

Photometric test report

Family
Apollon® 31

Order number: 51MP12WD2342
EAN: 4058352926505

LP number
59516_11

serial
documentation
11.12.2023

siteco

Version recessed luminaire for lay-in mounting, square
M600, wide distribution, UGR≤19
($L65 \leq 3000 \text{ cd/m}^2$)

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

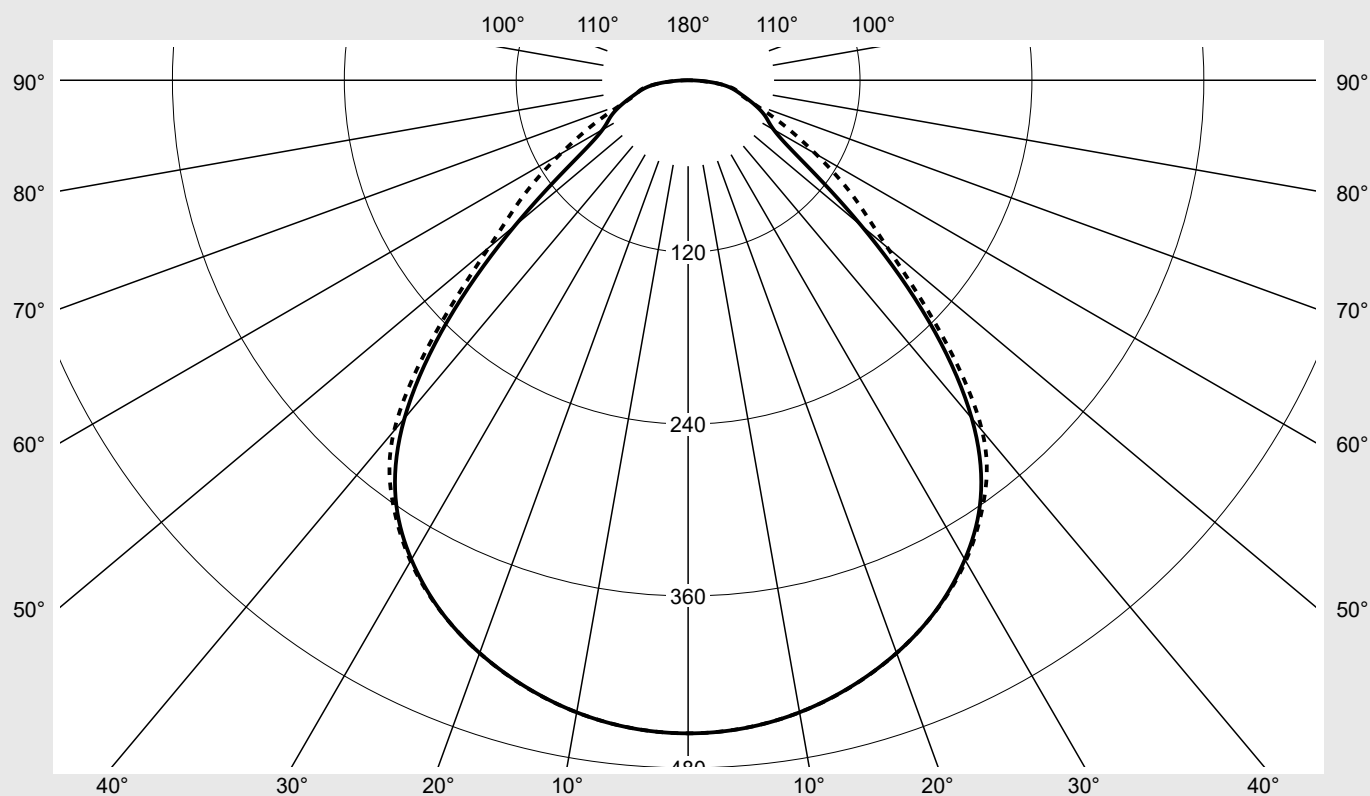
Rated values Net luminous flux = 3600 lm
Power consumption = 27.5 W
Luminous efficacy = 130.9 lm/W

