Photometric test report

Family
Apollon® 21

Order number: 51MQ12HC2L55
EAN: 4069025336347

LP number
59880_4

serial documentation
30.10.2025

Version	recessed luminaire for lay-in mounting, square M600, wide distribution, UGR≤19 (L65≤3000cd/m²), adjustable color temperature: 3000 K | 4000 K
Lamps	LED 3000 K | CRI ≥ 90
Controlgear	ECG-DALI
Setting	individual position: DIP-Step=7, colour temperature 3000K
Rated values	Net luminous flux = 4600 lm Power consumption = 31.8 W Luminous efficacy = 144.7 lm/W

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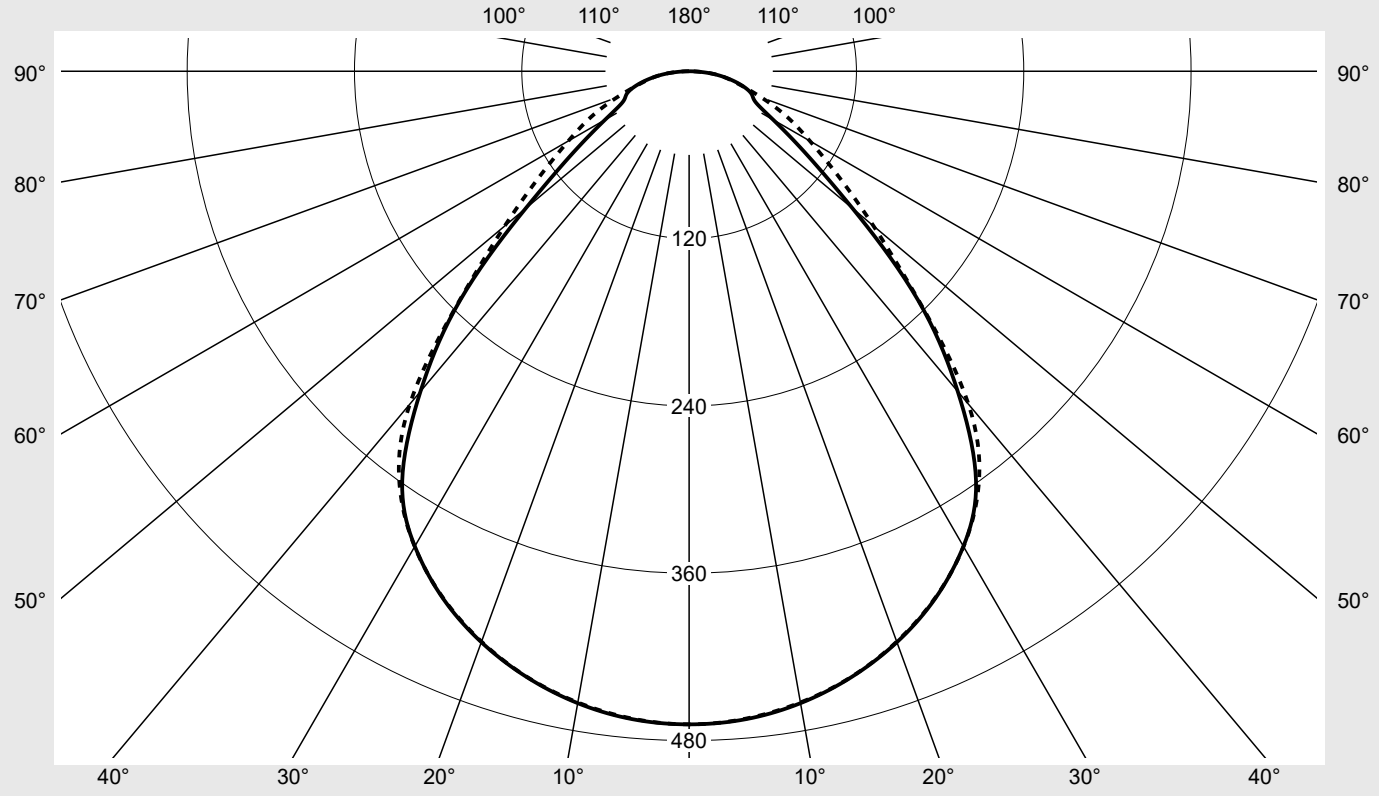
Luminous intensity in cd/klm

