

Photometric test report

Family
Apollon® 21

Order number: **51MQ14WD2T12**
EAN: **4058352390610**

LP number
59147_1



Version linear, direct distribution
Lamps LED 2700 K ... 6500 K | CRI ≥ 80
Controlgear ECG-DALI
Setting individual position: colour temperature 2700K
Rated values at 2700 K
Net luminous flux = 4200 lm
Power consumption = 44.0 W
Luminous efficacy = 95.5 lm/W

serial
documentation
23.03.2021

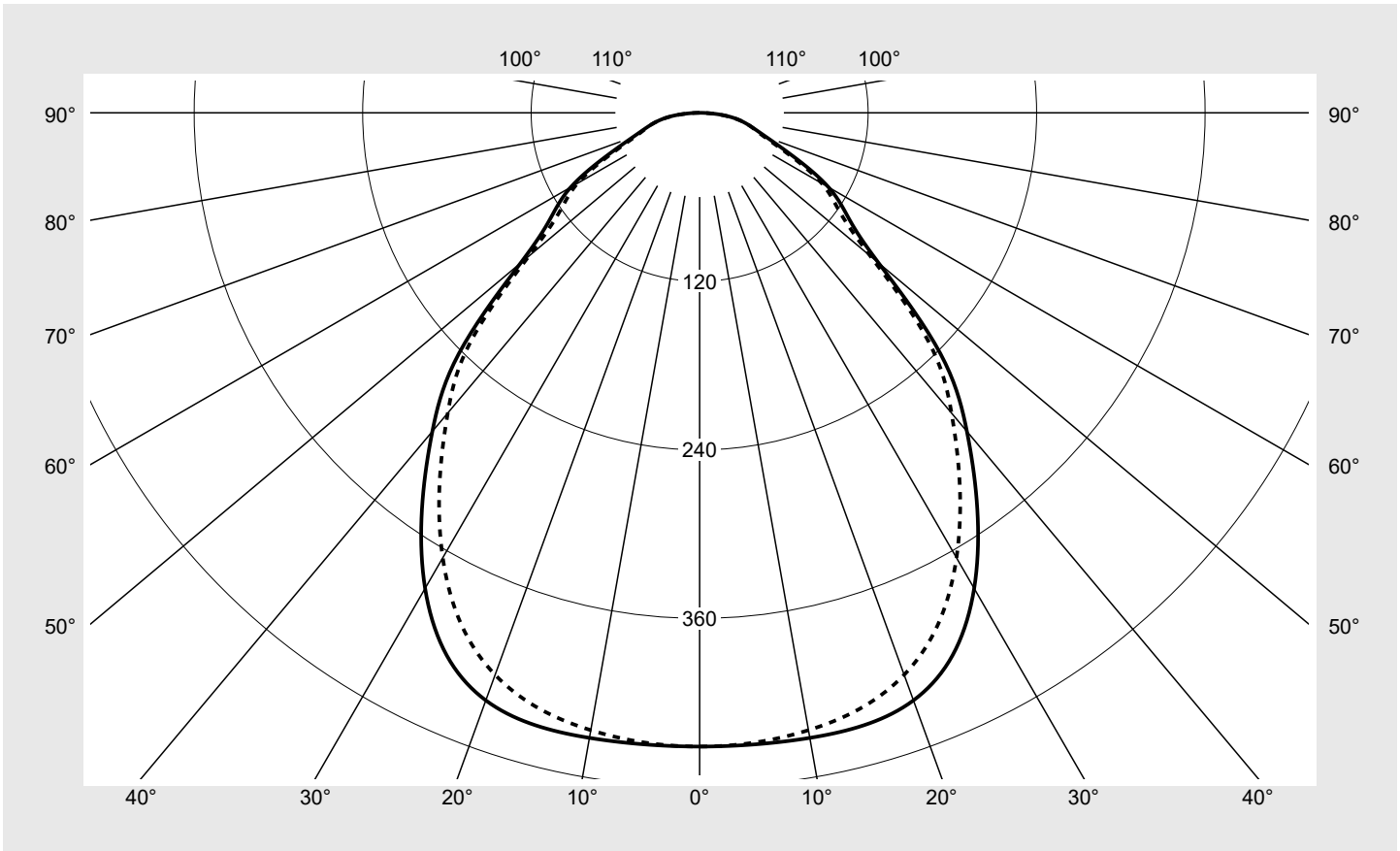
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 452 cd/klm



Classifications

DIN 5040 A 5 0
CIE N1=60 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
		siteco

