

Photometric test report

Family
ARKTIKA-P DUO

Order number: **5MB252DL60840**
EAN: **4052899488847**

LP number
57553_19



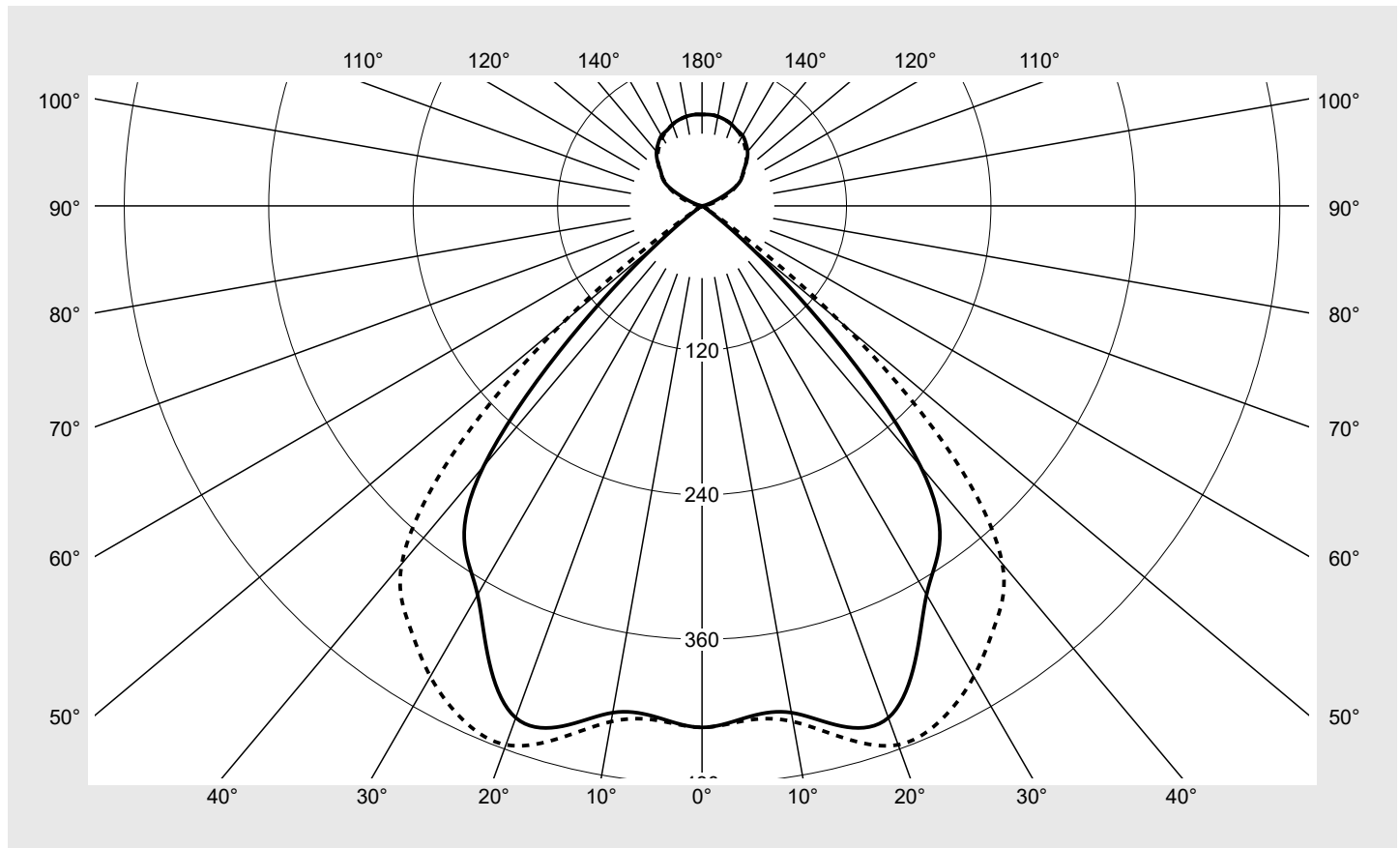
Version	LED suspended design luminaire, direct-/ indirect distribution, CAT2 ($L \leq 1500 \text{cd/m}^2$), $UGR \leq 19$
Lamps	1 x LED 4000K / CRI ≥ 80 (unbekannt LED 4000K / CRI = 80)
Controlgear	ECG-DALI
Rated values	Net luminous flux = 8800 lm Power consumption = 66.5 W Luminous efficacy = 132.3 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

