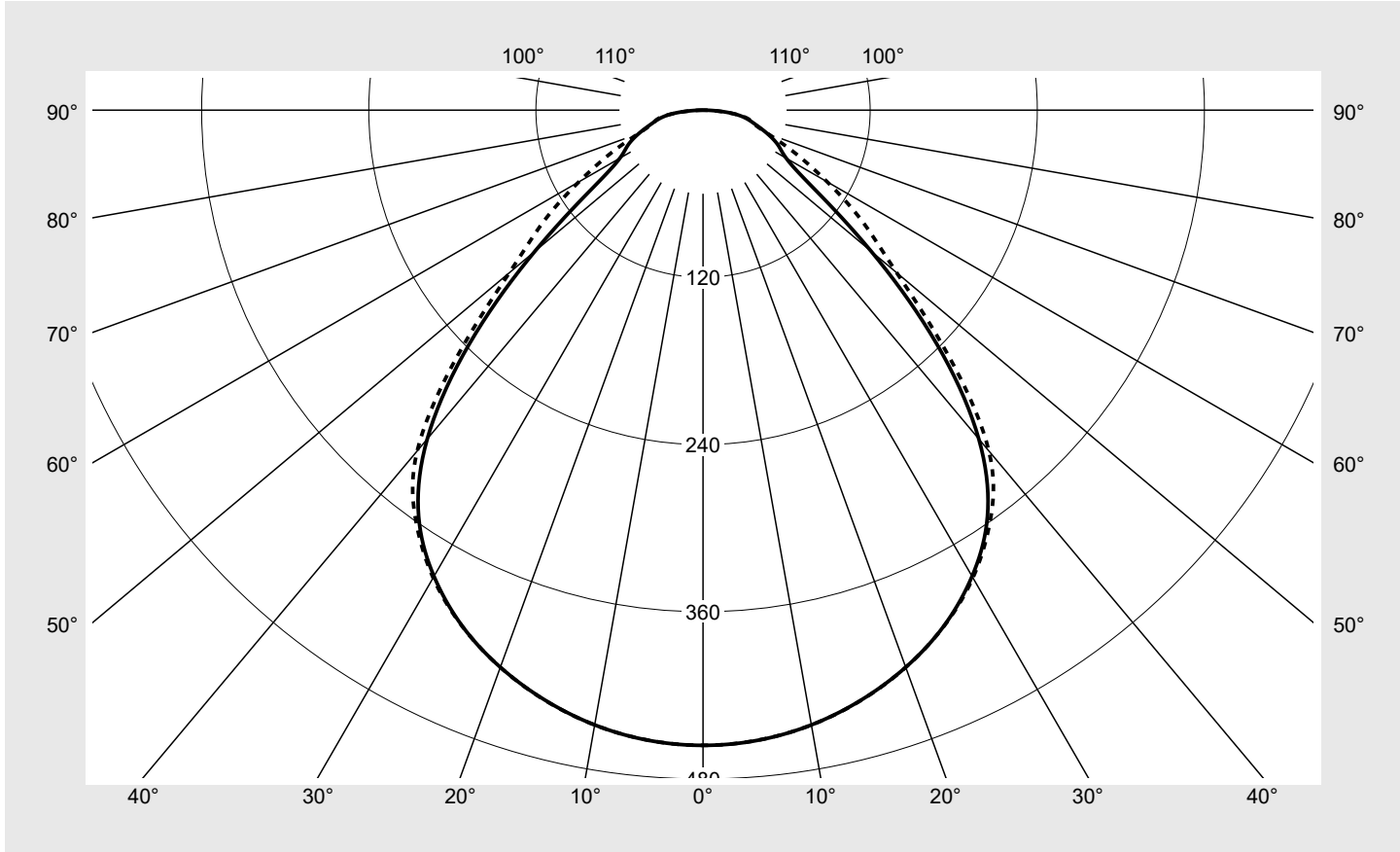


Photometric test report

Family Apollon® 31	Order number: 51MP12W72442 EAN: 4058352926390	LP number 59516_10
	Version	recessed luminaire for lay-in mounting, square M600, wide distribution, UGR≤19 (L65≤3000cd/m²)
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG
	Rated values	Net luminous flux = 4000 lm Power consumption = 27.5 W Luminous efficacy = 145.5 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: 51MP12W72442 EAN: 4058352926390	LP number 59516_10
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sITeco

