

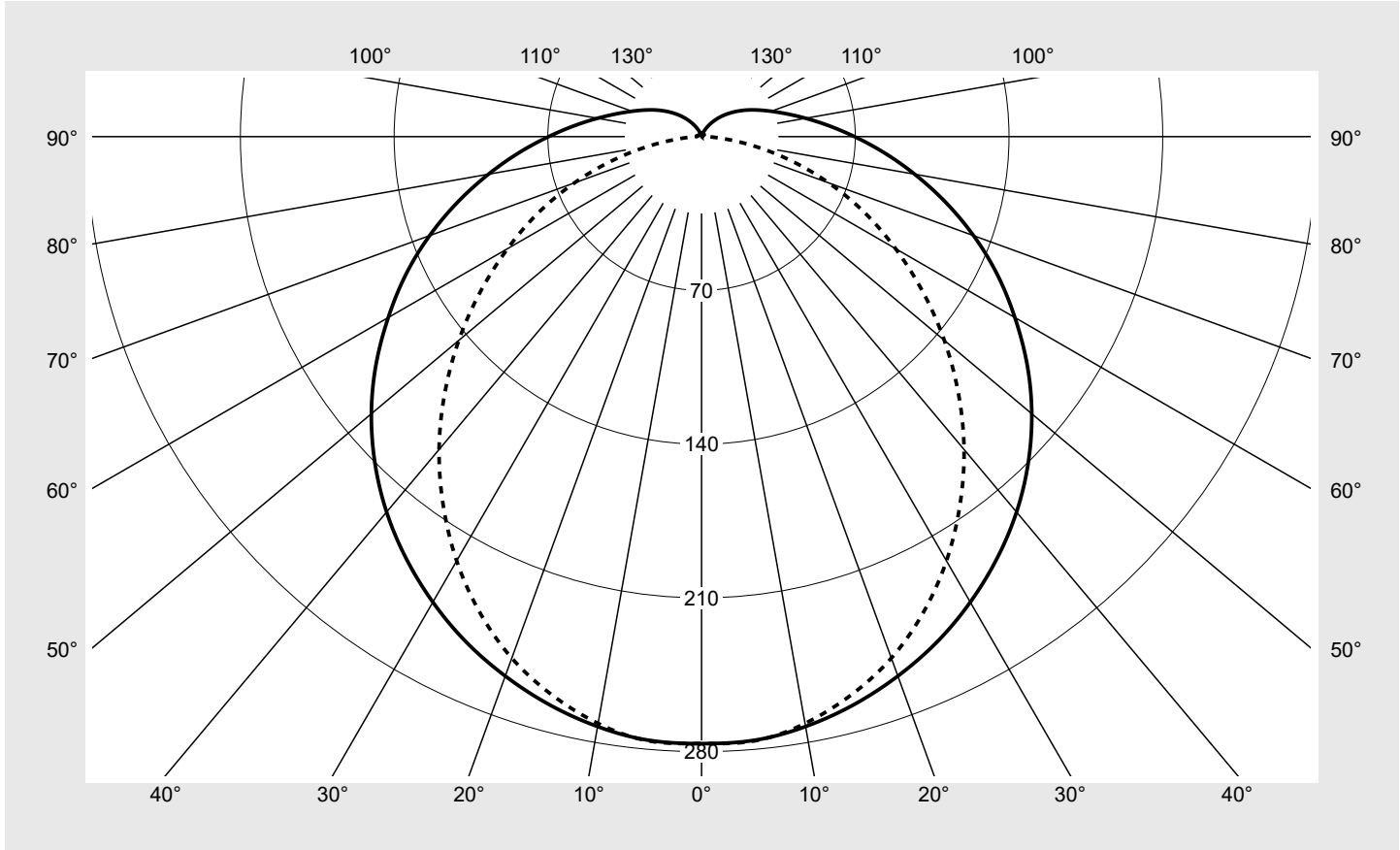


Photometric test report

Family Monsun® 21 Eco	Order number: 51FJ10ML45A EAN: 4058352715727	LP number 59395_1
	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 = 5000 lm Power consumption = 36.0 W Luminous efficacy = 138.9 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

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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°	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

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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	20.0	21.8	20.4	22.1	22.4	18.8	20.6	19.2	20.9	21.2
	3H	22.0	23.7	22.4	24.0	24.3	20.3	21.9	20.7	22.3	22.6
	4H	23.0	24.6	23.4	24.9	25.3	20.9	22.4	21.2	22.8	23.1
	6H	24.0	25.4	24.4	25.8	26.1	21.2	22.7	21.6	23.1	23.4
	8H	24.5	25.8	24.9	26.2	26.6	21.4	22.7	21.8	23.1	23.5
	12H	24.9	26.1	25.3	26.5	26.9	21.4	22.7	21.8	23.1	23.5
4H	2H	20.7	22.2	21.1	22.6	22.9	19.8	21.4	20.2	21.7	22.1
	3H	23.0	24.3	23.4	24.7	25.1	21.5	22.8	21.9	23.2	23.6
	4H	24.1	25.3	24.5	25.7	26.2	22.2	23.4	22.7	23.8	24.3
	6H	25.2	26.3	25.7	26.7	27.2	22.7	23.8	23.2	24.2	24.7
	8H	25.8	26.8	26.2	27.2	27.7	22.9	23.9	23.4	24.4	24.8
	12H	26.3	27.2	26.8	27.7	28.2	23.0	23.9	23.5	24.4	24.9
8H	4H	24.5	25.5	24.9	25.9	26.4	22.9	23.9	23.4	24.3	24.8
	6H	25.8	26.7	26.3	27.1	27.6	23.6	24.5	24.1	24.9	25.4
	8H	26.5	27.3	27.0	27.7	28.2	23.9	24.7	24.4	25.2	25.7
	12H	27.2	27.9	27.7	28.3	28.9	24.1	24.8	24.6	25.3	25.8
12H	4H	24.5	25.5	25.0	25.9	26.4	23.1	23.9	23.5	24.4	24.9
	6H	25.9	26.7	26.4	27.2	27.7	23.9	24.7	24.4	25.1	25.7
	8H	26.7	27.4	27.2	27.8	28.4	24.3	25.0	24.8	25.5	26.0

