Photometric test report

Family
Lunis R LED



Order number: 51DC312MDB400A
EAN: 4069025359292

Version	Downlight for ceiling surface mounting or suspended mounting
Lamps	LED 3000 K | CRI ≥ 90
Controlgear	ECG Multilumen
Rated values	Net luminous flux = 3830 lm Power consumption = 26.2 W Luminous efficacy = 146.2 lm/W

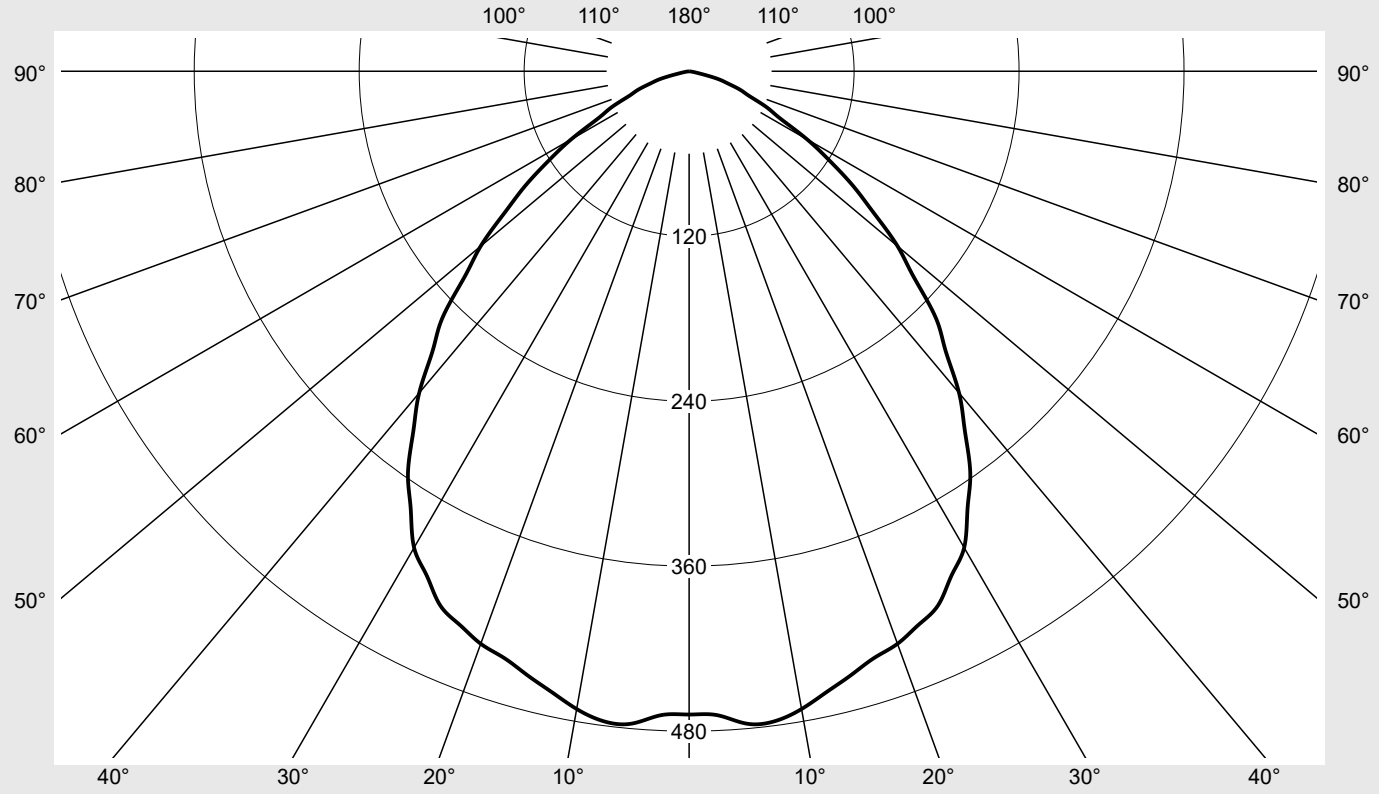
LP number
59721_35

serial documentation
14.05.2025

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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	20.9	22.4	21.2	22.7	23.0	20.9	22.4	21.2	22.7	23.0
	3H	21.3	22.7	21.7	23.0	23.4	21.3	22.7	21.7	23.0	23.4
	4H	21.5	22.7	21.9	23.1	23.5	21.5	22.7	21.9	23.1	23.5
	6H	21.5	22.6	21.9	23.0	23.4	21.5	22.6	21.9	23.0	23.4
	8H	21.5	22.5	21.9	22.9	23.3	21.5	22.5	21.9	22.9	23.3
	12H	21.5	22.4	21.9	22.8	23.2	21.5	22.4	21.9	22.8	23.2
4H	2H	21.2	22.4	21.6	22.8	23.1	21.2	22.4	21.6	22.8	23.1
	3H	21.8	22.8	22.2	23.2	23.6	21.8	22.8	22.2	23.2	23.6
	4H	21.9	22.9	22.4	23.3	23.7	21.9	22.9	22.4	23.3	23.7
	6H	21.9	22.7	22.4	23.2	23.6	21.9	22.7	22.4	23.2	23.6
	8H	21.9	22.6	22.4	23.1	23.5	21.9	22.6	22.4	23.1	23.5
	12H	21.9	22.5	22.4	23.0	23.5	21.9	22.5	22.4	23.0	23.5
8H	4H	22.0	22.7	22.4	23.1	23.6	22.0	22.7	22.4	23.1	23.6
	6H	21.9	22.5	22.4	23.0	23.5	21.9	22.5	22.4	23.0	23.5
	8H	21.9	22.4	22.4	22.9	23.4	21.9	22.4	22.4	22.9	23.4
	12H	21.9	22.3	22.4	22.8	23.3	21.9	22.3	22.4	22.8	23.3
12H	4H	22.0	22.6	22.4	23.0	23.5	22.0	22.6	22.4	23.0	23.5
	6H	21.9	22.4	22.4	22.9	23.4	21.9	22.4	22.4	22.9	23.4
	8H	21.9	22.3	22.4	22.8	23.4	21.9	22.3	22.4	22.8	23.4

