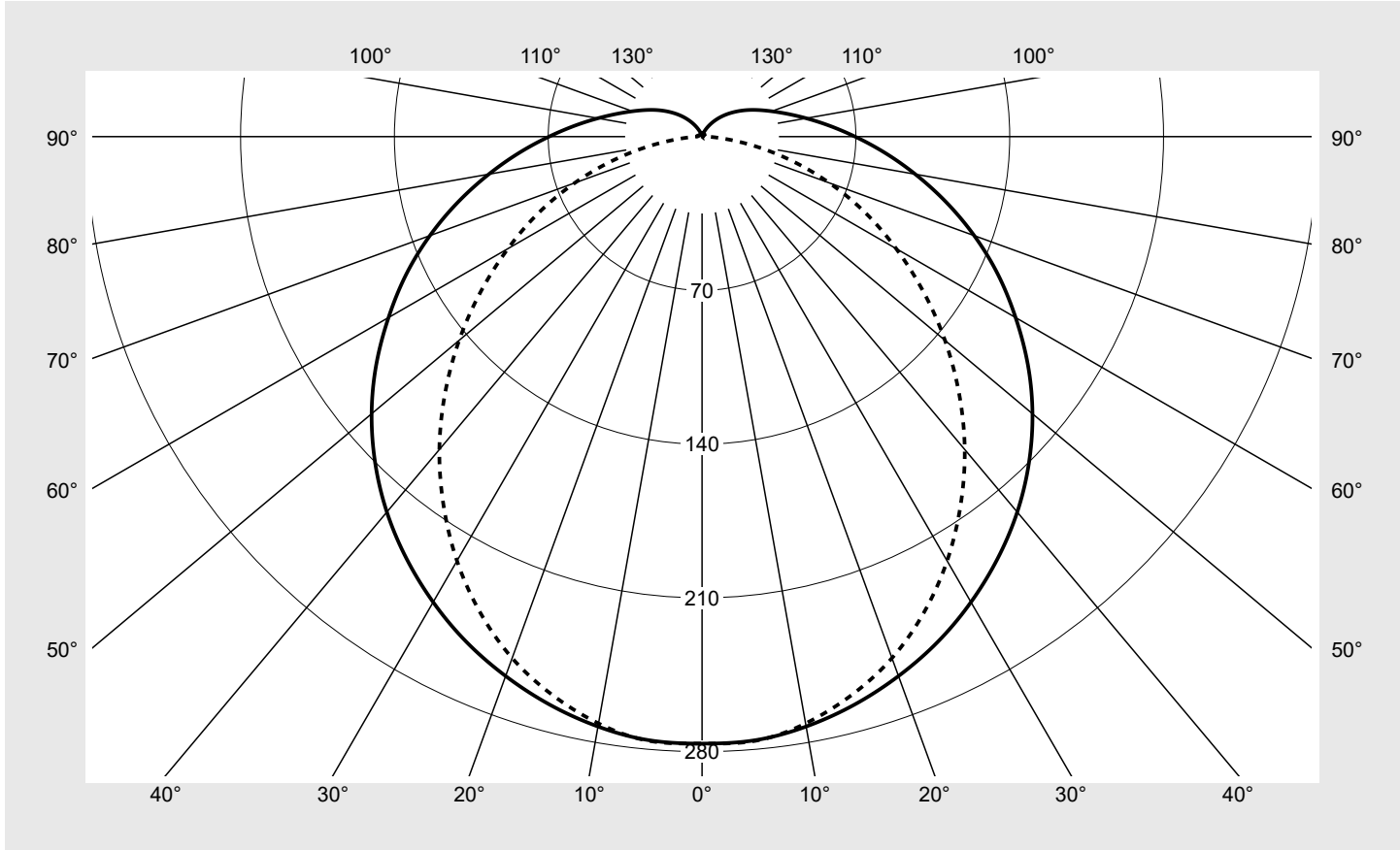


Photometric test report

Family Monsun® 21 Eco	Order number: 51FJ10MP47A EAN: 4058352715789	LP number 59395_2
	Version cover, frosted, PMMA, diffuse beam	serial documentation 10.02.2023
	Lamps LED 4000 K CRI ≥ 80	
	Controlgear ECG Multilumen	
	Rated values Net luminous flux = 7000 lm Power consumption = 50.0 W Luminous efficacy = 140 lm/W	
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 276 cd/klm**



