Photometric test report

Family
Lunis R LED



Order number: 51DC112DD2400A
EAN: 4069025358967

Version	Downlight for ceiling surface mounting or suspended mounting
Lamps	LED 3000 K | CRI ≥ 80
Controlgear	ECG-DALI
Rated values	Net luminous flux = 4800 lm Power consumption = 31.1 W Luminous efficacy = 154.3 lm/W

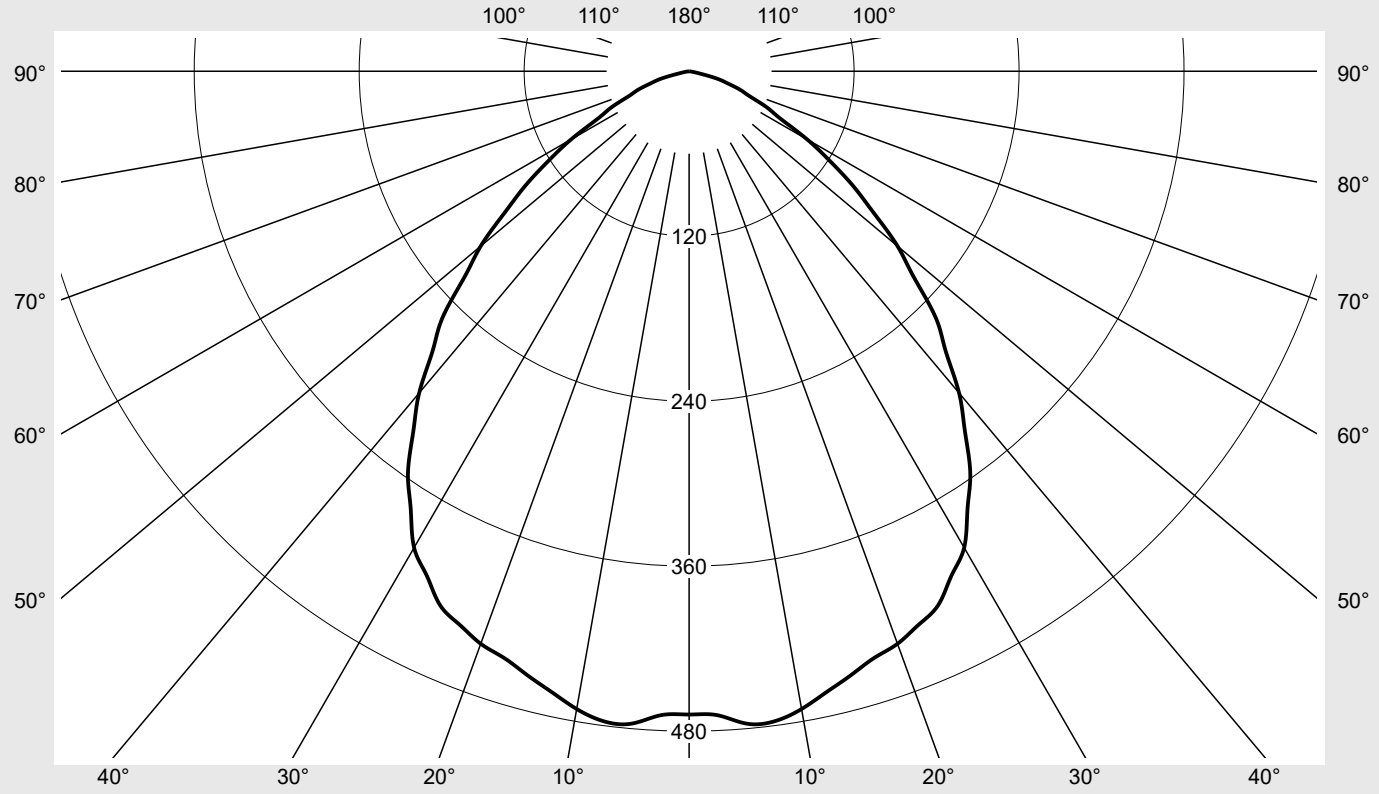
LP number
59721_11

serial documentation
05.05.2025

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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	21.6	23.2	22.0	23.5	23.8	21.6	23.2	22.0	23.5	23.8
	3H	22.1	23.5	22.5	23.8	24.2	22.1	23.5	22.5	23.8	24.2
	4H	22.3	23.5	22.7	23.9	24.2	22.3	23.5	22.7	23.9	24.2
	6H	22.2	23.4	22.7	23.8	24.2	22.2	23.4	22.7	23.8	24.2
	8H	22.3	23.3	22.7	23.7	24.1	22.3	23.3	22.7	23.7	24.1
	12H	22.2	23.2	22.7	23.6	24.0	22.2	23.2	22.7	23.6	24.0
4H	2H	22.0	23.2	22.3	23.6	23.9	22.0	23.2	22.3	23.6	23.9
	3H	22.6	23.6	23.0	24.0	24.4	22.6	23.6	23.0	24.0	24.4
	4H	22.7	23.7	23.2	24.1	24.5	22.7	23.7	23.2	24.1	24.5
	6H	22.7	23.5	23.2	23.9	24.4	22.7	23.5	23.2	23.9	24.4
	8H	22.7	23.4	23.2	23.9	24.3	22.7	23.4	23.2	23.9	24.3
	12H	22.7	23.3	23.2	23.8	24.3	22.7	23.3	23.2	23.8	24.3
8H	4H	22.7	23.5	23.2	23.9	24.4	22.7	23.5	23.2	23.9	24.4
	6H	22.7	23.3	23.2	23.8	24.3	22.7	23.3	23.2	23.8	24.3
	8H	22.7	23.2	23.2	23.7	24.2	22.7	23.2	23.2	23.7	24.2
	12H	22.7	23.1	23.2	23.6	24.1	22.7	23.1	23.2	23.6	24.1
12H	4H	22.7	23.4	23.2	23.8	24.3	22.7	23.4	23.2	23.8	24.3
	6H	22.7	23.2	23.2	23.7	24.2	22.7	23.2	23.2	23.7	24.2
	8H	22.7	23.1	23.2	23.6	24.1	22.7	23.1	23.2	23.6	24.1

