

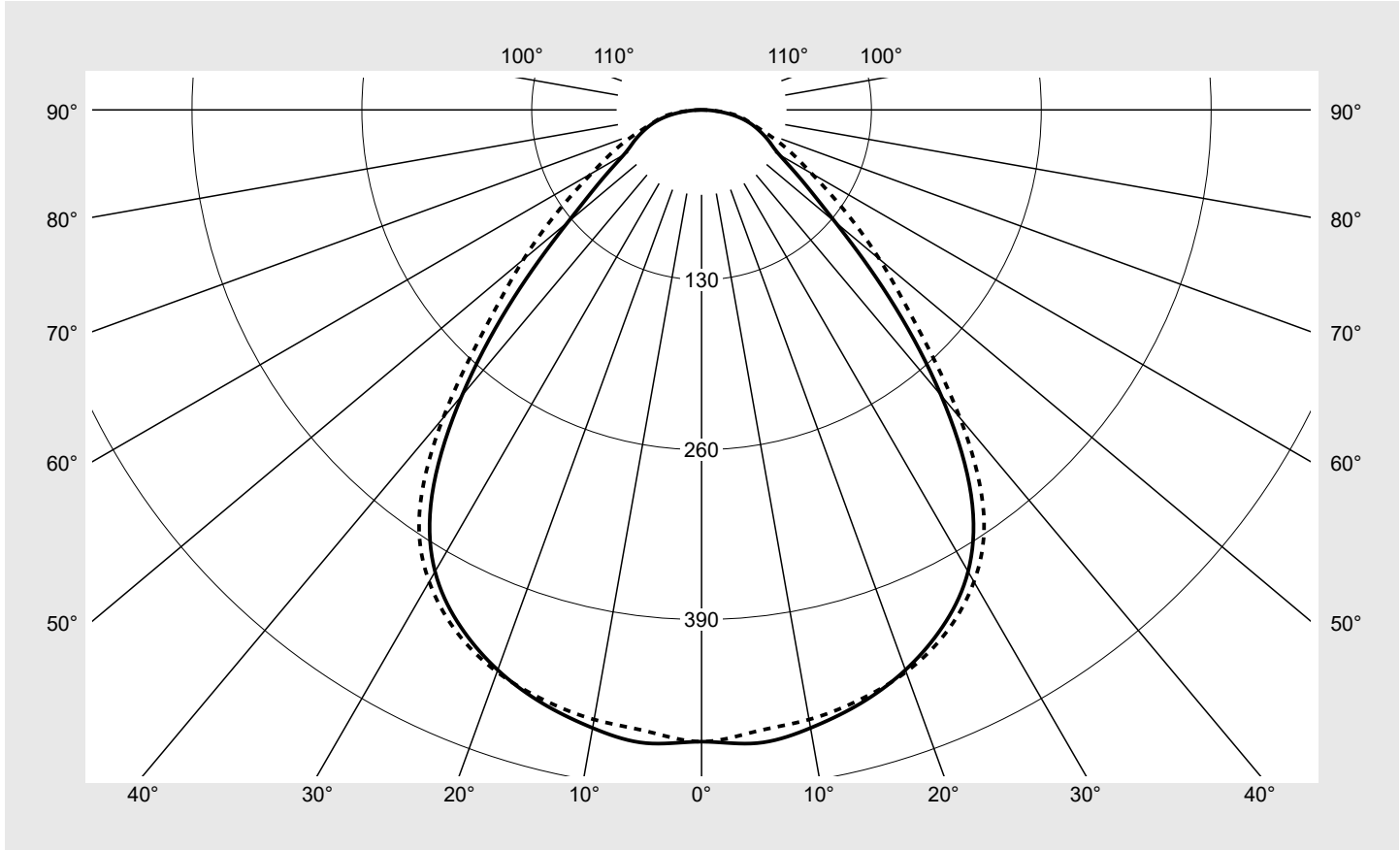


Photometric test report

Family Apollon® 21	Order number: 51MQ16WM2414 EAN: 4058352959886	LP number 59553_2
	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=4
	Rated values	Net luminous flux = 3520 lm Power consumption = 23.4 W Luminous efficacy = 150.4 lm/W
		serial documentation 05.02.2024
		

