

Photometric test report

Family
Apollon® 41

Order number: 51MH12WD2M43
EAN: 4069025234346

LP number
59525_46

serial
documentation
22.12.2025

siteco

Version

recessed luminaire for lay-in mounting, square
M600, wide distribution, adjustable color
temperature: 3000 K | 4000 K, UGR≤19
($L_{65} \leq 3000 \text{ cd/m}^2$)

Lamps

LED 4000 K | CRI ≥ 80

Controlgear

ECG-DALI

Setting

AC-mode

Rated values

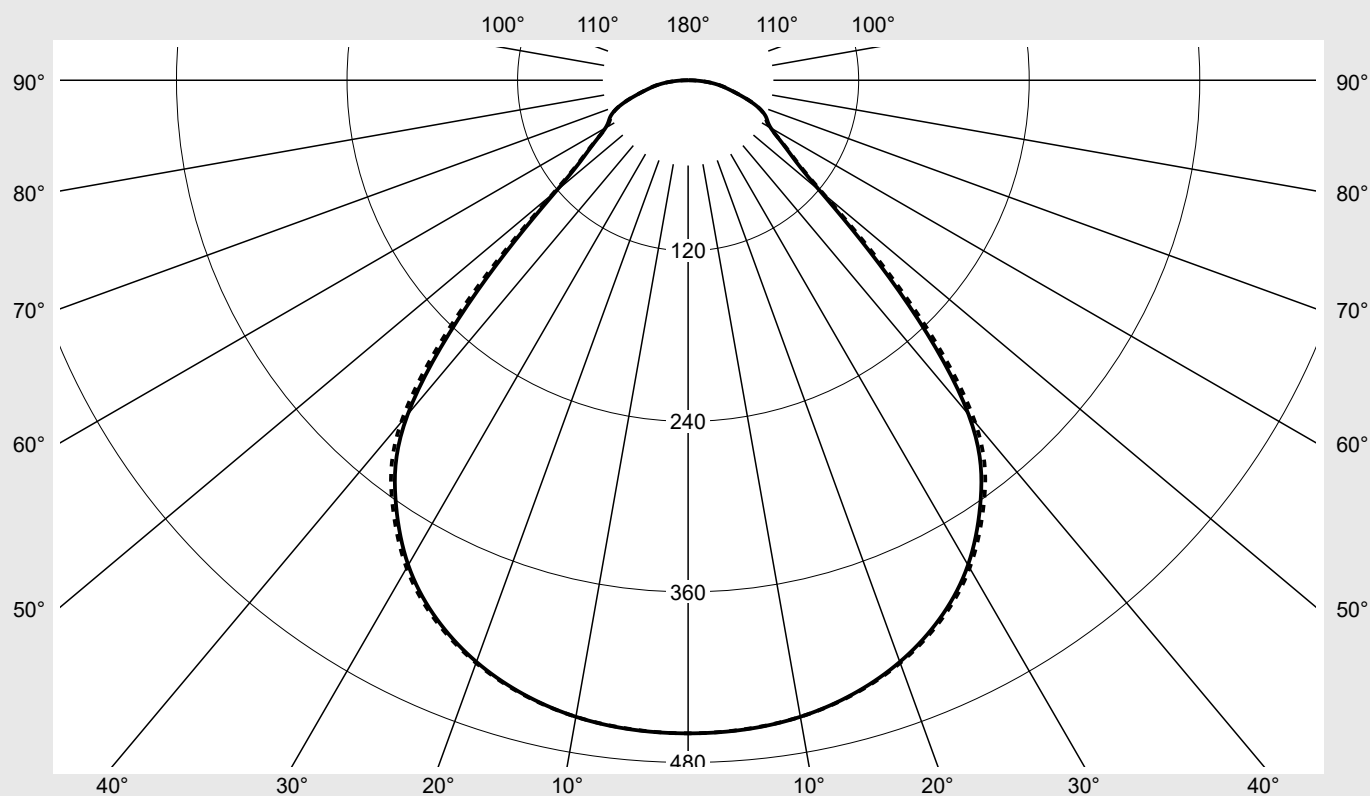
Net luminous flux = 3500 lm
Power consumption = 28.5 W
Luminous efficacy = 122.8 lm/W

