Photometric test report

Family
Lunis R LED



Order number: 51DC612DDD400A
EAN: 4069025359421

Version	Downlight for ceiling surface mounting or suspended mounting
Lamps	LED 4000 K | CRI ≥ 90
Controlgear	ECG-DALI
Rated values	Net luminous flux = 4800 lm Power consumption = 34.3 W Luminous efficacy = 139.9 lm/W

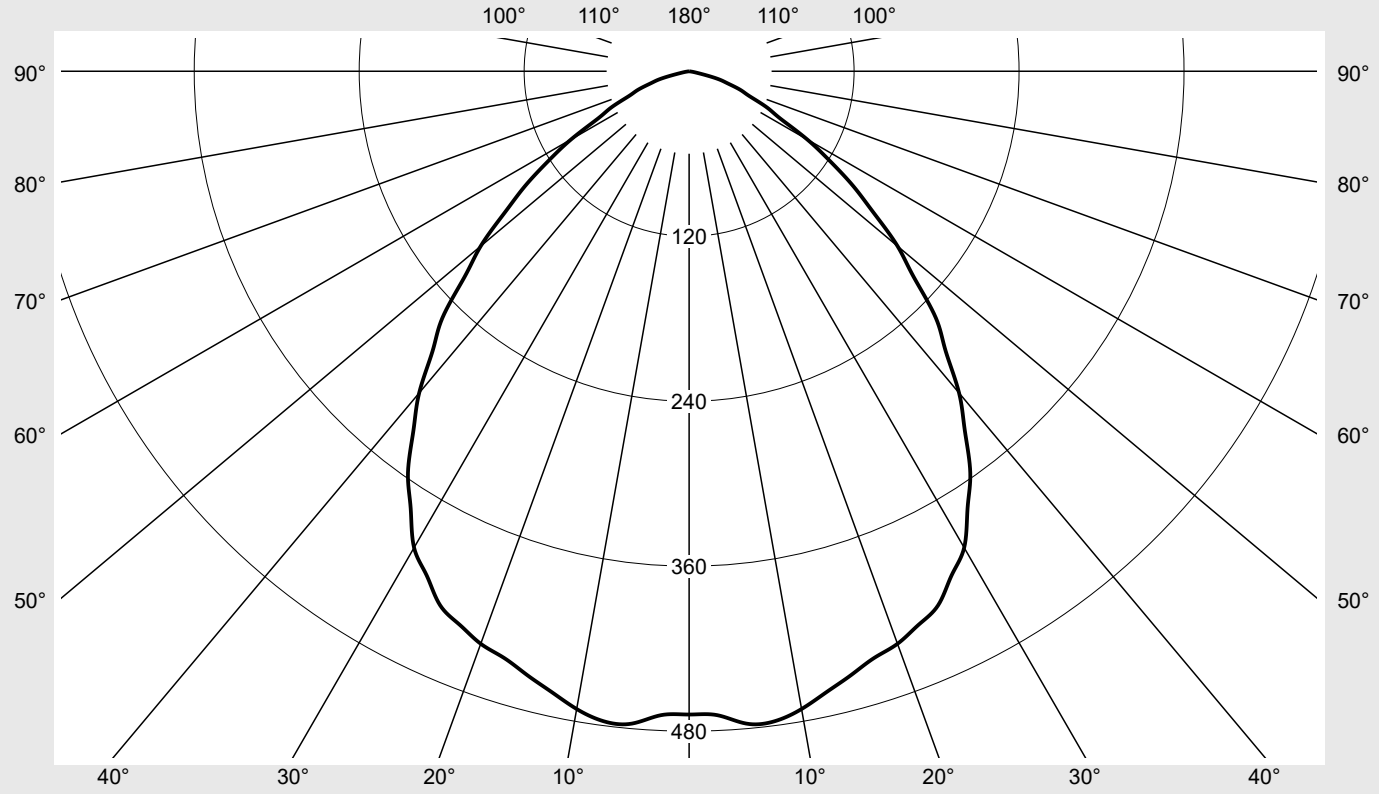
LP number
59721_38

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	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

