Photometric test report

Family
Apollon® 21



Order number: 51MQ12WD2W55
EAN: 4069025336460

LP number
59880_7

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	individual position: DIP-Step=7, colour temperature 6500K
Rated values	at 6500 K Net luminous flux = 4670 lm Power consumption = 32.3 W Luminous efficacy = 144.6 lm/W

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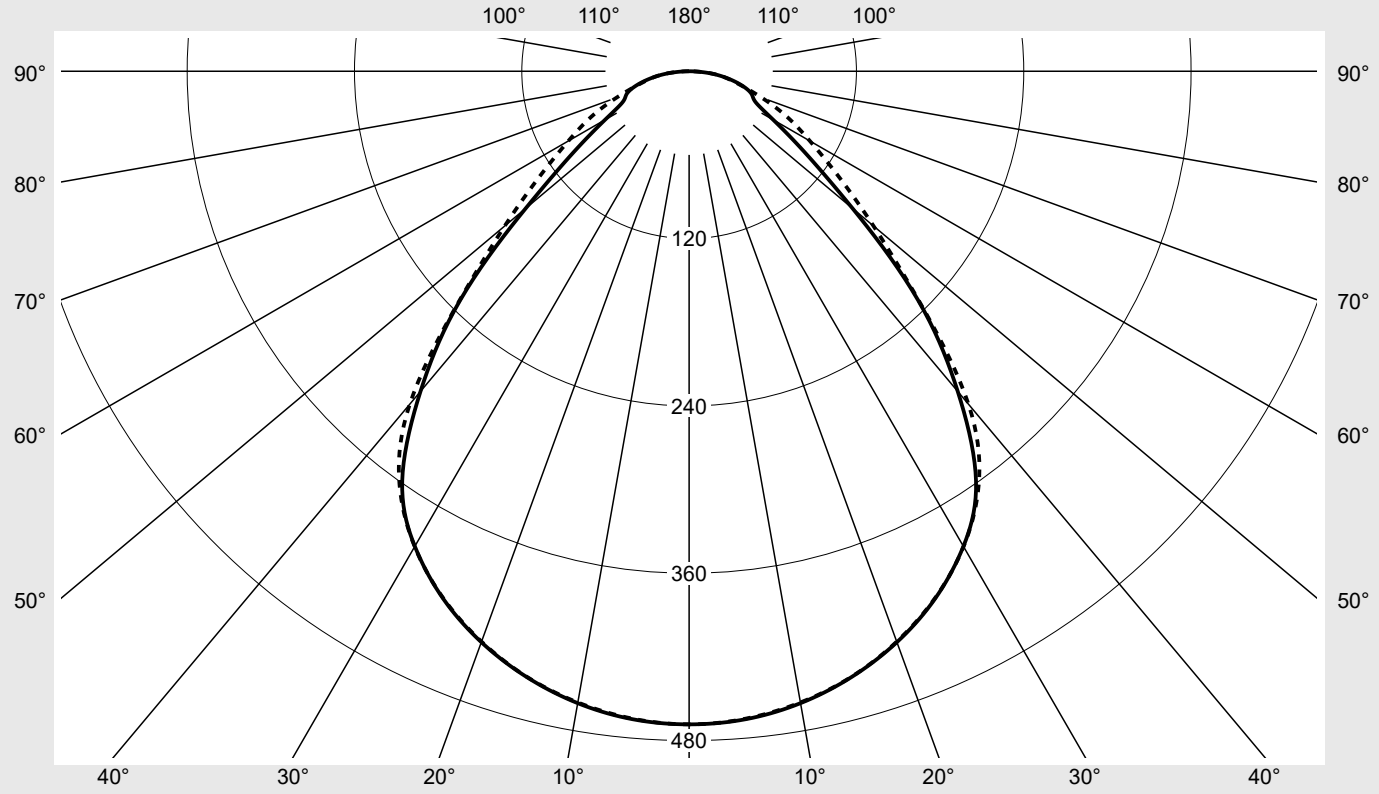
Luminous intensity in cd/klm C180-0 C270-90 **Imax: 468 cd/klm**



