
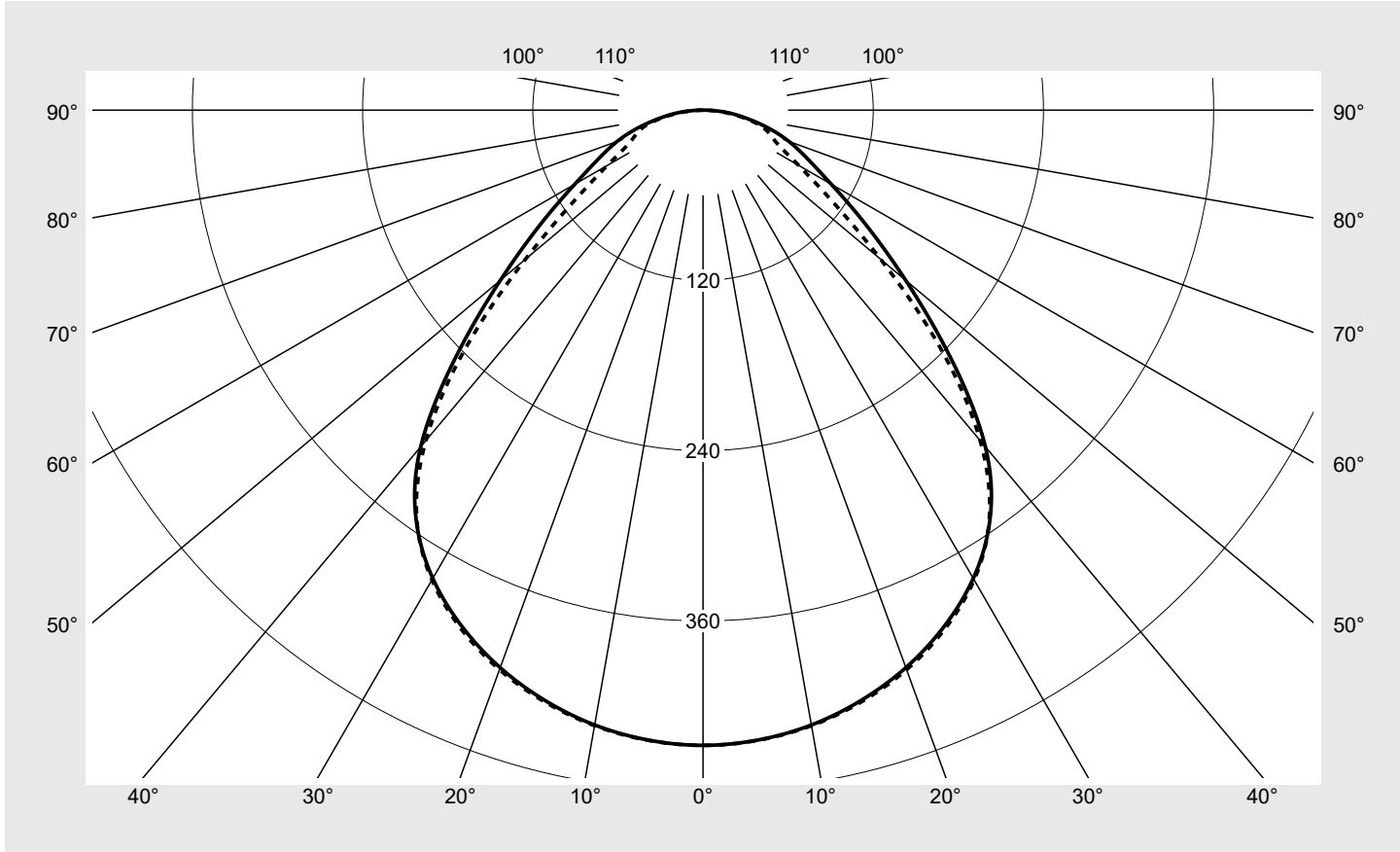


Photometric test report

Family Apollon® 21	Order number: 51MQ12W72M14 EAN: 4058352928219	LP number 59548_21
	Version	recessed luminaire for lay-in mounting, square M600, wide distribution, adjustable color temperature: 3000 K 4000 K, UGR≤19 (L65≤3000cd/m²)
	Lamps	LED 3000 K CRI ≥ 80
	Controlgear	ECG
	Setting	individual position
	Rated values	Net luminous flux = 4200 lm Power consumption = 24.2 W Luminous efficacy = 173.6 lm/W
		serial documentation 29.01.2024
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 448 cd/klm**



Classifications	
DIN 5040	A 5 0
CIE	N1=60 N2=87 N3=97 N4=100 N5=100

Luminaire light output ratios	
η_{LB}	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
		sITeco

