
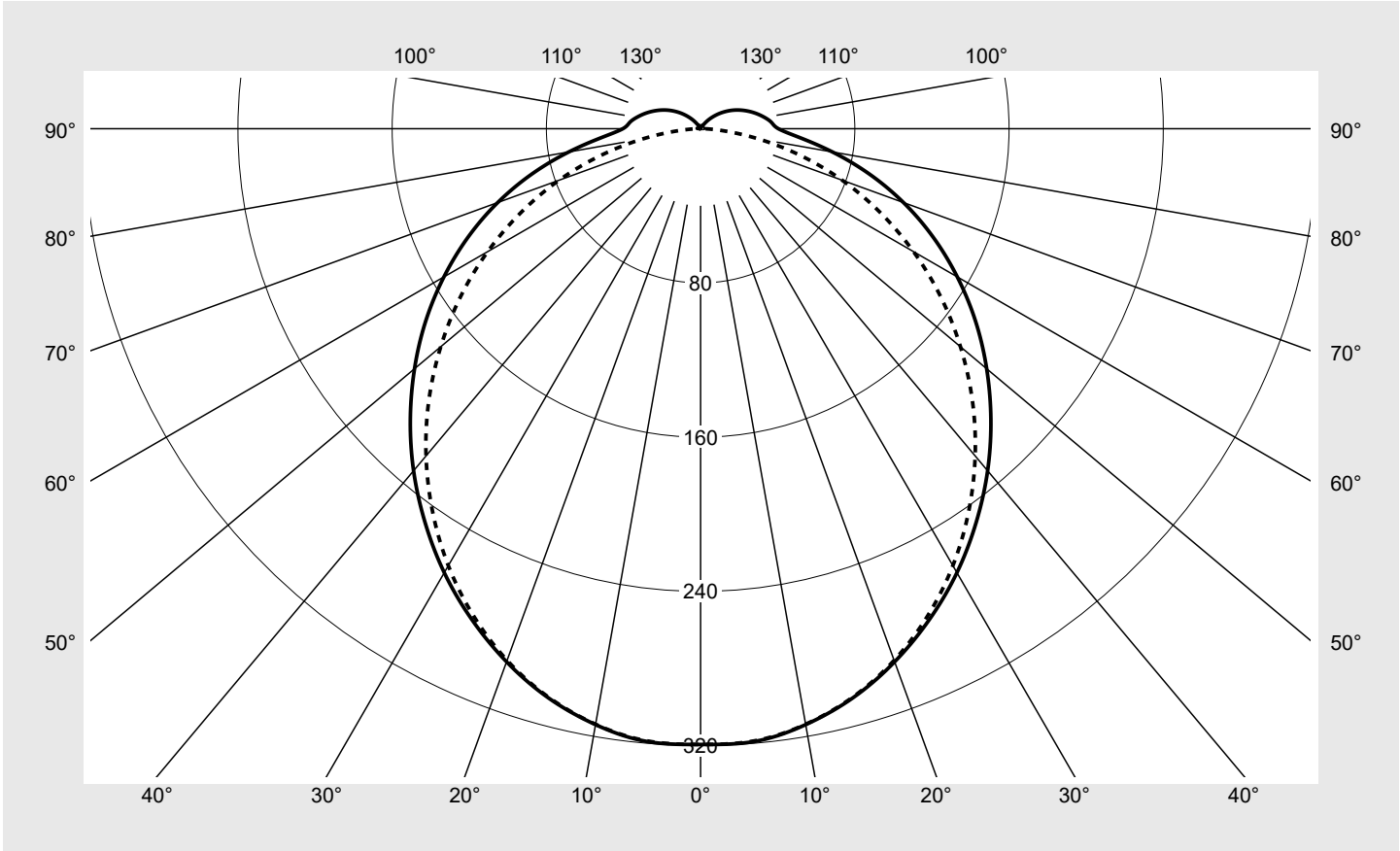


Photometric test report

Family Monsun® 21	Order number: 51FB20MP480B EAN: 4058352520291	LP number 59060_90
	Version prismatic diffuser, opal, polycarbonate, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Multilumen Rated values Net luminous flux = 7370 lm Power consumption = 53.6 W Luminous efficacy = 137.5 lm/W	serial documentation 12.01.2023
		

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

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Table of values for luminous intensities		Maximum luminous intensity
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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

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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	21.0	22.8	21.4	23.1	23.4	20.9	22.6	21.2	22.9	23.2
	3H	22.9	24.4	23.2	24.8	25.1	22.4	24.0	22.8	24.3	24.7
	4H	23.7	25.2	24.1	25.5	25.9	23.0	24.5	23.4	24.9	25.2
	6H	24.4	25.8	24.8	26.1	26.5	23.4	24.8	23.8	25.2	25.6
	8H	24.7	26.0	25.2	26.4	26.8	23.6	24.9	24.0	25.3	25.7
	12H	25.0	26.2	25.5	26.6	27.0	23.6	24.9	24.1	25.3	25.7
4H	2H	21.8	23.3	22.2	23.6	24.0	21.6	23.1	22.0	23.5	23.8
	3H	23.8	25.1	24.2	25.4	25.9	23.4	24.7	23.8	25.0	25.4
	4H	24.7	25.9	25.2	26.3	26.7	24.1	25.3	24.6	25.7	26.1
	6H	25.6	26.6	26.1	27.1	27.5	24.6	25.7	25.1	26.1	26.6
	8H	26.0	26.9	26.5	27.4	27.8	24.8	25.8	25.3	26.2	26.7
	12H	26.4	27.2	26.9	27.7	28.2	24.9	25.8	25.4	26.2	26.7
8H	4H	25.1	26.0	25.6	26.5	26.9	24.5	25.5	25.0	25.9	26.4
	6H	26.1	26.9	26.6	27.4	27.9	25.2	26.0	25.7	26.5	27.0
	8H	26.6	27.3	27.1	27.8	28.3	25.5	26.2	26.0	26.7	27.2
	12H	27.1	27.7	27.6	28.2	28.7	25.6	26.2	26.1	26.7	27.3
12H	4H	25.1	26.0	25.6	26.4	26.9	24.6	25.5	25.1	25.9	26.4
	6H	26.2	26.9	26.7	27.4	27.9	25.4	26.1	25.9	26.5	27.1
	8H	26.8	27.4	27.3	27.9	28.4	25.7	26.3	26.2	26.8	27.3

