

Photometric test report

Family
Apollon® 21

Order number: 51MQ15WM2414
EAN: 4058352959848

LP number
59549_4



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=1

Rated values Net luminous flux = 2540 lm
Power consumption = 17.3 W
Luminous efficacy = 146.8 lm/W

serial
documentation
29.01.2024

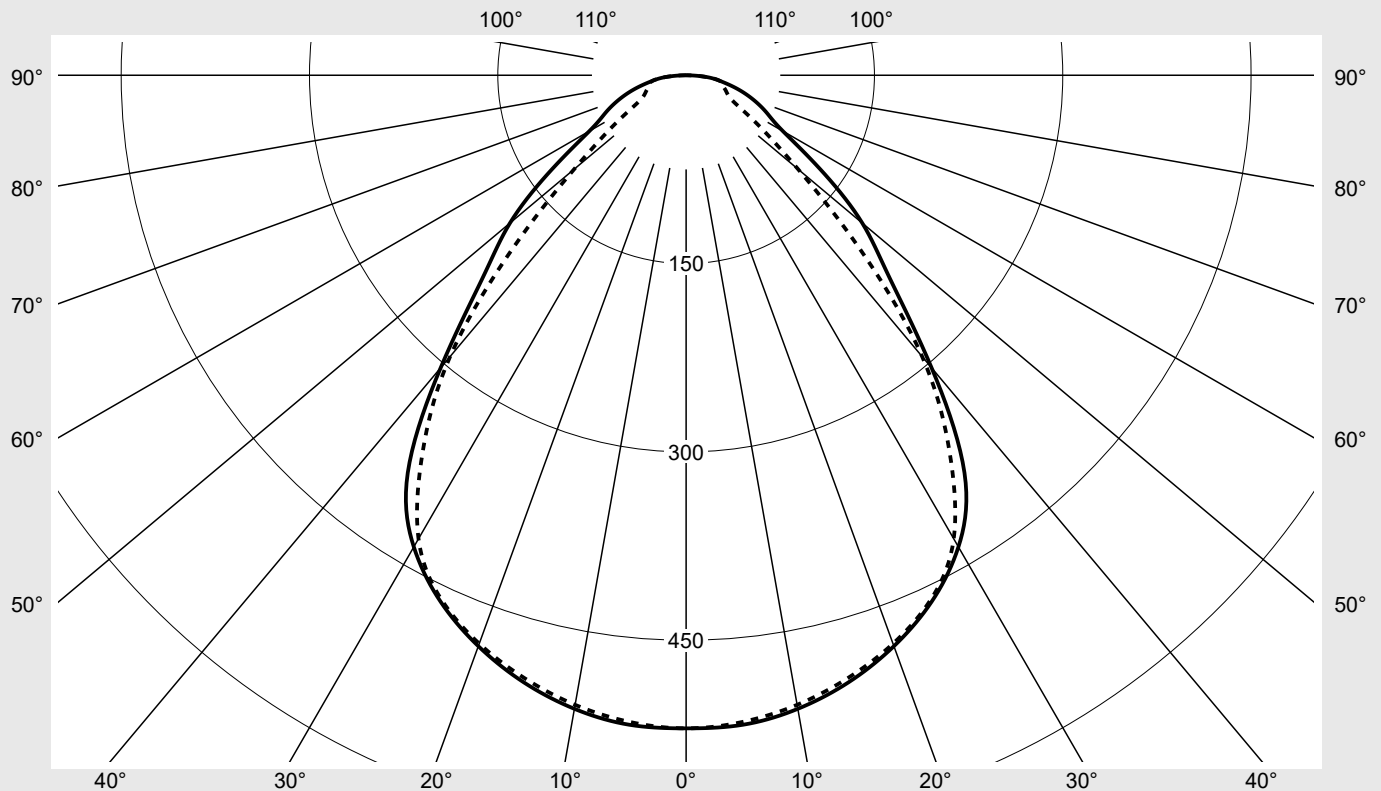
sitEco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 520 cd/klm



