Photometric test report

Family
Apollon® 21



Order number: 51MQ12WD2W55
EAN: 4069025336460

LP number
59880_6

serial documentation
30.10.2025

Version	recessed luminaire for lay-in mounting, square M600, wide distribution, UGR≤19 (L65≤3000cd/m²), tunable white
Lamps	LED 2700 K ... 6500 K | CRI ≥ 90
Controlgear	ECG-DALI
Setting	factory setting: DIP-Step=7, colour temperature 4000K
Rated values	at 4000 K Net luminous flux = 4820 lm Power consumption = 32.1 W Luminous efficacy = 150.2 lm/W

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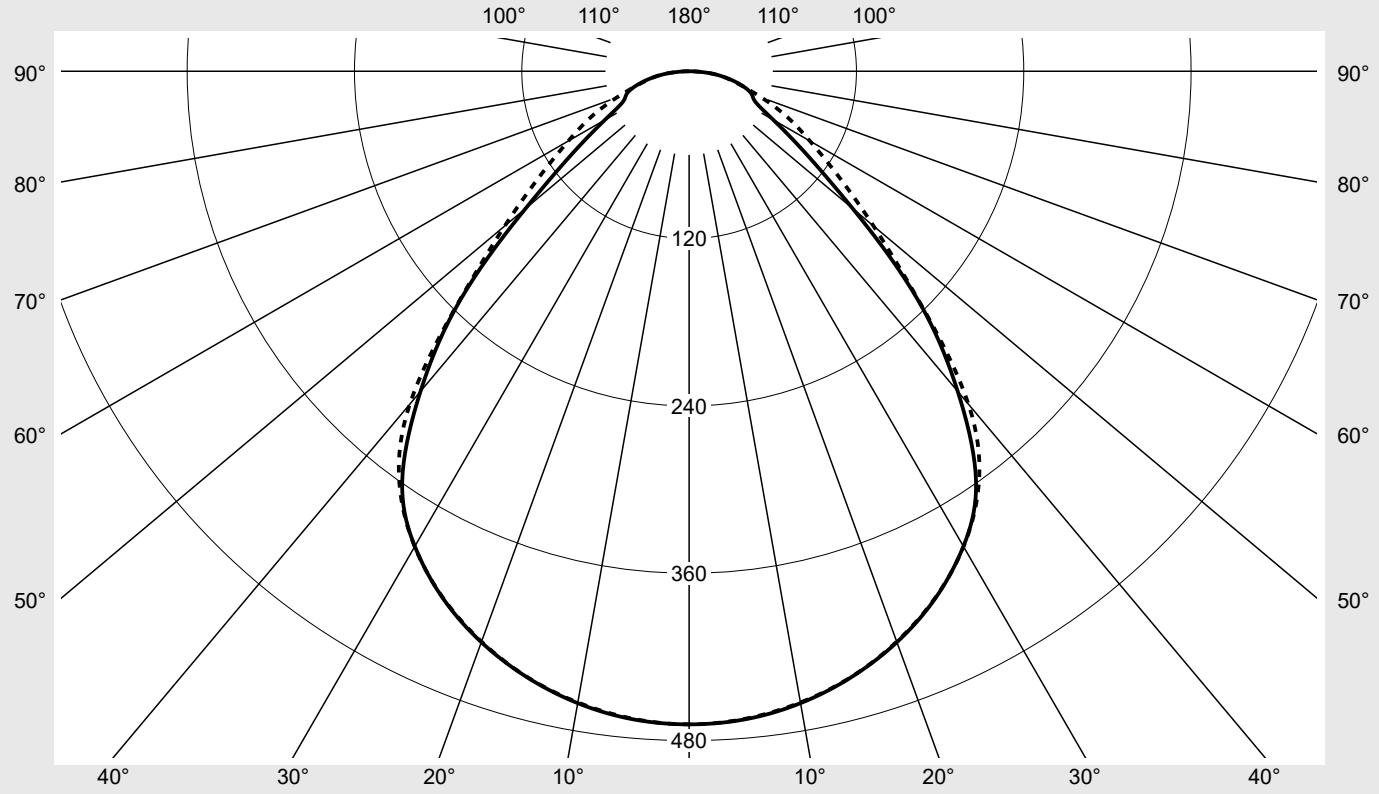
Luminous intensity in cd/klm

