

## Photometric test report

Family  
**ARKTIKA-P DUO**

Order number: **5MB252DL60830**  
EAN: **4052899488830**

LP number  
**57553\_17**



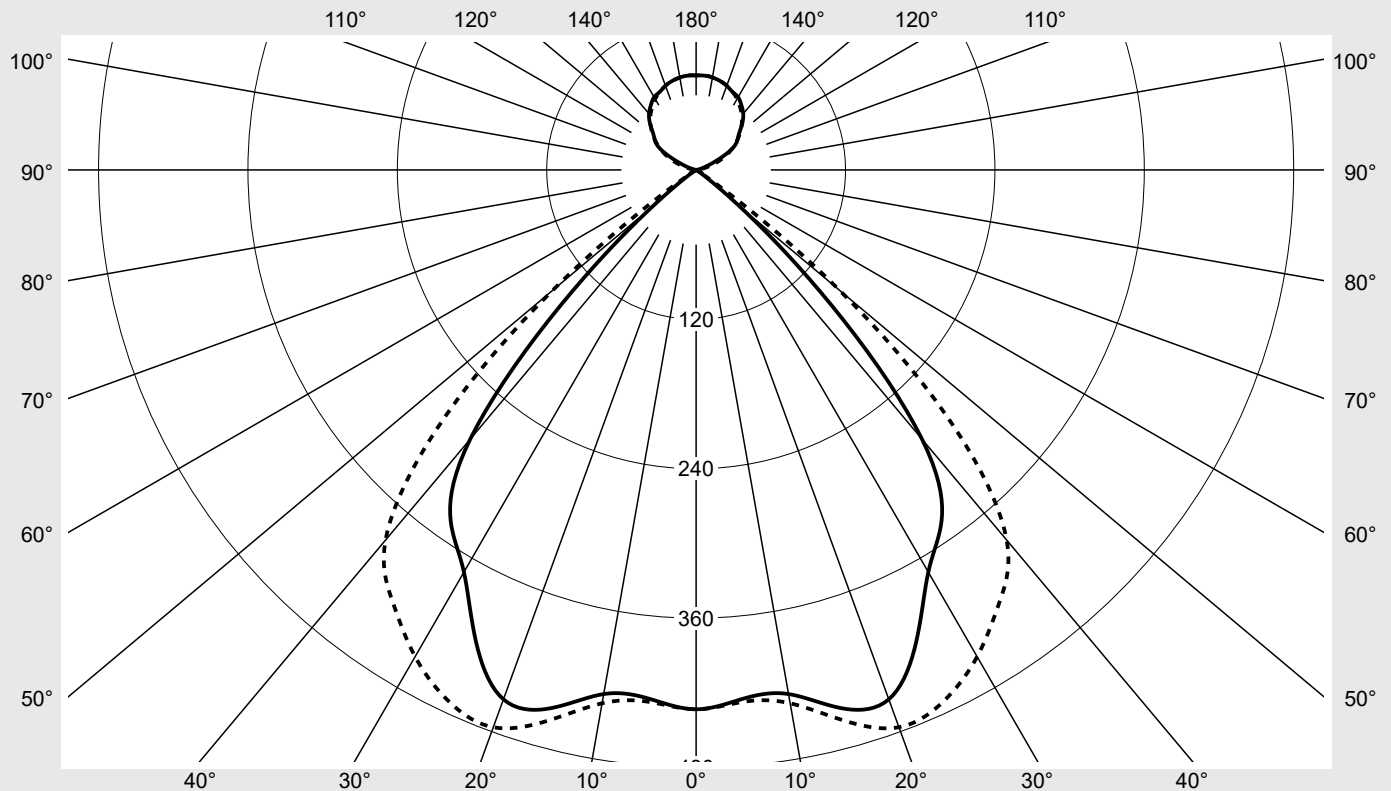
<b>Version</b>	LED suspended design luminaire, direct-/indirect distribution, CAT2 ( $L \leq 1500 \text{cd/m}^2$ ), $UGR \leq 19$
<b>Lamps</b>	1 x LED 3000K / CRI $\geq 80$ (unbekannt LED 3000K / CRI = 80)
<b>Controlgear</b>	ECG-DALI
<b>Rated values</b>	Net luminous flux = 8100 lm Power consumption = 66.5 W Luminous efficacy = 121.8 lm/W