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1277	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°	9099.0	9069.3	8947.9	8830.9	8803.5	9049.1	9883.4		
50°	8837.9	8794.2	8661.6	8489.5	8390.6	8555.5	9432.0		
55°	8564.2	8515.4	8363.9	8148.0	7978.9	8062.0	8940.6		
60°	8279.8	8224.4	8056.3	7781.0	7595.4	7562.6	8438.7		
65°	8028.1	7941.2	7770.0	7460.2	7220.8	7074.5	7933.3		
70°	7761.4	7655.1	7475.5	7121.5	6807.8	6498.6	7247.8		
75°	7498.6	7392.4	7196.1	6816.1	6360.7	5849.7	6357.0		
80°	7271.7	7149.5	6968.5	6544.5	5959.3	5073.0	5100.7		
85°	7143.0	7000.2	6843.8	6416.5	5715.0	4377.7	3442.0		

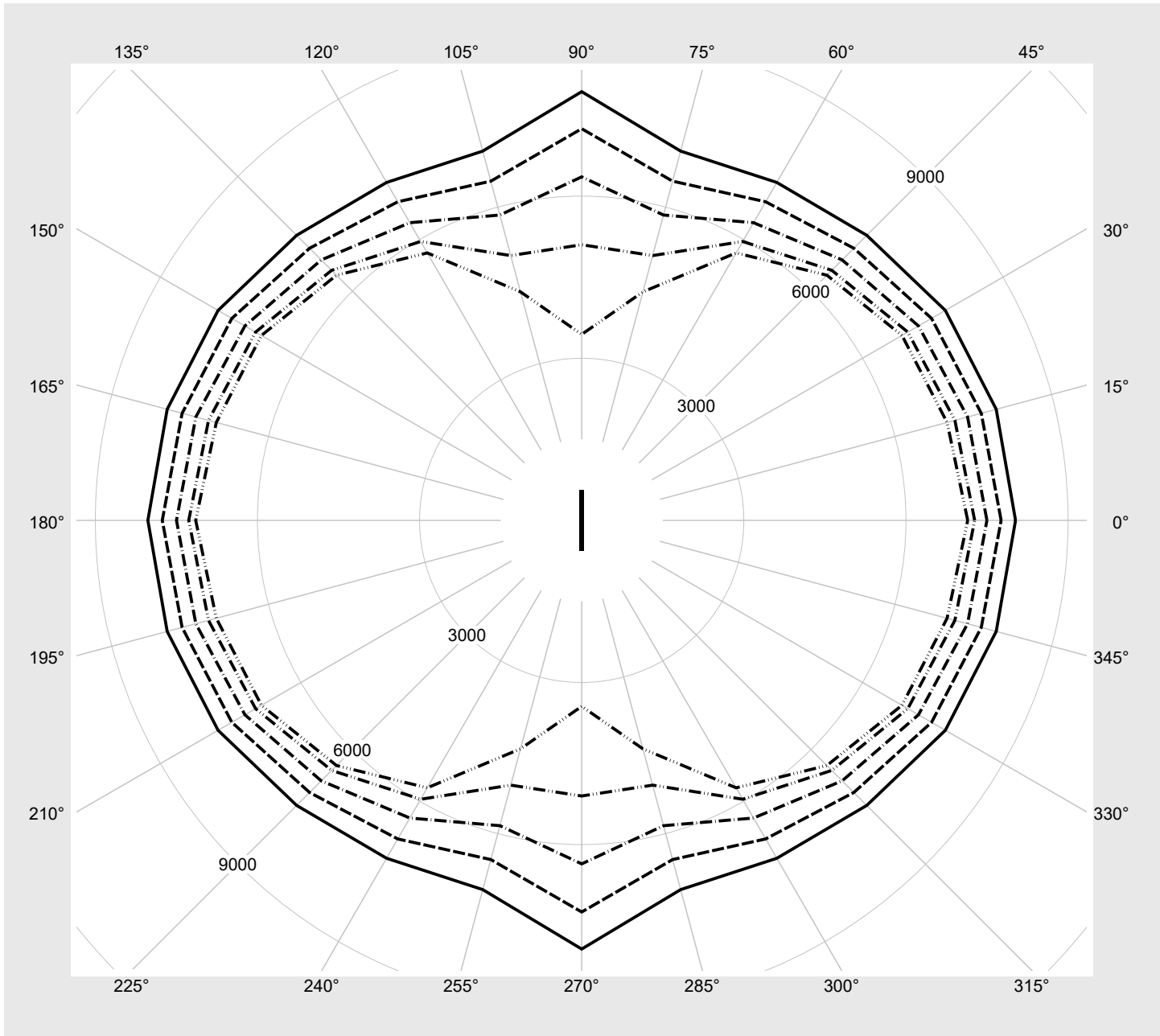
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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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siteco



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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	5000	36.0
12	ON	ON	OFF	OFF	4300	31.0
9	ON	OFF	OFF	ON	3500	25.0
6	OFF	ON	ON	OFF	2900	20.0