
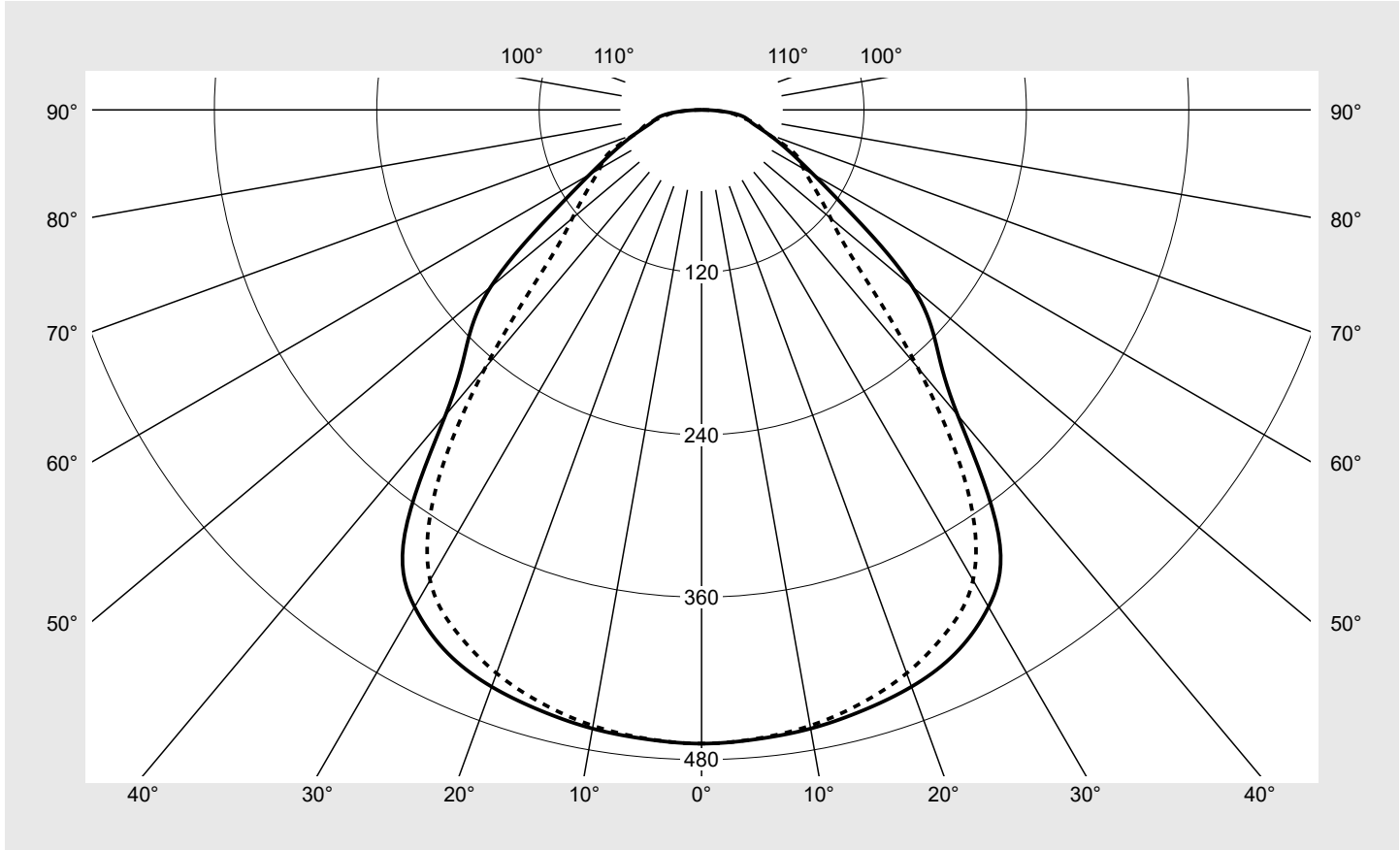


Photometric test report

Family Apollon® 31	Order number: 51MP12WD2441 EAN: 4058352451489	LP number 59140_2
	Version square M600, direct distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 4000 lm Power consumption = 35.0 W Luminous efficacy = 114.3 lm/W	serial documentation 23.03.2021



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 468 cd/klm**



Classifications	
DIN 5040	A 5 0
CIE	N1=62 N2=86 N3=96 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: 51MP12WD2441 EAN: 4058352451489	LP number 59140_2
Table of values for luminous intensities		Maximum luminous intensity
		siteco