Luminance table

Max. for $\gamma >= 65°$

Photometric dimensions in mm: D = 308

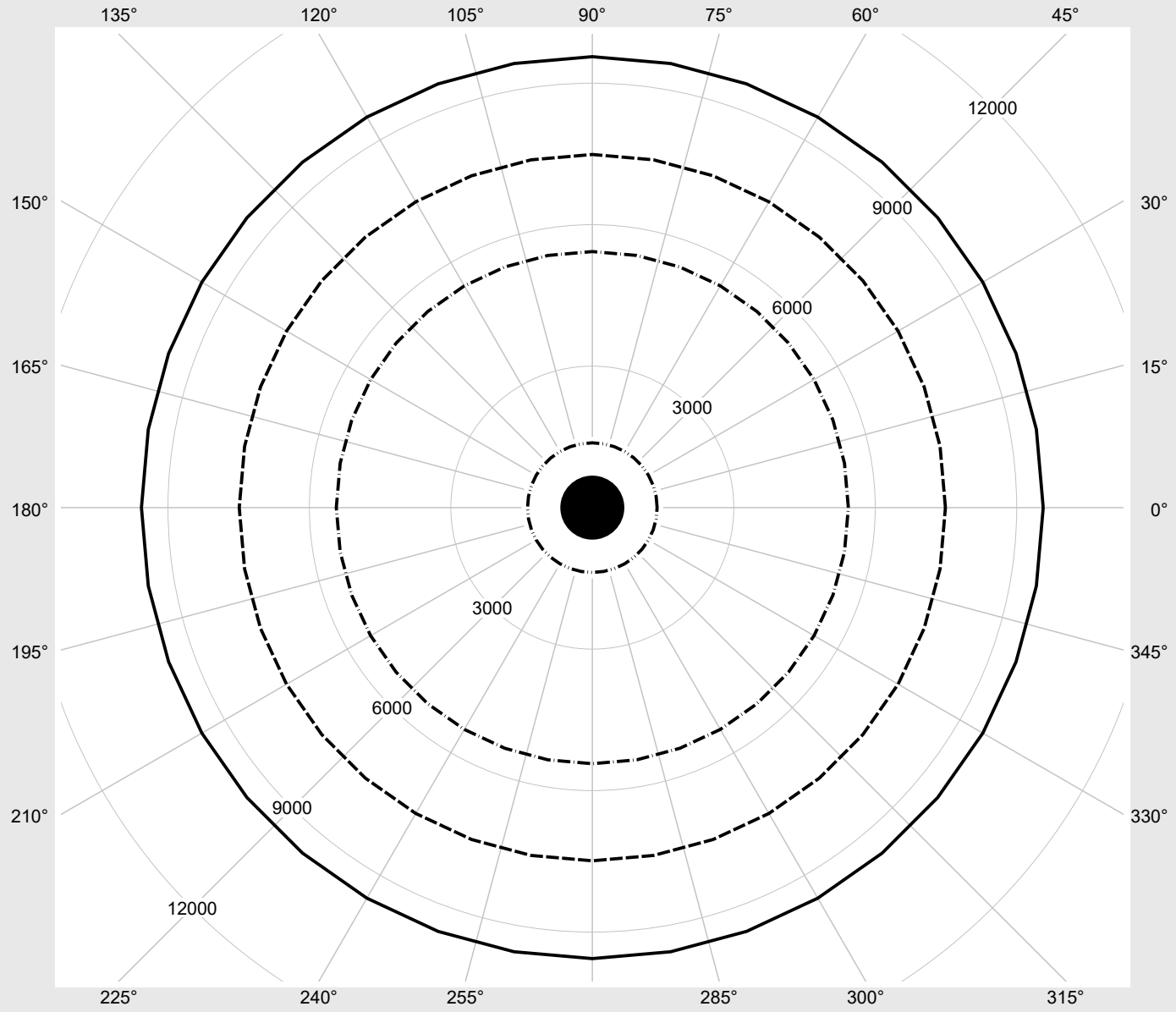
C-planes	0°
γ	Luminance in cd/m²
45,0°	23130.0
50,0°	19838.0
55,0°	16390.2
60,0°	12773.3
65,0°	9562.3
70,0°	7488.4
75,0°	5429.9
80,0°	1374.2
85,0°	497.5

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°

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Dimming levels table

environmental temperature: 25°C

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	4800	31.1
95	240	252	4551	29.3
90	227	250	4317	27.9
85	214	248	4083	26.2
80	201	245	3846	24.7
75	188	243	3608	23.1
70	175	240	3369	21.6
65	162	238	3128	20.0
60	149	234	2886	18.5
55	136	231	2642	17.0
50	123	227	2397	15.4
45	111	224	2168	14.1
40	98	219	1920	12.6
35	86	214	1688	11.3
30	73	208	1435	9.8
25	61	202	1201	8.4
20	49	194	965	7.0
15	37	183	728	5.7
10	25	169	489	4.4
5	13	145	249	3.0
1	4	102	67	1.6