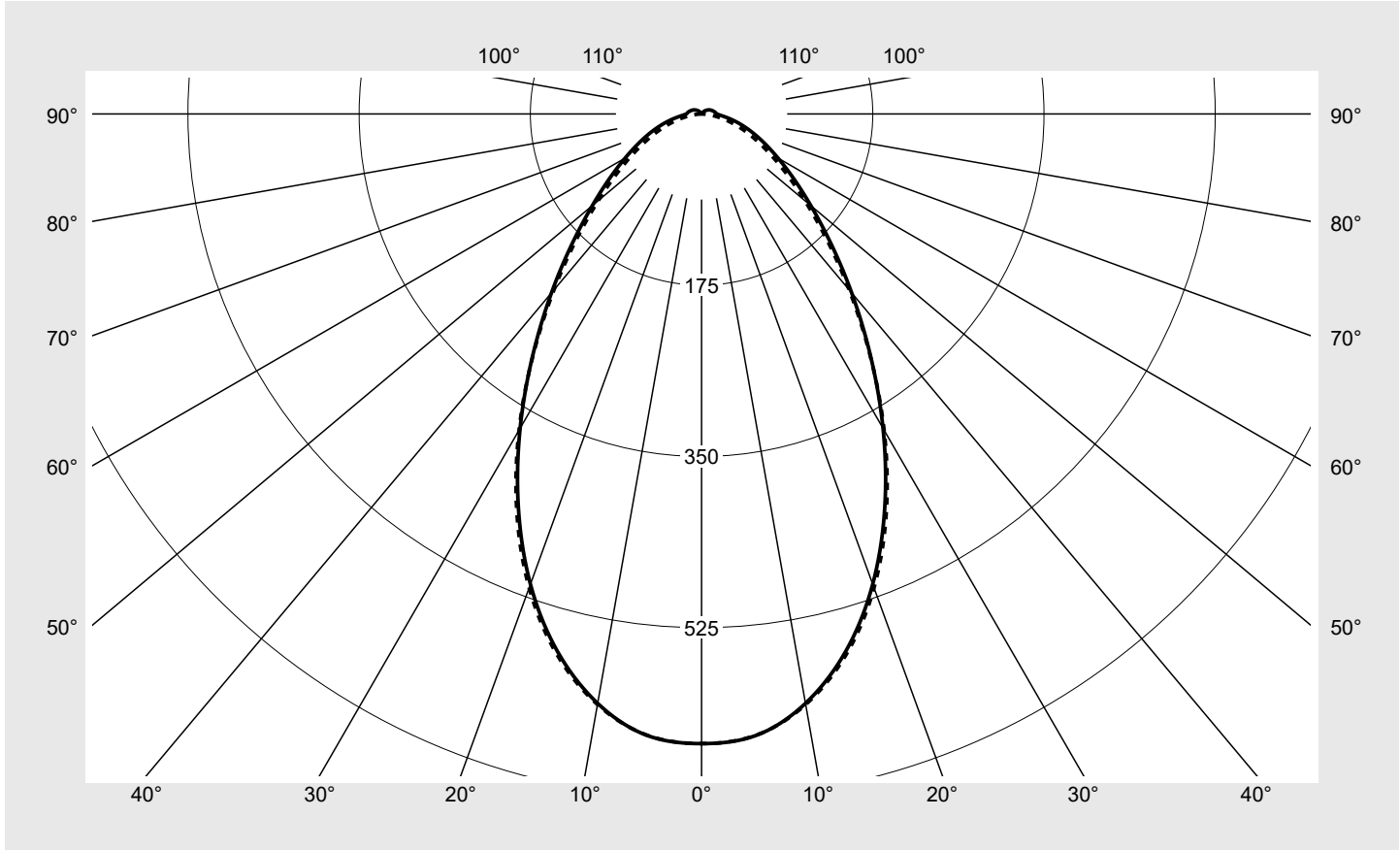


Photometric test report

Family Monsun® 21	Order number: 51FB12MP480B EAN: 4058352520116	LP number 59014_7
	Version prismatic diffuser, opal, PMMA, medium distribution	serial documentation 12.01.2023
	Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Multilumen Rated values Net luminous flux = 8100 lm Power consumption = 53.6 W Luminous efficacy = 151.1 lm/W	
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 643 cd/klm**



