

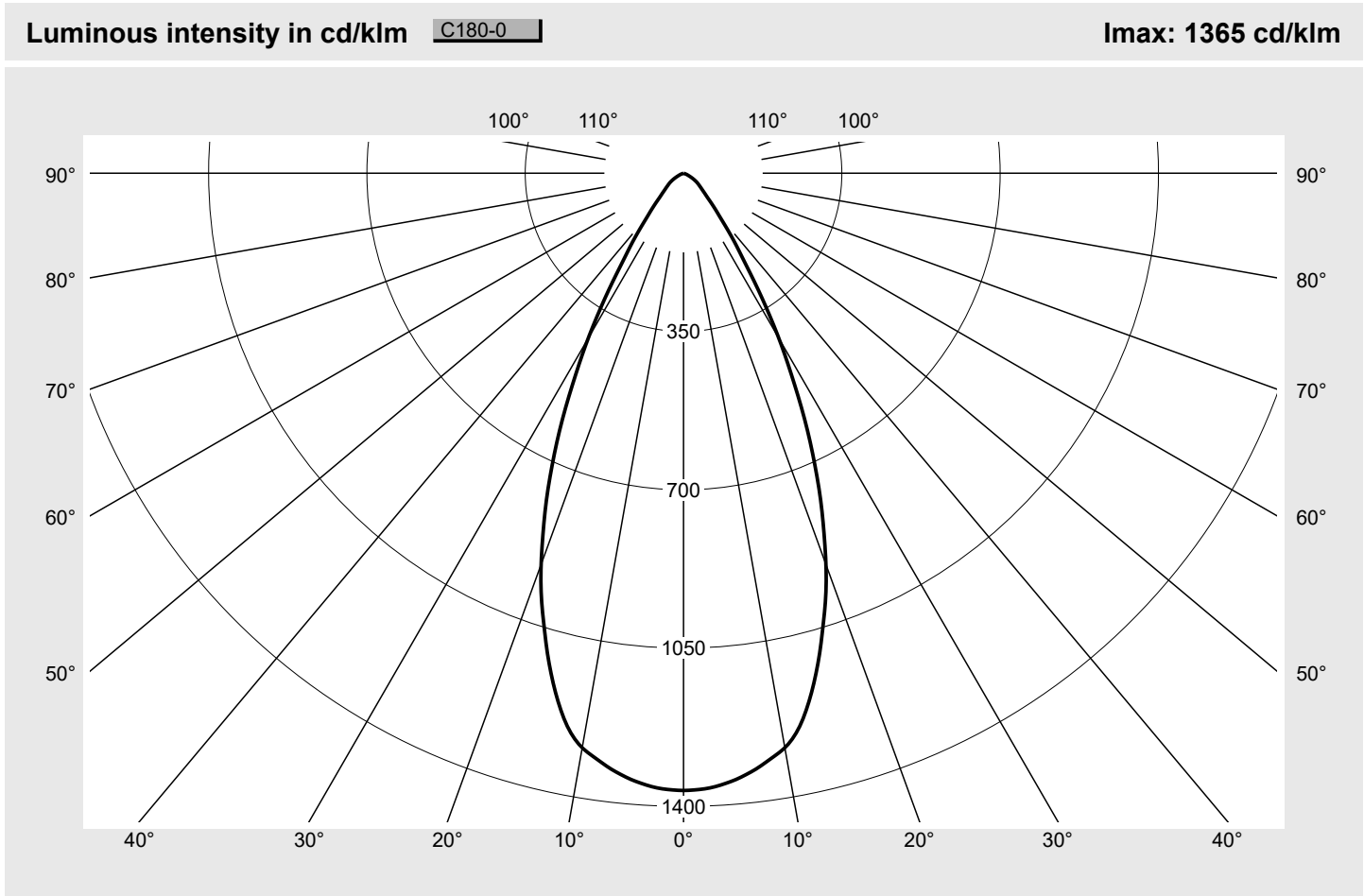
Photometric test report

Family Lunis 21 	Order number: 51DB19MA91C EAN: 4058352048603	LP number 59685_2
	Version	recessed luminaire, Combined lens and reflector optics, reflector, aluminium, matt, rotationally symmetrical medium distribution, adjustable color temperature: 3000K 4000K 6500K
	Lamps Controlgear Setting Rated values	LED 4000 K CRI ≥ 80 ECG factory setting: colour temperature 4000K Net luminous flux = 940 lm Power consumption = 5.9 W Luminous efficacy = 159.3 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=90 N2=98 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°	1364.9	0.3	0.3
1°	1363.9	2.6	2.9
2°	1361.9	5.2	8.1
3°	1358.0	7.8	15.9
4°	1352.1	10.3	26.3
5°	1345.2	12.9	39.1
6°	1336.3	15.3	54.5
7°	1326.5	17.7	72.2
8°	1314.6	20.1	92.3
9°	1302.8	22.3	114.6
10°	1290.0	24.6	139.2
11°	1271.3	26.6	165.8
12°	1245.7	28.4	194.2
13°	1213.2	29.9	224.1
14°	1176.8	31.2	255.3
15°	1137.4	32.3	287.6
16°	1096.0	33.1	320.7
17°	1052.7	33.8	354.5
18°	1011.3	34.3	388.7
19°	968.1	34.6	423.3
20°	920.6	34.5	457.8
21°	870.2	34.2	492.0
22°	820.9	33.7	525.8
23°	771.4	33.1	558.8
24°	719.5	32.1	590.9
25°	668.4	31.0	621.9
26°	616.8	29.7	651.5
27°	564.5	28.1	679.6
28°	513.3	26.4	706.1
29°	466.6	24.8	730.9
30°	421.5	23.1	754.0
31°	375.7	21.2	775.2
32°	332.5	19.3	794.5
33°	291.9	17.4	811.9
34°	254.5	15.6	827.5
35°	224.4	14.1	841.7
36°	201.0	13.0	854.6
37°	178.8	11.8	866.4
38°	157.4	10.6	877.0
39°	138.2	9.5	886.6
40°	122.5	8.6	895.2
41°	110.7	8.0	903.2
42°	99.6	7.3	910.5
43°	89.5	6.7	917.2
44°	80.1	6.1	923.3
45°	72.6	5.6	928.9
46°	67.0	5.3	934.2

