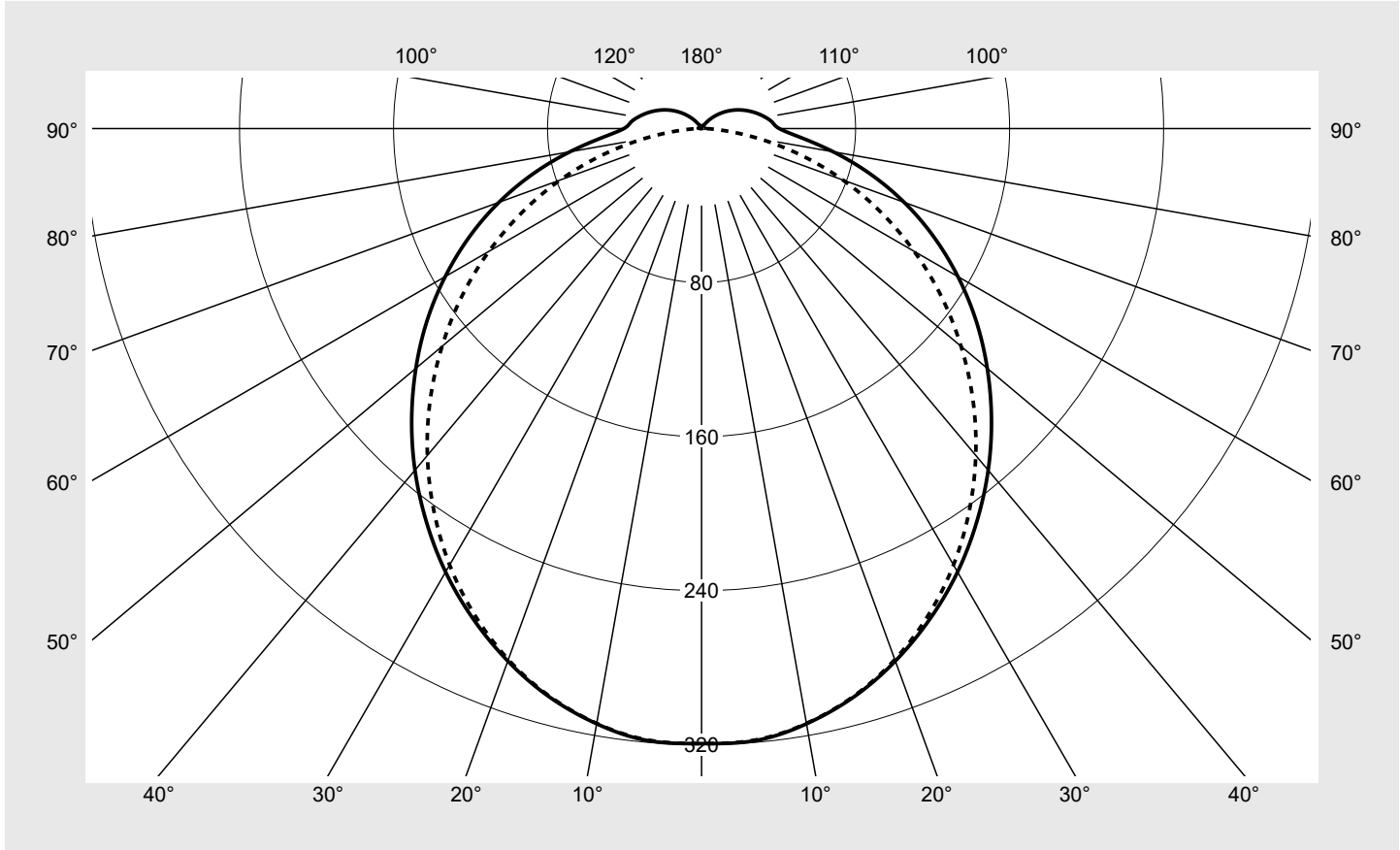


Photometric test report

Family Monsun® 21	Order number: 51FG20DP440C EAN: 4069025178602	LP number 59060_251
	Version prismatic diffuser, opal, polycarbonate, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 4810 lm Power consumption = 28.9 W Luminous efficacy = 166.4 lm/W	serial documentation 06.02.2026
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 319 cd/klm**