Classifications	
DIN 5040	A 3 1
CIE	N1=41 N2=70 N3=89 N4=90 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	90.2%
ϕ_o	9.8%

Measurement conditions
 DIN EN 13032 and DIN 5032

Photometric test report

Family Monsun® 21 Eco	Order number: 51FJ10MP47A EAN: 4058352715789	LP number 59395_2
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°	276.4	276.4	276.4	276.4	276.4	276.4	276.4	1.7	1.7
5°	275.9	276.0	274.4	274.3	274.7	275.3	276.2	13.1	14.8
10°	272.7	273.0	271.1	270.4	270.4	270.7	271.3	25.8	40.6
15°	267.8	268.1	265.7	263.9	263.0	262.7	263.2	37.6	78.2
20°	261.4	261.5	258.5	255.3	253.5	252.0	252.7	48.0	126.2
25°	253.8	253.4	249.5	244.5	241.2	238.5	239.0	56.9	183.1
30°	244.7	244.3	239.3	232.7	227.1	223.2	223.0	64.0	247.1
35°	234.5	233.6	227.5	219.3	211.2	205.7	205.1	69.0	316.1
40°	223.1	221.7	214.8	204.7	194.5	187.0	186.0	72.1	388.2
45°	210.3	208.7	200.8	189.4	177.0	167.4	165.4	73.1	461.2
50°	196.3	194.3	186.0	173.2	159.0	147.2	144.3	72.1	533.3
55°	181.0	178.9	170.2	156.5	140.8	127.2	122.9	69.3	602.6
60°	164.8	162.6	153.6	138.9	123.1	107.7	102.0	64.8	667.4
65°	148.6	145.9	137.1	122.1	105.8	89.1	82.0	59.2	726.6
70°	131.8	128.9	120.2	105.1	88.4	70.5	61.6	52.3	779.0
75°	114.9	112.2	103.6	88.9	71.3	52.7	42.0	44.8	823.7
80°	98.5	95.8	87.8	73.5	55.7	36.1	23.8	36.9	860.6
85°	83.4	80.6	73.3	59.8	42.4	22.6	9.2	29.6	890.2
90°	69.6	67.2	60.4	48.1	32.1	14.0	2.5	23.6	913.8
95°	58.0	55.8	49.9	38.8	24.6	9.6	2.3	19.0	932.8
100°	48.1	46.3	40.9	31.2	19.3	7.1	2.1	15.3	948.1
105°	40.1	38.4	33.5	25.6	15.5	5.2	1.8	12.3	960.4
110°	33.7	31.9	28.0	21.1	12.4	3.8	1.7	9.9	970.2
115°	28.6	26.8	23.5	17.3	9.7	2.8	1.6	7.9	978.1
120°	24.2	22.6	19.5	14.1	7.5	2.1	1.5	6.2	984.3
125°	20.2	18.7	15.9	11.2	5.6	1.6	1.4	4.8	989.1
130°	16.6	15.3	12.7	8.6	4.1	1.5	1.3	3.6	992.7
135°	13.3	12.1	9.9	6.5	2.9	1.4	0.9	2.6	995.3
140°	10.2	9.2	7.3	4.6	1.9	1.2	1.0	1.8	997.0
145°	7.4	6.6	5.2	3.1	1.5	1.2	1.1	1.1	998.2
150°	5.0	4.4	3.4	2.0	1.4	1.3	1.2	0.7	998.9
155°	3.0	2.7	2.1	1.5	1.4	1.3	1.3	0.4	999.3
160°	1.7	1.6	1.6	1.5	1.4	1.3	1.3	0.3	999.6
165°	1.5	1.5	1.4	1.4	1.3	1.3	1.3	0.2	999.8
170°	1.4	1.4	1.3	1.3	1.3	1.3	1.3	0.1	999.9
175°	1.4	1.3	1.3	1.4	1.4	1.4	1.4	0.1	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