C-planes	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
γ	Luminous intensity in cd/klm												
0°	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2
5°	466.7	466.2	466.1	466.2	466.6	466.3	466.3	466.3	466.6	466.2	466.1	466.2	466.7
10°	464.1	463.4	462.8	462.4	462.2	461.9	462.0	461.9	462.2	462.4	462.8	463.4	464.1
15°	459.5	458.3	457.0	456.4	456.0	454.8	454.1	454.8	456.0	456.4	457.0	458.3	459.5
20°	453.5	451.1	448.1	448.0	447.3	444.5	442.9	444.5	447.3	448.0	448.1	451.1	453.5
25°	443.2	439.9	435.6	434.8	432.8	428.8	426.6	428.8	432.8	434.8	435.6	439.9	443.2
30°	424.1	419.8	415.5	412.4	409.8	403.7	401.2	403.7	409.8	412.4	415.5	419.8	424.1
35°	382.3	373.1	366.4	364.0	363.5	349.4	342.7	349.4	363.5	364.0	366.4	373.1	382.3
40°	294.4	283.5	275.9	271.3	277.8	253.6	248.5	253.6	277.8	271.3	275.9	283.5	294.4
45°	245.2	212.7	181.1	206.2	235.8	190.3	162.7	190.3	235.8	206.2	181.1	212.7	245.2
50°	203.4	157.9	140.3	152.7	187.8	145.6	124.7	145.6	187.8	152.7	140.3	157.9	203.4
55°	138.2	123.9	116.2	117.5	115.8	116.5	102.8	116.5	115.8	117.5	116.2	123.9	138.2
60°	95.5	97.5	95.6	90.3	76.6	94.8	87.0	94.8	76.6	90.3	95.6	97.5	95.5
65°	70.5	74.8	81.2	73.3	60.6	73.9	75.7	73.9	60.6	73.3	81.2	74.8	70.5
70°	52.6	59.9	61.2	61.0	47.3	57.2	52.4	57.2	47.3	61.0	61.2	59.9	52.6
75°	39.3	47.8	40.5	47.7	37.2	43.6	42.6	43.6	37.2	47.7	40.5	47.8	39.3
80°	32.6	33.8	24.7	31.0	33.8	33.8	29.0	33.8	33.8	31.0	24.7	33.8	32.6
85°	19.6	19.9	16.6	20.6	21.2	22.6	19.0	22.6	21.2	20.6	16.6	19.9	19.6
90°	0.8	1.0	0.5	0.8	0.4	0.5	0.3	0.5	0.4	0.8	0.5	1.0	0.8
95°	0.0	0.0	0.0	0.0	0.0	0.0	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	0.0	0.0	0.0	0.0	0.0

Photometric test report

Family Apollon® 31	Order number: 51MP12WD2441 EAN: 4058352451489	LP number 59140_2
Table of values for luminous intensities		Maximum luminous intensity
		sITeco

C-planes	195°	210°	225°	240°	255°	270°	285°	300°	315°	330°	345°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm											Luminous flux in lm/klm	
0°	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	2.8	2.8
5°	466.2	466.1	466.2	466.6	466.3	466.3	466.3	466.6	466.2	466.1	466.2	22.3	25.1
10°	463.4	462.8	462.4	462.2	461.9	462.0	461.9	462.2	462.4	462.8	463.4	44.0	69.1
15°	458.3	457.0	456.4	456.0	454.8	454.1	454.8	456.0	456.4	457.0	458.3	64.8	133.9
20°	451.1	448.1	448.0	447.3	444.5	442.9	444.5	447.3	448.0	448.1	451.1	84.0	217.8
25°	439.9	435.6	434.8	432.8	428.8	426.6	428.8	432.8	434.8	435.6	439.9	100.6	318.5
30°	419.8	415.5	412.4	409.8	403.7	401.2	403.7	409.8	412.4	415.5	419.8	113.0	431.5
35°	373.1	366.4	364.0	363.5	349.4	342.7	349.4	363.5	364.0	366.4	373.1	114.2	545.7
40°	283.5	275.9	271.3	277.8	253.6	248.5	253.6	277.8	271.3	275.9	283.5	95.9	641.6
45°	212.7	181.1	206.2	235.8	190.3	162.7	190.3	235.8	206.2	181.1	212.7	79.5	721.1
50°	157.9	140.3	152.7	187.8	145.6	124.7	145.6	187.8	152.7	140.3	157.9	66.4	787.4
55°	123.9	116.2	117.5	115.8	116.5	102.8	116.5	115.8	117.5	116.2	123.9	53.2	840.6
60°	97.5	95.6	90.3	76.6	94.8	87.0	94.8	76.6	90.3	95.6	97.5	43.2	883.8
65°	74.8	81.2	73.3	60.6	73.9	75.7	73.9	60.6	73.3	81.2	74.8	36.2	920.0
70°	59.9	61.2	61.0	47.3	57.2	52.4	57.2	47.3	61.0	61.2	59.9	29.1	949.1
75°	47.8	40.5	47.7	37.2	43.6	42.6	43.6	37.2	47.7	40.5	47.8	22.7	971.8
80°	33.8	24.7	31.0	33.8	33.8	29.0	33.8	33.8	31.0	24.7	33.8	16.9	988.7
85°	19.9	16.6	20.6	21.2	22.6	19.0	22.6	21.2	20.6	16.6	19.9	10.9	999.7
90°	1.0	0.5	0.8	0.4	0.5	0.3	0.5	0.4	0.8	0.5	1.0	0.3	1000.0
95°	0.0	0.0	0.0	0.0	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	0.0	0.0	0.0	1000.0