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°		12925.2	12907.4	12921.9	13040.6	13394.1	13944.1	14825.4	
50°		12469.3	12432.7	12452.3	12538.3	12847.8	13378.2	14359.3	
55°		12026.6	11967.6	11985.5	12021.3	12283.9	12774.1	13864.9	
60°		11553.4	11495.0	11490.2	11488.9	11699.5	12140.5	13283.1	
65°		11055.8	10993.9	10943.5	10909.0	11078.0	11447.0	12596.8	
70°		10489.8	10421.3	10275.7	10212.6	10306.9	10605.6	11751.2	
75°		9798.3	9711.0	9469.5	9322.6	9278.9	9452.6	10523.2	
80°		8991.8	8833.1	8560.9	8191.7	7940.0	7829.7	8690.7	
85°		8333.7	8110.7	7728.7	7170.7	6492.1	5802.1	6011.2	

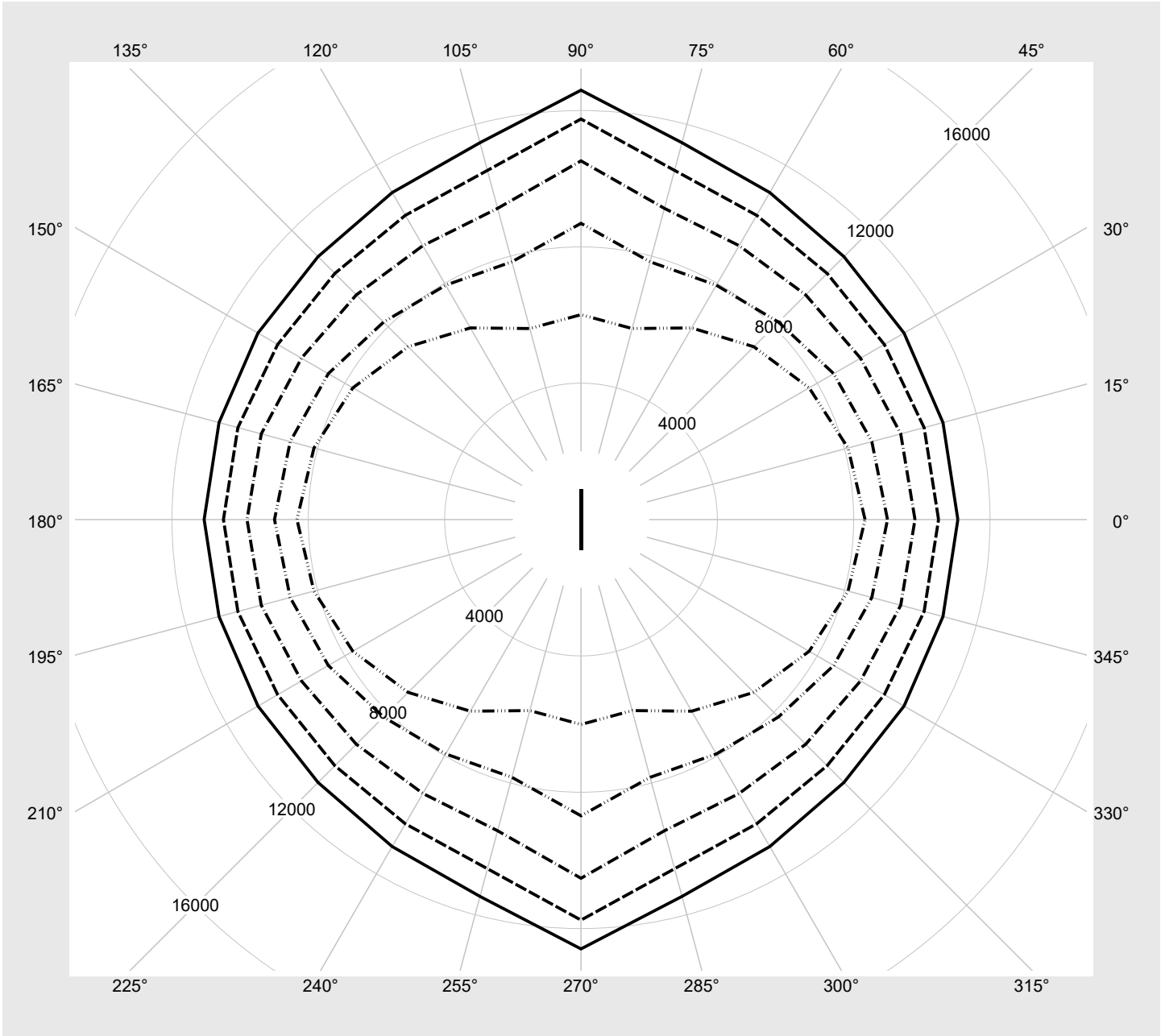
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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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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	7370	53.6
2	A	C	F	6660	47.6
3	A	D	E	6150	43.5
4	A	D	F	5580	39.0
5	B	C	E	5050	35.0
6	B	C	F	4510	31.0
7	B	D	E	3970	27.1
8	B	D	F	3480	23.6