Photometric test report

Family
Apollon® 21

Order number: 51MQ12HM2L55
EAN: 4069025336385

LP number
59880_2

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 Multilumen
Setting	individual position: DIP-Step=9, colour temperature 3000K
Rated values	Net luminous flux = 4690 lm Power consumption = 30.6 W Luminous efficacy = 153.3 lm/W

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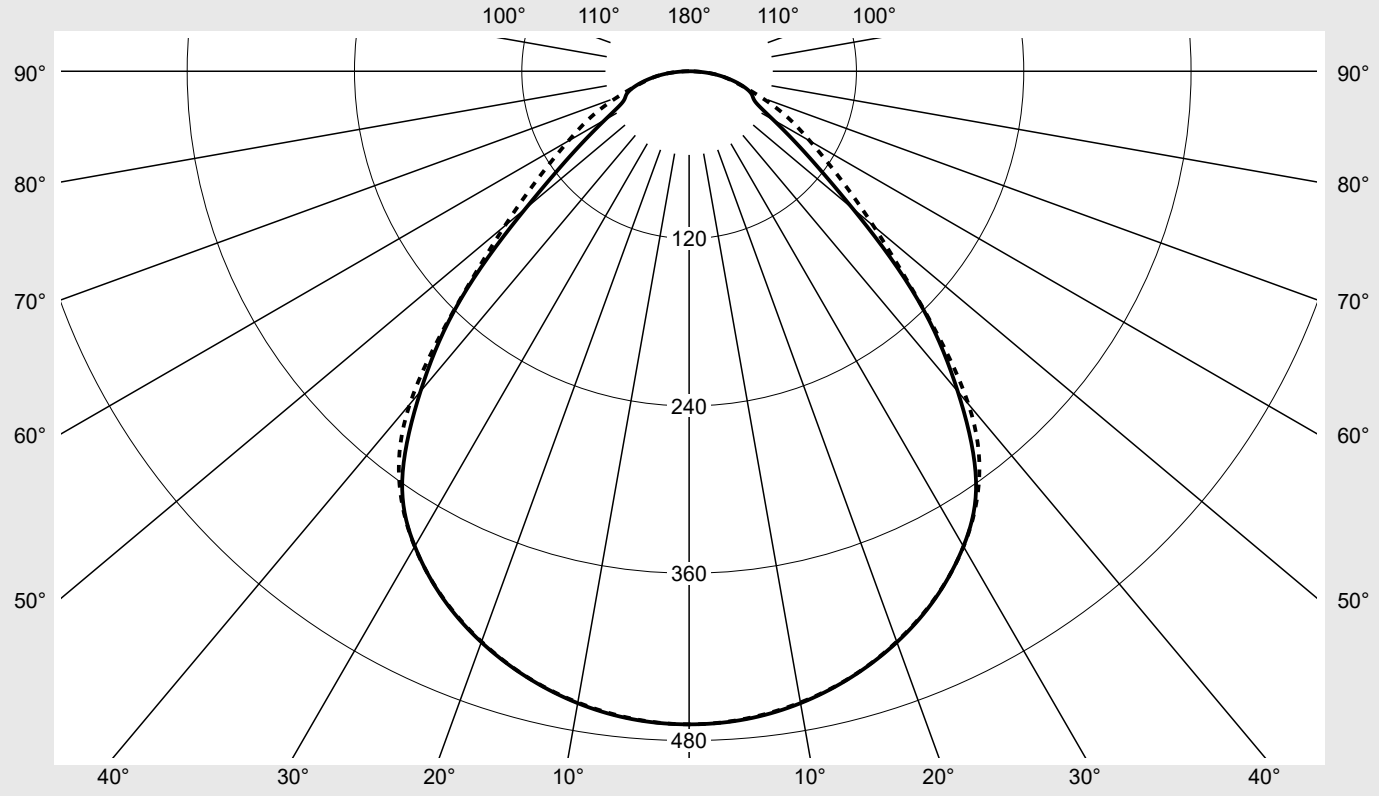
Luminous intensity in cd/klm

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 γ	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
	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	15.6	17.1	15.9	17.4	17.7	16.3	17.8	16.6	18.1	18.5
	3H	16.4	17.8	16.8	18.2	18.5	17.3	18.7	17.7	19.0	19.4
	4H	17.0	18.3	17.4	18.6	19.0	17.7	19.0	18.1	19.4	19.7
	6H	17.5	18.7	17.9	19.1	19.4	18.1	19.3	18.5	19.7	20.1
	8H	17.8	18.9	18.2	19.2	19.6	18.3	19.4	18.8	19.8	20.2
	12H	17.9	19.0	18.3	19.3	19.8	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	17.7	18.7	19.1	17.9	19.0	18.3	19.4	19.8
	4H	17.9	18.9	18.4	19.3	19.8	18.5	19.5	18.9	19.9	20.3
	6H	18.6	19.5	19.1	19.9	20.3	19.0	19.9	19.5	20.3	20.8
	8H	18.9	19.7	19.4	20.1	20.6	19.3	20.1	19.8	20.5	21.0
	12H	19.1	19.8	19.6	20.3	20.8	19.5	20.2	20.0	20.7	21.2
8H	4H	18.3	19.1	18.8	19.5	20.0	18.8	19.6	19.3	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	20.7	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	19.8	20.3	20.8	19.6	20.1	20.1	20.6	21.1
	8H	19.7	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°	5056.0	5002.2	4948.5	4894.8	4956.6	5018.4	5080.3
50°	3665.0	3766.2	3882.8	3968.6	4039.0	4078.7	4133.8
55°	2710.4	2897.5	3122.4	3271.7	3383.0	3418.6	3492.1
60°	2144.8	2380.1	2615.4	2850.7	2926.7	3002.7	3078.6
65°	1919.8	2175.7	2431.6	2687.4	2734.1	2780.8	2827.5
70°	2144.4	2298.3	2452.1	2605.9	2569.0	2532.0	2495.0
75°	2321.7	2399.7	2477.7	2555.7	2457.4	2359.1	2260.8
80°	2390.5	2440.8	2491.2	2541.5	2478.6	2415.7	2352.7
85°	2391.4	2401.5	2411.7	2421.8	2456.4	2491.2	2525.8

