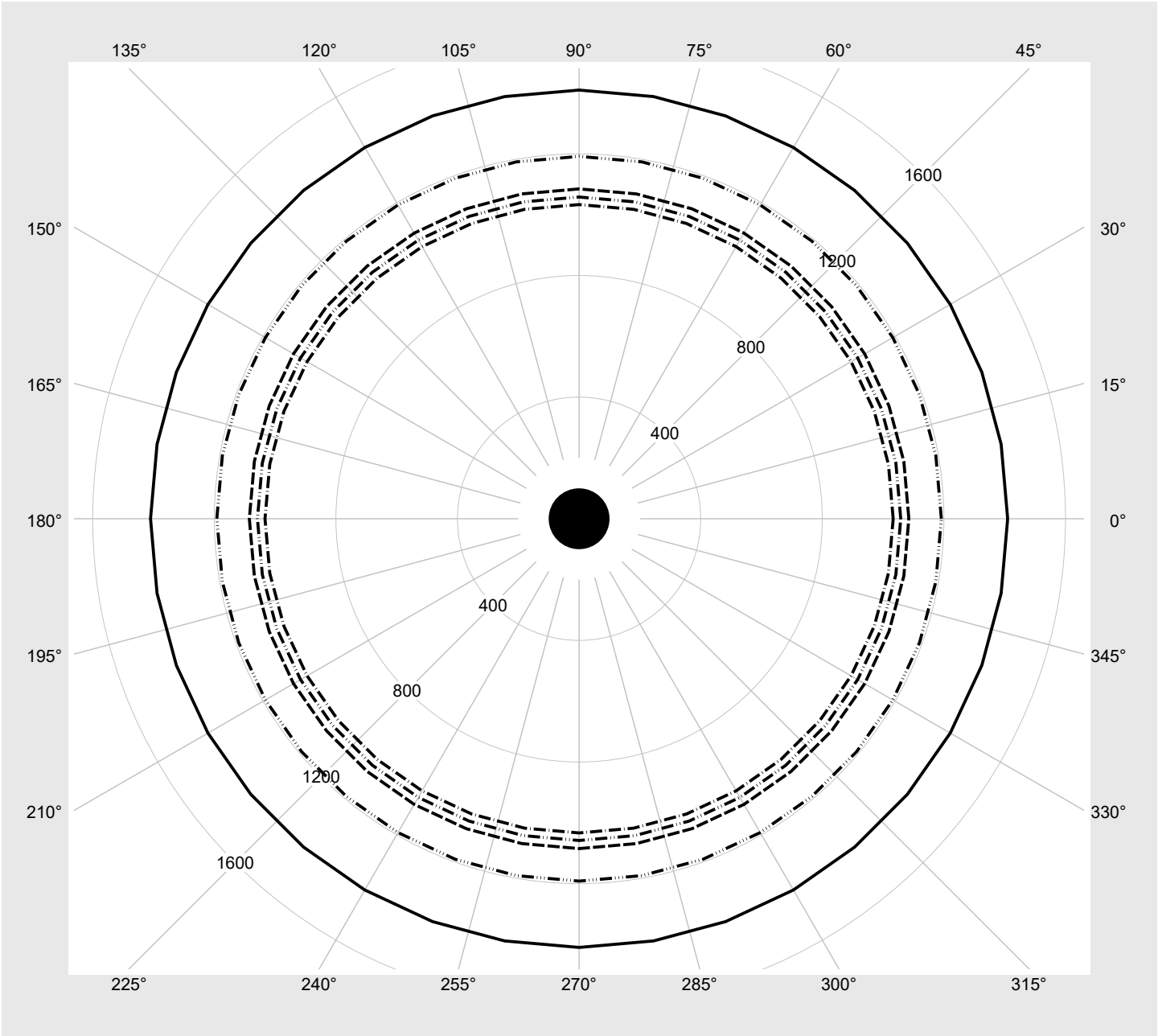
γ 70°

γ 75°

γ 80°

γ 85°

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Multilumen Table

environmental temperature: 25°C

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DIP-Step	Switch Setting				Luminous flux [lm]	Power consumption [W]
	1	2	3	4		
12	ON	ON	OFF	OFF	3900	25.4
11	ON	OFF	ON	ON	3490	21.7
10	ON	OFF	ON	OFF	3270	20.3
9	ON	OFF	OFF	ON	3110	19.2
8	ON	OFF	OFF	OFF	2890	17.7
7	OFF	ON	ON	ON	2530	15.5
6	OFF	ON	ON	OFF	2260	13.7
5	OFF	ON	OFF	ON	2020	12.2
4	OFF	ON	OFF	OFF	1730	10.5
3	OFF	OFF	ON	ON	1610	9.7
2	OFF	OFF	ON	OFF	1340	8.0
1	OFF	OFF	OFF	ON	1030	6.1
0	OFF	OFF	OFF	OFF	750	4.4