Photometric test report

Family
Lunis R LED



Order number: 51DC612DD4400A
EAN: 4069025359384

Version	Downlight for ceiling surface mounting or suspended mounting
Lamps	LED 4000 K | CRI ≥ 80
Controlgear	ECG-DALI
Rated values	Net luminous flux = 4800 lm Power consumption = 29.6 W Luminous efficacy = 162.2 lm/W

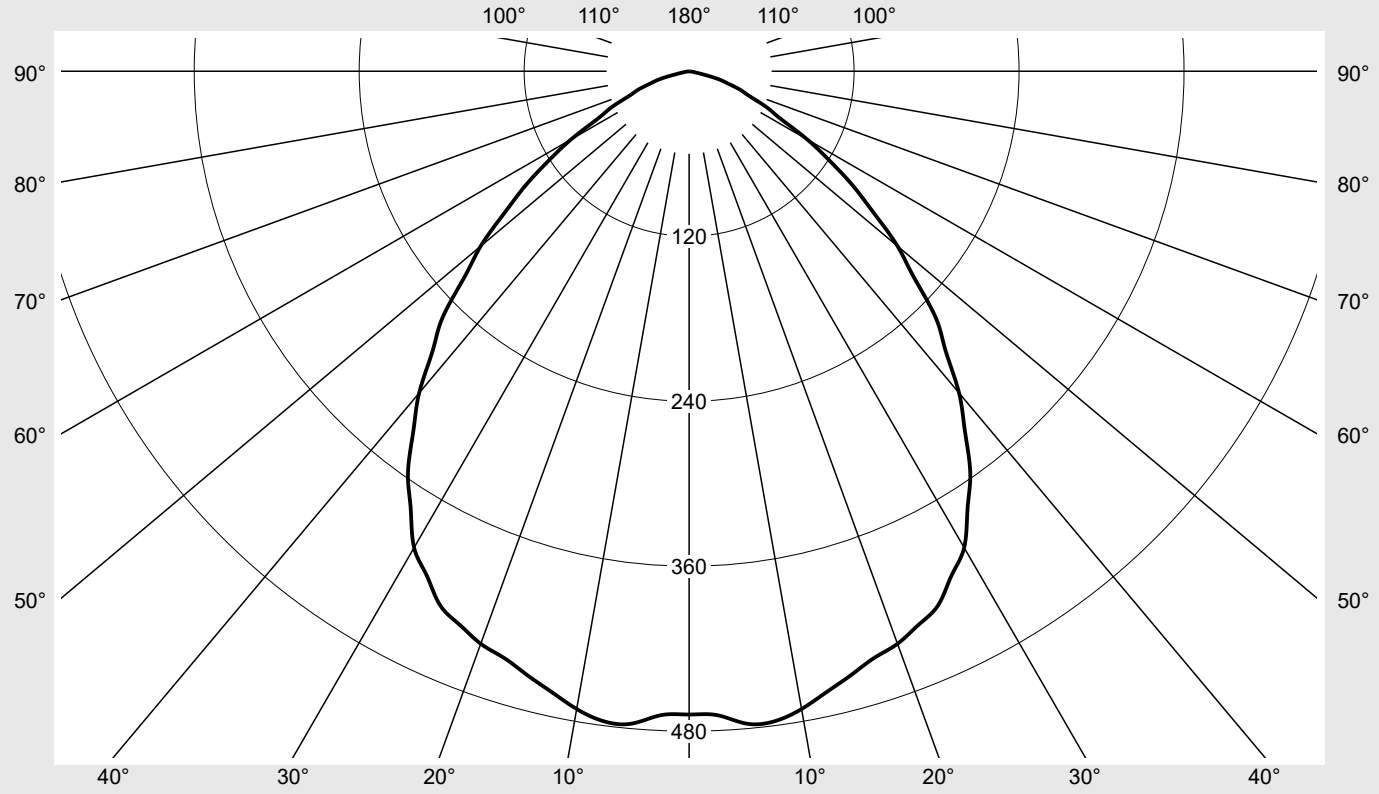
LP number
59721_16

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

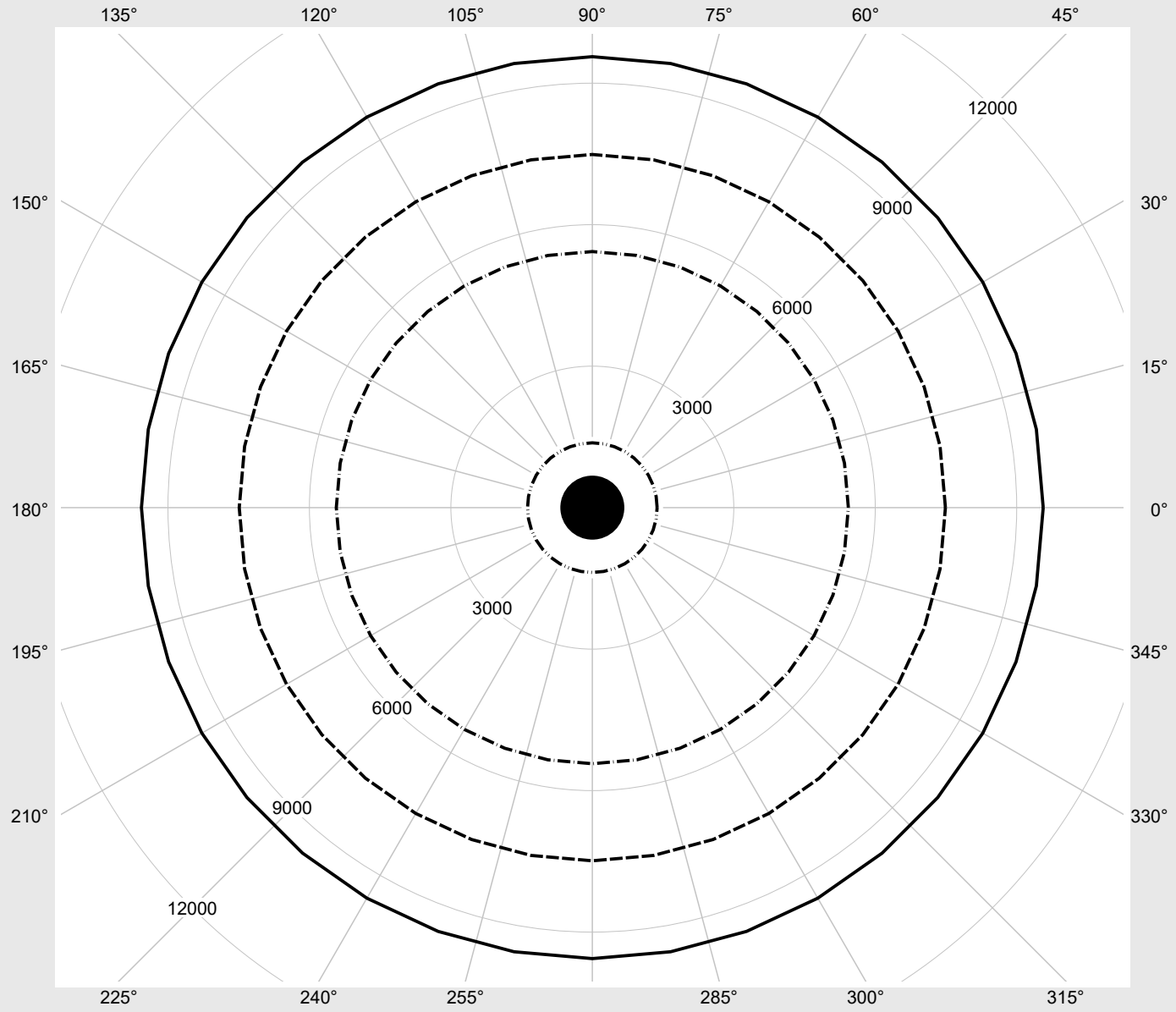
C-planes	0°
γ	Luminance in cd/m²
45,0°	23130.0
50,0°	19838.0
55,0°	16390.2
60,0°	12773.3
65,0°	9562.3
70,0°	7488.4
75,0°	5429.9
80,0°	1374.2
85,0°	497.5

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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	29.6
95	241	252	4567	28.1
90	227	250	4316	26.4
85	214	248	4080	24.9
80	201	245	3843	23.6
75	188	243	3605	22.1
70	175	240	3366	20.5
65	162	238	3125	19.2
60	149	234	2883	17.7
55	136	231	2639	16.2
50	123	227	2393	14.8
45	111	224	2164	13.5
40	98	219	1916	12.1
35	86	214	1685	10.7
30	73	208	1433	9.4
25	61	202	1198	8.1
20	49	194	962	6.8
15	37	183	724	5.5
10	25	169	485	4.2
5	13	145	243	2.9
1	4	102	61	1.6