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	17.0	15.9	17.4	17.7	16.2	17.8	16.6	18.1	18.4
	3H	16.4	17.7	16.7	18.1	18.4	17.2	18.6	17.6	18.9	19.3
	4H	16.9	18.2	17.3	18.6	18.9	17.6	18.9	18.0	19.3	19.7
	6H	17.4	18.6	17.8	19.0	19.4	18.0	19.2	18.5	19.6	20.0
	8H	17.7	18.8	18.1	19.2	19.6	18.3	19.4	18.7	19.7	20.1
	12H	17.9	18.9	18.3	19.3	19.7	18.4	19.4	18.9	19.8	20.3
4H	2H	16.0	17.3	16.4	17.7	18.0	16.6	17.9	17.0	18.3	18.6
	3H	17.2	18.3	17.6	18.6	19.1	17.9	19.0	18.3	19.3	19.7
	4H	17.9	18.8	18.3	19.3	19.7	18.4	19.4	18.9	19.8	20.3
	6H	18.5	19.4	19.0	19.8	20.3	19.0	19.8	19.4	20.3	20.7
	8H	18.8	19.6	19.3	20.0	20.5	19.2	20.0	19.7	20.4	20.9
	12H	19.1	19.7	19.5	20.2	20.7	19.5	20.1	19.9	20.6	21.1
8H	4H	18.2	19.0	18.7	19.4	19.9	18.7	19.5	19.2	19.9	20.4
	6H	19.1	19.7	19.6	20.2	20.7	19.4	20.1	19.9	20.5	21.0
	8H	19.4	20.0	19.9	20.5	21.0	19.8	20.3	20.3	20.8	21.3
	12H	19.8	20.2	20.3	20.7	21.3	20.1	20.5	20.6	21.0	21.6
12H	4H	18.3	19.0	18.8	19.4	19.9	18.8	19.5	19.3	19.9	20.4
	6H	19.2	19.7	19.7	20.2	20.7	19.5	20.1	20.0	20.6	21.1
	8H	19.6	20.1	20.1	20.6	21.1	19.9	20.4	20.4	20.9	21.4

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°	4958.9	4906.3	4853.6	4800.9	4861.5	4922.1	4982.8
50°	3594.7	3693.9	3808.3	3892.5	3961.5	4000.4	4054.4
55°	2658.4	2841.9	3062.5	3208.9	3318.1	3353.0	3425.1
60°	2103.6	2334.4	2565.2	2796.0	2870.5	2945.0	3019.6
65°	1883.0	2133.9	2384.9	2635.9	2681.7	2727.4	2773.2
70°	2103.3	2254.2	2405.0	2555.9	2519.7	2483.4	2447.1
75°	2277.1	2353.6	2430.2	2506.7	2410.3	2313.8	2217.4
80°	2344.6	2394.0	2443.4	2492.8	2431.0	2369.3	2307.6
85°	2345.5	2355.4	2365.4	2375.3	2409.2	2443.4	2477.3

