Photometric test report

Family
Lunis R LED



Order number: 51DC312MD4400A
EAN: 4069025359261

LP number
59721_8

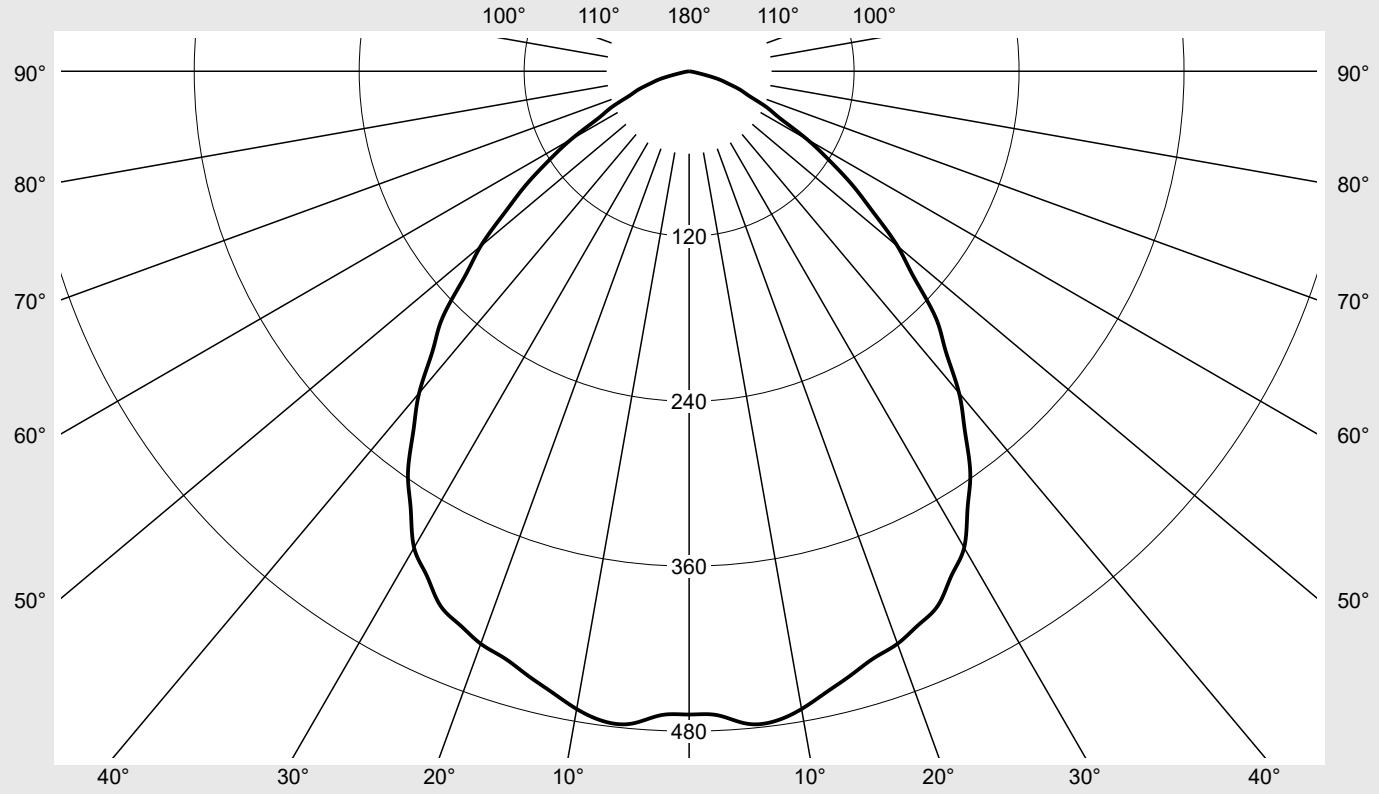
serial documentation
05.05.2025

Version	Downlight for ceiling surface mounting or suspended mounting
Lamps	LED 4000 K | CRI ≥ 80
Controlgear	ECG Multilumen
Rated values	Net luminous flux = 4140 lm Power consumption = 25.3 W Luminous efficacy = 163.6 lm/W

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Luminous intensity in cd/klm C180-0

