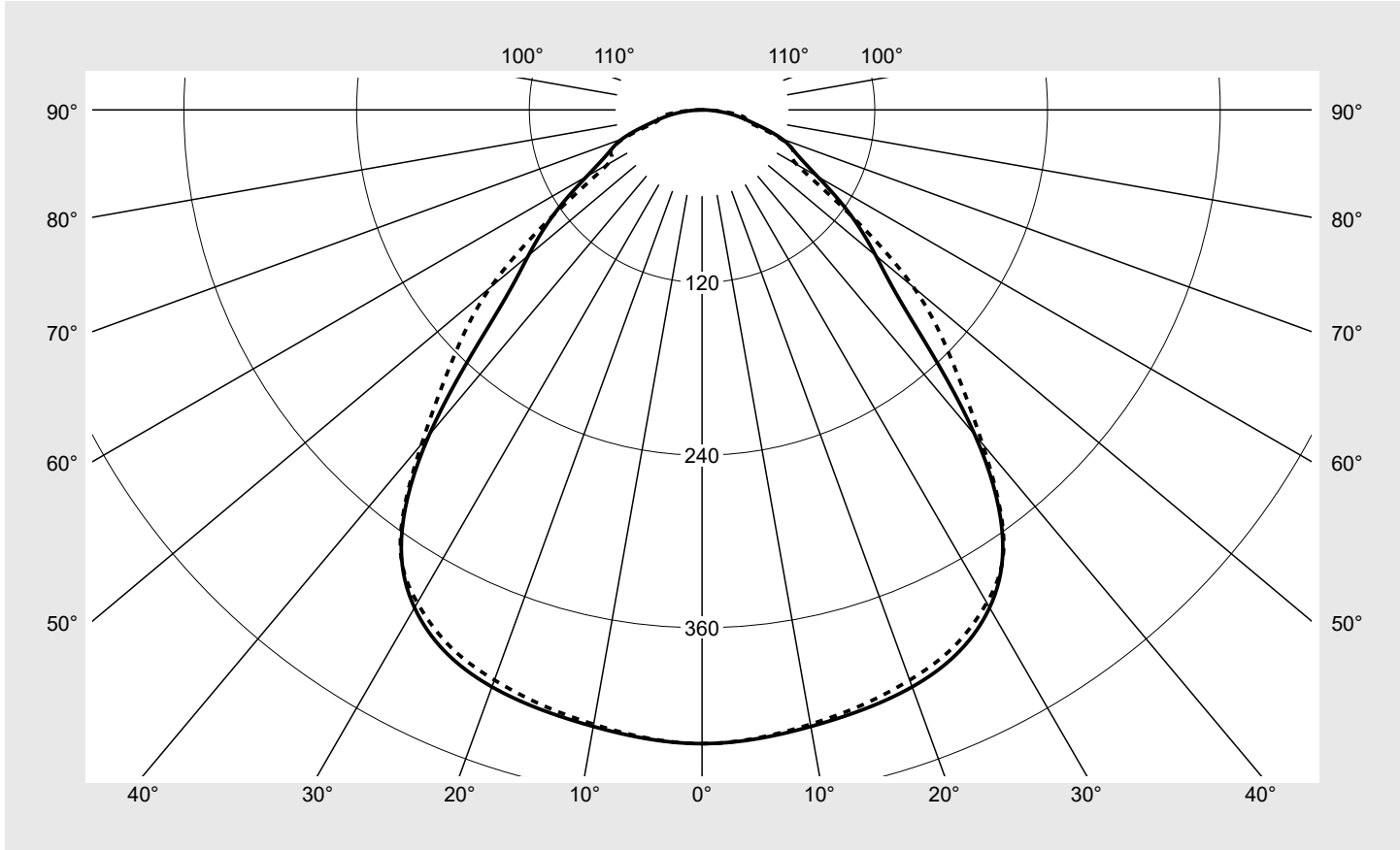


Photometric test report

Family Apollon® 21	Order number: 51MQ12WD2T13 EAN: 4058352467251	LP number 59189_15
	Version recessed luminaire for lay-in mounting, square M600, wide distribution, UGR≤19 (L65≤3000cd/m²)	serial documentation 05.09.2023
	Lamps LED 2700 K ... 6500 K CRI ≥ 80 Controlgear ECG-DALI Setting individual position Rated values at 2700 K Net luminous flux = 4000 lm Power consumption = 40.0 W Luminous efficacy = 100 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

