

# Photometric test report

**Family**  
**Apollon® 21**

**Order number: 51MQ14WM2414**  
**EAN: 4058352959817**

**LP number**  
**59548\_35**

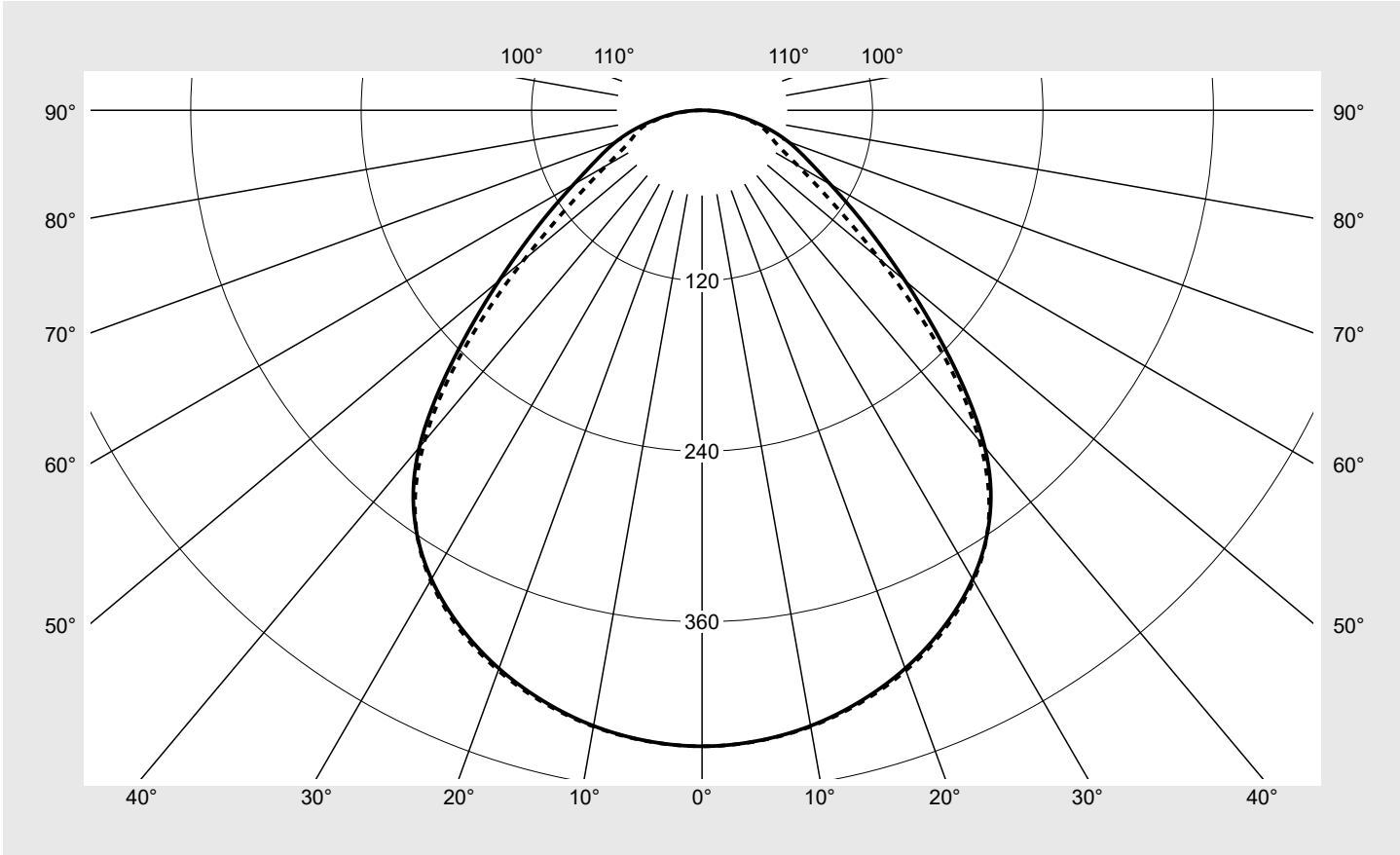


**Version** recessed luminaire for lay-in mounting, linear, wide distribution, UGR≤19 (L65≤3000cd/m²)  
**Lamps** LED 4000 K | CRI ≥ 80  
**Controlgear** ECG Multilumen  
**Setting** factory setting: DIP-Step=5  
**Rated values** Net luminous flux = 4390 lm  
 Power consumption = 25.3 W  
 Luminous efficacy = 173.5 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**