serial  
documentation  
**09.03.2018**

siteco

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

Imax: **476 cd/klm**



### Classifications

DIN 5040 B 6 3  
CIE N1=81 N2=100 N3=100  
N4=79 N5=100

### Luminaire light output ratios

$\eta_{LB}$  100.0%  
 $\phi_u$  79.5%  
 $\phi_o$  20.5%

### 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 $\gamma$	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Luminous intensity in cd/klm								Luminous flux in lm/klm	
0°	433.2	433.2	433.2	433.2	433.2	433.2	433.2	2.6	2.6
5°	426.5	426.5	425.6	424.9	426.0	427.6	428.9	20.4	23.0
10°	427.5	430.0	429.8	426.0	426.2	431.8	435.0	40.8	63.8
15°	447.4	451.3	453.4	445.5	441.3	450.6	457.8	63.7	127.5
20°	452.5	460.9	467.2	454.3	449.2	462.2	476.4	86.2	213.7
25°	418.3	437.4	458.1	443.9	433.1	453.2	470.7	103.1	316.8
30°	373.0	397.8	433.1	420.3	405.2	426.2	451.4	114.0	430.8
35°	343.8	363.2	401.3	393.2	375.2	394.5	424.5	121.1	551.9
40°	282.3	305.4	358.1	342.0	310.9	340.1	388.1	117.0	668.8
45°	154.3	174.8	244.7	219.6	179.2	221.3	295.4	81.7	750.5
50°	46.0	61.9	112.4	83.5	55.1	89.1	150.3	35.0	785.5
55°	5.8	7.4	20.8	13.9	7.5	12.1	21.8	5.7	791.2
60°	5.2	2.7	2.7	3.0	6.0	3.0	2.7	1.7	792.9
65°	1.4	1.4	1.2	1.4	1.5	1.4	1.3	0.7	793.5
70°	0.9	0.9	0.8	1.0	1.1	1.0	0.9	0.5	794.0
75°	0.6	0.6	0.6	0.7	0.8	0.7	0.7	0.3	794.4
80°	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.2	794.6
85°	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.2	794.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	794.8
95°	0.6	0.6	0.7	1.0	1.3	1.4	1.2	0.5	795.3
100°	1.7	1.8	2.3	3.2	4.2	4.4	4.1	1.7	797.0
105°	4.0	4.5	5.6	7.7	9.2	9.9	9.9	3.9	800.9
110°	9.4	9.9	12.4	15.0	16.3	17.3	17.3	7.2	808.1
115°	19.2	20.5	22.7	23.6	24.4	25.0	25.3	11.5	819.6
120°	32.5	32.4	32.1	30.8	32.6	32.1	32.7	15.2	834.8
125°	40.2	39.3	37.8	38.7	39.3	39.0	39.6	17.5	852.3
130°	44.9	44.7	45.1	46.2	45.5	45.6	45.9	19.1	871.4
135°	52.3	52.1	52.4	51.7	51.4	51.3	51.8	20.1	891.5
140°	58.9	58.2	57.5	57.0	56.6	56.5	57.1	20.2	911.7
145°	63.4	62.9	62.2	61.6	60.9	61.1	61.6	19.4	931.1
150°	67.4	66.7	65.6	64.6	65.1	65.4	65.8	18.0	949.1
155°	69.2	68.5	68.0	68.2	68.6	68.9	69.2	15.9	965.0
160°	72.0	71.4	71.0	71.1	71.3	71.7	71.9	13.4	978.4
165°	74.0	73.5	73.1	73.2	73.4	73.8	74.0	10.4	988.8
170°	75.4	74.8	74.4	74.6	74.9	75.2	75.4	7.1	995.9
175°	76.0	75.6	75.2	75.4	75.7	76.1	76.3	3.6	999.5
180°	75.9	75.9	75.9	75.9	75.9	75.9	75.9	0.5	1000.0