Photometric test report

Family Apollon® 31	Order number: 51MP12WD2441 EAN: 4058352451489	LP number 59140_2
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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	15.5	17.0	15.8	17.4	17.7	15.0	16.6	15.4	16.9	17.2
	3H	16.6	18.0	16.9	18.3	18.6	16.2	17.6	16.6	17.9	18.3
	4H	17.1	18.4	17.5	18.8	19.1	16.8	18.1	17.2	18.4	18.8
	6H	17.7	18.9	18.1	19.3	19.7	17.4	18.6	17.8	18.9	19.3
	8H	18.0	19.1	18.4	19.5	19.9	17.6	18.8	18.0	19.1	19.5
	12H	18.3	19.3	18.7	19.7	20.1	17.9	19.0	18.4	19.4	19.8
4H	2H	15.9	17.2	16.3	17.6	18.0	15.5	16.8	15.9	17.2	17.5
	3H	17.3	18.4	17.7	18.8	19.2	16.8	17.9	17.3	18.3	18.7
	4H	18.0	19.0	18.4	19.4	19.8	17.6	18.5	18.0	19.0	19.4
	6H	18.8	19.6	19.2	20.1	20.5	18.4	19.2	18.8	19.7	20.1
	8H	19.2	19.9	19.6	20.4	20.9	18.8	19.6	19.2	20.0	20.5
	12H	19.5	20.2	20.0	20.7	21.2	19.2	19.9	19.7	20.3	20.8
8H	4H	18.3	19.1	18.8	19.5	20.0	17.9	18.7	18.4	19.2	19.6
	6H	19.2	19.8	19.6	20.3	20.8	19.0	19.6	19.5	20.1	20.6
	8H	19.6	20.2	20.1	20.7	21.2	19.5	20.1	20.0	20.6	21.1
	12H	20.2	20.6	20.7	21.1	21.7	20.1	20.6	20.6	21.1	21.6
12H	4H	18.4	19.1	18.9	19.5	20.0	18.0	18.7	18.5	19.1	19.6
	6H	19.3	19.8	19.8	20.3	20.8	19.1	19.6	19.6	20.1	20.7
	8H	19.8	20.3	20.3	20.8	21.3	19.7	20.2	20.2	20.7	21.2

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 553	B = 553
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C-planes	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°	330°
γ	Luminance in cd/m²											
45°	4535.6	3350.2	4361.0	3009.3	4361.0	3350.2	4535.6	3350.2	4361.0	3009.3	4361.0	3350.2
50°	4138.1	2854.7	3821.9	2536.9	3821.9	2854.7	4138.1	2854.7	3821.9	2536.9	3821.9	2854.7
55°	3152.6	2650.4	2640.4	2344.5	2640.4	2650.4	3152.6	2650.4	2640.4	2344.5	2640.4	2650.4
60°	2497.1	2500.0	2004.7	2276.5	2004.7	2500.0	2497.1	2500.0	2004.7	2276.5	2004.7	2500.0
65°	2183.2	2511.9	1875.9	2341.4	1875.9	2511.9	2183.2	2511.9	1875.9	2341.4	1875.9	2511.9
70°	2010.7	2339.9	1810.7	2002.7	1810.7	2339.9	2010.7	2339.9	1810.7	2002.7	1810.7	2339.9
75°	1988.3	2045.5	1877.9	2153.4	1877.9	2045.5	1988.3	2045.5	1877.9	2153.4	1877.9	2045.5
80°	2457.9	1857.1	2547.6	2183.1	2547.6	1857.1	2457.9	1857.1	2547.6	2183.1	2547.6	1857.1
85°	2937.9	2489.9	3175.5	2849.2	3175.5	2489.9	2937.9	2489.9	3175.5	2849.2	3175.5	2489.9

Photometric test report

Family Apollon® 31	Order number: 51MP12WD2441 EAN: 4058352451489	LP number 59140_2
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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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