Luminance table

Max. for $\gamma >= 65°$

Photometric dimensions in mm: D = 308

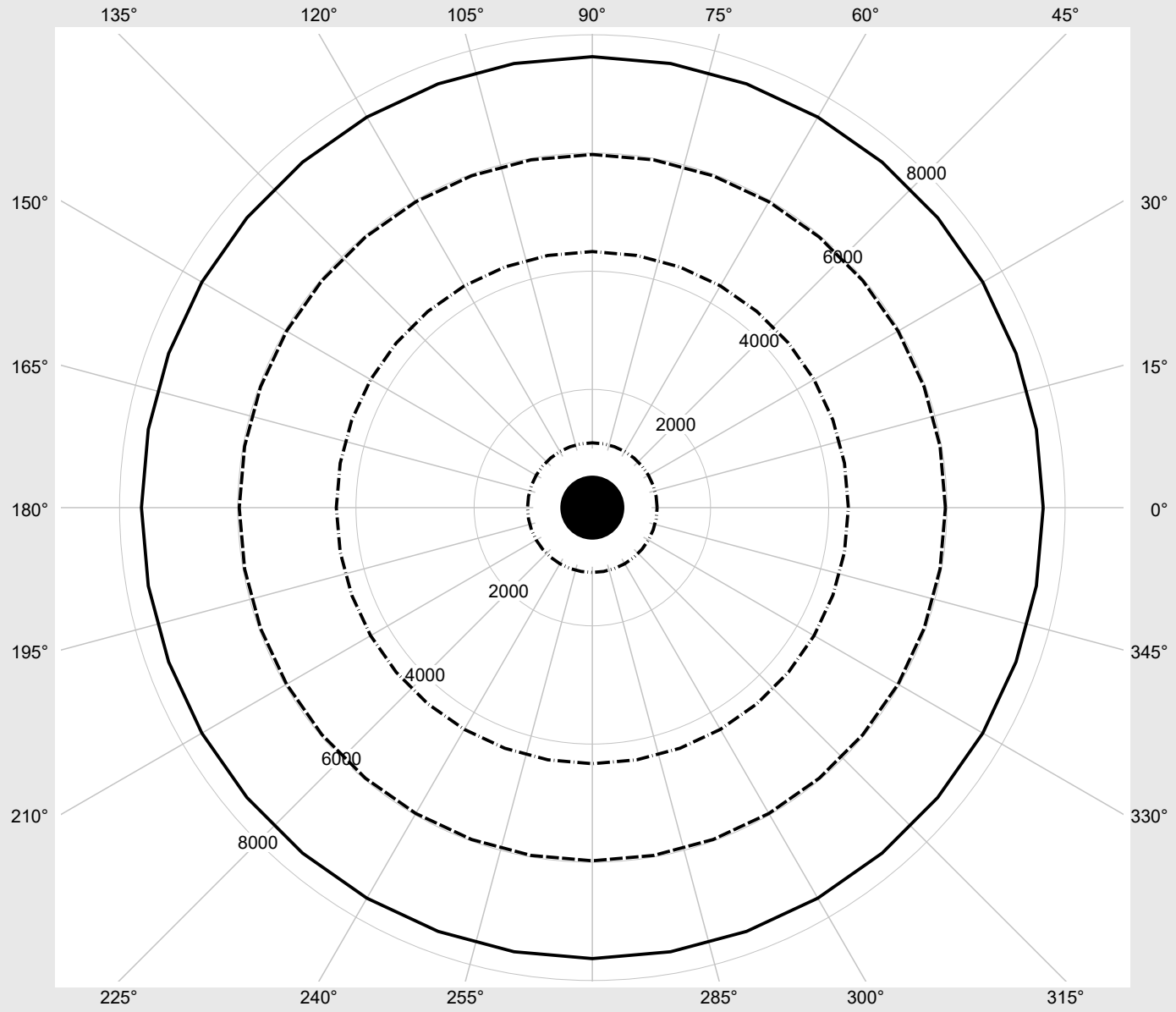
C-planes	0°
γ	Luminance in cd/m²
45,0°	18455.8
50,0°	15829.1
55,0°	13078.0
60,0°	10192.0
65,0°	7629.9
70,0°	5975.1
75,0°	4332.6
80,0°	1096.5
85,0°	396.9

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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	3830	26.2
6	OFF	ON	ON	3580	24.3
5	ON	OFF	ON	3320	22.4
4	OFF	OFF	ON	3060	20.6
3	ON	ON	OFF	2800	18.7
2	OFF	ON	OFF	2530	17.0
1	ON	OFF	OFF	2260	15.3
0	OFF	OFF	OFF	1990	13.5