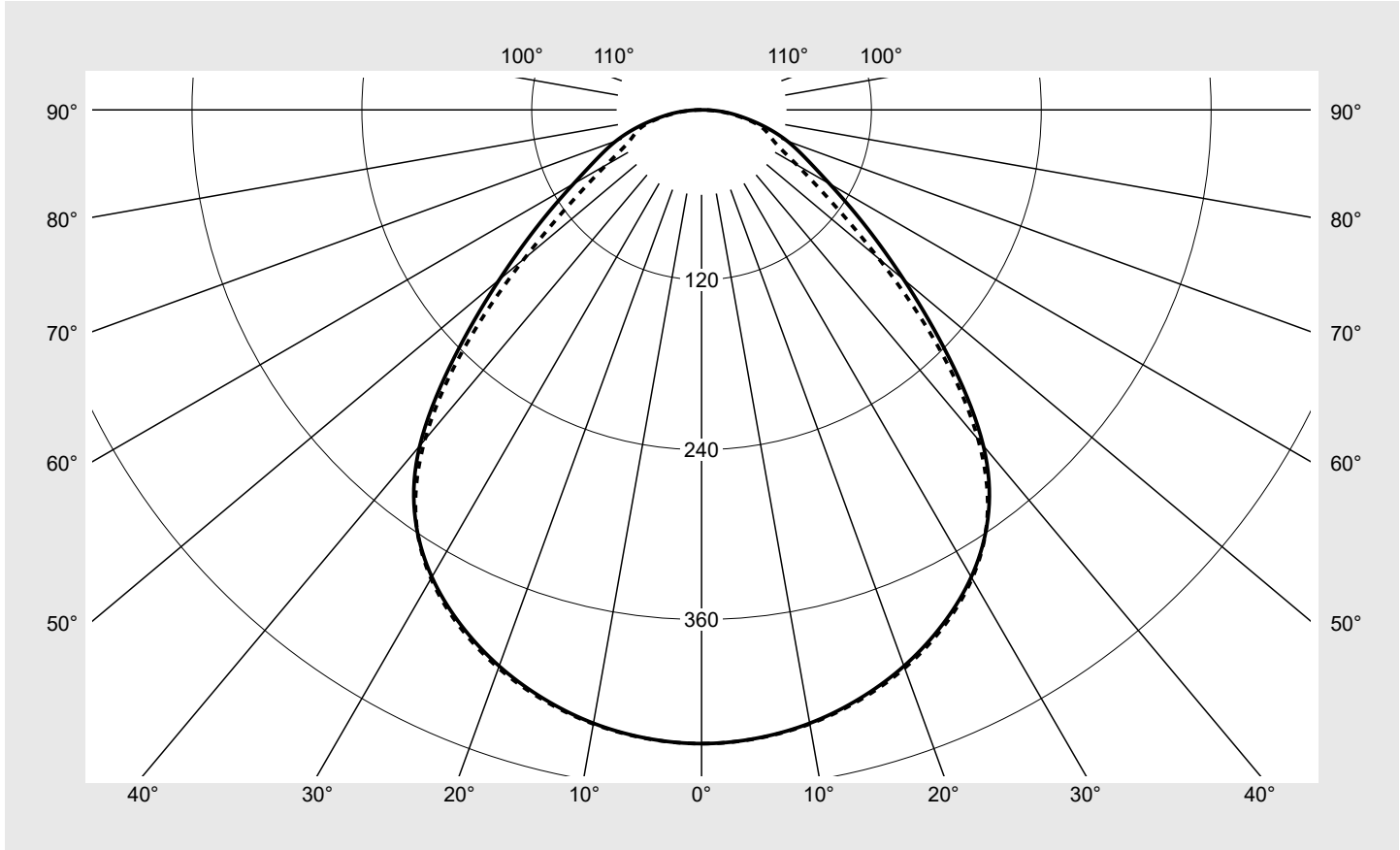


Photometric test report

Family Apollon® 21	Order number: 51MQ12WD2114 EAN: 4058352928233	LP number 59548_24
	Version	recessed luminaire for lay-in mounting, square M600, wide distribution, UGR≤19 (L65≤3000cd/m²)
	Lamps	LED 4000 K CRI ≥ 90
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 4100 lm Power consumption = 24.7 W Luminous efficacy = 166 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

Photometric test report

Family Apollon® 21	Order number: 51MQ12WD2114 EAN: 4058352928233	LP number 59548_24
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

Photometric test report

Family Apollon® 21	Order number: 51MQ12WD2114 EAN: 4058352928233	LP number 59548_24
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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	15.7	17.3	16.0	17.6	17.9	15.7	17.3	16.1	17.6	17.9
	3H	16.7	18.1	17.1	18.5	18.8	16.6	18.0	17.0	18.4	18.7
	4H	17.3	18.6	17.7	19.0	19.4	17.1	18.4	17.5	18.8	19.1
	6H	17.8	19.0	18.2	19.4	19.8	17.6	18.8	18.0	19.2	19.5
	8H	18.1	19.2	18.5	19.6	20.0	17.8	18.9	18.2	19.3	19.7
	12H	18.2	19.3	18.7	19.7	20.1	17.9	19.0	18.4	19.4	19.8
4H	2H	16.1	17.4	16.5	17.7	18.1	16.2	17.5	16.5	17.8	18.2
	3H	17.3	18.4	17.7	18.8	19.2	17.3	18.4	17.8	18.8	19.2
	4H	18.0	19.0	18.5	19.4	19.9	18.0	19.0	18.4	19.4	19.8
	6H	18.7	19.6	19.2	20.0	20.5	18.6	19.5	19.1	19.9	20.3
	8H	19.0	19.8	19.5	20.2	20.7	18.9	19.6	19.3	20.1	20.6
	12H	19.2	19.9	19.7	20.4	20.9	19.1	19.7	19.5	20.2	20.7
8H	4H	18.4	19.1	18.8	19.6	20.1	18.3	19.1	18.8	19.5	20.0
	6H	19.2	19.8	19.7	20.3	20.8	19.1	19.7	19.6	20.2	20.7
	8H	19.5	20.1	20.0	20.6	21.1	19.4	20.0	19.9	20.5	21.0
	12H	19.9	20.3	20.4	20.8	21.4	19.7	20.2	20.2	20.7	21.2
12H	4H	18.4	19.1	18.9	19.6	20.1	18.4	19.0	18.8	19.5	20.0
	6H	19.3	19.9	19.8	20.3	20.9	19.2	19.7	19.7	20.2	20.7
	8H	19.7	20.2	20.2	20.7	21.2	19.6	20.1	20.1	20.6	21.1

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°		4664.9	4613.9	4564.2	4548.9	4536.8	4500.4	4461.7	
50°		3875.8	3694.4	3513.0	3651.7	3790.5	3593.0	3395.5	
55°		3248.3	2952.3	2656.4	2968.9	3281.5	2921.2	2560.9	
60°		2790.7	2443.3	2095.9	2489.7	2883.6	2481.5	2079.4	
65°		2574.1	2178.6	1783.1	2188.0	2592.9	2231.7	1870.5	
70°		2515.6	2182.3	1849.1	2119.9	2390.7	2180.2	1969.7	
75°		2404.1	2310.5	2211.9	2210.7	2209.4	2182.6	2155.7	
80°		2254.8	2279.9	2305.0	2295.0	2285.0	2184.0	2090.9	
85°		2319.5	2128.8	1938.3	2221.1	2503.9	2248.4	1992.9	

Photometric test report

Family Apollon® 21	Order number: 51MQ12WD2114 EAN: 4058352928233	LP number 59548_24
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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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