

Photometric test report

Family
Apollon® 41

Order number: 51MH12H72443
EAN: 4058352930915

LP number
59514_5

serial
documentation
20.01.2026

siteco

Version

recessed luminaire for lay-in mounting, square
M600, opal, extremely wide distribution,
UGR≤22

Lamps

LED 4000 K | CRI ≥ 80

Controlgear

ECG

Rated values

Net luminous flux = 5000 lm

Power consumption = 38.5 W

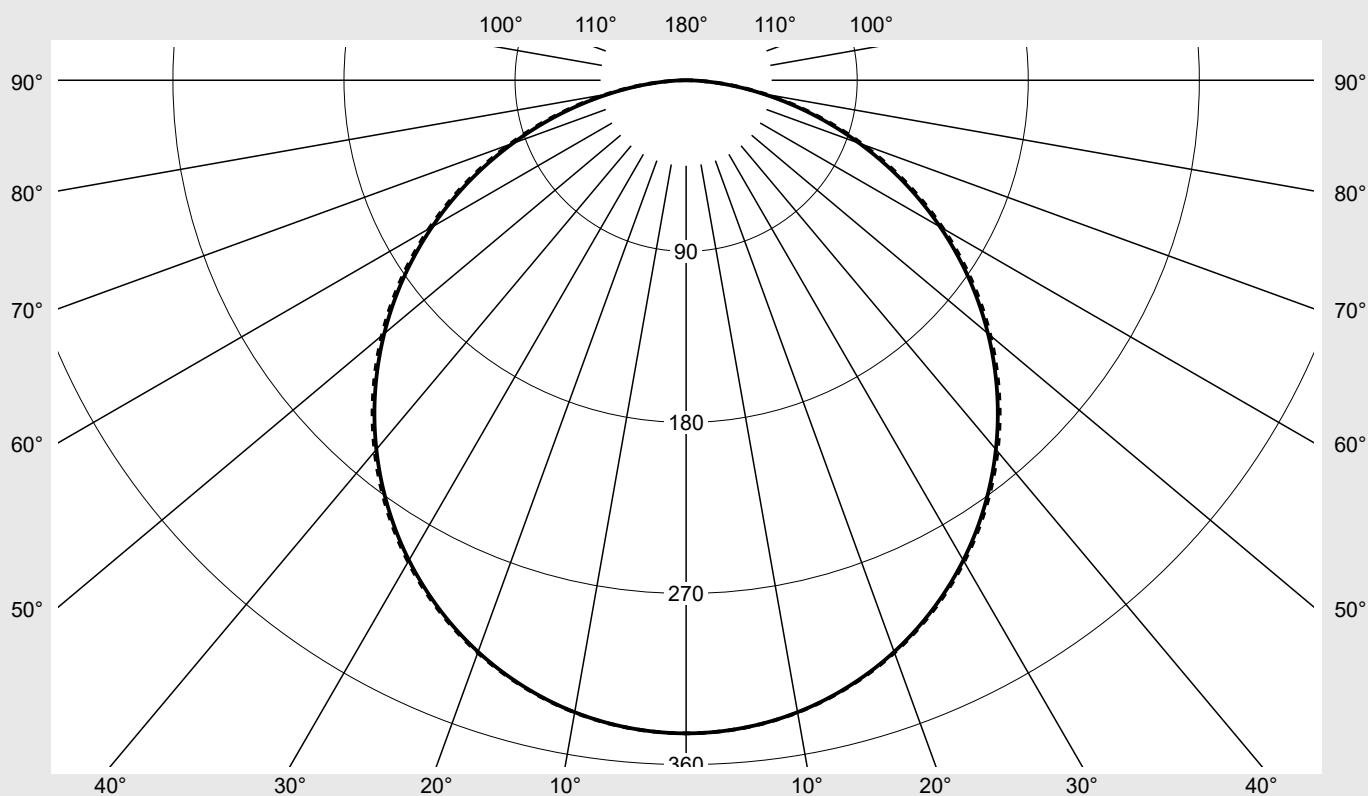
Luminous efficacy = 129.9 lm/W

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 344 cd/klm



Classifications

DIN 5040 A 4 0
CIE N1=47 N2=78 N3=95
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°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
γ	Luminous intensity in cd/klm						
0°	343.6	343.6	343.6	343.6	343.6	343.6	343.6
5°	342.0	342.1	342.1	342.1	342.2	342.2	342.1
10°	337.6	337.6	337.7	337.7	337.8	337.8	337.7
15°	330.2	330.3	330.4	330.4	330.5	330.6	330.5
20°	320.0	320.1	320.2	320.3	320.4	320.5	320.5
25°	307.1	307.1	307.3	307.5	307.6	307.8	307.8
30°	291.6	291.7	291.9	292.1	292.3	292.5	292.5
35°	273.7	273.8	274.0	274.3	274.5	274.8	274.8
40°	253.5	253.6	253.9	254.2	254.5	254.8	254.9
45°	231.3	231.4	231.7	232.0	232.4	232.8	232.8
50°	207.3	207.3	207.6	208.0	208.5	208.8	209.0
55°	181.6	181.6	181.9	182.3	182.8	183.2	183.3
60°	154.3	154.4	154.7	155.1	155.6	156.0	156.2
65°	126.0	126.1	126.4	126.8	127.4	127.8	128.0
70°	97.1	97.2	97.5	97.9	98.5	98.9	99.0
75°	68.4	68.5	68.8	69.3	69.8	70.1	70.3
80°	41.1	41.2	41.6	42.0	42.2	42.5	42.6
85°	17.1	17.2	17.4	17.5	17.8	17.9	18.0
90°	0.5	0.4	0.4	0.3	0.3	0.2	0.2
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Table of values for luminous intensities		Maximum luminous intensity
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C- planes	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm						Luminous flux in lm/klm	
0°	343.6	343.6	343.6	343.6	343.6	343.6	2.1	2.1
5°	342.2	342.2	342.1	342.1	342.1	342.0	16.3	18.4
10°	337.8	337.8	337.7	337.7	337.6	337.6	32.1	50.5
15°	330.6	330.5	330.4	330.4	330.3	330.2	46.9	97.4
20°	320.5	320.4	320.3	320.2	320.1	320.0	60.0	157.5
25°	307.8	307.6	307.5	307.3	307.1	307.1	71.2	228.7
30°	292.5	292.3	292.1	291.9	291.7	291.6	80.1	308.7
35°	274.8	274.5	274.3	274.0	273.8	273.7	86.2	395.0
40°	254.8	254.5	254.2	253.9	253.6	253.5	89.6	484.5
45°	232.8	232.4	232.0	231.7	231.4	231.3	89.9	574.5
50°	208.8	208.5	208.0	207.6	207.3	207.3	87.4	661.8
55°	183.2	182.8	182.3	181.9	181.6	181.6	81.9	743.7
60°	156.0	155.6	155.1	154.7	154.4	154.3	73.7	817.4
65°	127.8	127.4	126.8	126.4	126.1	126.0	63.1	880.4
70°	98.9	98.5	97.9	97.5	97.2	97.1	50.5	930.9
75°	70.1	69.8	69.3	68.8	68.5	68.4	36.7	967.6
80°	42.5	42.2	42.0	41.6	41.2	41.1	22.6	990.2
85°	17.9	17.8	17.5	17.4	17.2	17.1	9.6	999.8
90°	0.2	0.3	0.3	0.4	0.4	0.5	0.2	1000.0
95°	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	1000.0
