

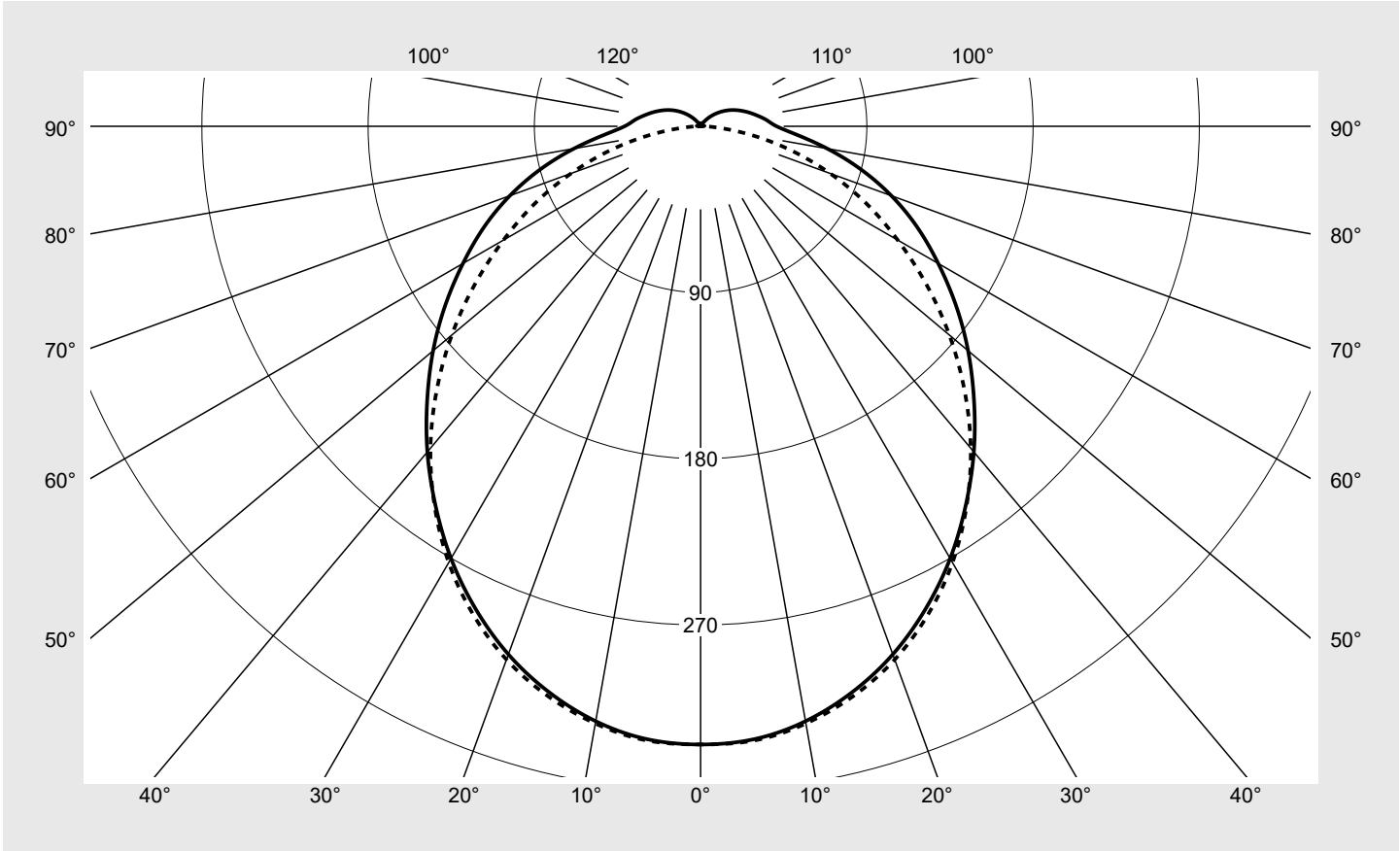


# Photometric test report

<b>Family</b> <b>Monsun® 21</b>	<b>Order number: 51FB10DL420K</b> <b>EAN: 4069025131522</b>	<b>LP number</b> <b>59393_16</b>
	<b>Version</b> prismatic diffuser, opal, PMMA, extremely wide distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 2630 lm Power consumption = 15.4 W Luminous efficacy = 170.8 lm/W	<b>serial documentation</b> <b>08.05.2024</b>
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 335 cd/klm**



