

Photometric test report

Family
Apollon® 21

Order number: 51MQ12WD2113
EAN: 4058352467220

LP number
59189_14

serial
documentation
30.07.2021

siteco

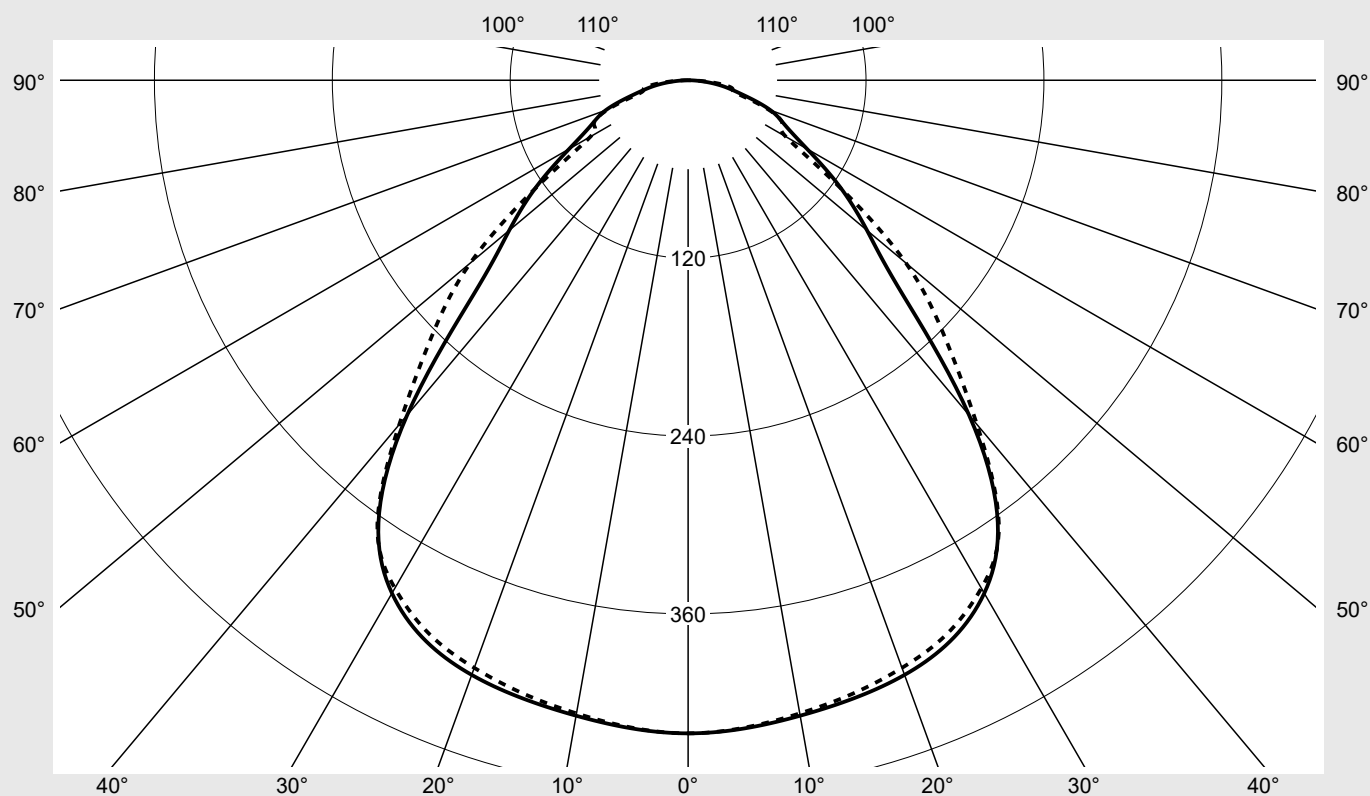
Version recessed luminaire for lay-in mounting, square M600, wide distribution, UGR≤19 (L65≤3000cd/m²)
Lamps LED 4000 K | CRI ≥ 90
Controlgear ECG-DALI
Rated values Net luminous flux = 4000 lm
Power consumption = 36.0 W
Luminous efficacy = 111.1 lm/W

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
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C- planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
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	
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	
C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
γ	Luminance in cd/m²						
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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