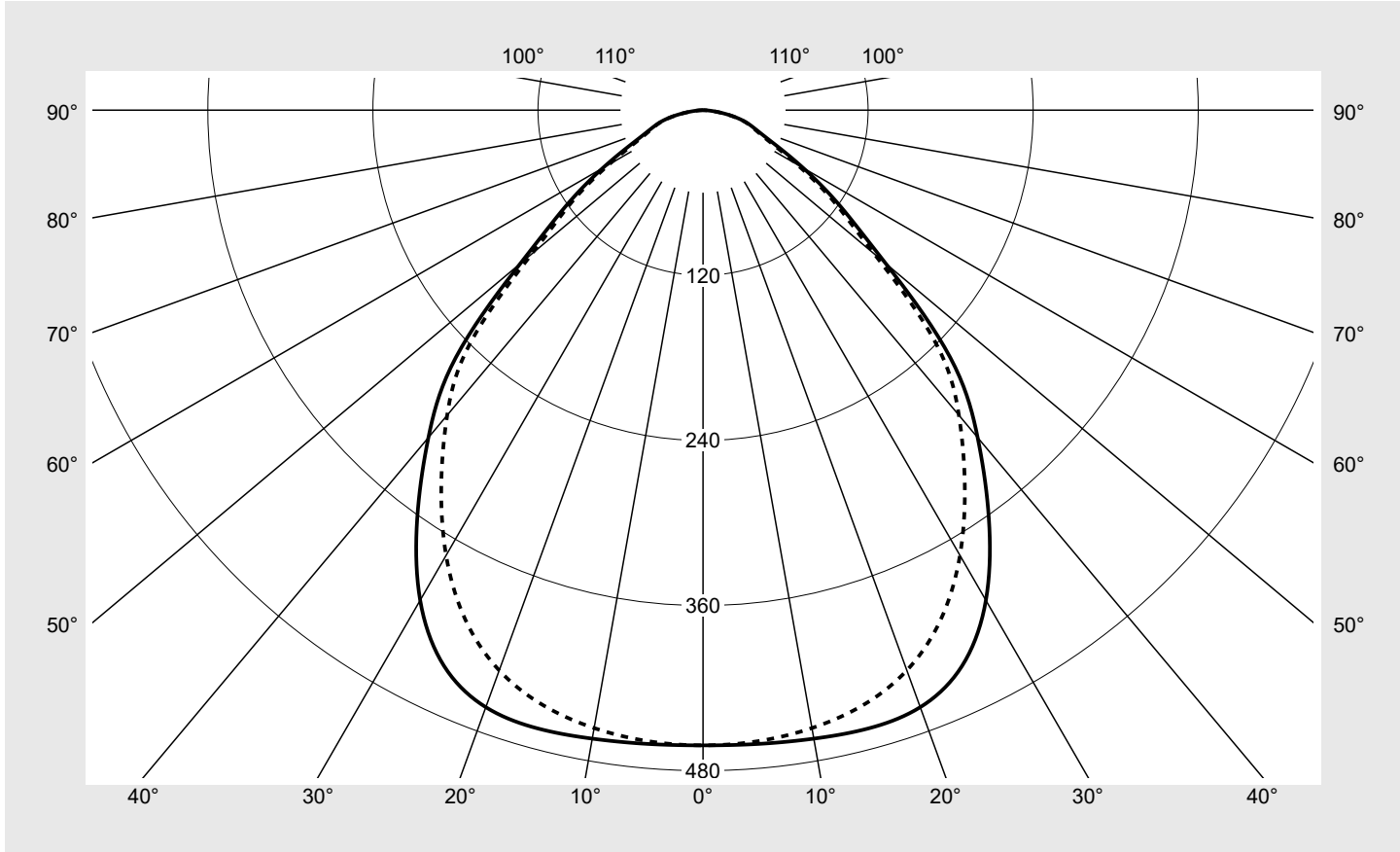


Photometric test report

Family Apollon® 21	Order number: 51MQ12WD2453 EAN: 4058352467244	LP number 59249_1
	Version recessed luminaire for lay-in mounting, square M600, wide distribution, UGR≤19 (L65≤3000cd/m²)	serial documentation 14.12.2021
	Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI	
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: 465 cd/klm**