C-planes γ	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Luminous intensity in cd/klm							Luminous flux in lm/klm		
0°	447.7	447.7	447.7	447.7	447.7	447.7	447.7	2.7	2.7
5°	445.6	445.7	445.8	445.8	445.8	445.8	445.8	21.3	24.0
10°	440.0	440.1	440.1	440.3	440.4	440.4	440.5	41.9	65.9
15°	430.7	430.8	431.0	431.2	431.3	431.5	431.7	61.2	127.0
20°	418.1	418.2	418.4	418.7	418.9	419.3	419.6	78.5	205.5
25°	401.8	401.9	402.1	402.3	402.5	403.0	403.5	93.2	298.8
30°	381.0	381.1	381.1	381.3	381.4	381.8	382.3	104.5	403.3
35°	352.6	352.4	352.2	351.8	351.4	351.6	351.9	110.7	513.9
40°	309.7	308.8	307.7	306.1	304.4	304.3	304.0	107.9	621.9
45°	246.9	244.2	241.6	240.8	240.1	238.2	236.2	93.4	715.3
50°	186.5	177.8	169.0	175.7	182.4	172.9	163.4	73.7	789.0
55°	139.5	126.8	114.1	127.5	140.9	125.4	110.0	56.8	845.8
60°	104.5	91.4	78.4	93.2	107.9	92.9	77.8	43.9	889.7
65°	81.4	68.9	56.4	69.2	82.0	70.6	59.2	34.6	924.3
70°	64.4	55.9	47.3	54.3	61.2	55.8	50.4	28.5	952.8
75°	46.6	44.8	42.9	42.8	42.8	42.3	41.8	22.9	975.7
80°	29.3	29.6	30.0	29.8	29.7	28.4	27.2	15.8	991.5
85°	15.1	13.9	12.6	14.5	16.3	14.7	13.0	7.8	999.4
90°	1.7	1.5	1.2	1.2	1.1	0.8	0.5	0.6	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	siteco
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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	15.8	17.3	16.1	17.6	18.0	15.8	17.4	16.2	17.7	18.0
	3H	16.8	18.2	17.2	18.6	18.9	16.7	18.1	17.1	18.4	18.8
	4H	17.4	18.7	17.8	19.1	19.4	17.2	18.5	17.6	18.9	19.2
	6H	17.9	19.1	18.3	19.5	19.9	17.7	18.9	18.1	19.2	19.6
	8H	18.2	19.3	18.6	19.6	20.0	17.9	19.0	18.3	19.4	19.8
	12H	18.3	19.4	18.7	19.7	20.2	18.0	19.1	18.4	19.4	19.9
4H	2H	16.2	17.5	16.6	17.8	18.2	16.2	17.5	16.6	17.9	18.3
	3H	17.4	18.5	17.8	18.9	19.3	17.4	18.5	17.8	18.9	19.3
	4H	18.1	19.1	18.6	19.5	20.0	18.1	19.1	18.5	19.5	19.9
	6H	18.8	19.7	19.3	20.1	20.6	18.7	19.5	19.1	20.0	20.4
	8H	19.1	19.9	19.5	20.3	20.8	18.9	19.7	19.4	20.2	20.6
	12H	19.3	20.0	19.8	20.5	21.0	19.1	19.8	19.6	20.3	20.8
8H	4H	18.4	19.2	18.9	19.7	20.1	18.4	19.2	18.8	19.6	20.1
	6H	19.3	19.9	19.8	20.4	20.9	19.2	19.8	19.6	20.3	20.8
	8H	19.6	20.2	20.1	20.7	21.2	19.5	20.1	20.0	20.6	21.1
	12H	19.9	20.4	20.4	20.9	21.5	19.8	20.3	20.3	20.8	21.3
12H	4H	18.5	19.2	19.0	19.6	20.1	18.4	19.1	18.9	19.6	20.1
	6H	19.4	19.9	19.9	20.4	20.9	19.3	19.8	19.8	20.3	20.8
	8H	19.8	20.2	20.3	20.7	21.3	19.7	20.1	20.2	20.6	21.2

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 554 B = 554
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C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		4778.7	4726.4	4675.6	4659.9	4647.5	4610.2	4570.5	
50°		3970.3	3784.5	3598.6	3740.8	3883.0	3680.6	3478.3	
55°		3327.5	3024.3	2721.2	3041.4	3361.5	2992.4	2623.3	
60°		2858.8	2502.9	2147.0	2550.5	2953.9	2542.0	2130.1	
65°		2636.9	2231.8	1826.6	2241.4	2656.2	2286.1	1916.1	
70°		2577.0	2235.6	1894.2	2171.6	2449.0	2233.4	2017.7	
75°		2462.7	2366.8	2265.8	2264.7	2263.3	2235.8	2208.3	
80°		2309.8	2335.5	2361.2	2350.9	2340.7	2237.2	2141.9	
85°		2376.1	2180.7	1985.6	2275.3	2565.0	2303.2	2041.5	

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