Photometric test report

Family Monsun® 21 Eco	Order number: 51FJ10MP47A EAN: 4058352715789	LP number 59395_2
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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	20.4	22.2	20.8	22.5	22.9	19.3	21.1	19.7	21.4	21.7
	3H	22.5	24.1	22.9	24.4	24.8	20.8	22.4	21.1	22.7	23.1
	4H	23.5	25.0	23.9	25.3	25.7	21.3	22.9	21.7	23.2	23.6
	6H	24.4	25.8	24.8	26.2	26.6	21.7	23.2	22.1	23.5	23.9
	8H	24.9	26.2	25.3	26.6	27.0	21.8	23.2	22.3	23.6	24.0
	12H	25.3	26.6	25.8	27.0	27.4	21.9	23.2	22.3	23.6	24.0
4H	2H	21.1	22.7	21.5	23.0	23.4	20.3	21.8	20.7	22.2	22.5
	3H	23.4	24.7	23.8	25.1	25.5	22.0	23.3	22.4	23.7	24.1
	4H	24.6	25.8	25.0	26.2	26.6	22.7	23.9	23.1	24.3	24.7
	6H	25.7	26.8	26.1	27.2	27.6	23.2	24.3	23.7	24.7	25.2
	8H	26.2	27.2	26.7	27.7	28.1	23.4	24.4	23.8	24.8	25.3
	12H	26.8	27.7	27.2	28.1	28.6	23.5	24.4	24.0	24.9	25.4
8H	4H	24.9	25.9	25.4	26.4	26.8	23.4	24.3	23.8	24.8	25.3
	6H	26.3	27.1	26.7	27.6	28.1	24.1	25.0	24.6	25.4	25.9
	8H	26.9	27.7	27.4	28.2	28.7	24.4	25.2	24.9	25.6	26.2
	12H	27.6	28.3	28.1	28.8	29.3	24.6	25.3	25.1	25.8	26.3
12H	4H	25.0	25.9	25.4	26.4	26.8	23.5	24.4	24.0	24.9	25.4
	6H	26.4	27.1	26.9	27.6	28.1	24.4	25.1	24.9	25.6	26.1
	8H	27.1	27.8	27.6	28.3	28.8	24.8	25.4	25.3	25.9	26.5

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1577	H(C0) = 38	H(C180) = 38
			B = 90	H(C90) = 38	H(C270) = 38

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°		10315.3	10292.3	10164.9	10041.8	10020.0	10308.2	11266.4	
50°		10019.3	9981.4	9842.3	9657.7	9555.7	9753.7	10762.9	
55°		9708.9	9666.4	9506.8	9273.5	9093.1	9199.7	10215.0	
60°		9386.6	9337.5	9160.3	8860.6	8662.9	8639.5	9656.8	
65°		9101.2	9017.7	8838.2	8500.7	8243.5	8093.4	9097.5	
70°		8798.9	8694.8	8507.1	8121.0	7781.3	7448.4	8336.4	
75°		8500.9	8398.6	8193.8	7780.2	7281.7	6722.1	7346.4	
80°		8243.7	8125.3	7940.4	7479.6	6837.1	5853.0	5945.8	
85°		8097.8	7959.1	7805.8	7346.5	6578.4	5086.2	4100.1	