Classifications	
DIN 5040	A 5 0
CIE	N1=62 N2=88 N3=98 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: 51MQ12WD2453 EAN: 4058352467244	LP number 59249_1
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°	461.6	461.6	461.6	461.6	461.6	461.6	461.6	2.8	2.8
5°	462.3	462.0	461.7	461.3	460.9	460.5	460.3	22.0	24.8
10°	463.8	462.9	461.5	459.7	458.0	456.8	456.0	43.8	68.6
15°	465.1	463.0	459.7	455.4	451.8	449.3	447.9	64.7	133.2
20°	461.7	458.0	452.6	445.3	439.3	435.3	433.2	83.7	216.9
25°	445.6	441.4	434.6	425.3	417.3	411.7	408.7	98.7	315.7
30°	411.3	408.5	402.8	394.4	384.9	377.9	373.6	107.8	423.5
35°	362.3	362.5	360.2	355.4	345.4	337.5	331.8	110.5	534.0
40°	310.6	310.7	309.4	306.6	299.8	294.0	289.4	106.9	640.9
45°	254.1	245.4	237.1	229.3	232.7	236.0	239.3	92.2	733.1
50°	173.4	173.4	171.6	167.9	170.6	168.8	162.5	71.4	804.5
55°	122.1	122.9	124.1	125.8	124.5	121.4	116.6	55.2	859.7
60°	84.2	93.7	97.1	94.6	98.0	92.8	78.9	44.1	903.8
65°	55.8	72.0	77.6	72.5	78.2	71.4	52.2	35.2	939.1
70°	40.8	53.1	58.8	57.8	59.4	53.4	39.6	27.7	966.8
75°	30.8	34.8	37.2	38.0	37.4	34.9	30.3	18.8	985.6
80°	17.9	18.6	19.7	21.1	20.0	18.8	17.7	10.4	996.0
85°	6.1	6.5	7.1	8.1	7.2	6.6	6.0	3.8	999.8
90°	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.2	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: 51MQ12WD2453 EAN: 4058352467244	LP number 59249_1
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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	15.5	17.0	15.9	17.4	17.7
	3H	16.5	17.9	16.9	18.2	18.5	16.3	17.7	16.7	18.0	18.4
	4H	16.8	18.1	17.2	18.4	18.8	16.7	17.9	17.1	18.3	18.7
	6H	17.0	18.2	17.4	18.6	19.0	16.9	18.1	17.3	18.4	18.8
	8H	17.1	18.2	17.6	18.6	19.0	17.0	18.1	17.4	18.5	18.9
	12H	17.2	18.2	17.6	18.6	19.0	17.0	18.0	17.5	18.4	18.9
4H	2H	16.1	17.4	16.5	17.8	18.2	16.0	17.3	16.4	17.6	18.0
	3H	17.2	18.3	17.6	18.7	19.1	17.1	18.2	17.5	18.6	19.0
	4H	17.7	18.6	18.1	19.0	19.5	17.6	18.5	18.0	18.9	19.4
	6H	18.0	18.8	18.4	19.2	19.7	17.9	18.7	18.4	19.2	19.6
	8H	18.1	18.8	18.5	19.3	19.8	18.0	18.8	18.5	19.2	19.7
	12H	18.1	18.8	18.6	19.3	19.8	18.1	18.7	18.5	19.2	19.7
8H	4H	17.9	18.7	18.4	19.1	19.6	17.8	18.6	18.3	19.0	19.5
	6H	18.3	18.9	18.8	19.4	19.9	18.2	18.9	18.7	19.3	19.8
	8H	18.4	19.0	18.9	19.5	20.0	18.4	18.9	18.9	19.4	19.9
	12H	18.5	19.0	19.0	19.5	20.0	18.5	18.9	19.0	19.4	20.0
12H	4H	17.9	18.6	18.4	19.1	19.6	17.9	18.5	18.3	19.0	19.5
	6H	18.4	18.9	18.9	19.4	19.9	18.3	18.8	18.8	19.3	19.8
	8H	18.5	19.0	19.0	19.5	20.0	18.5	18.9	19.0	19.4	19.9

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°		4752.3	4588.9	4434.6	4288.6	4352.1	4414.1	4474.8	
50°		3566.8	3566.6	3529.1	3454.4	3510.3	3473.2	3343.1	
55°		2814.4	2832.9	2861.8	2900.8	2871.0	2799.6	2686.9	
60°		2226.6	2476.9	2568.6	2501.1	2592.7	2454.4	2086.1	
65°		1745.6	2252.5	2427.1	2269.4	2446.8	2234.9	1633.7	
70°		1577.6	2054.3	2272.8	2232.9	2297.9	2063.6	1530.7	
75°		1574.9	1778.1	1900.4	1942.4	1911.7	1780.6	1548.8	
80°		1361.7	1419.7	1500.6	1605.1	1520.4	1435.0	1348.0	
85°		928.7	986.5	1083.7	1222.1	1097.4	995.6	915.0	

Photometric test report

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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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