

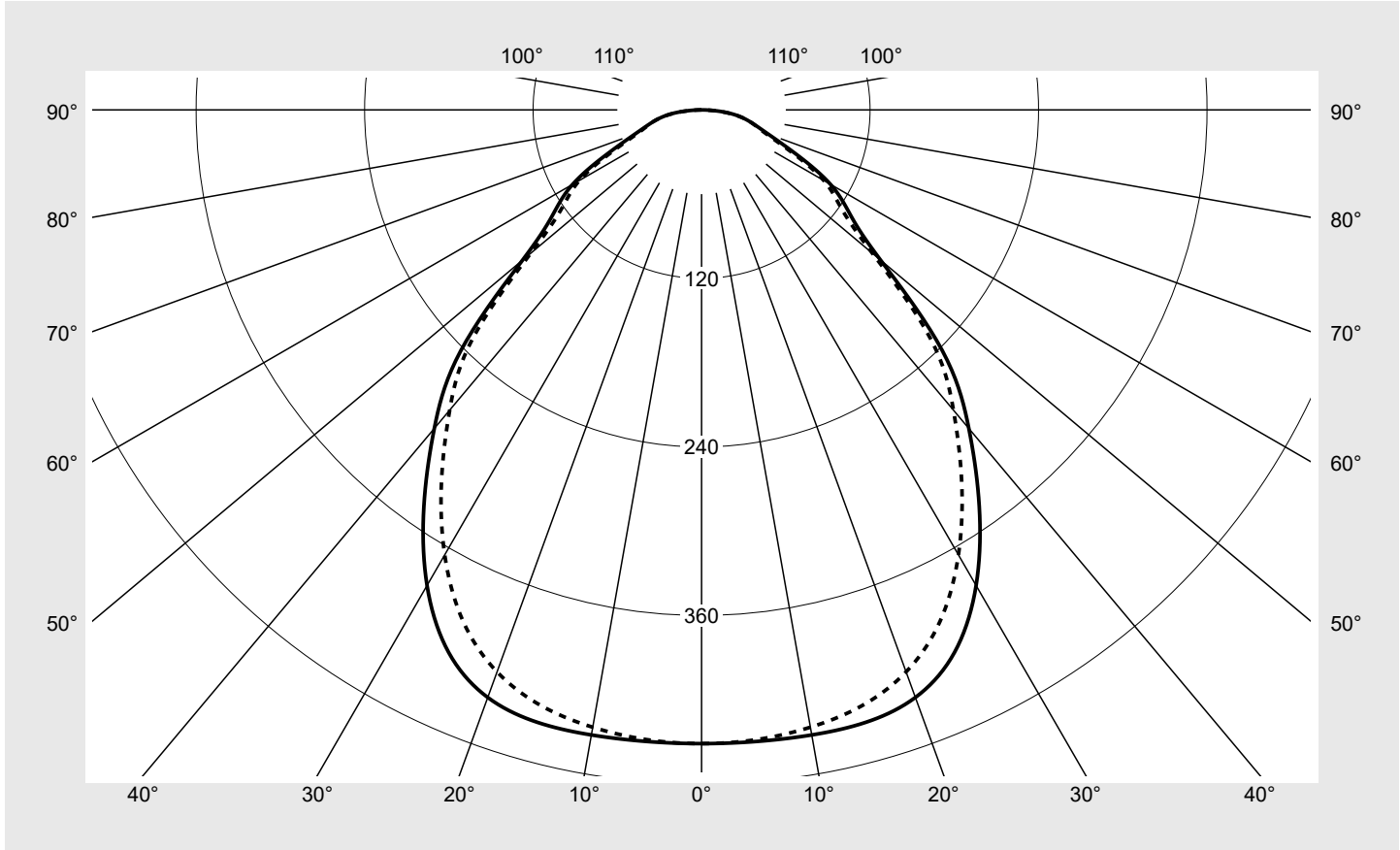


# Photometric test report

<b>Family</b> <b>Apollon® 21</b>	<b>Order number: 51MQ14WD2T12</b> <b>EAN: 4058352390610</b>	<b>LP number</b> <b>59147_2</b>
	<b>Version</b> linear, direct distribution <b>Lamps</b> LED 2700 K ... 6500 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Setting</b> individual position: colour temperature 6500K <b>Rated values</b> at 6500 K Net luminous flux = 4200 lm Power consumption = 44.0 W Luminous efficacy = 95.5 lm/W	serial documentation 23.03.2021
		

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	
$\eta_{LB}$	100.0%
$\phi_u$	100.0%
$\phi_o$	0.0%

**Measurement conditions**  
 DIN EN 13032 and DIN 5032

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
$\gamma$	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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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>sITeCO</b>

C-planes $\gamma$	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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Family <b>Apollon® 21</b>	Order number: <b>51MQ14WD2T12</b> EAN: <b>4058352390610</b>	LP number <b>59147_2</b>
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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

C-planes	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°	330°	Photometric dimensions in mm:		
													L = 1198	B = 260	
														Max. for $\gamma \geq 65^\circ$	
														Luminance in cd/m <sup>2</sup>	
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			

**Photometric test report**

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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°