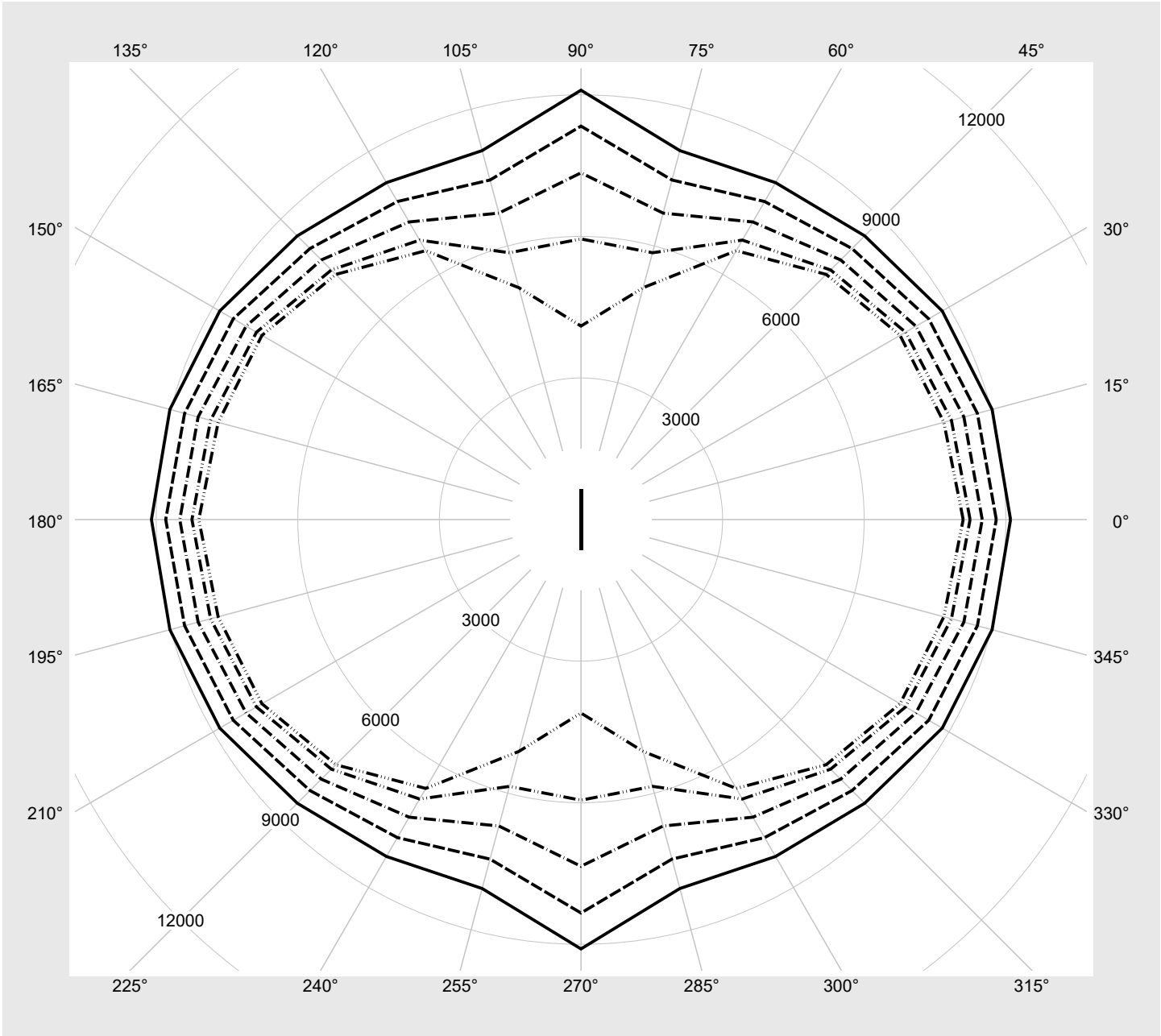
Photometric test report

Family Monsun® 21 Eco	Order number: 51FJ10MP47A EAN: 4058352715789	LP number 59395_2
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Luminance values in cd/m²


γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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siteco



Photometric test report

Family Monsun® 21 Eco	Order number: 51FJ10MP47A EAN: 4058352715789	LP number 59395_2
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Multilumen Table	environmental temperature: 25°C	
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DIP-Step	Switch Setting				Luminous flux [lm]	Power consumption [W]
	1	2	3	4		
15	ON	ON	ON	ON	7000	50.0
12	ON	ON	OFF	OFF	6000	43.0
9	ON	OFF	OFF	ON	5000	36.0
6	OFF	ON	ON	OFF	4000	29.0