Classifications	
DIN 5040	A 4 1
CIE	N1=46 N2=76 N3=93 N4=94 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	93.9%
$\phi_o$	6.1%

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

## Photometric test report

<b>Family</b> <b>Monsun® 21</b>	<b>Order number: 51FB10DL420K</b> <b>EAN: 4069025131522</b>	<b>LP number</b> <b>59393_16</b>
<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°	334.7	334.7	334.7	334.7	334.7	334.7	334.7	2.0	2.0
5°	333.1	333.6	331.1	331.9	332.7	333.2	333.8	15.9	17.9
10°	327.1	327.9	325.6	326.0	327.2	327.9	328.3	31.1	49.0
15°	317.2	318.4	316.4	316.9	317.9	318.6	319.4	45.1	94.1
20°	304.3	305.5	304.0	304.0	305.5	306.0	307.3	57.2	151.3
25°	288.3	289.5	288.3	288.0	289.4	289.8	291.5	67.0	218.3
30°	270.2	271.6	270.4	269.7	270.4	271.0	272.7	74.2	292.5
35°	250.3	251.6	250.4	249.2	249.0	249.3	251.0	78.6	371.1
40°	230.1	230.9	229.3	227.2	226.1	225.6	227.5	80.3	451.4
45°	209.3	209.8	207.4	204.4	202.0	200.5	202.0	79.4	530.9
50°	189.0	188.7	186.0	181.6	177.7	174.7	175.8	76.4	607.2
55°	168.7	168.2	164.8	159.1	153.5	149.2	149.2	71.4	678.6
60°	148.6	147.7	143.7	136.7	130.2	124.3	123.2	64.8	743.4
65°	129.5	127.8	123.0	114.9	108.3	100.8	99.1	57.1	800.4
70°	109.9	108.0	102.2	93.4	85.8	77.4	74.6	48.0	848.4
75°	89.7	87.9	81.7	72.5	63.8	55.3	51.1	38.1	886.5
80°	69.6	67.6	61.9	52.4	43.1	34.0	28.9	27.7	914.2
85°	52.2	49.9	44.6	35.4	25.7	16.3	10.6	18.5	932.7
90°	41.2	39.2	34.0	25.7	16.3	7.4	2.3	13.2	945.9
95°	36.2	34.5	30.1	22.6	13.9	5.6	2.0	11.4	957.3
100°	31.8	30.4	26.2	19.4	11.5	4.0	1.7	9.7	967.1
105°	27.9	26.5	22.5	16.5	9.2	2.5	1.5	8.1	975.2
110°	24.2	22.6	19.2	13.5	6.9	1.5	1.3	6.6	981.8
115°	20.8	19.1	16.0	10.8	4.9	1.4	1.2	5.2	987.0
120°	17.3	15.9	12.9	8.1	3.1	1.3	1.2	4.0	991.0
125°	13.9	12.5	9.8	5.6	1.6	1.3	1.1	2.9	993.8
130°	10.5	9.4	7.0	3.5	1.5	1.3	1.1	2.0	995.8
135°	7.3	6.4	4.4	1.9	1.5	1.2	1.0	1.3	997.1
140°	4.5	3.8	2.3	1.7	1.5	1.2	1.1	0.8	997.9
145°	2.3	2.1	1.9	1.7	1.5	1.3	1.2	0.5	998.4
150°	2.0	2.0	1.9	1.7	1.5	1.4	1.3	0.5	998.9
155°	1.9	1.9	1.8	1.7	1.5	1.4	1.4	0.4	999.3
160°	1.8	1.8	1.7	1.6	1.5	1.5	1.4	0.3	999.6
165°	1.7	1.7	1.6	1.5	1.5	1.5	1.4	0.2	999.8
170°	1.5	1.5	1.5	1.5	1.5	1.5	1.4	0.1	999.9
175°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.1	1000.0
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0	1000.0

## Photometric test report

<b>Family</b> Monsun® 21	<b>Order number: 51FB10DL420K</b> <b>EAN: 4069025131522</b>	<b>LP number</b> 59393_16
-----------------------------	--	------------------------------