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<b>Family</b> ARCTIKA-P DUO	<b>Order number: 5MB252DL60830</b> <b>EAN: 4052899488830</b>	<b>LP number</b> 57553_17
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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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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	19.0	20.0	19.6	20.7	21.4	19.5	20.6	20.2	21.2	22.0
	3H	18.8	19.7	19.4	20.3	21.1	19.3	20.2	20.0	20.9	21.7
	4H	18.7	19.5	19.4	20.2	21.0	19.2	20.1	19.9	20.8	21.5
	6H	18.6	19.4	19.3	20.1	20.9	19.1	19.9	19.8	20.6	21.4
	8H	18.5	19.2	19.3	19.9	20.8	19.1	19.7	19.8	20.5	21.3
	12H	18.5	19.1	19.2	19.9	20.7	19.0	19.7	19.8	20.4	21.2
4H	2H	18.7	19.5	19.4	20.2	21.0	19.2	20.1	19.9	20.8	21.6
	3H	18.5	19.2	19.2	19.9	20.7	19.0	19.7	19.8	20.4	21.3
	4H	18.4	19.0	19.1	19.7	20.6	18.9	19.6	19.7	20.3	21.1
	6H	18.3	18.8	19.0	19.6	20.4	18.8	19.4	19.6	20.1	21.0
	8H	18.2	18.7	19.0	19.4	20.3	18.7	19.2	19.5	20.0	20.9
	12H	18.2	18.6	18.9	19.3	20.3	18.7	19.1	19.5	19.9	20.8
8H	4H	18.2	18.7	19.0	19.4	20.3	18.7	19.2	19.5	20.0	20.9
	6H	18.1	18.4	18.9	19.2	20.2	18.6	19.0	19.4	19.8	20.7
	8H	18.0	18.4	18.8	19.1	20.1	18.6	18.9	19.4	19.7	20.6
	12H	18.0	18.3	18.8	19.1	20.0	18.5	18.8	19.3	19.6	20.6
12H	4H	18.2	18.6	18.9	19.3	20.3	18.7	19.1	19.5	19.9	20.8
	6H	18.1	18.4	18.8	19.2	20.1	18.6	18.9	19.4	19.7	20.6
	8H	18.0	18.3	18.8	19.1	20.0	18.5	18.8	19.3	19.6	20.6

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 2100</b> <b>B = 39</b>
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C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		21583.6	24454.3	34219.8	30708.3	25061.1	30949.6	41316.2	
50°		7076.8	9525.6	17288.6	12840.0	8480.5	13707.8	23119.1	
55°		1001.5	1274.6	3590.0	2405.0	1295.5	2086.6	3759.6	
60°		1034.3	537.0	533.1	591.8	1190.2	595.8	543.8	
65°		334.2	320.1	283.9	324.8	351.7	329.5	312.2	
70°		268.9	264.9	239.7	280.5	308.0	280.5	272.7	
75°		221.3	223.9	213.6	257.6	288.5	267.9	267.9	
80°		199.3	199.3	207.3	256.9	303.0	291.6	299.6	
85°		229.2	275.7	321.1	405.1	505.0	489.1	397.2	