C180-0 C270-90

Imax: 468 cd/klm



Classifications

DIN 5040	A 5 0
CIE	N1=62 N2=87 N3=97 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° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0°	468.4	468.4	468.4	468.4	468.4	468.4	468.4	2.8	2.8
5°	466.5	466.3	466.1	466.0	466.0	466.0	466.1	22.3	25.1
10°	460.2	460.0	459.9	459.8	459.7	459.7	459.7	43.8	68.8
15°	449.8	449.8	449.7	449.6	449.6	449.6	449.6	63.8	132.6
20°	435.7	435.8	435.9	435.9	435.7	435.5	435.3	81.7	214.3
25°	417.4	417.4	417.4	417.4	417.3	417.2	417.1	96.7	311.0
30°	393.4	393.3	393.2	393.1	393.3	393.5	393.6	107.8	418.8
35°	358.8	359.3	359.8	360.4	360.9	361.5	362.1	113.3	532.1
40°	299.7	301.2	302.3	304.1	306.3	309.2	311.7	107.4	639.5
45°	232.3	229.8	227.3	224.9	227.7	230.5	233.4	88.7	728.2
50°	153.1	157.3	162.2	165.7	168.7	170.3	172.6	69.1	797.3
55°	101.0	108.0	116.4	121.9	126.1	127.4	130.1	53.5	850.8
60°	69.7	77.3	85.0	92.6	95.1	97.5	100.0	42.1	892.9
65°	52.7	59.7	66.8	73.8	75.1	76.4	77.6	34.5	927.4
70°	47.7	51.1	54.5	57.9	57.1	56.3	55.4	28.2	955.6
75°	39.0	40.4	41.7	43.0	41.3	39.7	38.0	21.6	977.2
80°	27.0	27.5	28.1	28.7	28.0	27.3	26.5	15.0	992.1
85°	13.5	13.6	13.7	13.7	13.9	14.1	14.3	7.5	999.7
90°	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.3	1000.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	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	15.7	17.2	16.0	17.5	17.8	16.4	17.9	16.7	18.2	18.5
	3H	16.5	17.9	16.9	18.2	18.6	17.4	18.8	17.8	19.1	19.5
	4H	17.1	18.4	17.5	18.7	19.1	17.8	19.1	18.2	19.5	19.8
	6H	17.6	18.8	18.0	19.2	19.5	18.2	19.4	18.6	19.8	20.2
	8H	17.9	18.9	18.3	19.3	19.7	18.4	19.5	18.9	19.9	20.3
	12H	18.0	19.0	18.4	19.4	19.9	18.6	19.6	19.0	20.0	20.4
4H	2H	16.2	17.5	16.6	17.8	18.2	16.8	18.1	17.2	18.4	18.8
	3H	17.3	18.4	17.8	18.8	19.2	18.0	19.1	18.4	19.5	19.9
	4H	18.0	19.0	18.5	19.4	19.9	18.6	19.6	19.0	20.0	20.4
	6H	18.7	19.6	19.2	20.0	20.4	19.1	20.0	19.6	20.4	20.9
	8H	19.0	19.8	19.5	20.2	20.7	19.4	20.2	19.9	20.6	21.1
	12H	19.2	19.9	19.7	20.4	20.9	19.6	20.3	20.1	20.8	21.2
8H	4H	18.4	19.2	18.9	19.6	20.1	18.9	19.7	19.4	20.1	20.6
	6H	19.2	19.9	19.7	20.3	20.8	19.6	20.2	20.1	20.7	21.2
	8H	19.6	20.2	20.1	20.6	21.2	19.9	20.5	20.4	21.0	21.5
	12H	19.9	20.4	20.4	20.9	21.4	20.2	20.7	20.8	21.2	21.7
12H	4H	18.5	19.1	18.9	19.6	20.1	18.9	19.6	19.4	20.1	20.6
	6H	19.3	19.9	19.8	20.4	20.9	19.7	20.2	20.2	20.7	21.2
	8H	19.8	20.2	20.3	20.7	21.3	20.1	20.5	20.6	21.0	21.6

Luminance table

Max. for $\gamma >= 65°$

Photometric dimensions in mm: L = 552, B = 552

C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
γ	Luminance in cd/m²						
45°	5196.1	5140.9	5085.7	5030.5	5094.0	5157.5	5221.1
50°	3766.6	3870.6	3990.4	4078.6	4151.0	4191.8	4248.3
55°	2785.5	2977.8	3209.0	3362.3	3476.8	3513.4	3588.9
60°	2204.2	2446.1	2687.9	2929.7	3007.8	3085.9	3164.0
65°	1973.0	2236.0	2499.0	2761.9	2809.9	2857.9	2905.8
70°	2203.9	2362.0	2520.1	2678.1	2640.2	2602.2	2564.2
75°	2386.0	2466.2	2546.4	2626.6	2525.5	2424.4	2323.4
80°	2456.8	2508.5	2560.2	2612.0	2547.3	2482.6	2418.0
85°	2457.7	2468.0	2478.5	2488.9	2524.5	2560.2	2595.8