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

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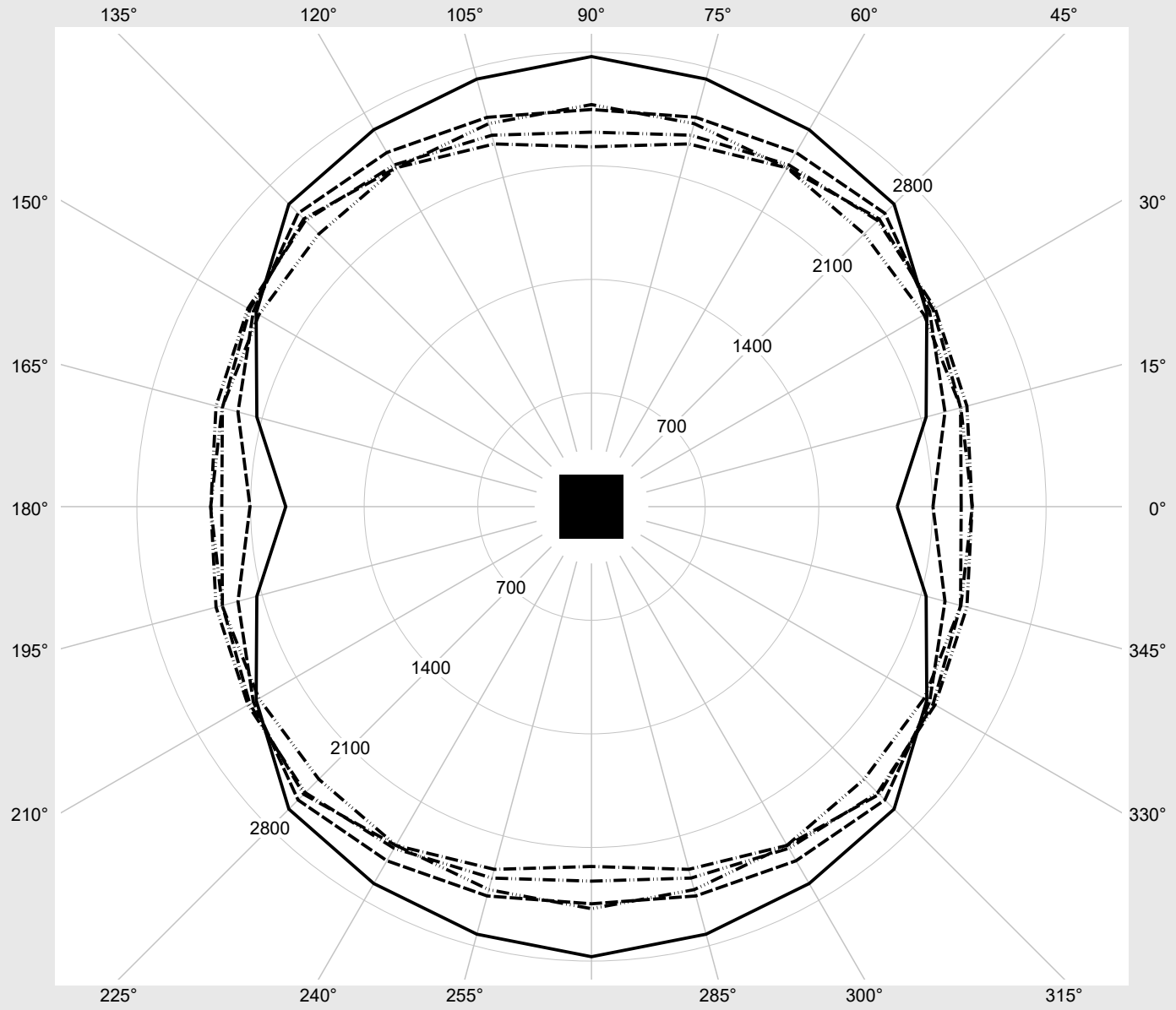

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Multilumen Table

environmental temperature: 25°C

DIP-Step	Switch Setting 1	2	3	4	Luminous flux [lm]	Power consumption [W]
0	OFF	OFF	OFF	OFF	5680	39.8
1	ON	OFF	OFF	OFF	5420	37.8
2	OFF	ON	OFF	OFF	5150	35.8
4	OFF	OFF	ON	OFF	4880	33.8
7	ON	ON	ON	OFF	4600	31.8
8	OFF	OFF	OFF	ON	4320	29.8
10	OFF	ON	OFF	ON	4120	28.3
12	OFF	OFF	ON	ON	3850	26.4
13	ON	OFF	ON	ON	3570	24.4
14	OFF	ON	ON	ON	3280	22.4