$\eta_{LB}$	100.0%
$\phi_u$	100.0%
$\phi_o$	0.0%

**Measurement conditions**  
DIN EN 13032 and DIN 5032

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

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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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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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	17.4	16.2	17.7	18.0	15.9	17.4	16.2	17.7	18.0
	3H	16.9	18.3	17.2	18.6	19.0	16.7	18.1	17.1	18.5	18.8
	4H	17.5	18.8	17.9	19.1	19.5	17.2	18.5	17.6	18.9	19.3
	6H	18.0	19.2	18.4	19.5	19.9	17.7	18.9	18.1	19.3	19.7
	8H	18.2	19.3	18.6	19.7	20.1	17.9	19.0	18.3	19.4	19.8
	12H	18.4	19.4	18.8	19.8	20.2	18.1	19.1	18.5	19.5	19.9
4H	2H	16.2	17.5	16.6	17.9	18.2	16.3	17.6	16.7	17.9	18.3
	3H	17.4	18.5	17.8	18.9	19.3	17.5	18.6	17.9	19.0	19.4
	4H	18.2	19.2	18.6	19.6	20.0	18.1	19.1	18.6	19.5	19.9
	6H	18.8	19.7	19.3	20.1	20.6	18.7	19.6	19.2	20.0	20.5
	8H	19.1	19.9	19.6	20.3	20.8	19.0	19.8	19.4	20.2	20.7
	12H	19.4	20.0	19.8	20.5	21.0	19.2	19.9	19.7	20.3	20.8
8H	4H	18.5	19.3	18.9	19.7	20.2	18.4	19.2	18.9	19.6	20.1
	6H	19.3	20.0	19.8	20.4	20.9	19.2	19.8	19.7	20.3	20.8
	8H	19.7	20.2	20.2	20.7	21.2	19.5	20.1	20.0	20.6	21.1
	12H	20.0	20.5	20.5	21.0	21.5	19.9	20.3	20.4	20.8	21.4
12H	4H	18.5	19.2	19.0	19.7	20.2	18.5	19.2	19.0	19.6	20.1
	6H	19.4	20.0	19.9	20.5	21.0	19.3	19.9	19.8	20.3	20.9
	8H	19.8	20.3	20.3	20.8	21.3	19.7	20.2	20.2	20.7	21.2

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1201</b> <b>B = 264</b>
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C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		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°	45°	4835.0	4782.1	4730.7	4714.8	4702.3	4664.5	4624.4	
50°	50°	4017.1	3829.1	3641.1	3784.9	3928.7	3724.0	3519.3	
55°	55°	3366.7	3060.0	2753.3	3077.2	3401.1	3027.7	2654.2	
60°	60°	2892.4	2532.4	2172.3	2580.5	2988.7	2572.0	2155.2	
65°	65°	2668.0	2258.0	1848.1	2267.8	2687.5	2313.1	1938.7	
70°	70°	2607.3	2261.9	1916.5	2197.2	2477.8	2259.7	2041.5	
75°	75°	2491.7	2394.7	2292.5	2291.3	2290.0	2262.1	2234.3	
80°	80°	2337.0	2363.0	2389.0	2378.6	2368.3	2263.6	2167.1	
85°	85°	2404.1	2206.4	2009.0	2302.1	2595.2	2330.4	2065.5	