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

Photometric test report

Family Apollon® 31	Order number: 51MP12W72442 EAN: 4058352926390	LP number 59516_10
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: 51MP12W72442 EAN: 4058352926390	LP number 59516_10
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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	15.4	16.9	15.7	17.2	17.6	15.5	17.0	15.8	17.3	17.6
	3H	16.3	17.6	16.6	18.0	18.3	16.4	17.7	16.7	18.1	18.4
	4H	16.7	18.0	17.1	18.4	18.8	16.8	18.1	17.2	18.5	18.8
	6H	17.3	18.5	17.7	18.8	19.2	17.3	18.5	17.8	18.9	19.3
	8H	17.5	18.7	18.0	19.0	19.4	17.6	18.8	18.0	19.1	19.5
	12H	17.8	18.8	18.2	19.2	19.6	17.9	18.9	18.3	19.3	19.7
4H	2H	15.8	17.1	16.2	17.5	17.8	15.9	17.2	16.3	17.5	17.9
	3H	16.9	18.0	17.4	18.4	18.8	17.0	18.1	17.4	18.5	18.9
	4H	17.6	18.6	18.0	19.0	19.4	17.6	18.6	18.1	19.0	19.5
	6H	18.3	19.1	18.8	19.6	20.0	18.4	19.2	18.8	19.6	20.1
	8H	18.6	19.4	19.1	19.9	20.3	18.7	19.5	19.2	19.9	20.4
	12H	18.9	19.6	19.4	20.1	20.6	19.0	19.7	19.5	20.1	20.6
8H	4H	17.9	18.7	18.4	19.1	19.6	18.0	18.7	18.4	19.2	19.7
	6H	18.8	19.4	19.3	19.9	20.4	18.8	19.5	19.3	20.0	20.5
	8H	19.2	19.8	19.7	20.3	20.8	19.3	19.9	19.8	20.3	20.9
	12H	19.6	20.1	20.2	20.6	21.2	19.7	20.1	20.2	20.6	21.2
12H	4H	18.0	18.7	18.5	19.1	19.6	18.0	18.7	18.5	19.2	19.7
	6H	18.9	19.5	19.4	19.9	20.5	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	20.0	20.4	21.0

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°	4359.0	4415.3	4443.9	4444.8	4459.3	4503.7	4578.0	4503.7	4459.3	4444.8	4443.9	4415.3	4359.0
50°	3184.2	3395.0	3460.7	3381.3	3302.2	3397.6	3667.6	3397.6	3302.2	3381.3	3460.7	3395.0	3184.2
55°	2158.3	2713.1	2898.8	2715.6	2438.5	2591.2	3173.8	2591.2	2438.5	2715.6	2898.8	2713.1	2158.3
60°	1790.9	2310.4	2503.5	2370.2	2060.6	2161.6	2673.3	2161.6	2060.6	2370.2	2503.5	2310.4	1790.9
65°	1828.1	2102.5	2233.2	2220.2	2020.8	2027.8	2241.4	2027.8	2020.8	2220.2	2233.2	2102.5	1828.1
70°	1862.5	1970.6	2069.9	2160.6	2085.8	1994.1	1885.4	1994.1	2085.8	2160.6	2069.9	1970.6	1862.5
75°	1933.6	2029.7	2108.1	2168.8	2098.2	2006.9	1895.0	2006.9	2098.2	2168.8	2108.1	2029.7	1933.6
80°	2249.6	2239.4	2207.3	2153.2	2196.9	2263.6	2353.1	2263.6	2196.9	2153.2	2207.3	2239.4	2249.6
85°	2506.1	2360.7	2241.2	2147.6	2257.3	2322.7	2343.9	2322.7	2257.3	2147.6	2241.2	2360.7	2506.1

Photometric test report

Family Apollon® 31	Order number: 51MP12W72442 EAN: 4058352926390	LP number 59516_10
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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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