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 456 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°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
γ	Luminous intensity in cd/klm						
0°	455.9	455.9	455.9	455.9	455.9	455.9	455.9
5°	454.0	453.9	453.9	453.9	453.9	453.9	453.9
10°	448.0	448.0	448.0	448.1	448.1	448.1	448.1
15°	438.4	438.3	438.4	438.5	438.5	438.6	438.5
20°	425.5	425.3	425.3	425.5	425.7	425.7	425.5
25°	408.8	408.7	408.7	408.8	409.0	409.1	408.9
30°	386.3	386.6	386.8	387.0	387.1	387.3	387.6
35°	356.0	357.3	358.0	358.0	357.9	358.4	359.6
40°	308.0	312.5	314.7	314.8	313.9	315.4	319.3
45°	237.4	240.4	242.0	242.0	242.8	245.2	249.3
50°	157.6	168.1	171.3	167.4	163.5	168.2	181.5
55°	95.3	119.8	128.0	119.9	107.7	114.5	140.2
60°	69.0	89.0	96.4	91.3	79.3	83.2	102.9
65°	59.5	68.4	72.7	72.3	65.8	66.0	72.9
70°	49.1	51.9	54.5	56.9	54.9	52.5	49.7
75°	38.5	40.5	42.0	43.2	41.8	40.0	37.8
80°	30.1	29.9	29.5	28.8	29.4	30.3	31.5
85°	16.8	15.8	15.0	14.4	15.2	15.6	15.7
90°	0.6	0.6	0.5	0.3	0.3	0.3	0.3
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°	455.9	455.9	455.9	455.9	455.9	455.9	2.7	2.7
5°	453.9	453.9	453.9	453.9	453.9	454.0	21.7	24.4
10°	448.1	448.1	448.1	448.0	448.0	448.0	42.6	67.1
15°	438.6	438.5	438.5	438.4	438.3	438.4	62.2	129.3
20°	425.7	425.7	425.5	425.3	425.3	425.5	79.8	209.0
25°	409.1	409.0	408.8	408.7	408.7	408.8	94.7	303.7
30°	387.3	387.1	387.0	386.8	386.6	386.3	106.1	409.8
35°	358.4	357.9	358.0	358.0	357.3	356.0	112.5	522.3
40°	315.4	313.9	314.8	314.7	312.5	308.0	110.7	633.0
45°	245.2	242.8	242.0	242.0	240.4	237.4	94.0	727.0
50°	168.2	163.5	167.4	171.3	168.1	157.6	70.5	797.6
55°	114.5	107.7	119.9	128.0	119.8	95.3	53.0	850.5
60°	83.2	79.3	91.3	96.4	89.0	69.0	41.5	892.1
65°	66.0	65.8	72.3	72.7	68.4	59.5	34.1	926.1
70°	52.5	54.9	56.9	54.5	51.9	49.1	27.5	953.6
75°	40.0	41.8	43.2	42.0	40.5	38.5	21.7	975.3
80°	30.3	29.4	28.8	29.5	29.9	30.1	16.1	991.4
85°	15.6	15.2	14.4	15.0	15.8	16.8	8.4	999.8
90°	0.3	0.3	0.3	0.5	0.6	0.6	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	15.0	16.6	15.4	16.9	17.2	15.1	16.6	15.4	17.0	17.3	
	3H	15.9	17.3	16.3	17.6	18.0	16.0	17.4	16.4	17.7	18.1	
	4H	16.4	17.7	16.8	18.0	18.4	16.4	17.7	16.8	18.1	18.5	
	6H	16.9	18.1	17.3	18.5	18.9	17.0	18.2	17.4	18.5	18.9	
	8H	17.2	18.3	17.6	18.7	19.1	17.3	18.4	17.7	18.8	19.2	
	12H	17.4	18.5	17.9	18.9	19.3	17.5	18.5	17.9	18.9	19.3	
4H	2H	15.4	16.7	15.8	17.1	17.5	15.5	16.8	15.9	17.2	17.5	
	3H	16.6	17.7	17.0	18.1	18.5	16.7	17.8	17.1	18.1	18.6	
	4H	17.2	18.2	17.7	18.6	19.0	17.3	18.3	17.7	18.7	19.1	
	6H	17.9	18.8	18.4	19.2	19.7	18.0	18.8	18.4	19.3	19.7	
	8H	18.3	19.0	18.7	19.5	20.0	18.3	19.1	18.8	19.6	20.0	
	12H	18.6	19.3	19.1	19.7	20.2	18.6	19.3	19.1	19.8	20.3	
8H	4H	17.6	18.3	18.0	18.8	19.3	17.6	18.4	18.1	18.8	19.3	
	6H	18.4	19.1	18.9	19.5	20.0	18.5	19.1	19.0	19.6	20.1	
	8H	18.9	19.4	19.4	19.9	20.4	18.9	19.5	19.4	20.0	20.5	
	12H	19.3	19.7	19.8	20.2	20.8	19.3	19.8	19.8	20.3	20.8	
12H	4H	17.6	18.3	18.1	18.8	19.3	17.7	18.3	18.1	18.8	19.3	
	6H	18.5	19.1	19.0	19.6	20.1	18.6	19.1	19.1	19.6	20.1	
	8H	19.0	19.5	19.5	20.0	20.5	19.1	19.5	19.6	20.0	20.6	

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°		3923.1	3973.8	3999.5	4000.4	4013.4	4053.3	4120.2	4053.3	4013.4	4000.4	3999.5	3973.8	3923.1	
50°		2865.8	3055.5	3114.6	3043.1	2972.0	3057.8	3300.8	3057.8	2972.0	3043.1	3114.6	3055.5	2865.8	
55°		1942.5	2441.8	2608.9	2444.1	2194.7	2332.1	2856.4	2332.1	2194.7	2444.1	2608.9	2441.8	1942.5	
60°		1611.8	2079.4	2253.2	2133.2	1854.6	1945.5	2405.9	1945.5	1854.6	2133.2	2253.2	2079.4	1611.8	
65°		1645.3	1892.3	2009.9	1998.2	1818.7	1825.0	2017.2	1825.0	1818.7	1998.2	2009.9	1892.3	1645.3	
70°		1676.3	1773.5	1862.9	1944.5	1877.2	1794.7	1696.8	1794.7	1877.2	1944.5	1862.9	1773.5	1676.3	
75°		1740.2	1826.7	1897.3	1951.9	1888.4	1806.2	1705.5	1806.2	1888.4	1951.9	1897.3	1826.7	1740.2	
80°		2024.6	2015.4	1986.6	1937.8	1977.2	2037.3	2117.8	2037.3	1977.2	1937.8	1986.6	2015.4	2024.6	
85°		2255.5	2124.6	2017.1	1932.9	2031.6	2090.4	2109.5	2090.4	2031.6	1932.9	2017.1	2124.6	2255.5	

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

siteco