Classifications	
DIN 5040	A 4 1
CIE	N1=45 N2=75 N3=93 N4=94 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	93.7%
ϕ_o	6.3%

Measurement conditions
 DIN EN 13032 and DIN 5032

Photometric test report

Family Monsun® 21	Order number: 51FG20DP440C EAN: 4069025178602	LP number 59060_251
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°	319.4	319.4	319.4	319.4	319.4	319.4	319.4	1.9	1.9
5°	319.1	317.8	316.0	317.2	318.6	318.6	318.8	15.2	17.1
10°	313.9	312.8	311.0	312.1	313.5	313.5	313.7	29.8	46.9
15°	305.6	304.7	302.7	303.7	305.0	304.9	305.2	43.2	90.1
20°	294.3	293.5	291.4	292.2	293.3	293.1	293.5	54.9	145.0
25°	280.9	280.2	277.7	277.9	278.8	278.5	278.8	64.6	209.6
30°	265.9	265.3	262.4	261.6	261.9	261.4	261.7	72.0	281.6
35°	249.2	248.5	245.6	243.7	242.9	242.2	242.4	77.0	358.5
40°	231.6	230.8	227.5	224.6	222.7	221.4	221.6	79.5	438.0
45°	212.9	211.8	208.5	204.2	201.3	199.0	199.4	79.5	517.5
50°	193.7	192.3	188.8	183.7	179.4	175.9	176.0	77.3	594.9
55°	174.1	172.4	168.8	162.7	157.2	152.3	152.1	73.1	667.9
60°	153.8	152.1	148.1	141.4	134.9	128.8	127.5	66.9	734.9
65°	133.1	131.4	127.0	119.9	112.8	105.5	102.8	59.2	794.0
70°	112.0	110.4	105.0	98.0	90.2	82.2	78.2	49.9	843.9
75°	90.5	88.8	83.0	75.7	67.3	58.8	53.6	39.3	883.2
80°	69.4	67.4	62.0	54.0	45.3	36.4	30.4	28.3	911.6
85°	51.2	49.1	43.8	35.9	26.7	17.7	11.3	18.6	930.2
90°	40.3	38.3	33.0	25.3	16.4	7.5	1.9	12.9	943.1
95°	36.9	35.1	30.2	22.8	14.1	5.6	1.6	11.6	954.7
100°	33.7	31.9	27.1	20.1	11.9	4.0	1.5	10.1	964.8
105°	30.1	28.5	23.8	17.3	9.5	2.6	1.3	8.6	973.4
110°	26.5	24.6	20.5	14.4	7.3	1.5	1.2	7.1	980.4
115°	22.8	21.1	17.3	11.6	5.2	1.3	1.2	5.7	986.1
120°	19.1	17.5	14.1	8.9	3.4	1.3	1.1	4.4	990.5
125°	15.4	13.9	10.8	6.2	1.7	1.2	1.0	3.2	993.6
130°	11.8	10.5	7.7	3.9	1.4	1.2	1.0	2.2	995.8
135°	8.3	7.2	5.0	2.0	1.4	1.2	1.1	1.4	997.2
140°	5.1	4.3	2.5	1.6	1.3	1.1	1.0	0.8	998.0
145°	2.4	2.0	1.8	1.6	1.4	1.2	1.2	0.5	998.5
150°	1.9	1.9	1.8	1.5	1.4	1.3	1.2	0.4	999.0
155°	1.8	1.8	1.6	1.5	1.4	1.3	1.3	0.4	999.3
160°	1.6	1.6	1.5	1.5	1.4	1.4	1.3	0.3	999.6
165°	1.5	1.5	1.4	1.4	1.4	1.4	1.3	0.2	999.8
170°	1.4	1.4	1.4	1.4	1.4	1.4	1.3	0.1	999.9
175°	1.3	1.3	1.3	1.4	1.4	1.4	1.3	0.1	1000.0
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	1000.0