<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
------------------	----------------------	---------------

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	18.0	19.7	18.4	20.0	20.4	17.8	19.5	18.2	19.9	20.2
	3H	19.8	21.4	20.2	21.7	22.1	19.3	20.9	19.7	21.2	21.6
	4H	20.7	22.1	21.1	22.5	22.8	19.9	21.4	20.3	21.7	22.1
	6H	21.4	22.8	21.8	23.1	23.5	20.3	21.7	20.7	22.0	22.4
	8H	21.8	23.0	22.2	23.4	23.8	20.4	21.7	20.8	22.1	22.5
	12H	22.1	23.3	22.5	23.7	24.1	20.5	21.7	20.9	22.1	22.5
4H	2H	18.7	20.2	19.1	20.5	20.9	18.6	20.1	19.0	20.4	20.8
	3H	20.7	22.0	21.2	22.4	22.8	20.3	21.5	20.7	21.9	22.3
	4H	21.7	22.9	22.2	23.3	23.7	21.0	22.1	21.4	22.5	22.9
	6H	22.6	23.6	23.1	24.0	24.5	21.5	22.5	21.9	22.9	23.4
	8H	23.0	23.9	23.5	24.4	24.9	21.6	22.6	22.1	23.0	23.5
	12H	23.4	24.2	23.9	24.7	25.2	21.7	22.6	22.2	23.0	23.5
8H	4H	22.0	23.0	22.5	23.4	23.9	21.4	22.3	21.8	22.7	23.2
	6H	23.1	23.9	23.6	24.4	24.9	22.0	22.8	22.5	23.3	23.8
	8H	23.6	24.3	24.1	24.8	25.3	22.3	23.0	22.8	23.4	24.0
	12H	24.2	24.8	24.7	25.2	25.8	22.4	23.0	22.9	23.5	24.0
12H	4H	22.1	22.9	22.6	23.4	23.9	21.5	22.3	22.0	22.8	23.2
	6H	23.2	23.9	23.7	24.4	24.9	22.2	22.9	22.7	23.3	23.9
	8H	23.8	24.4	24.3	24.9	25.4	22.5	23.1	23.0	23.6	24.1

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1299</b>	<b>H(C0) = 21</b>	<b>H(C180) = 21</b>
			<b>B = 87</b>	<b>H(C90) = 21</b>	<b>H(C270) = 21</b>

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°		5549.1	5579.8	5609.4	5689.5	5858.4	6121.2	6543.0		
50°		5314.9	5325.9	5349.3	5403.1	5545.2	5786.4	6244.7		
55°		5089.4	5098.2	5102.6	5122.8	5222.4	5447.5	5916.9		
60°		4876.1	4871.6	4858.9	4837.8	4914.9	5094.5	5579.0		
65°		4698.0	4665.0	4622.3	4548.2	4625.1	4755.6	5273.4		
70°		4495.9	4447.4	4353.5	4234.3	4259.0	4333.9	4861.6		
75°		4241.3	4189.3	4057.1	3880.7	3819.6	3850.8	4334.8		
80°		3939.4	3864.3	3715.7	3453.4	3274.8	3154.1	3547.5		
85°		3706.5	3589.7	3422.6	3063.9	2704.5	2299.4	2397.0		