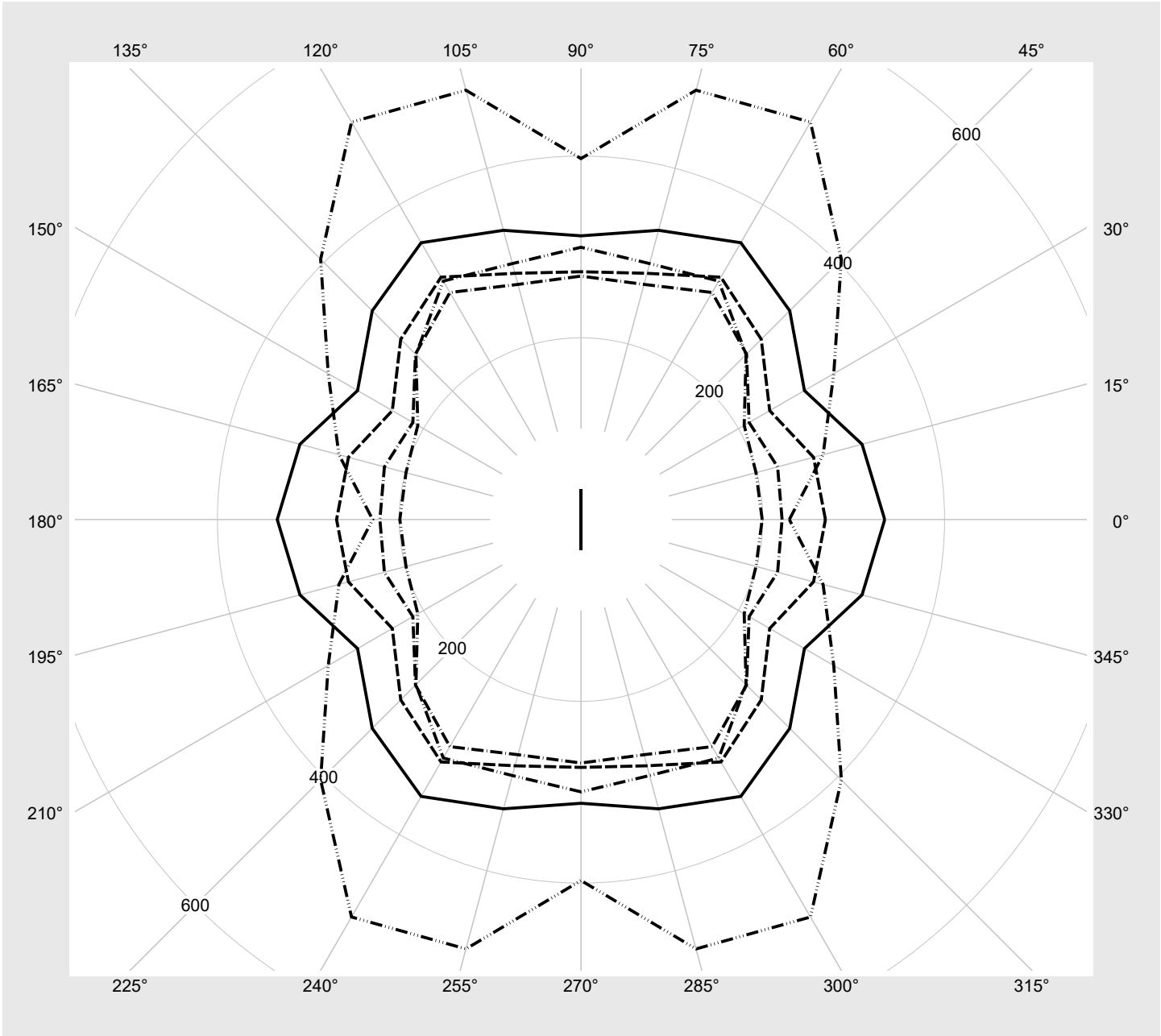
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**Luminance values in cd/m<sup>2</sup>**

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



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<b>Dimming levels table</b>	environmental temperature: 25°C	<b>sITeco</b>
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	8100	66.5
95	241	252	7692	63.1
90	228	250	7287	59.7
85	215	248	6882	56.4
80	202	246	6478	53.1
75	189	243	6073	49.7
70	177	241	5668	46.6
65	164	238	5263	43.4
60	152	235	4858	40.3
55	139	232	4453	37.1
50	127	228	4049	34.1
45	114	224	3644	31.2
40	102	220	3239	28.1
35	90	215	2834	25.2
30	78	210	2429	22.4
25	66	203	2024	19.4
20	53	195	1619	16.5
15	40	184	1215	14.0
10	27	169	810	11.0
5	13	144	405	7.7