
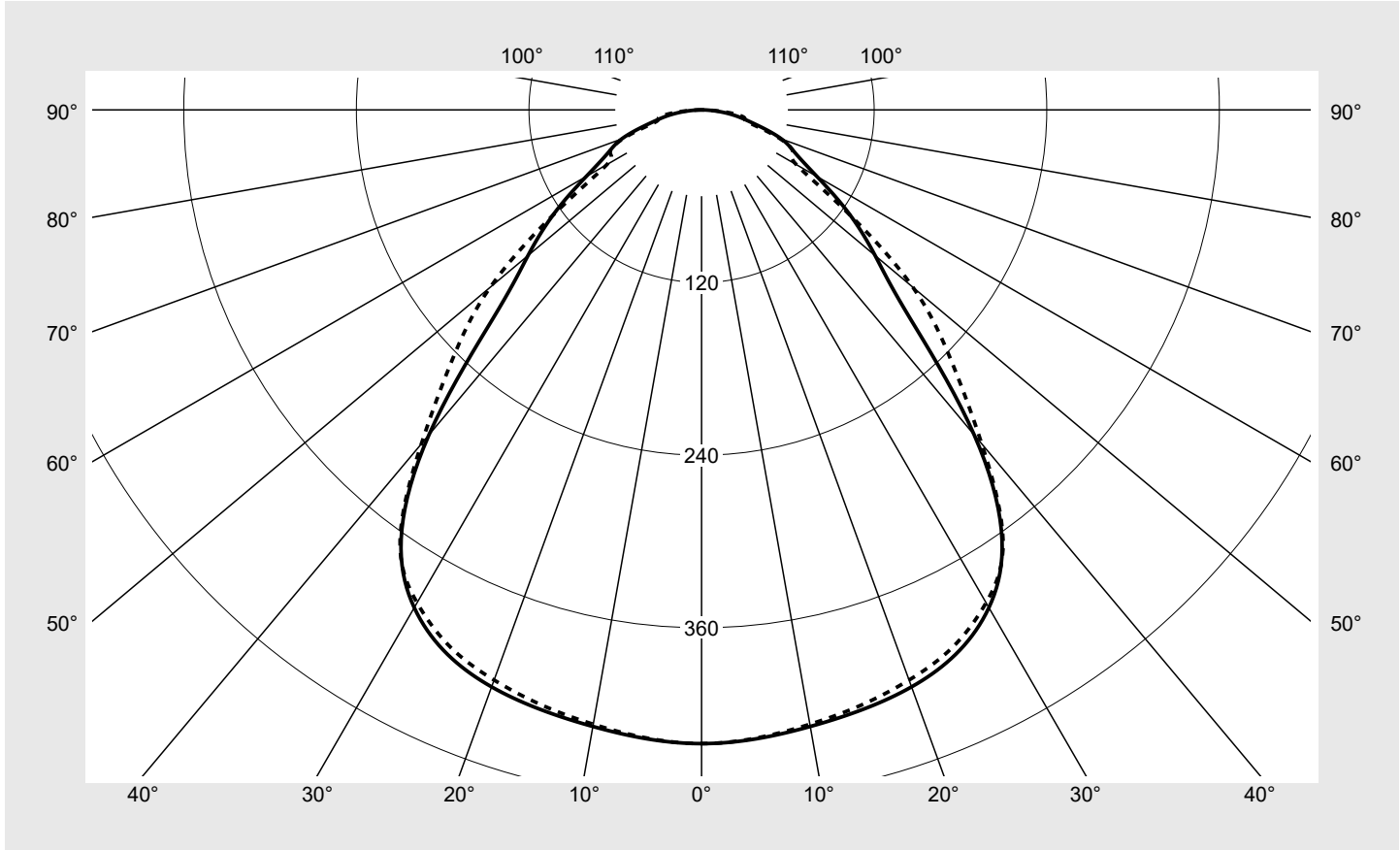


Photometric test report

Family Apollon® 21	Order number: 51MQ11W72313 EAN: 4058352467091	LP number 59189_2
	Version recessed luminaire for lay-in mounting, square M625, wide distribution, UGR≤19 (L65≤3000cd/m²)	serial documentation 30.07.2021
	Lamps LED 3000 K CRI ≥ 80 Controlgear ECG Rated values Net luminous flux = 4000 lm Power consumption = 33.0 W Luminous efficacy = 121.2 lm/W	



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	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°			
γ	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	15.7	17.3	16.1	17.6	17.9	15.6	17.1	15.9	17.5	17.8
	3H	16.7	18.1	17.1	18.4	18.8	16.6	18.0	17.0	18.3	18.7
	4H	17.2	18.5	17.6	18.8	19.2	17.0	18.3	17.4	18.7	19.0
	6H	17.6	18.8	18.0	19.1	19.5	17.5	18.7	17.9	19.0	19.4
	8H	17.8	18.9	18.2	19.2	19.6	17.8	18.9	18.2	19.3	19.7
	12H	17.9	18.9	18.3	19.3	19.7	18.0	19.0	18.4	19.4	19.8
4H	2H	16.1	17.4	16.5	17.8	18.2	16.0	17.3	16.4	17.7	18.1
	3H	17.3	18.4	17.8	18.8	19.2	17.3	18.4	17.7	18.8	19.2
	4H	17.9	18.9	18.4	19.3	19.7	17.9	18.8	18.3	19.3	19.7
	6H	18.5	19.3	18.9	19.8	20.2	18.5	19.3	18.9	19.8	20.2
	8H	18.7	19.5	19.2	19.9	20.4	18.8	19.6	19.3	20.0	20.5
	12H	18.9	19.6	19.4	20.0	20.5	19.1	19.8	19.6	20.2	20.7
8H	4H	18.2	19.0	18.6	19.4	19.9	18.1	18.9	18.6	19.3	19.8
	6H	18.9	19.6	19.4	20.0	20.5	18.9	19.5	19.3	20.0	20.5
	8H	19.3	19.8	19.8	20.3	20.8	19.2	19.8	19.7	20.3	20.8
	12H	19.6	20.0	20.1	20.5	21.1	19.6	20.1	20.1	20.6	21.1
12H	4H	18.2	18.9	18.7	19.4	19.9	18.2	18.9	18.7	19.3	19.8
	6H	19.0	19.6	19.5	20.1	20.6	19.0	19.5	19.5	20.0	20.5
	8H	19.4	19.9	19.9	20.4	20.9	19.4	19.9	19.9	20.4	20.9

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°		3863.8	4195.1	4657.8	4192.6	3776.6	4101.9	4610.8	
50°		3264.4	3674.6	3952.5	3661.3	3171.4	3587.2	3975.0	
55°		2894.7	3158.0	2820.9	3082.6	2904.2	3103.8	2840.5	
60°		2468.3	2627.6	2073.1	2605.5	2484.3	2616.1	2025.1	
65°		2284.4	2351.7	2251.3	2310.6	2252.9	2291.4	2210.9	
70°		2304.4	2168.2	2184.2	2165.9	2355.1	2162.3	2240.0	
75°		1997.1	2061.5	1787.8	2077.5	2051.2	2010.0	1739.8	
80°		1891.6	2153.7	2195.9	2251.2	1821.8	2238.2	2295.8	
85°		1714.6	2247.3	2426.4	2229.0	1647.2	2285.5	2449.4	

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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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