Photometric test report

Family Monsun® 21	Order number: 51FG20DP440C EAN: 4069025178602	LP number 59060_251
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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	19.6	21.3	19.9	21.6	21.9	19.4	21.1	19.7	21.4	21.7
	3H	21.4	22.9	21.8	23.3	23.6	20.9	22.5	21.3	22.8	23.2
	4H	22.2	23.7	22.6	24.0	24.4	21.5	23.0	21.9	23.4	23.7
	6H	22.9	24.3	23.3	24.7	25.0	22.0	23.3	22.4	23.7	24.1
	8H	23.3	24.5	23.7	24.9	25.3	22.1	23.4	22.5	23.8	24.2
	12H	23.5	24.8	24.0	25.1	25.6	22.2	23.4	22.6	23.8	24.2
4H	2H	20.3	21.8	20.7	22.1	22.5	20.2	21.6	20.5	22.0	22.3
	3H	22.3	23.6	22.7	24.0	24.4	21.9	23.2	22.3	23.6	24.0
	4H	23.3	24.4	23.7	24.8	25.3	22.6	23.8	23.1	24.2	24.6
	6H	24.1	25.1	24.6	25.6	26.0	23.2	24.2	23.6	24.6	25.1
	8H	24.5	25.5	25.0	25.9	26.4	23.3	24.3	23.8	24.7	25.2
	12H	24.9	25.7	25.4	26.2	26.7	23.4	24.3	23.9	24.8	25.2
8H	4H	23.6	24.5	24.1	25.0	25.5	23.1	24.0	23.5	24.4	24.9
	6H	24.6	25.4	25.1	25.9	26.4	23.7	24.5	24.2	25.0	25.5
	8H	25.1	25.8	25.6	26.3	26.8	24.0	24.7	24.5	25.2	25.7
	12H	25.6	26.2	26.1	26.7	27.3	24.2	24.8	24.7	25.3	25.8
12H	4H	23.7	24.5	24.1	25.0	25.4	23.2	24.0	23.6	24.4	24.9
	6H	24.7	25.4	25.2	25.9	26.4	23.9	24.6	24.4	25.1	25.6
	8H	25.3	25.9	25.8	26.4	26.9	24.2	24.8	24.7	25.3	25.8