105°	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	1000.0
115°	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	1000.0
125°	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	1000.0
135°	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	1000.0
145°	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	1000.0
155°	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	1000.0
165°	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	1000.0
175°	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	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	18.1	19.8	18.4	20.1	20.4	18.1	19.8	18.5	20.1	20.4
	3H	19.7	21.2	20.1	21.6	21.9	19.8	21.3	20.2	21.7	22.0
	4H	20.4	21.8	20.8	22.2	22.5	20.5	21.9	20.9	22.3	22.6
	6H	20.9	22.2	21.3	22.6	23.0	21.0	22.3	21.4	22.7	23.1
	8H	21.1	22.3	21.5	22.7	23.1	21.2	22.5	21.6	22.8	23.2
	12H	21.2	22.4	21.6	22.8	23.2	21.3	22.5	21.8	22.9	23.3
4H	2H	18.8	20.3	19.2	20.6	21.0	18.9	20.3	19.3	20.7	21.1
	3H	20.7	21.9	21.1	22.3	22.7	20.7	22.0	21.2	22.4	22.8
	4H	21.5	22.6	21.9	23.0	23.4	21.6	22.7	22.0	23.1	23.5
	6H	22.1	23.1	22.5	23.5	23.9	22.2	23.2	22.6	23.6	24.0
	8H	22.3	23.2	22.8	23.6	24.1	22.4	23.3	22.9	23.8	24.2
	12H	22.5	23.3	22.9	23.7	24.2	22.6	23.4	23.1	23.8	24.3
8H	4H	21.8	22.7	22.3	23.2	23.6	21.9	22.8	22.4	23.2	23.7
	6H	22.6	23.3	23.1	23.8	24.3	22.7	23.4	23.2	23.9	24.4
	8H	22.9	23.5	23.4	24.0	24.5	23.0	23.6	23.5	24.1	24.6
	12H	23.1	23.6	23.6	24.1	24.7	23.2	23.8	23.7	24.3	24.8
12H	4H	21.9	22.7	22.4	23.1	23.6	22.0	22.8	22.4	23.2	23.7
	6H	22.7	23.3	23.2	23.8	24.3	22.8	23.4	23.3	23.9	24.4
	8H	23.0	23.5	23.5	24.0	24.6	23.1	23.7	23.6	24.1	24.7

Luminance table				Max. for $\gamma \geq 65^\circ$				Photometric dimensions in mm:		L = 555 B = 555			
C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°
γ	Luminance in cd/m²												
45°	5310.8	5311.9	5318.6	5326.2	5335.8	5343.7	5345.0	5343.7	5335.8	5326.2	5318.6	5311.9	5310.8
50°	5235.2	5235.7	5243.3	5252.4	5264.0	5273.4	5276.7	5273.4	5264.0	5252.4	5243.3	5235.7	5235.2
55°	5138.2	5139.6	5146.7	5158.1	5172.2	5184.1	5187.8	5184.1	5172.2	5158.1	5146.7	5139.6	5138.2
60°	5010.6	5013.2	5021.1	5035.0	5050.6	5065.6	5070.8	5065.6	5050.6	5035.0	5021.1	5013.2	5010.6
65°	4841.4	4844.9	4855.7	4870.7	4892.2	4908.4	4916.4	4908.4	4892.2	4870.7	4855.7	4844.9	4841.4
70°	4606.8	4611.6	4625.9	4648.2	4672.9	4693.8	4700.9	4693.8	4672.9	4648.2	4625.9	4611.6	4606.8
75°	4290.2	4295.9	4316.6	4347.3	4378.7	4398.8	4407.7	4398.8	4378.7	4347.3	4316.6	4295.9	4290.2
80°	3842.5	3854.6	3887.4	3922.9	3948.3	3971.6	3979.1	3971.6	3948.3	3922.9	3887.4	3854.6	3842.5
85°	3184.6	3208.8	3234.9	3268.4	3309.6	3335.7	3345.0	3335.7	3309.6	3268.4	3234.9	3208.8	3184.6

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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