η_{LB} 100.0%
 ϕ_u 79.5%
 ϕ_o 20.5%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
		sITeco

C-planes γ	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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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	19.3	20.3	19.9	21.0	21.7	19.8	20.9	20.5	21.5	22.2
	3H	19.0	20.0	19.7	20.6	21.4	19.6	20.5	20.3	21.2	22.0
	4H	19.0	19.8	19.7	20.5	21.3	19.5	20.4	20.2	21.0	21.8
	6H	18.9	19.7	19.6	20.3	21.2	19.4	20.2	20.1	20.9	21.7
	8H	18.8	19.5	19.5	20.2	21.1	19.4	20.0	20.1	20.7	21.6
	12H	18.8	19.4	19.5	20.1	21.0	19.3	20.0	20.0	20.7	21.5
4H	2H	19.0	19.8	19.7	20.5	21.3	19.5	20.4	20.2	21.1	21.9
	3H	18.8	19.5	19.5	20.2	21.0	19.3	20.0	20.0	20.7	21.6
	4H	18.7	19.3	19.4	20.0	20.9	19.2	19.8	20.0	20.6	21.4
	6H	18.6	19.1	19.3	19.9	20.7	19.1	19.7	19.9	20.4	21.3
	8H	18.5	19.0	19.2	19.7	20.6	19.0	19.5	19.8	20.3	21.2
	12H	18.5	18.9	19.2	19.6	20.5	19.0	19.4	19.8	20.2	21.1
8H	4H	18.5	19.0	19.3	19.7	20.6	19.0	19.5	19.8	20.3	21.2
	6H	18.3	18.7	19.1	19.5	20.4	18.9	19.3	19.7	20.1	21.0
	8H	18.3	18.7	19.1	19.4	20.4	18.9	19.2	19.7	20.0	20.9
	12H	18.3	18.6	19.1	19.4	20.3	18.8	19.1	19.6	19.9	20.9
12H	4H	18.5	18.9	19.2	19.6	20.5	19.0	19.4	19.8	20.2	21.1
	6H	18.3	18.7	19.1	19.4	20.4	18.9	19.2	19.7	20.0	20.9
	8H	18.3	18.6	19.1	19.4	20.3	18.8	19.1	19.6	19.9	20.9

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 2100
			B = 39

C-planes	γ	Luminance in cd/m ²							
		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°		23448.9	26567.6	37177.1	33362.1	27226.9	33624.2	44886.8	
50°		7688.3	10348.8	18782.7	13949.6	9213.3	14892.4	25117.1	
55°		1088.0	1384.7	3900.2	2612.9	1407.4	2266.9	4084.5	
60°		1123.7	583.4	579.1	643.0	1293.0	647.3	590.7	
65°		363.1	347.8	308.4	352.9	382.1	358.0	339.2	
70°		292.2	287.8	260.4	304.7	334.6	304.7	296.3	
75°		240.4	243.3	232.1	279.8	313.4	291.0	291.0	
80°		216.6	216.6	225.2	279.1	329.2	316.8	325.5	
85°		249.0	299.6	348.9	440.1	548.6	531.3	431.5	