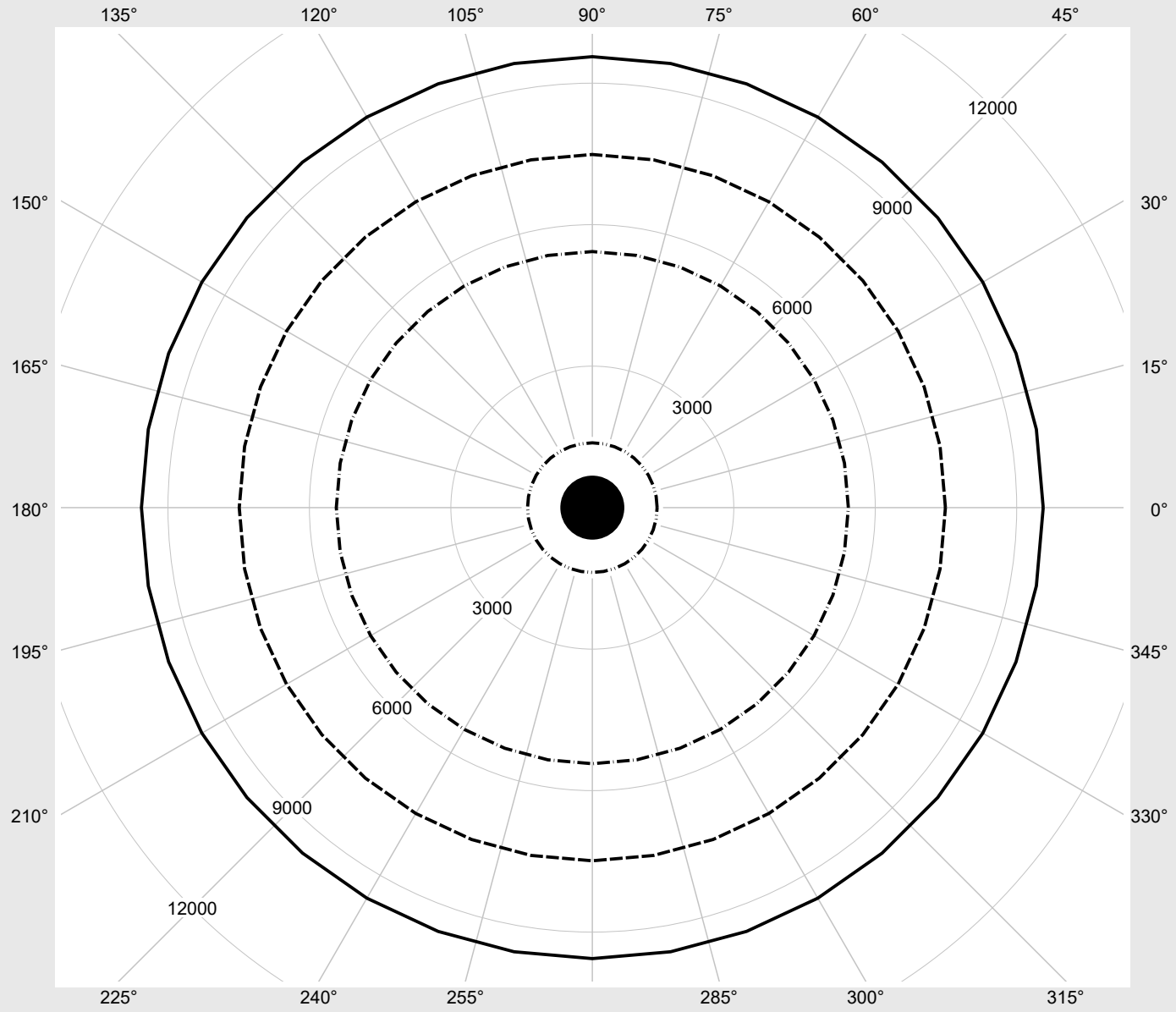
C-planes	0°
γ	Luminance in cd/m²
45,0°	23130.0
50,0°	19838.0
55,0°	16390.2
60,0°	12773.3
65,0°	9562.3
70,0°	7488.4
75,0°	5429.9
80,0°	1374.2
85,0°	497.5

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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	34.3
95	240	252	4559	32.3
90	226	250	4317	30.4
85	213	248	4088	28.6
80	199	245	3840	26.6
75	186	243	3607	24.9
70	172	240	3354	23.1
65	159	237	3116	21.4
60	146	234	2876	19.7
55	133	230	2634	17.9
50	121	227	2408	16.5
45	108	223	2160	14.8
40	96	218	1928	13.3
35	83	213	1676	11.7
30	71	207	1440	10.2
25	59	201	1202	8.7
20	47	192	962	7.2
15	35	181	719	5.7
10	23	166	474	4.3
5	12	142	247	2.9
2	4	102	81	1.7