Imax: 477 cd/klm



Classifications

DIN 5040	A 5 0
CIE	N1=62 N2=91 N3=99 N4=100 N5=100

Luminaire light output ratios

ηLB	100.0%
ϕ_u	100.0%
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

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm	Luminous flux in lm/klm	
0,0°	467.9	**0.7**	**0.7**
2,5°	468.8	**5.6**	**6.3**
5,0°	476.3	**11.4**	**17.7**
7,5°	476.9	**17.1**	**34.7**
10,0°	471.1	**22.4**	**57.2**
12,5°	462.5	**27.4**	**84.6**
15,0°	454.8	**32.3**	**116.9**
17,5°	447.5	**36.9**	**153.8**
20,0°	443.2	**41.6**	**195.3**
22,5°	435.9	**45.7**	**241.1**
25,0°	428.6	**49.7**	**290.7**
27,5°	413.5	**52.3**	**343.0**
30,0°	400.2	**54.8**	**397.9**
32,5°	377.0	**55.5**	**453.4**
35,0°	356.6	**56.1**	**509.5**
37,5°	329.5	**55.0**	**564.5**
40,0°	305.5	**53.8**	**618.3**
42,5°	276.3	**51.2**	**669.5**
45,0°	253.9	**49.2**	**718.7**
47,5°	221.7	**44.8**	**763.5**
50,0°	197.9	**41.6**	**805.1**
52,5°	169.3	**36.8**	**841.9**
55,0°	145.9	**32.8**	**874.6**
57,5°	121.3	**28.1**	**902.7**
60,0°	99.1	**23.5**	**926.2**
62,5°	75.2	**18.3**	**944.5**
65,0°	62.7	**15.6**	**960.1**
67,5°	47.9	**12.1**	**972.2**
70,0°	39.8	**10.2**	**982.5**
72,5°	29.5	**7.7**	**990.2**
75,0°	21.8	**5.8**	**996.0**
77,5°	9.4	**2.5**	**998.5**
80,0°	3.7	**1.0**	**999.5**
82,5°	0.8	**0.2**	**999.7**
85,0°	0.7	**0.2**	**999.9**
87,5°	0.4	**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	21.1	22.7	21.5	23.0	23.3	21.1	22.7	21.5	23.0	23.3
	3H	21.6	23.0	22.0	23.3	23.7	21.6	23.0	22.0	23.3	23.7
	4H	21.7	23.0	22.1	23.4	23.7	21.7	23.0	22.1	23.4	23.7
	6H	21.7	22.9	22.1	23.2	23.6	21.7	22.9	22.1	23.2	23.6
	8H	21.8	22.8	22.2	23.2	23.6	21.8	22.8	22.2	23.2	23.6
	12H	21.7	22.7	22.2	23.1	23.5	21.7	22.7	22.2	23.1	23.5
4H	2H	21.4	22.7	21.8	23.0	23.4	21.4	22.7	21.8	23.0	23.4
	3H	22.0	23.1	22.5	23.5	23.9	22.0	23.1	22.5	23.5	23.9
	4H	22.2	23.1	22.7	23.5	24.0	22.2	23.1	22.7	23.5	24.0
	6H	22.2	23.0	22.7	23.4	23.9	22.2	23.0	22.7	23.4	23.9
	8H	22.2	22.9	22.6	23.3	23.8	22.2	22.9	22.6	23.3	23.8
	12H	22.2	22.8	22.7	23.3	23.7	22.2	22.8	22.7	23.3	23.7
8H	4H	22.2	23.0	22.7	23.4	23.9	22.2	23.0	22.7	23.4	23.9
	6H	22.2	22.8	22.7	23.3	23.8	22.2	22.8	22.7	23.3	23.8
	8H	22.2	22.7	22.7	23.2	23.7	22.2	22.7	22.7	23.2	23.7
	12H	22.1	22.6	22.7	23.1	23.6	22.1	22.6	22.7	23.1	23.6
12H	4H	22.2	22.9	22.7	23.3	23.8	22.2	22.9	22.7	23.3	23.8
	6H	22.2	22.7	22.7	23.2	23.7	22.2	22.7	22.7	23.2	23.7
	8H	22.2	22.6	22.7	23.1	23.6	22.2	22.6	22.7	23.1	23.6