Classifications	
DIN 5040	A 5 1
CIE	N1=65 N2=88 N3=97 N4=97 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	97.2%
ϕ_o	2.8%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Monsun® 21	Order number: 51FB12MP480B EAN: 4058352520116	LP number 59014_7
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°	643.5	643.5	643.5	643.5	643.5	643.5	643.5	3.8	3.8
5°	637.6	635.4	631.6	634.4	637.3	637.0	637.4	30.4	34.2
10°	611.6	610.1	606.4	609.4	612.4	612.4	612.8	58.1	92.3
15°	568.8	568.0	564.7	567.5	570.7	571.1	571.7	80.7	173.0
20°	511.5	511.1	508.3	510.7	513.9	514.6	515.3	96.0	269.0
25°	443.2	443.1	440.7	442.6	445.5	446.1	447.1	102.8	371.8
30°	371.0	371.1	368.7	369.7	371.9	372.2	373.1	101.7	473.5
35°	300.7	300.7	298.6	298.4	299.2	299.0	299.8	94.1	567.6
40°	238.7	238.3	236.6	235.1	234.9	234.3	234.7	83.1	650.7
45°	186.7	186.0	184.5	182.3	181.1	179.9	180.6	70.9	721.6
50°	145.8	145.0	143.8	141.4	139.3	137.5	137.9	59.4	781.0
55°	114.7	113.7	112.7	110.1	107.4	105.2	105.3	49.3	830.4
60°	90.2	89.4	88.3	85.7	82.9	80.3	79.9	40.5	870.8
65°	71.0	70.3	69.1	66.5	63.6	60.7	59.7	32.8	903.6
70°	55.2	54.7	53.0	50.5	47.5	44.4	43.0	25.7	929.3
75°	41.7	41.3	39.3	36.7	33.4	30.3	28.5	19.1	948.3
80°	30.0	29.4	27.6	24.6	21.1	17.9	15.8	12.9	961.2
85°	20.6	20.0	18.3	15.2	11.4	8.0	5.8	7.8	969.1
90°	15.7	15.1	13.3	10.2	6.4	3.0	0.9	5.1	974.2
95°	14.4	13.8	12.1	9.2	5.6	2.3	0.8	4.6	978.8
100°	13.2	12.6	10.9	8.1	4.8	1.7	0.7	4.1	982.9
105°	12.0	11.4	9.7	7.0	3.9	1.1	0.7	3.5	986.3
110°	10.8	10.1	8.4	5.9	3.0	0.8	0.6	2.9	989.2
115°	9.6	8.9	7.3	4.9	2.3	0.8	0.7	2.4	991.7
120°	8.3	7.6	6.1	3.9	1.6	0.8	0.7	1.9	993.6
125°	6.9	6.2	4.8	2.9	1.1	0.8	0.8	1.5	995.1
130°	5.5	4.9	3.7	2.2	1.1	1.0	0.9	1.1	996.2
135°	4.3	3.8	2.8	1.6	1.3	1.1	1.1	0.9	997.1
140°	3.1	2.8	2.1	1.6	1.5	1.3	1.3	0.7	997.7
145°	2.3	2.1	1.9	1.8	1.6	1.5	1.5	0.6	998.3
150°	2.1	2.0	2.0	1.8	1.6	1.6	1.6	0.5	998.8
155°	2.1	2.0	1.9	1.8	1.7	1.6	1.6	0.4	999.2
160°	1.9	1.9	1.8	1.7	1.6	1.6	1.6	0.3	999.5
165°	1.6	1.7	1.7	1.6	1.6	1.6	1.6	0.2	999.8
170°	1.5	1.6	1.6	1.6	1.6	1.6	1.6	0.1	999.9
175°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.1	1000.0
180°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	1000.0