Classifications

DIN 5040 A 5 0
CIE N1=66 N2=89 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°	520.2	520.2	520.2	520.2	520.2	520.2	520.2	3.1	3.1
5°	519.3	518.4	517.5	517.4	517.3	517.2	517.0	24.7	27.8
10°	512.4	511.4	510.3	510.1	509.9	509.5	509.2	48.6	76.4
15°	500.5	499.3	498.1	497.9	497.7	497.4	497.2	70.7	147.1
20°	483.9	483.2	482.4	481.8	481.2	481.5	481.8	90.4	237.5
25°	462.7	462.3	461.7	461.0	460.3	460.6	461.0	106.9	344.4
30°	433.8	431.8	429.8	430.4	431.1	428.7	426.3	117.9	462.3
35°	386.6	379.6	372.6	375.6	378.6	372.2	365.7	118.1	580.4
40°	304.2	300.6	297.0	299.6	302.1	297.3	292.5	105.4	685.8
45°	230.1	217.4	204.7	214.2	223.7	209.8	195.9	82.9	768.7
50°	183.2	153.3	123.4	148.7	174.0	145.2	116.4	62.6	831.3
55°	130.3	103.1	75.9	100.1	124.4	98.4	72.5	45.1	876.4
60°	89.0	67.6	46.1	65.3	84.5	65.2	45.9	31.3	907.8
65°	70.9	53.8	36.6	52.7	68.8	52.7	36.7	26.4	934.2
70°	57.0	45.3	33.6	44.7	55.7	44.4	33.1	23.1	957.2
75°	42.6	36.7	30.9	36.4	41.8	35.9	29.9	19.2	976.5
80°	28.6	28.0	27.4	27.4	27.3	27.6	27.9	14.9	991.4
85°	16.5	16.3	16.2	15.4	14.7	15.6	16.5	8.6	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	15.2	16.7	15.6	17.0	17.4	15.2	16.7	15.6	17.0	17.3
	3H	16.2	17.6	16.6	17.9	18.2	15.9	17.2	16.2	17.5	17.9
	4H	16.8	18.1	17.2	18.4	18.8	16.3	17.5	16.7	17.9	18.3
	6H	17.4	18.6	17.8	18.9	19.3	16.9	18.0	17.3	18.4	18.8
	8H	17.7	18.8	18.2	19.2	19.6	17.2	18.3	17.7	18.7	19.1
	12H	18.0	19.0	18.4	19.3	19.8	17.5	18.5	17.9	18.9	19.3
4H	2H	15.5	16.7	15.9	17.1	17.5	15.5	16.7	15.9	17.1	17.5
	3H	16.6	17.6	17.0	18.0	18.4	16.6	17.6	17.0	18.0	18.4
	4H	17.3	18.3	17.8	18.7	19.1	17.2	18.2	17.7	18.6	19.0
	6H	18.1	19.0	18.6	19.4	19.9	18.0	18.8	18.5	19.2	19.7
	8H	18.5	19.3	19.0	19.7	20.2	18.4	19.1	18.9	19.6	20.1
	12H	18.9	19.5	19.4	20.0	20.5	18.8	19.4	19.3	19.9	20.4
8H	4H	17.6	18.4	18.1	18.8	19.3	17.6	18.3	18.0	18.8	19.2
	6H	18.6	19.3	19.1	19.7	20.2	18.5	19.1	19.0	19.6	20.1
	8H	19.1	19.7	19.6	20.2	20.7	19.0	19.6	19.5	20.0	20.6
	12H	19.6	20.1	20.2	20.6	21.1	19.5	20.0	20.0	20.5	21.0
12H	4H	17.7	18.4	18.2	18.8	19.3	17.6	18.3	18.1	18.7	19.2
	6H	18.8	19.3	19.3	19.8	20.3	18.7	19.2	19.2	19.7	20.2
	8H	19.3	19.8	19.8	20.3	20.8	19.2	19.7	19.7	20.2	20.7

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1201
			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°	4987.2	4711.8	4436.4	4642.7	4849.0	4547.1	4245.3	
	50°	4367.1	3654.9	2942.7	3545.0	4147.3	3461.8	2776.4	
	55°	3480.2	2754.4	2028.6	2675.8	3323.1	2629.7	1936.3	
	60°	2727.7	2070.7	1413.6	2001.7	2589.8	1998.4	1407.1	
	65°	2571.6	1949.9	1328.1	1911.1	2494.1	1912.1	1330.1	
	70°	2556.1	2031.3	1506.6	2002.2	2497.8	1990.5	1483.2	
	75°	2520.9	2174.5	1828.1	2152.8	2477.5	2125.4	1773.2	
	80°	2520.7	2471.0	2421.3	2414.5	2407.7	2432.9	2458.3	
	85°	2901.9	2871.3	2840.7	2709.7	2578.7	2740.3	2901.9	

