

Photometric test report

Family
Apollon® 21

Order number: 51MQ11WD3413
EAN: 4058352467183

LP number
59189_6



Version recessed luminaire for lay-in mounting, square M625, wide distribution, UGR≤19 (L65≤3000cd/m²)

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 4200 lm
Power consumption = 33.0 W
Luminous efficacy = 127.3 lm/W

serial
documentation
30.07.2021

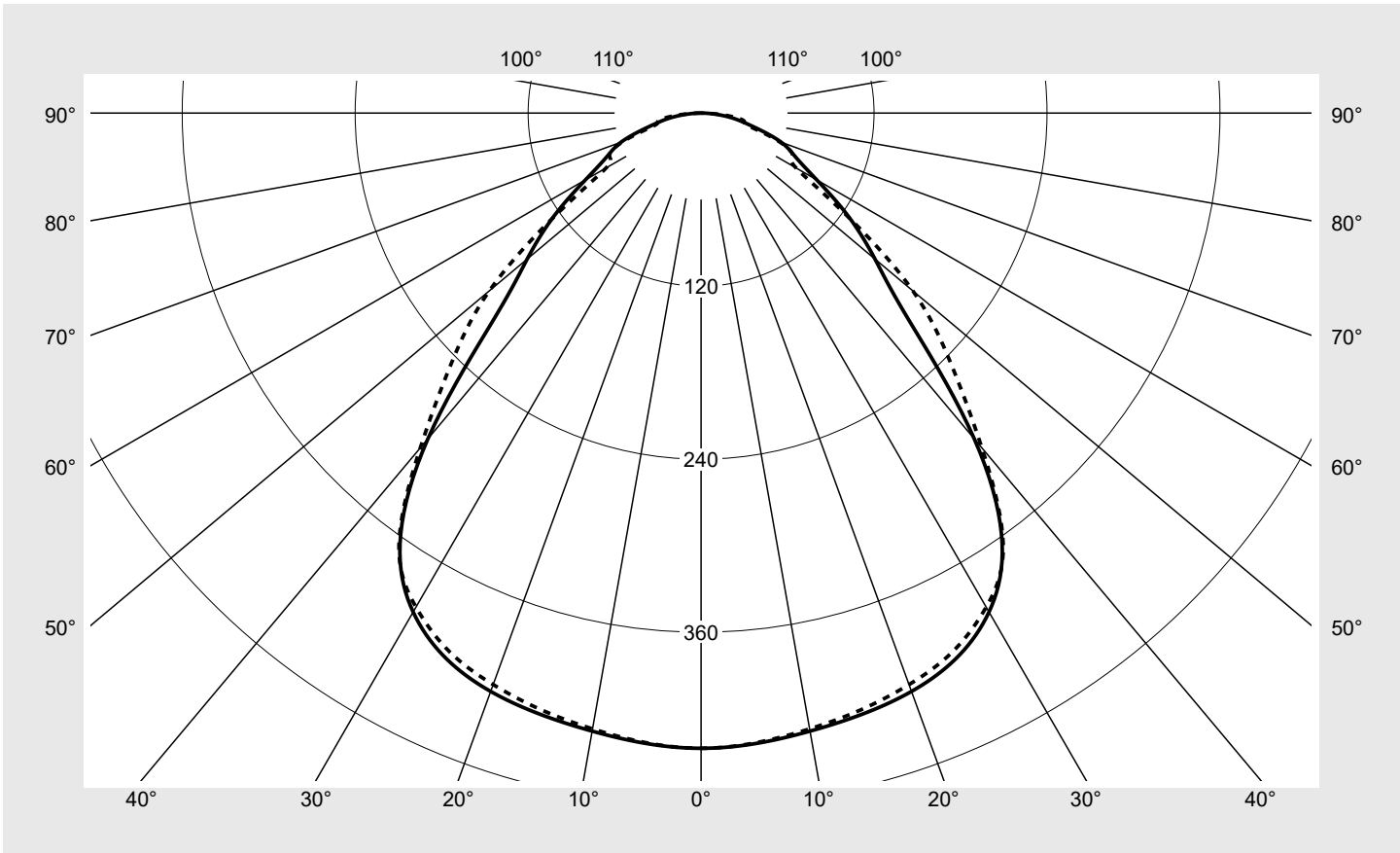
sitEco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 441 cd/klm