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	15.5	17.1	15.9	17.4	17.7	16.3	17.8	16.6	18.1	18.4
	3H	16.4	17.8	16.8	18.1	18.5	17.3	18.7	17.7	19.0	19.3
	4H	17.0	18.3	17.4	18.6	19.0	17.7	19.0	18.1	19.3	19.7
	6H	17.5	18.7	17.9	19.0	19.4	18.1	19.3	18.5	19.7	20.0
	8H	17.7	18.8	18.2	19.2	19.6	18.3	19.4	18.7	19.8	20.2
	12H	17.9	18.9	18.3	19.3	19.7	18.5	19.5	18.9	19.9	20.3
4H	2H	16.1	17.4	16.5	17.7	18.1	16.7	18.0	17.1	18.3	18.7
	3H	17.2	18.3	17.6	18.7	19.1	17.9	19.0	18.3	19.4	19.8
	4H	17.9	18.9	18.4	19.3	19.7	18.5	19.5	18.9	19.9	20.3
	6H	18.6	19.4	19.0	19.9	20.3	19.0	19.9	19.5	20.3	20.8
	8H	18.9	19.6	19.3	20.1	20.6	19.3	20.1	19.8	20.5	21.0
	12H	19.1	19.8	19.6	20.3	20.7	19.5	20.2	20.0	20.6	21.1
8H	4H	18.3	19.1	18.8	19.5	20.0	18.8	19.5	19.2	20.0	20.5
	6H	19.1	19.8	19.6	20.2	20.7	19.5	20.1	20.0	20.6	21.1
	8H	19.5	20.1	20.0	20.5	21.1	19.8	20.4	20.3	20.9	21.4
	12H	19.8	20.3	20.3	20.8	21.3	20.1	20.6	20.6	21.1	21.6
12H	4H	18.4	19.0	18.8	19.5	20.0	18.8	19.5	19.3	20.0	20.5
	6H	19.2	19.8	19.7	20.3	20.8	19.6	20.1	20.1	20.6	21.1
	8H	19.6	20.1	20.2	20.6	21.2	20.0	20.4	20.5	20.9	21.5

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°	5034.4	4980.9	4927.4	4873.9	4935.5	4997.0	5058.6
50°	3649.4	3750.1	3866.2	3951.7	4021.8	4061.3	4116.1
55°	2698.8	2885.1	3109.1	3257.7	3368.6	3404.1	3477.2
60°	2135.6	2369.9	2604.2	2838.6	2914.2	2989.9	3065.5
65°	1911.6	2166.4	2421.2	2676.0	2722.5	2768.9	2815.4
70°	2135.3	2288.5	2441.6	2594.8	2558.0	2521.2	2484.4
75°	2311.8	2389.4	2467.1	2544.8	2446.9	2349.0	2251.1
80°	2380.3	2430.4	2480.6	2530.7	2468.0	2405.4	2342.7
85°	2381.2	2391.2	2401.4	2411.4	2445.9	2480.5	2515.0