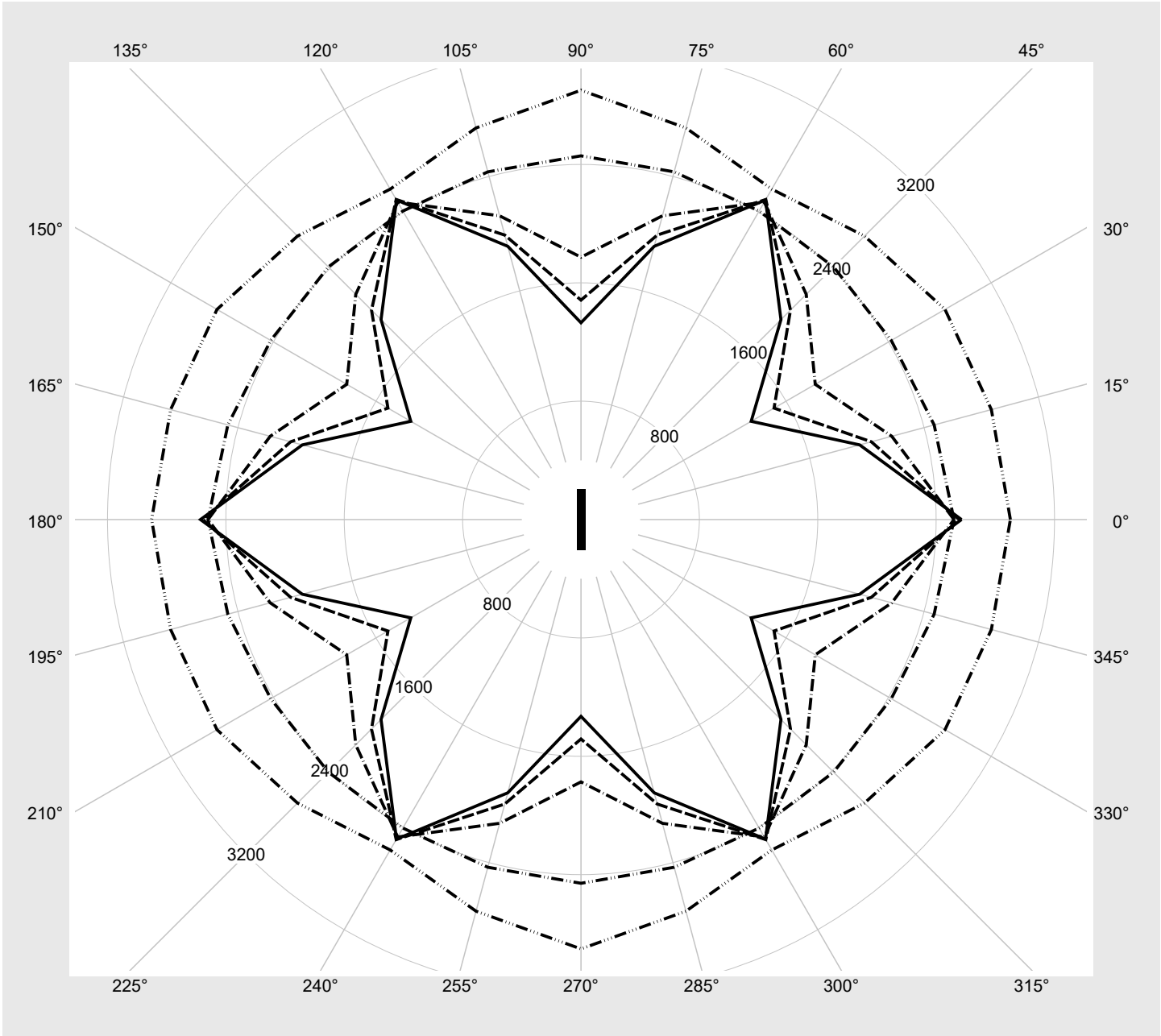
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Luminance values in cd/m²

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	4290	29.7
6	OFF	ON	ON	4020	27.8
5	ON	OFF	ON	3740	25.7
4	OFF	OFF	ON	3450	23.7
3	ON	ON	OFF	3160	21.7
2	OFF	ON	OFF	2870	19.6
1	ON	OFF	OFF	2540	17.3
0	OFF	OFF	OFF	2250	15.3