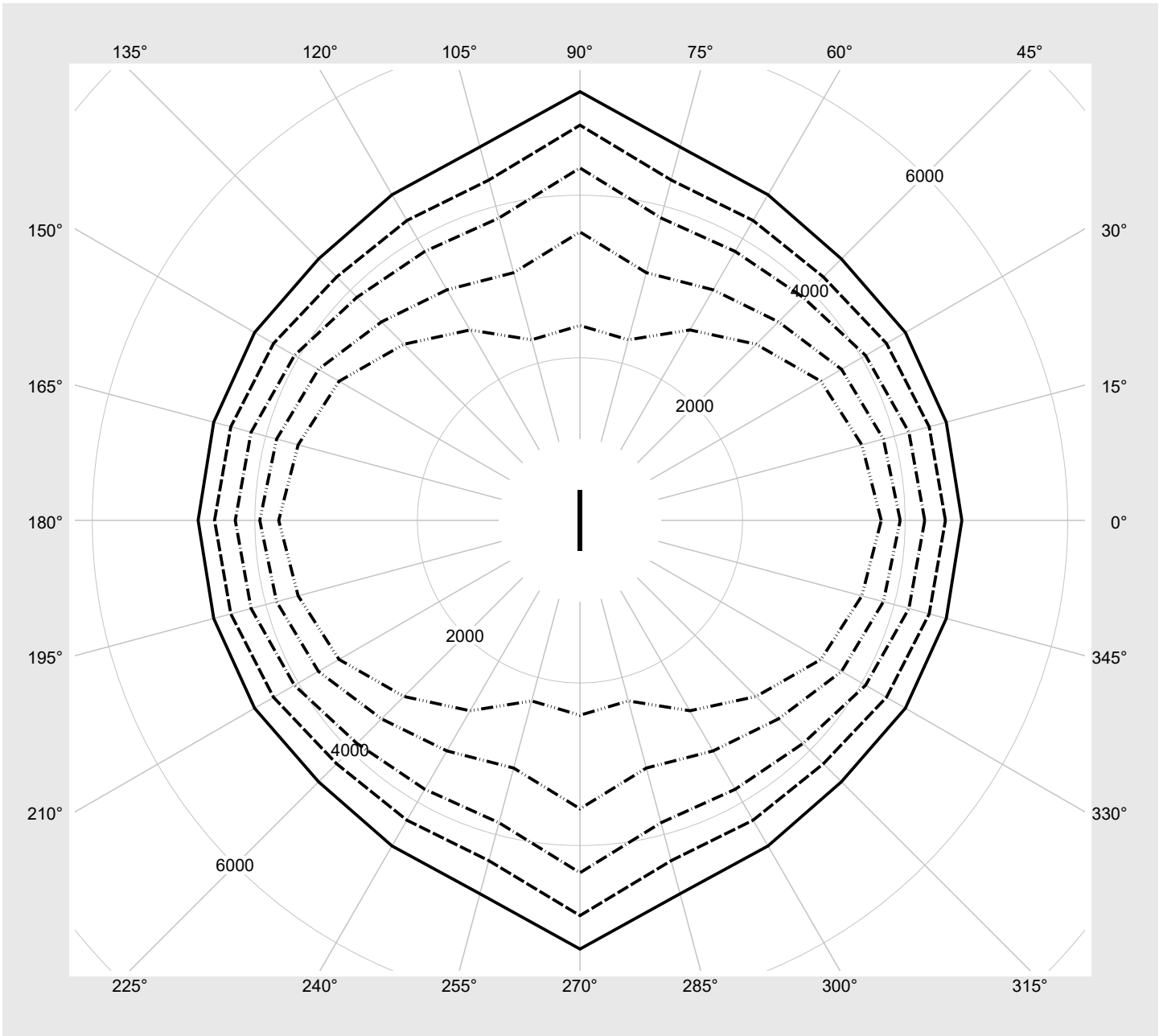
**Photometric test report**

<b>Family</b> <b>Monsun® 21</b>	<b>Order number: 51FB10DL420K</b> <b>EAN: 4069025131522</b>	<b>LP number</b> <b>59393_16</b>
------------------------------------	--	-------------------------------------

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

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

**siteco**



## Photometric test report

Family <b>Monsun® 21</b>	Order number: <b>51FB10DL420K</b> EAN: <b>4069025131522</b>	LP number <b>59393_16</b>
-----------------------------	--	------------------------------

<b>Dimming levels table</b>	environmental temperature: 25°C	<b>sITeco</b>
-----------------------------	---------------------------------	---------------

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	2630	15.4
95	241	252	2497	14.7
90	228	250	2364	14.1
85	215	248	2231	13.4
80	203	246	2108	12.7
75	190	243	1974	12.0
70	177	241	1839	11.4
65	164	238	1705	10.8
60	152	235	1580	10.1
55	139	232	1445	9.4
50	127	229	1320	8.8
45	114	225	1185	8.1
40	101	220	1049	7.4
35	89	216	924	6.7
30	76	210	787	6.1
25	64	204	661	5.4
20	51	195	524	4.8
15	39	185	397	4.0
10	26	171	260	3.4
5	14	148	134	2.7
3	9	132	81	2.4