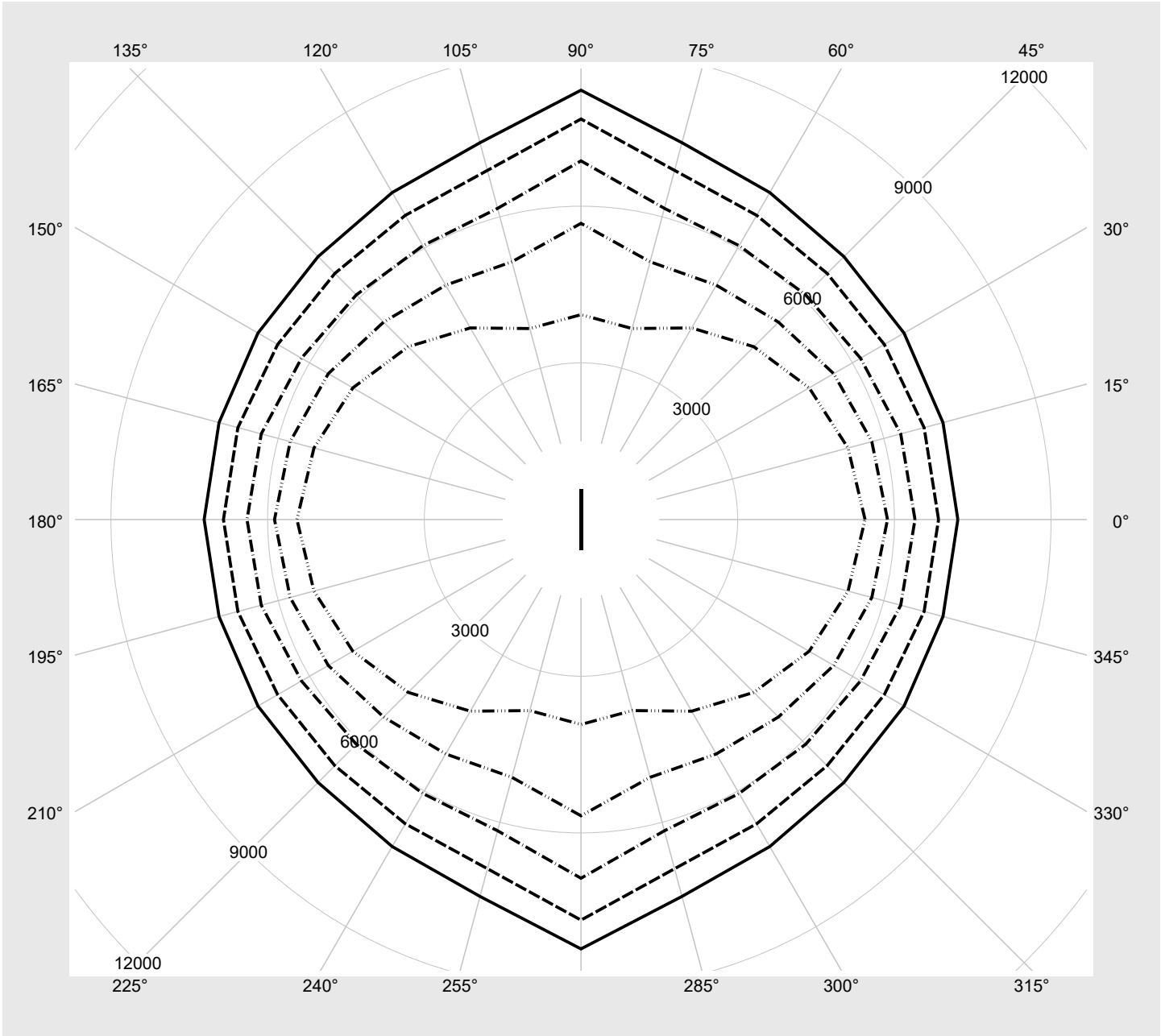
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1590	H(C0) = 21	H(C180) = 21
			B = 87	H(C90) = 21	H(C270) = 21

C-planes	γ	Luminance in cd/m ²							
		0°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		8435.6	8423.9	8433.4	8510.9	8741.6	9100.6	9675.7	
50°		8138.0	8114.2	8127.0	8183.1	8385.0	8731.2	9371.6	
55°		7849.1	7810.6	7822.3	7845.7	8017.0	8337.0	9048.9	
60°		7540.3	7502.2	7499.1	7498.2	7635.6	7923.5	8669.1	
65°		7215.5	7175.1	7142.2	7119.7	7230.0	7470.9	8221.2	
70°		6846.1	6801.4	6706.4	6665.2	6726.7	6921.7	7669.4	
75°		6394.8	6337.8	6180.2	6084.3	6055.9	6169.2	6867.9	
80°		5868.4	5764.9	5587.2	5346.3	5182.0	5110.0	5672.0	
85°		5438.9	5293.4	5044.1	4680.0	4237.0	3786.7	3923.2	

Photometric test report

Family Monsun® 21	Order number: 51FG20DP440C EAN: 4069025178602	LP number 59060_251
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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



Photometric test report

Family Monsun® 21	Order number: 51FG20DP440C EAN: 4069025178602	LP number 59060_251
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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	4810	28.9
95	241	252	4572	27.7
90	228	250	4333	26.4
85	215	248	4093	25.1
80	202	246	3852	23.7
75	189	243	3609	22.4
70	176	241	3366	21.1
65	163	238	3122	19.6
60	150	235	2877	18.2
55	138	232	2649	16.9
50	125	228	2403	15.4
45	113	224	2174	14.0
40	100	220	1925	12.5
35	87	215	1678	11.0
30	75	209	1447	9.6
25	62	202	1195	8.2
20	50	194	963	6.9
15	38	184	730	5.6
10	25	169	476	4.3
5	13	145	241	3.3
3	9	132	163	3.0