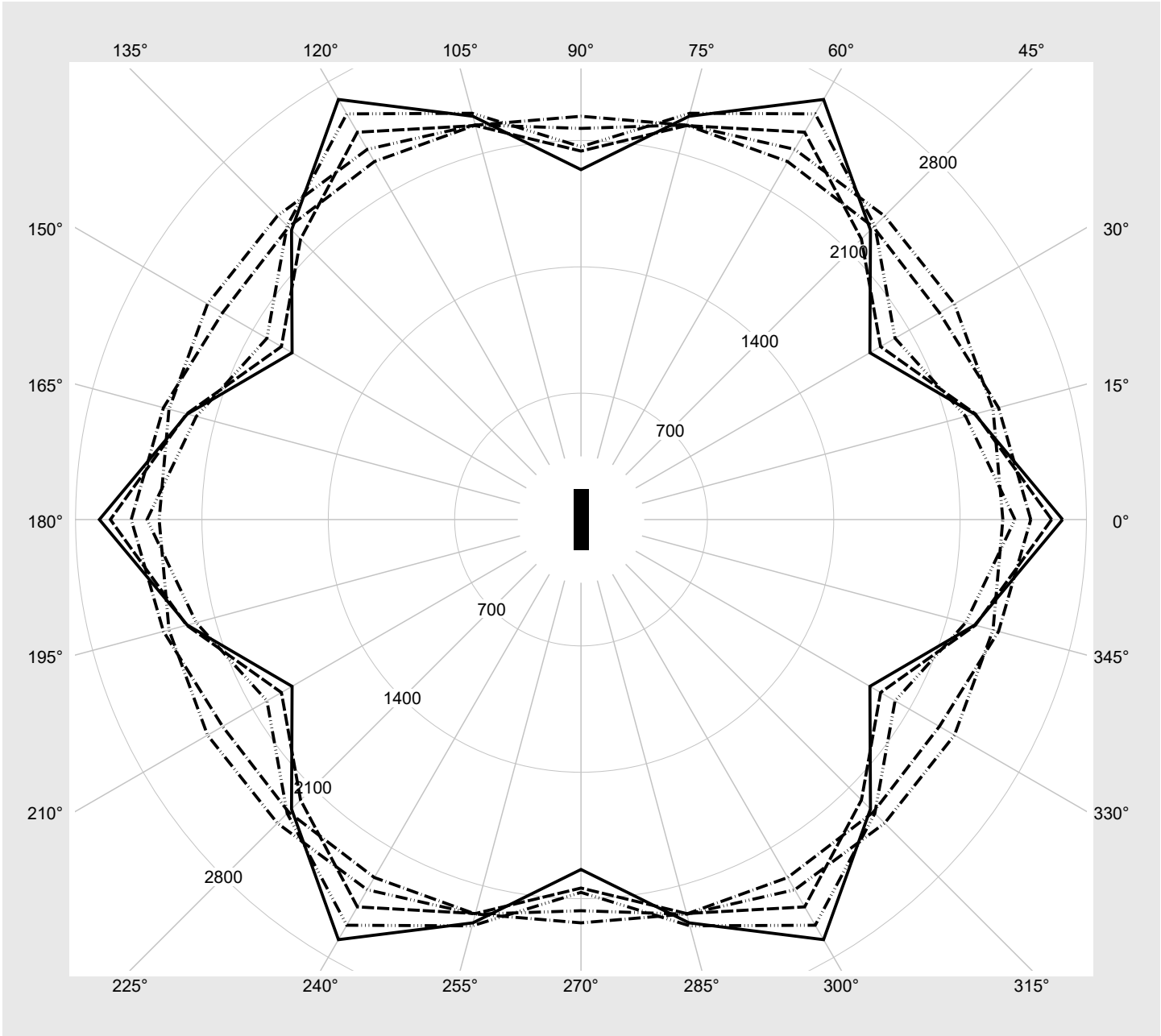
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°  
   $\gamma$  70°  
   $\gamma$  75°  
   $\gamma$  80°  
   $\gamma$  85°



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<b>Multilumen Table</b>	environmental temperature: 25°C	
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
7	ON	ON	ON	5060	29.3
6	OFF	ON	ON	4730	27.3
5	ON	OFF	ON	4390	25.3
4	OFF	OFF	ON	4070	23.3
3	ON	ON	OFF	3710	21.4
2	OFF	ON	OFF	3350	19.5
1	ON	OFF	OFF	2990	17.5
0	OFF	OFF	OFF	2630	15.6