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 460 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°	459.5	459.5	459.5	459.5	459.5	459.5	459.5	2.7	2.7
5°	458.5	458.6	458.6	458.5	458.4	458.4	458.3	21.9	24.7
10°	454.8	454.7	454.7	454.6	454.5	454.6	454.8	43.3	67.9
15°	447.3	447.2	447.2	447.1	447.1	447.4	447.7	63.4	131.4
20°	435.5	435.6	435.6	435.5	435.4	435.9	436.3	81.7	213.1
25°	418.3	418.2	418.1	417.9	417.9	418.8	419.8	96.9	310.0
30°	393.9	392.9	392.0	391.8	391.7	394.0	396.2	107.7	417.6
35°	359.0	358.1	357.3	357.0	356.7	359.8	362.9	112.7	530.3
40°	307.0	305.1	303.5	302.7	302.0	308.1	314.2	107.6	637.9
45°	209.9	219.5	229.2	228.5	227.9	223.6	219.4	86.8	724.7
50°	121.1	152.8	184.6	184.6	184.5	154.4	124.3	68.8	793.5
55°	85.1	114.1	143.1	142.6	142.1	114.1	86.2	55.5	849.0
60°	67.2	85.5	103.9	103.9	103.9	85.2	66.6	43.5	892.4
65°	60.3	67.1	74.0	73.7	73.5	66.6	59.7	34.4	926.8
70°	49.9	54.2	58.5	57.8	57.2	53.7	50.2	28.4	955.2
75°	35.1	40.7	46.3	45.7	45.1	40.2	35.4	22.4	977.6
80°	24.2	25.1	26.1	25.6	25.0	24.9	24.7	13.6	991.2
85°	13.0	14.1	15.3	15.2	15.1	14.0	12.9	7.9	999.1
90°	1.4	1.6	1.9	1.8	1.8	1.5	1.2	0.9	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	14.8	16.4	15.2	16.7	17.0	14.8	16.4	15.2	16.7	17.0
	3H	15.7	17.1	16.1	17.5	17.8	15.7	17.1	16.1	17.5	17.8
	4H	16.2	17.5	16.6	17.9	18.2	16.2	17.5	16.6	17.9	18.2
	6H	16.6	17.8	17.0	18.2	18.5	16.6	17.8	17.0	18.2	18.6
	8H	16.8	17.9	17.2	18.3	18.7	16.8	17.9	17.2	18.3	18.7
	12H	16.9	18.0	17.4	18.4	18.8	17.0	18.0	17.4	18.4	18.8
4H	2H	15.4	16.7	15.8	17.0	17.4	15.4	16.7	15.8	17.0	17.4
	3H	16.6	17.7	17.0	18.1	18.5	16.6	17.7	17.0	18.0	18.5
	4H	17.2	18.2	17.7	18.6	19.0	17.2	18.2	17.6	18.6	19.0
	6H	17.7	18.6	18.2	19.0	19.5	17.7	18.6	18.2	19.0	19.4
	8H	18.0	18.7	18.4	19.2	19.7	17.9	18.7	18.4	19.2	19.6
	12H	18.2	18.8	18.7	19.3	19.8	18.1	18.8	18.6	19.3	19.8
8H	4H	17.6	18.3	18.0	18.8	19.3	17.5	18.3	18.0	18.8	19.2
	6H	18.2	18.9	18.7	19.3	19.8	18.2	18.8	18.7	19.3	19.8
	8H	18.5	19.1	19.0	19.6	20.1	18.5	19.1	19.0	19.5	20.1
	12H	18.8	19.3	19.3	19.8	20.3	18.8	19.3	19.3	19.8	20.3
12H	4H	17.6	18.3	18.1	18.7	19.2	17.6	18.3	18.1	18.7	19.2
	6H	18.3	18.8	18.8	19.3	19.9	18.3	18.8	18.8	19.3	19.8
	8H	18.7	19.1	19.2	19.6	20.2	18.6	19.1	19.1	19.6	20.1

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 555 B = 555	
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°	3373.2	3527.9	3682.6	3672.3	3662.0	3593.7	3525.5
50°	2139.9	2701.9	3263.9	3263.0	3262.1	2729.8	2197.5
55°	1684.9	2259.6	2834.3	2824.5	2814.7	2260.8	1706.8
60°	1526.5	1943.5	2360.5	2360.5	2360.5	1936.8	1513.0
65°	1621.2	1804.8	1988.4	1982.7	1977.0	1791.1	1605.3
70°	1656.5	1799.7	1942.9	1921.1	1899.3	1782.8	1666.4
75°	1541.8	1788.1	2034.3	2006.8	1979.2	1766.2	1553.1
80°	1580.3	1643.0	1705.6	1672.1	1638.4	1628.7	1619.1
85°	1691.5	1843.3	1995.2	1983.6	1972.0	1829.1	1686.2

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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