C-planes	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
γ	Luminous intensity in cd/klm												
0°	451.3	451.3	451.3	451.3	451.3	451.3	451.3	451.3	451.3	451.3	451.3	451.3	451.3
5°	451.5	451.4	451.1	450.7	450.4	450.1	450.1	450.1	450.4	450.7	451.1	451.4	451.5
10°	452.0	451.4	450.4	448.9	447.6	446.6	446.4	446.6	447.6	448.9	450.4	451.4	452.0
15°	451.5	450.5	447.9	444.7	441.8	439.9	439.5	439.9	441.8	444.7	447.9	450.5	451.5
20°	445.3	443.4	439.0	434.1	429.5	426.6	425.9	426.6	429.5	434.1	439.0	443.4	445.3
25°	426.3	423.9	418.7	412.5	406.4	402.7	401.9	402.7	406.4	412.5	418.7	423.9	426.3
30°	391.1	389.6	385.6	379.6	372.6	367.7	365.9	367.7	372.6	379.6	385.6	389.6	391.1
35°	344.8	345.0	342.7	338.1	331.7	325.9	323.0	325.9	331.7	338.1	342.7	345.0	344.8
40°	296.1	296.9	296.0	292.0	288.1	282.3	279.1	282.3	288.1	292.0	296.0	296.9	296.1
45°	242.5	243.2	245.5	242.5	240.4	233.7	230.9	233.7	240.4	242.5	245.5	243.2	242.5
50°	166.5	183.0	191.3	188.4	187.7	176.6	158.7	176.6	187.7	188.4	191.3	183.0	166.5
55°	128.8	131.7	137.7	136.9	135.5	125.6	121.1	125.6	135.5	136.9	137.7	131.7	128.8
60°	106.0	91.0	98.2	98.7	97.2	86.3	100.4	86.3	97.2	98.7	98.2	91.0	106.0
65°	73.9	62.2	75.5	73.1	75.1	59.7	69.9	59.7	75.1	73.1	75.5	62.2	73.9
70°	50.6	50.8	57.5	55.3	57.1	49.2	48.1	49.2	57.1	55.3	57.5	50.8	50.6
75°	38.0	42.1	40.6	38.4	39.9	40.6	37.8	40.6	39.9	38.4	40.6	42.1	38.0
80°	27.9	26.8	29.3	30.1	29.5	25.8	27.8	25.8	29.5	30.1	29.3	26.8	27.9
85°	14.7	13.7	15.9	16.0	15.7	13.2	13.9	13.2	15.7	16.0	15.9	13.7	14.7
90°	0.6	0.6	0.5	0.5	0.4	0.3	0.2	0.3	0.4	0.5	0.5	0.6	0.6
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

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Table of values for luminous intensities		Maximum luminous intensity
		sITeCO

C-planes γ	195°	210°	225°	240°	255°	270°	285°	300°	315°	330°	345°	Phi-zone	Total Phi-zone
	Luminous intensity in cd/klm												
0°	451.3	451.3	451.3	451.3	451.3	451.3	451.3	451.3	451.3	451.3	451.3	2.7	2.7
5°	451.4	451.1	450.7	450.4	450.1	450.1	450.1	450.4	450.7	451.1	451.4	21.5	24.2
10°	451.4	450.4	448.9	447.6	446.6	446.4	446.6	447.6	448.9	450.4	451.4	42.7	67.0
15°	450.5	447.9	444.7	441.8	439.9	439.5	439.9	441.8	444.7	447.9	450.5	63.1	130.1
20°	443.4	439.0	434.1	429.5	426.6	425.9	426.6	429.5	434.1	439.0	443.4	81.5	211.6
25°	423.9	418.7	412.5	406.4	402.7	401.9	402.7	406.4	412.5	418.7	423.9	95.7	307.3
30°	389.6	385.6	379.6	372.6	367.7	365.9	367.7	372.6	379.6	385.6	389.6	103.9	411.1
35°	345.0	342.7	338.1	331.7	325.9	323.0	325.9	331.7	338.1	342.7	345.0	105.7	516.8
40°	296.9	296.0	292.0	288.1	282.3	279.1	282.3	288.1	292.0	296.0	296.9	102.4	619.2
45°	243.2	245.5	242.5	240.4	233.7	230.9	233.7	240.4	242.5	245.5	243.2	93.1	712.3
50°	183.0	191.3	188.4	187.7	176.6	158.7	176.6	187.7	188.4	191.3	183.0	76.3	788.6
55°	131.7	137.7	136.9	135.5	125.6	121.1	125.6	135.5	136.9	137.7	131.7	59.3	847.9
60°	91.0	98.2	98.7	97.2	86.3	100.4	86.3	97.2	98.7	98.2	91.0	45.5	893.3
65°	62.2	75.5	73.1	75.1	59.7	69.9	59.7	75.1	73.1	75.5	62.2	34.6	927.9
70°	50.8	57.5	55.3	57.1	49.2	48.1	49.2	57.1	55.3	57.5	50.8	27.4	955.3
75°	42.1	40.6	38.4	39.9	40.6	37.8	40.6	39.9	38.4	40.6	42.1	21.1	976.5
80°	26.8	29.3	30.1	29.5	25.8	27.8	25.8	29.5	30.1	29.3	26.8	15.2	991.7
85°	13.7	15.9	16.0	15.7	13.2	13.9	13.2	15.7	16.0	15.9	13.7	8.1	999.8
90°	0.6	0.5	0.5	0.4	0.3	0.2	0.3	0.4	0.5	0.5	0.6	0.2	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