Luminous intensity in cd/klm
C180-0
C270-90
Imax: 486 cd/klm



Classifications	
DIN 5040	A 5 0
CIE	N1=64 N2=88 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°	483.5	483.5	483.5	483.5	483.5	483.5	483.5	2.9	2.9
5°	486.4	485.4	484.1	481.8	479.4	478.1	477.4	23.0	25.9
10°	480.3	479.5	478.5	476.8	475.1	474.1	473.7	45.4	71.3
15°	470.2	469.9	469.4	468.6	467.9	467.5	467.3	66.5	137.8
20°	456.1	456.1	456.2	456.8	457.5	457.7	457.7	85.7	223.4
25°	436.4	436.9	437.8	439.3	441.0	441.6	441.9	101.8	325.2
30°	408.0	409.4	411.4	413.0	414.7	416.1	417.0	113.1	438.3
35°	359.7	363.7	368.5	369.4	369.8	373.2	376.4	115.9	554.3
40°	285.2	289.3	294.0	297.0	299.9	304.5	307.7	104.6	658.9
45°	203.2	210.6	218.9	217.5	216.1	224.5	232.0	84.3	743.2
50°	133.5	149.8	166.6	154.3	142.1	160.3	177.8	65.0	808.2
55°	93.4	109.3	125.5	111.9	98.4	115.7	132.5	50.4	858.6
60°	68.8	81.0	93.3	82.3	71.3	84.4	97.2	39.2	897.8
65°	57.1	64.0	71.0	64.8	58.6	66.3	73.9	32.3	930.1
70°	47.4	49.6	52.0	51.2	50.3	51.9	53.5	26.2	956.3
75°	37.7	37.9	38.3	39.4	40.4	39.6	38.9	20.6	977.0
80°	26.0	27.3	28.8	28.7	28.4	29.0	29.6	15.3	992.3
85°	12.1	12.4	12.9	13.4	13.9	14.3	14.6	7.3	999.6
90°	0.9	1.0	1.1	0.9	0.7	0.4	0.2	0.4	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	16.3	17.7	18.1	16.1	17.6	16.5	18.0	18.3
	3H	16.8	18.2	17.2	18.5	18.9	17.1	18.5	17.5	18.8	19.2
	4H	17.3	18.6	17.7	18.9	19.3	17.6	18.9	18.0	19.2	19.6
	6H	17.8	19.0	18.2	19.3	19.7	18.1	19.3	18.6	19.7	20.1
	8H	18.0	19.1	18.5	19.5	19.9	18.4	19.5	18.9	19.9	20.3
	12H	18.2	19.2	18.6	19.6	20.0	18.6	19.6	19.0	20.0	20.4
4H	2H	16.3	17.6	16.7	17.9	18.3	16.5	17.8	16.9	18.1	18.5
	3H	17.5	18.5	17.9	18.9	19.3	17.7	18.8	18.1	19.2	19.6
	4H	18.1	19.1	18.6	19.5	19.9	18.4	19.3	18.8	19.7	20.2
	6H	18.8	19.6	19.2	20.1	20.5	19.1	19.9	19.5	20.3	20.8
	8H	19.1	19.8	19.5	20.3	20.7	19.4	20.2	19.9	20.6	21.1
	12H	19.3	19.9	19.8	20.4	20.9	19.7	20.3	20.2	20.8	21.3
8H	4H	18.4	19.2	18.9	19.7	20.1	18.7	19.4	19.1	19.9	20.4
	6H	19.3	19.9	19.8	20.4	20.9	19.6	20.2	20.0	20.6	21.2
	8H	19.7	20.2	20.2	20.7	21.2	20.0	20.5	20.5	21.0	21.5
	12H	20.0	20.4	20.5	20.9	21.5	20.3	20.8	20.8	21.3	21.8
12H	4H	18.5	19.2	19.0	19.6	20.1	18.7	19.4	19.2	19.9	20.4
	6H	19.4	20.0	19.9	20.4	21.0	19.7	20.2	20.2	20.7	21.2
	8H	19.8	20.3	20.4	20.8	21.3	20.1	20.6	20.6	21.1	21.6

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1501
			B = 138

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°		4883.2	5060.8	5260.6	5226.7	5193.5	5396.3	5576.5	
50°		3529.0	3959.3	4405.4	4078.3	3756.8	4238.9	4699.5	
55°		2768.3	3237.6	3717.0	3313.8	2915.9	3429.1	3927.0	
60°		2339.1	2752.7	3171.9	2795.7	2423.5	2868.2	3303.2	
65°		2296.6	2574.6	2856.6	2604.2	2356.4	2667.3	2969.8	
70°		2355.6	2463.7	2582.3	2542.9	2497.8	2580.6	2658.3	
75°		2478.4	2488.8	2512.6	2587.1	2651.7	2602.8	2551.8	
80°		2539.8	2669.6	2818.2	2808.7	2780.8	2837.2	2892.5	
85°		2352.4	2422.8	2519.7	2616.0	2710.0	2790.1	2842.2	