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
47°	61.9	5.0	939.2
48°	57.4	4.7	943.8
49°	53.5	4.4	948.3
50°	50.3	4.2	952.5
51°	47.2	4.0	956.5
52°	44.4	3.8	960.3
53°	41.9	3.7	964.0
54°	39.6	3.5	967.5
55°	37.3	3.4	970.9
56°	34.8	3.2	974.0
57°	31.9	2.9	977.0
58°	29.1	2.7	979.7
59°	26.2	2.5	982.2
60°	23.4	2.2	984.4
61°	20.6	2.0	986.3
62°	17.9	1.7	988.1
63°	15.3	1.5	989.6
64°	13.1	1.3	990.9
65°	11.3	1.1	992.0
66°	9.8	1.0	993.0
67°	8.4	0.8	993.8
68°	7.4	0.7	994.6
69°	6.5	0.7	995.2
70°	5.7	0.6	995.8
71°	5.1	0.5	996.3
72°	4.6	0.5	996.8
73°	4.1	0.4	997.2
74°	3.6	0.4	997.6
75°	3.2	0.3	998.0
76°	2.9	0.3	998.3
77°	2.6	0.3	998.6
78°	2.3	0.2	998.8
79°	2.0	0.2	999.0
80°	1.7	0.2	999.2
81°	1.5	0.2	999.4
82°	1.3	0.1	999.5
83°	1.1	0.1	999.6
84°	0.8	0.1	999.7
85°	0.6	0.1	999.8
86°	0.6	0.1	999.8
87°	0.5	0.1	999.9
88°	0.5	0.1	1000.0
89°	0.4	0.0	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	20.6	21.8	21.0	22.1	22.4	20.6	21.8	21.0	22.1	22.4
	3H	20.6	21.6	21.0	22.0	22.3	20.6	21.6	21.0	22.0	22.3
	4H	20.6	21.5	21.0	21.9	22.2	20.6	21.5	21.0	21.9	22.2
	6H	20.5	21.4	21.0	21.7	22.1	20.5	21.4	21.0	21.7	22.1
	8H	20.6	21.3	21.1	21.7	22.1	20.6	21.3	21.1	21.7	22.1
	12H	20.6	21.2	21.0	21.6	22.0	20.6	21.2	21.0	21.6	22.0
4H	2H	20.6	21.5	21.0	21.9	22.3	20.6	21.5	21.0	21.9	22.3
	3H	20.6	21.4	21.0	21.8	22.2	20.6	21.4	21.0	21.8	22.2
	4H	20.6	21.2	21.0	21.7	22.1	20.6	21.2	21.0	21.7	22.1
	6H	20.5	21.1	21.0	21.5	22.0	20.5	21.1	21.0	21.5	22.0
	8H	20.5	21.0	21.0	21.5	21.9	20.5	21.0	21.0	21.5	21.9
	12H	20.5	20.9	21.0	21.4	21.9	20.5	20.9	21.0	21.4	21.9
8H	4H	20.5	21.0	20.9	21.4	21.9	20.5	21.0	20.9	21.4	21.9
	6H	20.4	20.8	20.9	21.3	21.8	20.4	20.8	20.9	21.3	21.8
	8H	20.4	20.7	20.9	21.2	21.8	20.4	20.7	20.9	21.2	21.8
	12H	20.4	20.6	20.9	21.1	21.7	20.4	20.6	20.9	21.1	21.7
12H	4H	20.5	20.9	21.0	21.3	21.8	20.5	20.9	21.0	21.3	21.8
	6H	20.4	20.7	20.9	21.2	21.7	20.4	20.7	20.9	21.2	21.7
	8H	20.4	20.6	20.9	21.1	21.7	20.4	20.6	20.9	21.1	21.7

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 57
C-planes		0°		
γ	Luminance in cd/m²			
45°	37809.1			
50°	28838.3			
55°	23963.2			
60°	17231.0			
65°	9854.0			
70°	6178.0			
75°	4612.9			
80°	3670.0			
85°	2629.0			

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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