Photometric test report

Family Monsun® 21	Order number: 51FB12MP480B EAN: 4058352520116	LP number 59014_7
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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	19.1	20.7	19.5	21.0	21.3	19.3	20.8	19.6	21.1	21.4
	3H	20.1	21.5	20.5	21.8	22.2	20.2	21.5	20.6	21.9	22.2
	4H	20.6	21.8	21.0	22.2	22.6	20.5	21.8	20.9	22.2	22.5
	6H	21.0	22.1	21.4	22.5	22.9	20.8	21.9	21.2	22.3	22.7
	8H	21.2	22.2	21.6	22.6	23.0	20.9	22.0	21.3	22.3	22.7
	12H	21.3	22.3	21.8	22.7	23.1	20.9	21.9	21.4	22.3	22.7
4H	2H	19.6	20.8	20.0	21.2	21.6	19.7	21.0	20.1	21.3	21.7
	3H	20.8	21.8	21.2	22.2	22.6	20.8	21.8	21.2	22.2	22.6
	4H	21.3	22.3	21.8	22.7	23.1	21.3	22.2	21.7	22.6	23.0
	6H	21.9	22.7	22.3	23.1	23.6	21.6	22.4	22.0	22.8	23.3
	8H	22.1	22.8	22.5	23.3	23.7	21.7	22.4	22.2	22.9	23.4
	12H	22.3	22.9	22.8	23.4	23.9	21.8	22.4	22.2	22.9	23.4
8H	4H	21.6	22.3	22.0	22.7	23.2	21.5	22.2	21.9	22.7	23.1
	6H	22.2	22.8	22.7	23.3	23.8	21.9	22.5	22.4	23.0	23.5
	8H	22.5	23.0	23.0	23.5	24.0	22.0	22.6	22.5	23.1	23.6
	12H	22.8	23.2	23.3	23.7	24.3	22.2	22.6	22.7	23.1	23.6
12H	4H	21.6	22.2	22.1	22.7	23.2	21.5	22.2	22.0	22.6	23.1
	6H	22.2	22.8	22.7	23.3	23.8	22.0	22.5	22.5	23.0	23.5
	8H	22.6	23.0	23.1	23.5	24.1	22.2	22.6	22.7	23.1	23.6