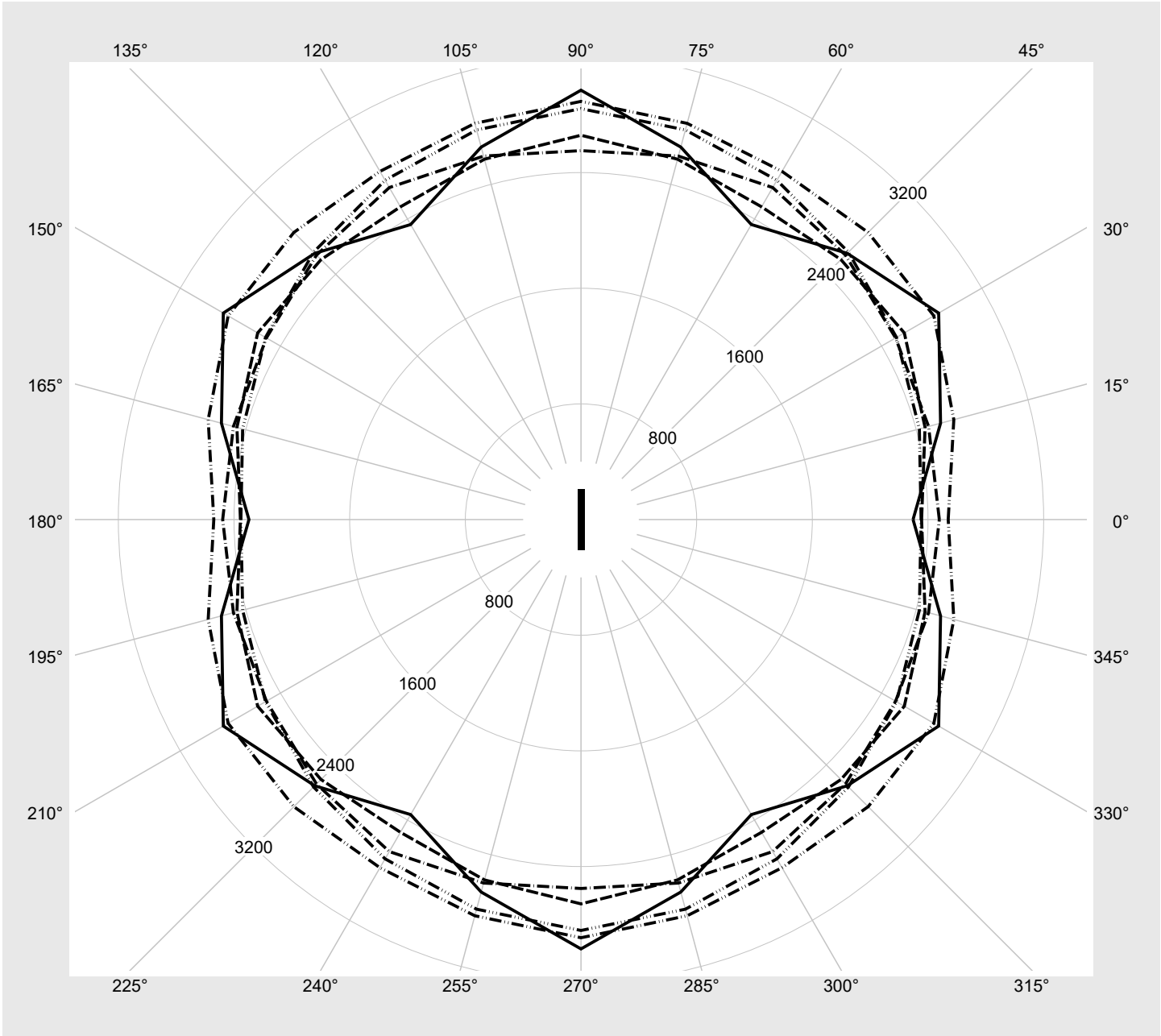
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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Multilumen Table	environmental temperature: 25°C	siteco
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
7	ON	ON	ON	4380	29.4
6	OFF	ON	ON	4100	27.4
5	ON	OFF	ON	3810	25.3
4	OFF	OFF	ON	3520	23.4
3	ON	ON	OFF	3220	21.4
2	OFF	ON	OFF	2920	19.5
1	ON	OFF	OFF	2570	17.3
0	OFF	OFF	OFF	2260	15.3