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UGR-Table		Standard room									
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	15.9	17.5	16.3	17.8	18.1	15.7	17.2	16.0	17.5	17.8
	3H	16.7	18.1	17.1	18.4	18.8	16.4	17.8	16.8	18.2	18.5
	4H	17.1	18.4	17.5	18.8	19.2	16.9	18.2	17.3	18.5	18.9
	6H	17.6	18.8	18.0	19.1	19.5	17.3	18.5	17.8	18.9	19.3
	8H	17.8	18.9	18.2	19.3	19.7	17.6	18.7	18.0	19.1	19.5
	12H	18.0	19.0	18.4	19.4	19.8	17.8	18.8	18.2	19.2	19.6
4H	2H	16.3	17.6	16.7	18.0	18.4	16.1	17.5	16.5	17.8	18.2
	3H	17.4	18.5	17.8	18.9	19.3	17.2	18.3	17.6	18.7	19.1
	4H	18.0	19.0	18.4	19.4	19.8	17.8	18.8	18.2	19.2	19.6
	6H	18.6	19.4	19.0	19.8	20.3	18.4	19.2	18.8	19.7	20.1
	8H	18.8	19.6	19.3	20.0	20.5	18.6	19.4	19.1	19.9	20.3
	12H	19.1	19.7	19.5	20.2	20.7	18.9	19.5	19.3	20.0	20.5
8H	4H	18.2	19.0	18.7	19.5	19.9	18.1	18.9	18.5	19.3	19.8
	6H	19.0	19.7	19.5	20.1	20.6	18.8	19.5	19.3	20.0	20.5
	8H	19.4	19.9	19.9	20.4	20.9	19.2	19.8	19.7	20.3	20.8
	12H	19.7	20.1	20.2	20.6	21.2	19.5	20.0	20.0	20.5	21.0
12H	4H	18.3	19.0	18.8	19.5	19.9	18.1	18.8	18.6	19.3	19.8
	6H	19.1	19.7	19.6	20.2	20.7	19.0	19.5	19.5	20.0	20.5
	8H	19.5	20.0	20.0	20.5	21.0	19.4	19.9	19.9	20.4	20.9

Luminance table		Max. for $\gamma \geq 65^\circ$										Photometric dimensions in mm:		L = 1198 B = 260		
C-planes	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°	330°				
γ	Luminance in cd/m ²															
45°	4624.7	4680.9	4584.0	4402.4	4584.0	4680.9	4624.7	4680.9	4584.0	4402.4	4584.0	4680.9				
50°	3491.7	4012.4	3938.4	3330.1	3938.4	4012.4	3491.7	4012.4	3938.4	3330.1	3938.4	4012.4				
55°	3028.2	3236.4	3184.9	2846.7	3184.9	3236.4	3028.2	3236.4	3184.9	2846.7	3184.9	3236.4				
60°	2859.0	2649.4	2620.7	2708.5	2620.7	2649.4	2859.0	2649.4	2620.7	2708.5	2620.7	2649.4				
65°	2356.9	2407.3	2394.9	2230.0	2394.9	2407.3	2356.9	2407.3	2394.9	2230.0	2394.9	2407.3				
70°	1995.6	2266.5	2250.3	1897.7	2250.3	2266.5	1995.6	2266.5	2250.3	1897.7	2250.3	2266.5				
75°	1981.6	2113.2	2080.3	1968.6	2080.3	2113.2	1981.6	2113.2	2080.3	1968.6	2080.3	2113.2				
80°	2167.9	2272.9	2290.0	2159.3	2290.0	2272.9	2167.9	2272.9	2290.0	2159.3	2290.0	2272.9				
85°	2270.5	2459.6	2422.3	2149.6	2422.3	2459.6	2270.5	2459.6	2422.3	2149.6	2422.3	2459.6				

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59147_1

Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