Classifications

DIN 5040 A 5 0
CIE N1=61 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°	440.5	440.5	440.5	440.5	440.5	440.5	440.5	2.6	2.6
5°	438.8	438.8	438.6	438.5	438.5	438.3	438.3	21.0	23.6
10°	435.2	435.1	434.7	434.4	434.1	433.8	433.7	41.3	64.9
15°	431.6	431.4	430.4	429.9	429.6	429.0	428.4	61.0	125.9
20°	426.8	426.3	425.0	424.1	423.4	422.6	421.8	79.5	205.5
25°	417.7	417.7	416.7	414.8	413.3	412.5	412.4	96.1	301.6
30°	399.5	400.5	401.0	397.6	394.4	394.6	395.6	109.0	410.6
35°	364.2	367.4	370.3	365.2	360.1	362.1	365.4	114.8	525.4
40°	294.8	297.9	307.7	297.1	292.2	294.7	303.1	105.0	630.4
45°	205.1	222.7	247.3	222.6	200.5	217.8	244.8	86.3	716.7
50°	157.5	177.3	190.7	176.7	153.0	173.1	191.8	73.2	789.8
55°	124.7	136.0	121.5	132.7	125.1	133.7	122.3	57.8	847.6
60°	92.7	98.6	77.8	97.8	93.3	98.2	76.0	43.5	891.2
65°	72.5	74.6	71.4	73.3	71.5	72.7	70.1	36.0	927.2
70°	59.2	55.7	56.1	55.6	60.5	55.5	57.5	29.3	956.5
75°	38.8	40.1	34.7	40.4	39.9	39.1	33.8	20.3	976.8
80°	24.7	28.1	28.6	29.3	23.8	29.2	29.9	15.0	991.8
85°	11.2	14.7	15.9	14.6	10.8	15.0	16.0	7.7	999.5
90°	0.9	1.5	1.3	1.2	0.5	0.6	0.3	0.5	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	15.9	17.4	16.2	17.7	18.1	15.8	17.3	16.1	17.6	17.9
	3H	16.9	18.3	17.3	18.6	19.0	16.8	18.2	17.1	18.5	18.9
	4H	17.3	18.6	17.7	19.0	19.4	17.2	18.5	17.6	18.8	19.2
	6H	17.7	18.9	18.1	19.3	19.7	17.6	18.8	18.1	19.2	19.6
	8H	17.9	19.0	18.3	19.4	19.8	17.9	19.0	18.4	19.4	19.8
	12H	18.0	19.1	18.5	19.4	19.9	18.1	19.2	18.6	19.6	20.0
4H	2H	16.3	17.6	16.7	18.0	18.3	16.2	17.5	16.6	17.9	18.2
	3H	17.5	18.6	17.9	19.0	19.4	17.5	18.6	17.9	19.0	19.4
	4H	18.1	19.1	18.5	19.5	19.9	18.0	19.0	18.5	19.4	19.9
	6H	18.6	19.5	19.1	19.9	20.4	18.6	19.5	19.1	19.9	20.4
	8H	18.9	19.7	19.3	20.1	20.6	19.0	19.8	19.4	20.2	20.7
	12H	19.1	19.7	19.5	20.2	20.7	19.3	19.9	19.7	20.4	20.9
8H	4H	18.3	19.1	18.8	19.6	20.0	18.3	19.1	18.8	19.5	20.0
	6H	19.1	19.7	19.6	20.2	20.7	19.0	19.7	19.5	20.1	20.6
	8H	19.4	20.0	19.9	20.5	21.0	19.4	20.0	19.9	20.5	21.0
	12H	19.7	20.2	20.2	20.7	21.2	19.8	20.3	20.3	20.8	21.3
12H	4H	18.4	19.1	18.9	19.5	20.0	18.4	19.0	18.8	19.5	20.0
	6H	19.2	19.7	19.7	20.2	20.7	19.1	19.7	19.6	20.2	20.7
	8H	19.6	20.1	20.1	20.6	21.1	19.6	20.0	20.1	20.5	21.1

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 548 B = 548
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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°	4057.0	4404.9	4890.7	4402.3	3965.4	4307.0	4841.3		
50°	3427.7	3858.3	4150.2	3844.4	3330.0	3766.6	4173.7		
55°	3039.4	3315.9	2962.0	3236.7	3049.4	3259.0	2982.5		
60°	2591.7	2759.0	2176.8	2735.8	2608.6	2747.0	2126.3		
65°	2398.7	2469.3	2363.9	2426.2	2365.5	2405.9	2321.4		
70°	2419.6	2276.6	2293.4	2274.2	2472.8	2270.4	2352.0		
75°	2096.9	2164.6	1877.1	2181.4	2153.8	2110.5	1826.8		
80°	1986.2	2261.4	2305.7	2363.8	1912.9	2350.1	2410.6		
85°	1800.3	2359.7	2547.8	2340.4	1729.5	2399.8	2571.8		

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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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