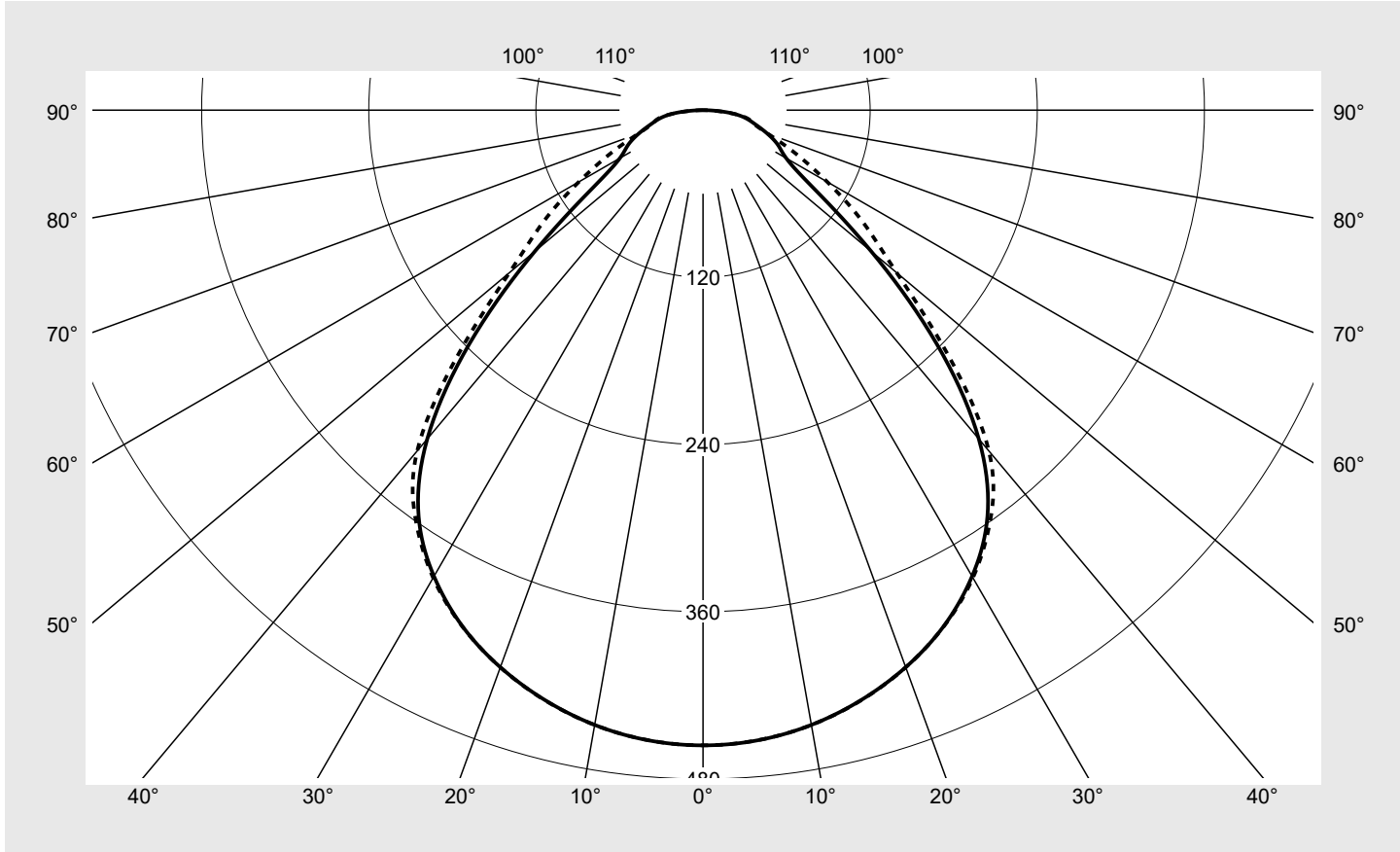


Photometric test report

Family Apollon® 31 	Order number: 51MP12WD2342 EAN: 4058352926505	LP number 59516_11
	Version recessed luminaire for lay-in mounting, square M600, wide distribution, UGR≤19 (L65≤3000cd/m²) 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	serial documentation 11.12.2023

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

Photometric test report

Family Apollon® 31	Order number: 51MP12WD2342 EAN: 4058352926505	LP number 59516_11
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°	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

Photometric test report

Family Apollon® 31	Order number: 51MP12WD2342 EAN: 4058352926505	LP number 59516_11
Table of values for luminous intensities		Maximum luminous intensity
		sITeco

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

Photometric test report

Family Apollon® 31	Order number: 51MP12WD2342 EAN: 4058352926505	LP number 59516_11
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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	15.0	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
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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/m ²												
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

Photometric test report

Family Apollon® 31	Order number: 51MP12WD2342 EAN: 4058352926505	LP number 59516_11
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