Photometric test report

Family Apollon® 21	Order number: 51MQ12WD2T13 EAN: 4058352467251	LP number 59189_15
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°	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

Photometric test report

Family Apollon® 21	Order number: 51MQ12WD2T13 EAN: 4058352467251	LP number 59189_15
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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	17.2	16.0	17.5	17.9	15.6	17.1	15.9	17.4	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	17.5	18.8	19.2	17.0	18.3	17.4	18.6	19.0
	6H	17.5	18.7	18.0	19.1	19.5	17.5	18.6	17.9	19.0	19.4
	8H	17.7	18.8	18.2	19.2	19.6	17.7	18.8	18.2	19.2	19.6
	12H	17.8	18.9	18.3	19.3	19.7	17.9	19.0	18.4	19.4	19.8
4H	2H	16.1	17.4	16.5	17.8	18.1	16.0	17.3	16.4	17.7	18.0
	3H	17.3	18.4	17.7	18.8	19.2	17.3	18.4	17.7	18.8	19.2
	4H	17.9	18.9	18.3	19.3	19.7	17.8	18.8	18.3	19.2	19.7
	6H	18.5	19.3	18.9	19.7	20.2	18.5	19.3	18.9	19.7	20.2
	8H	18.7	19.5	19.2	19.9	20.4	18.8	19.6	19.2	20.0	20.5
	12H	18.9	19.5	19.4	20.0	20.5	19.1	19.7	19.6	20.2	20.7
8H	4H	18.2	18.9	18.6	19.4	19.9	18.1	18.9	18.6	19.3	19.8
	6H	18.9	19.5	19.4	20.0	20.5	18.8	19.5	19.3	19.9	20.4
	8H	19.2	19.8	19.7	20.3	20.8	19.2	19.8	19.7	20.3	20.8
	12H	19.5	20.0	20.0	20.5	21.0	19.6	20.1	20.1	20.6	21.1
12H	4H	18.2	18.9	18.7	19.3	19.8	18.2	18.8	18.7	19.3	19.8
	6H	19.0	19.5	19.5	20.0	20.5	18.9	19.5	19.5	20.0	20.5
	8H	19.4	19.9	19.9	20.4	20.9	19.4	19.8	19.9	20.3	20.9

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 550 B = 550
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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°		3835.7	4164.7	4624.0	4162.2	3749.2	4072.1	4577.3	
50°		3240.7	3647.9	3923.8	3634.7	3148.4	3561.2	3946.1	
55°		2873.7	3135.1	2800.4	3060.2	2883.1	3081.3	2819.9	
60°		2450.4	2608.6	2058.1	2586.6	2466.3	2597.2	2010.4	
65°		2267.9	2334.6	2234.9	2293.9	2236.5	2274.7	2194.8	
70°		2287.6	2152.5	2168.3	2150.1	2338.0	2146.6	2223.7	
75°		1982.6	2046.5	1774.8	2062.4	2036.3	1995.4	1727.2	
80°		1877.9	2138.0	2180.0	2234.9	1808.5	2222.0	2279.1	
85°		1702.1	2231.0	2408.8	2212.8	1635.2	2269.0	2431.6	

Photometric test report

Family Apollon® 21	Order number: 51MQ12WD2T13 EAN: 4058352467251	LP number 59189_15
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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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