

Photometric test report

Family
Apollon® 21

Order number: 51MQ18WM2414
EAN: 4058352959947

LP number
59548_44

serial
documentation
29.01.2024



Version recessed luminaire for lay-in mounting, linear, wide distribution, $UGR \leq 19$ ($L65 \leq 3000 \text{ cd/m}^2$)

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG Multilumen

Setting factory setting: DIP-Step=5

Rated values Net luminous flux = 4190 lm
Power consumption = 25.5 W
Luminous efficacy = 164.3 lm/W

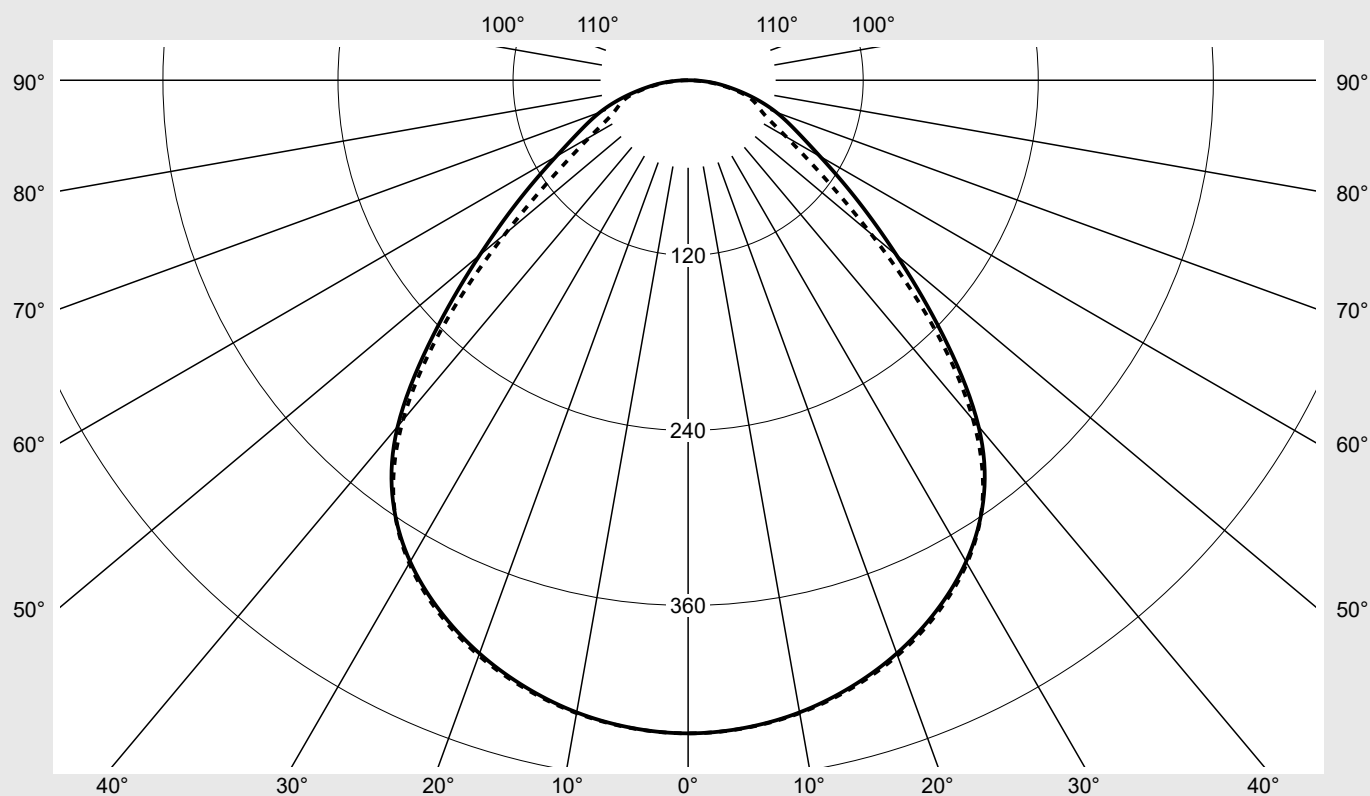
siteco

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
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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°	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	
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	17.5	16.3	17.8	18.1	16.0	17.5	16.3	17.8	18.2
	3H	17.0	18.4	17.4	18.7	19.1	16.9	18.3	17.2	18.6	18.9
	4H	17.6	18.9	18.0	19.2	19.6	17.4	18.7	17.7	19.0	19.4
	6H	18.1	19.3	18.5	19.6	20.0	17.8	19.0	18.2	19.4	19.8
	8H	18.3	19.4	18.7	19.8	20.2	18.0	19.1	18.5	19.5	19.9
	12H	18.5	19.5	18.9	19.9	20.3	18.2	19.2	18.6	19.6	20.0
4H	2H	16.3	17.6	16.7	18.0	18.3	16.4	17.7	16.8	18.0	18.4
	3H	17.5	18.6	17.9	19.0	19.4	17.6	18.7	18.0	19.1	19.5
	4H	18.3	19.3	18.7	19.7	20.1	18.2	19.2	18.7	19.6	20.1
	6H	19.0	19.8	19.4	20.2	20.7	18.8	19.7	19.3	20.1	20.6
	8H	19.2	20.0	19.7	20.5	20.9	19.1	19.9	19.6	20.3	20.8
	12H	19.5	20.2	20.0	20.6	21.1	19.3	20.0	19.8	20.4	20.9
8H	4H	18.6	19.4	19.1	19.8	20.3	18.5	19.3	19.0	19.7	20.2
	6H	19.4	20.1	19.9	20.5	21.0	19.3	20.0	19.8	20.4	20.9
	8H	19.8	20.4	20.3	20.8	21.4	19.7	20.2	20.2	20.7	21.2
	12H	20.1	20.6	20.6	21.1	21.6	20.0	20.4	20.5	20.9	21.5
12H	4H	18.6	19.3	19.1	19.8	20.3	18.6	19.3	19.1	19.7	20.2
	6H	19.5	20.1	20.0	20.6	21.1	19.4	20.0	19.9	20.5	21.0
	8H	19.9	20.4	20.4	20.9	21.4	19.8	20.3	20.3	20.8	21.3