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

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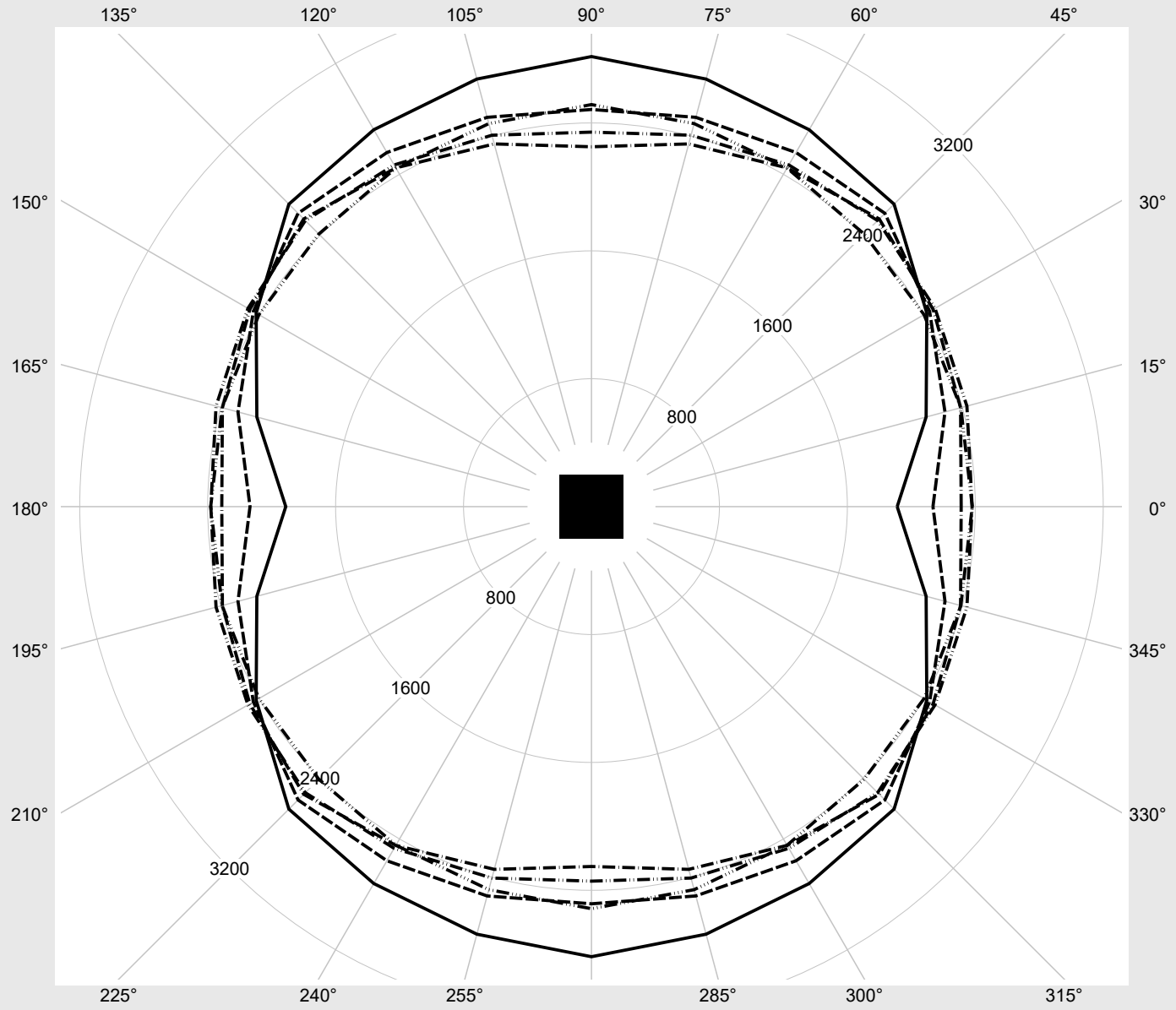

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Multilumen Table

environmental temperature: 25°C

DIP-Step	Switch Setting 1	2	3	4	Luminous flux [lm]	Power consumption [W]
0	OFF	OFF	OFF	OFF	5740	40.1
1	ON	OFF	OFF	OFF	5470	38.1
2	OFF	ON	OFF	OFF	5200	36.1
4	OFF	OFF	ON	OFF	4940	34.3
7	ON	ON	ON	OFF	4670	32.3
8	OFF	OFF	OFF	ON	4390	30.3
10	OFF	ON	OFF	ON	4110	28.3
12	OFF	OFF	ON	ON	3820	26.3
13	ON	OFF	ON	ON	3540	24.3
14	OFF	ON	ON	ON	3250	22.3