Luminance table

Max. for $\gamma >= 65°$

Photometric dimensions in mm: D = 308

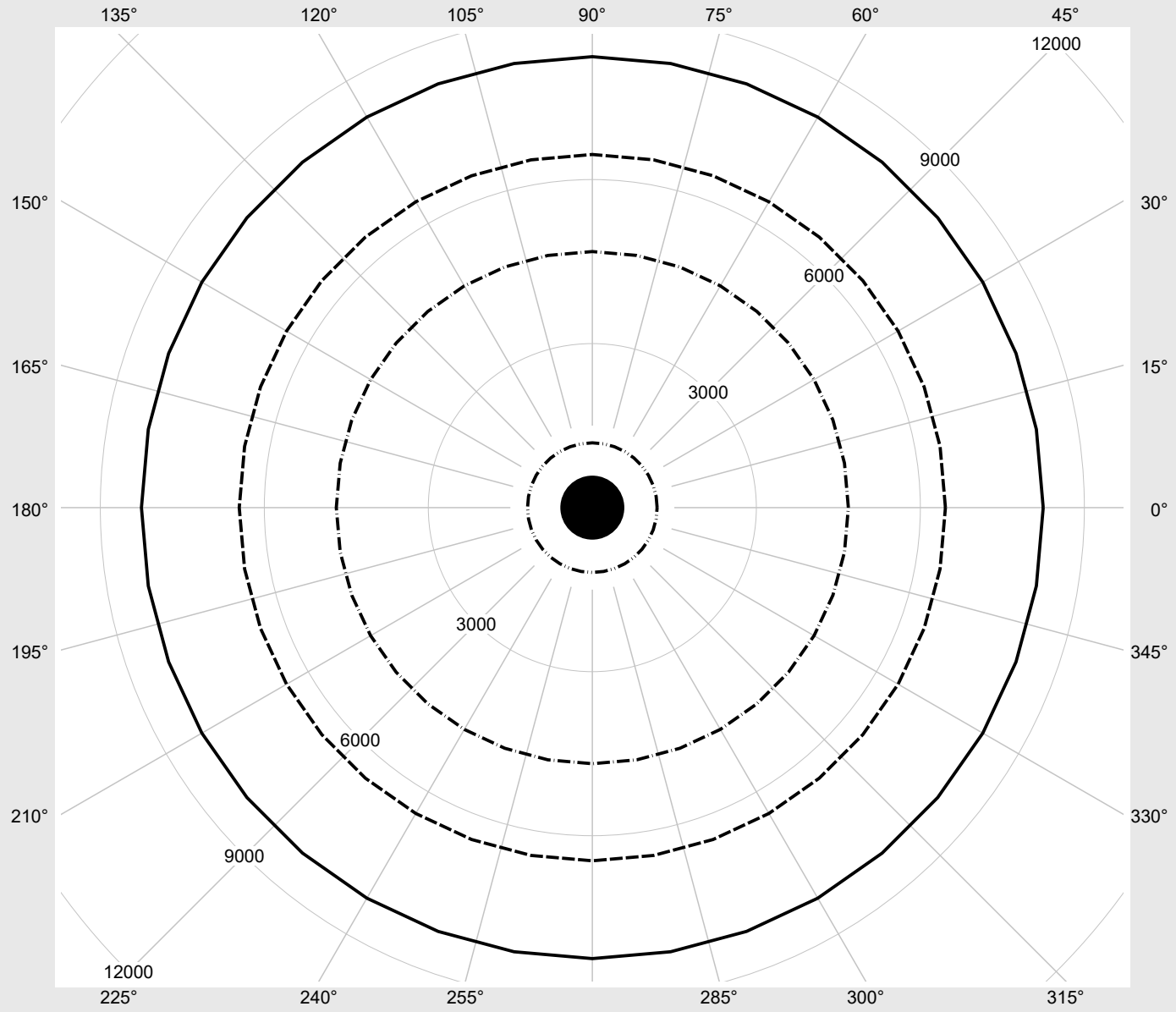
C-planes	0°
γ	Luminance in cd/m²
45,0°	19949.7
50,0°	17110.3
55,0°	14136.6
60,0°	11017.0
65,0°	8247.5
70,0°	6458.8
75,0°	4683.3
80,0°	1185.2
85,0°	429.1

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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

DIP-Step	Switch Setting 1	2	3	Luminous flux [lm]	Power consumption [W]
7	ON	ON	ON	4140	25.3
6	OFF	ON	ON	3860	23.5
5	ON	OFF	ON	3570	21.7
4	OFF	OFF	ON	3290	20.0
3	ON	ON	OFF	3000	18.1
2	OFF	ON	OFF	2710	16.5
1	ON	OFF	OFF	2420	14.9
0	OFF	OFF	OFF	2120	13.2