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1154 B = 254	
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°	4991.7	4937.2	4884.0	4867.7	4854.7	4815.7	4774.3
50°	4147.3	3953.2	3759.1	3907.6	4056.1	3844.7	3633.4
55°	3475.9	3159.2	2842.5	3177.0	3511.4	3125.8	2740.3
60°	2986.2	2614.5	2242.7	2664.2	3085.6	2655.4	2225.1
65°	2754.5	2331.3	1908.1	2341.3	2774.6	2388.1	2001.5
70°	2691.9	2335.2	1978.6	2268.4	2558.2	2332.9	2107.7
75°	2572.5	2472.3	2366.8	2365.6	2364.2	2335.5	2306.8
80°	2412.8	2439.6	2466.5	2455.8	2445.1	2337.0	2237.4
85°	2482.0	2278.0	2074.1	2376.7	2679.3	2405.9	2132.5

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Luminance values in cd/m²

γ 65°

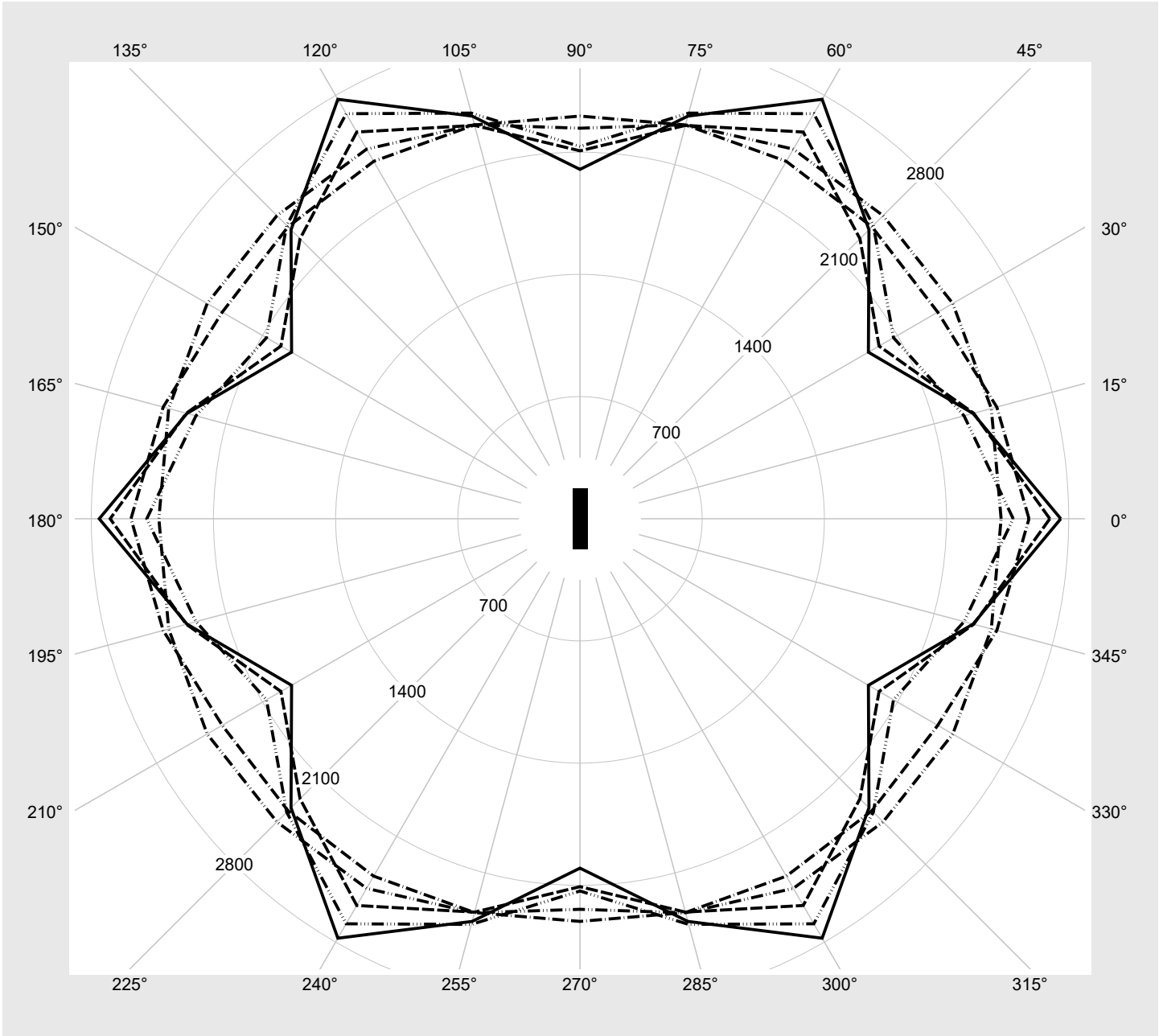
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
7	ON	ON	ON	4840	29.7
6	OFF	ON	ON	4510	27.5
5	ON	OFF	ON	4190	25.5
4	OFF	OFF	ON	3860	23.5
3	ON	ON	OFF	3540	21.5
2	OFF	ON	OFF	3200	19.6
1	ON	OFF	OFF	2850	17.7
0	OFF	OFF	OFF	2510	15.6