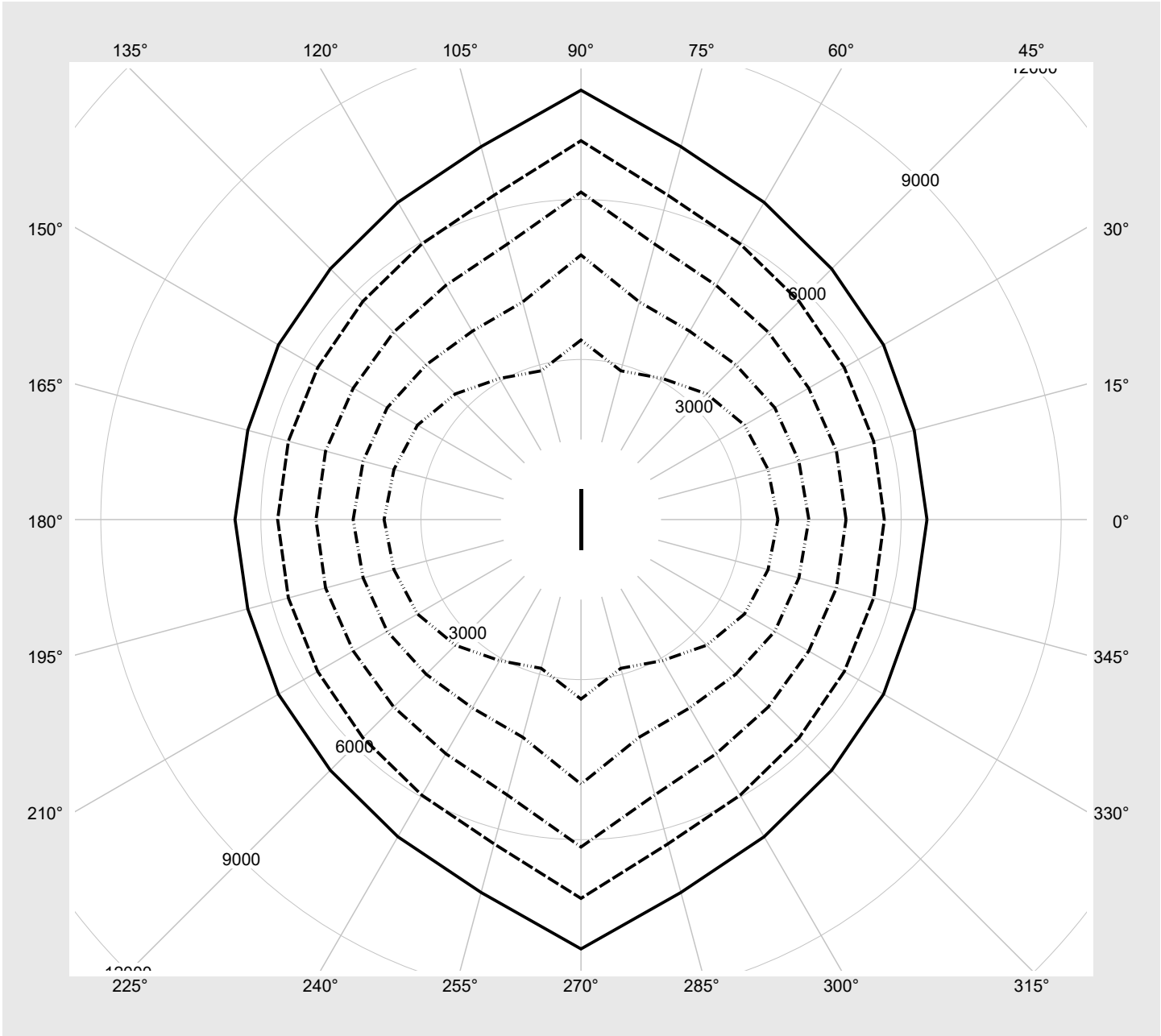
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1590	H(C0) = 21	H(C180) = 21
			B = 87	H(C90) = 21	H(C270) = 21

C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		12454.8	12459.2	12568.5	12793.4	13248.9	13857.4	14759.5	
50°		10316.0	10303.2	10424.7	10606.9	10961.1	11495.1	12364.8	
55°		8704.3	8674.7	8792.6	8937.2	9227.9	9699.4	10554.2	
60°		7450.7	7425.6	7529.4	7650.2	7899.3	8315.3	9148.3	
65°		6484.6	6466.1	6547.8	6645.2	6864.9	7236.2	8047.8	
70°		5685.7	5678.1	5698.1	5782.7	5965.6	6293.5	7100.6	
75°		4967.1	4956.4	4928.6	4966.5	5068.0	5344.1	6137.7	
80°		4270.2	4227.6	4193.7	4102.3	4075.8	4223.1	4958.5	
85°		3690.6	3629.7	3539.4	3330.9	3053.3	2886.6	3364.6	

Photometric test report

Family Monsun® 21	Order number: 51FB12MP480B EAN: 4058352520116	LP number 59014_7
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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°



Photometric test report

Family Monsun® 21	Order number: 51FB12MP480B EAN: 4058352520116	LP number 59014_7
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Multilumen Table	environmental temperature: 25°C	sITeco
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	8100	53.6
2	A	C	F	7320	47.6
3	A	D	E	6760	43.5
4	A	D	F	6120	39.0
5	B	C	E	5550	35.0
6	B	C	F	4960	31.0
7	B	D	E	4360	27.1
8	B	D	F	3820	23.6