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

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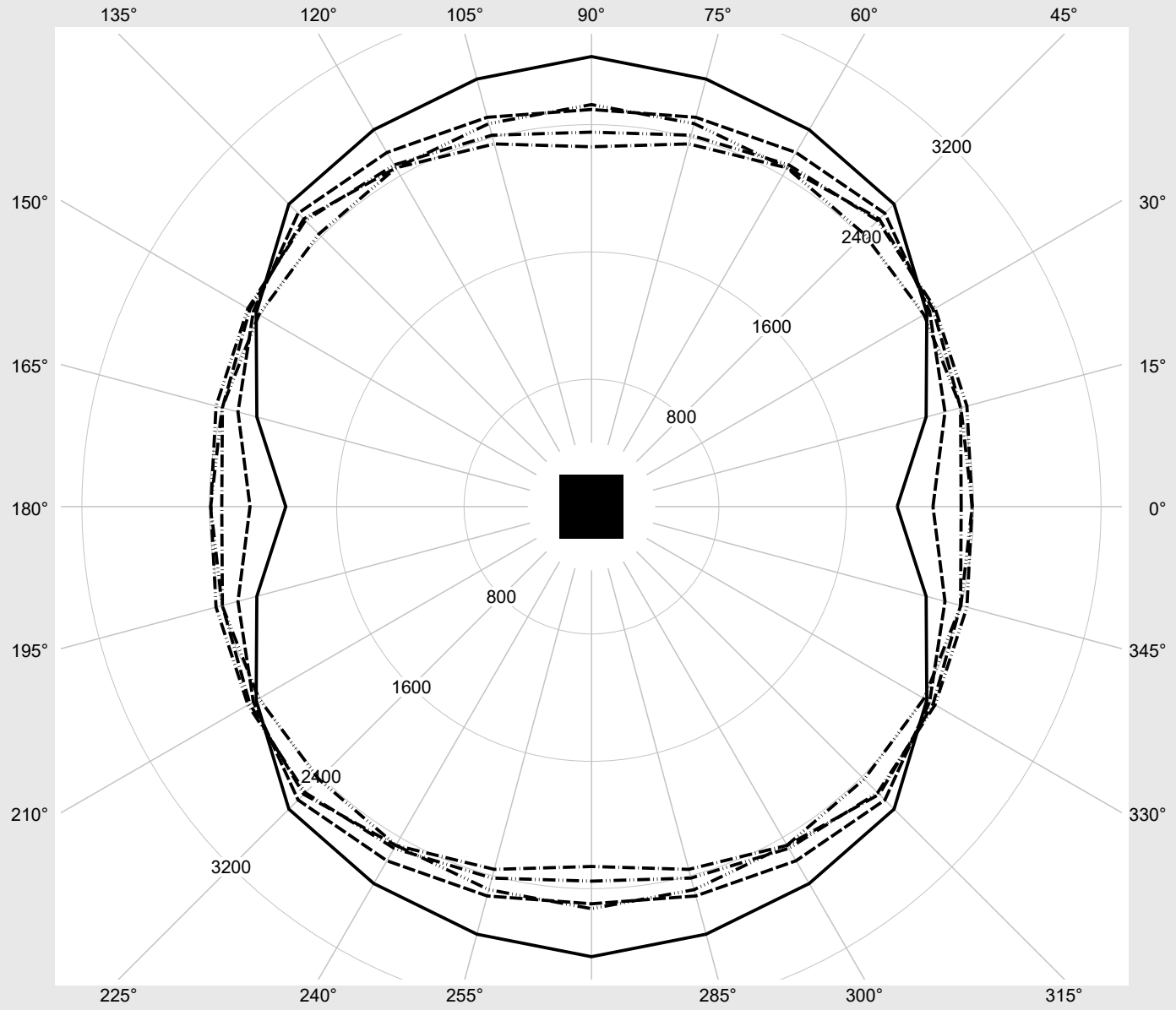

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Multilumen Table

environmental temperature: 25°C

DIP-Step	Switch Setting 1	2	3	4	Luminous flux [lm]	Power consumption [W]
15	ON	ON	ON	ON	5910	39.6
14	OFF	ON	ON	ON	5650	37.6
13	ON	OFF	ON	ON	5370	35.6
12	OFF	OFF	ON	ON	5100	33.6
10	OFF	ON	OFF	ON	4820	31.6
9	ON	OFF	OFF	ON	4690	30.6
8	OFF	OFF	OFF	ON	4410	28.6
6	OFF	ON	ON	OFF	4120	26.6
5	ON	OFF	ON	OFF	3820	24.6
4	OFF	OFF	ON	OFF	3510	22.6
2	OFF	ON	OFF	OFF	3210	20.6
1	ON	OFF	OFF	OFF	2900	18.6
0	OFF	OFF	OFF	OFF	2600	16.6