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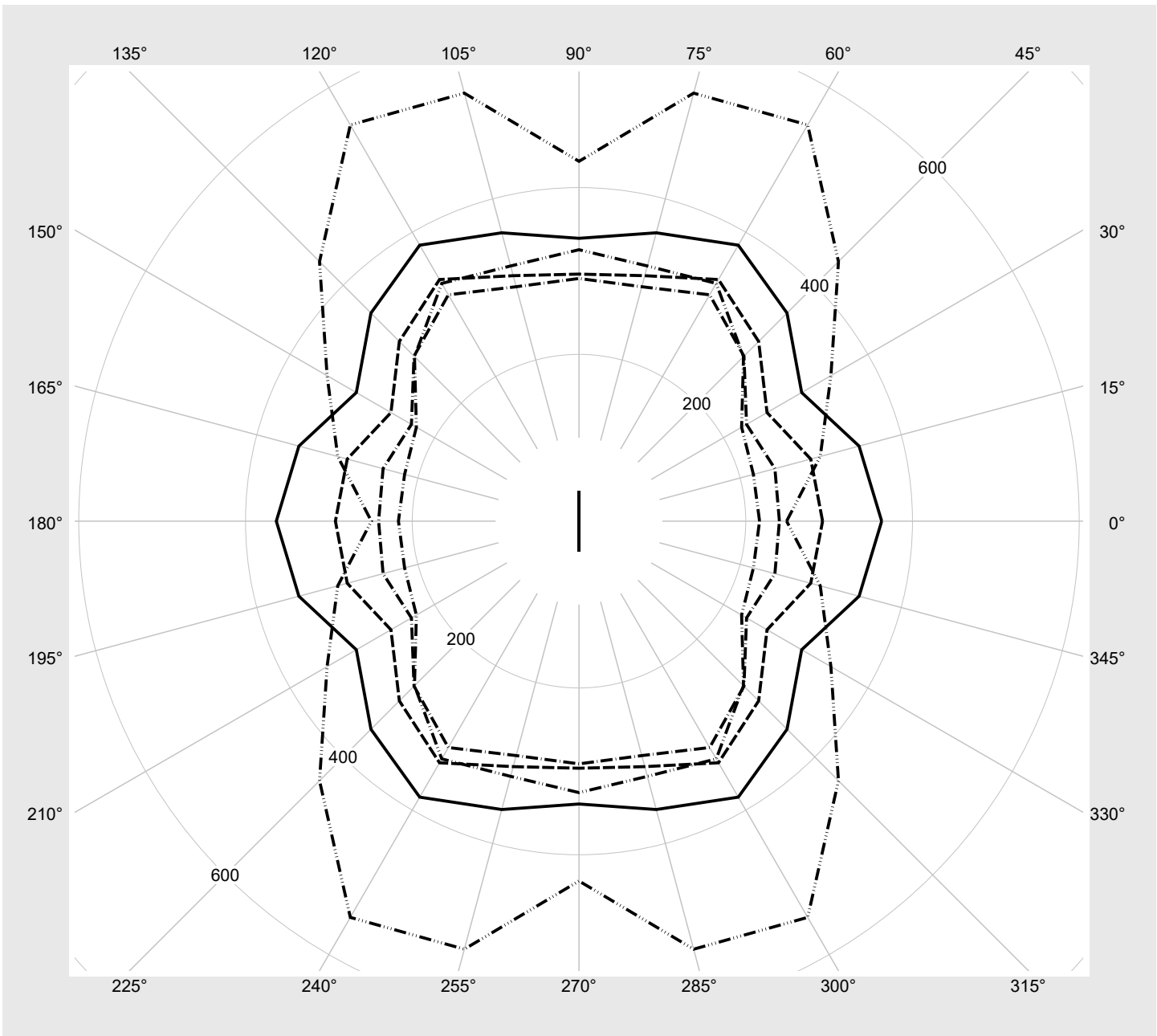
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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Dimming levels table	environmental temperature: 25°C	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	8800	66.5
95	241	252	8358	63.1
90	228	250	7918	59.7
85	215	248	7478	56.4
80	202	246	7038	53.1
75	189	243	6599	49.7
70	177	241	6159	46.6
65	164	238	5719	43.4
60	152	235	5279	40.3
55	139	232	4839	37.1
50	127	228	4399	34.1
45	114	224	3959	31.2
40	102	220	3519	28.1
35	90	215	3079	25.2
30	78	210	2639	22.4
25	66	203	2200	19.4
20	53	195	1760	16.5
15	40	184	1320	14.0
10	27	169	880	11.0
5	13	144	440	7.7