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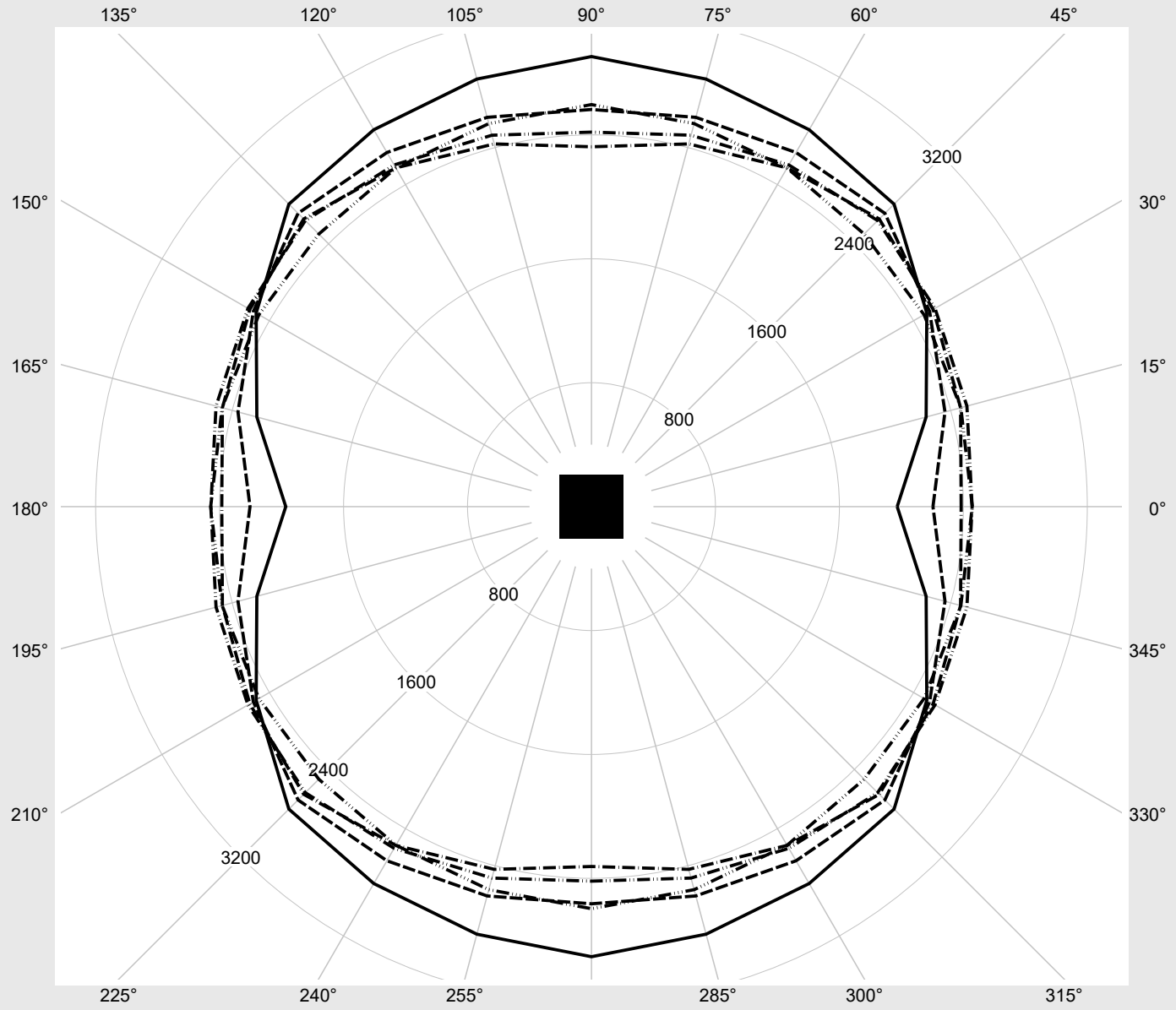
Luminance values in cd/m²

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	4	Luminous flux [lm]	Power consumption [W]
0	OFF	OFF	OFF	OFF	5790	39.0
1	ON	OFF	OFF	OFF	5510	37.0
2	OFF	ON	OFF	OFF	5220	35.0
4	OFF	OFF	ON	OFF	5100	34.1
7	ON	ON	ON	OFF	4820	32.1
8	OFF	OFF	OFF	ON	4530	30.1
10	OFF	ON	OFF	ON	4160	27.6
12	OFF	OFF	ON	ON	3960	26.3
13	ON	OFF	ON	ON	3650	24.1
14	OFF	ON	ON	ON	3350	22.1