

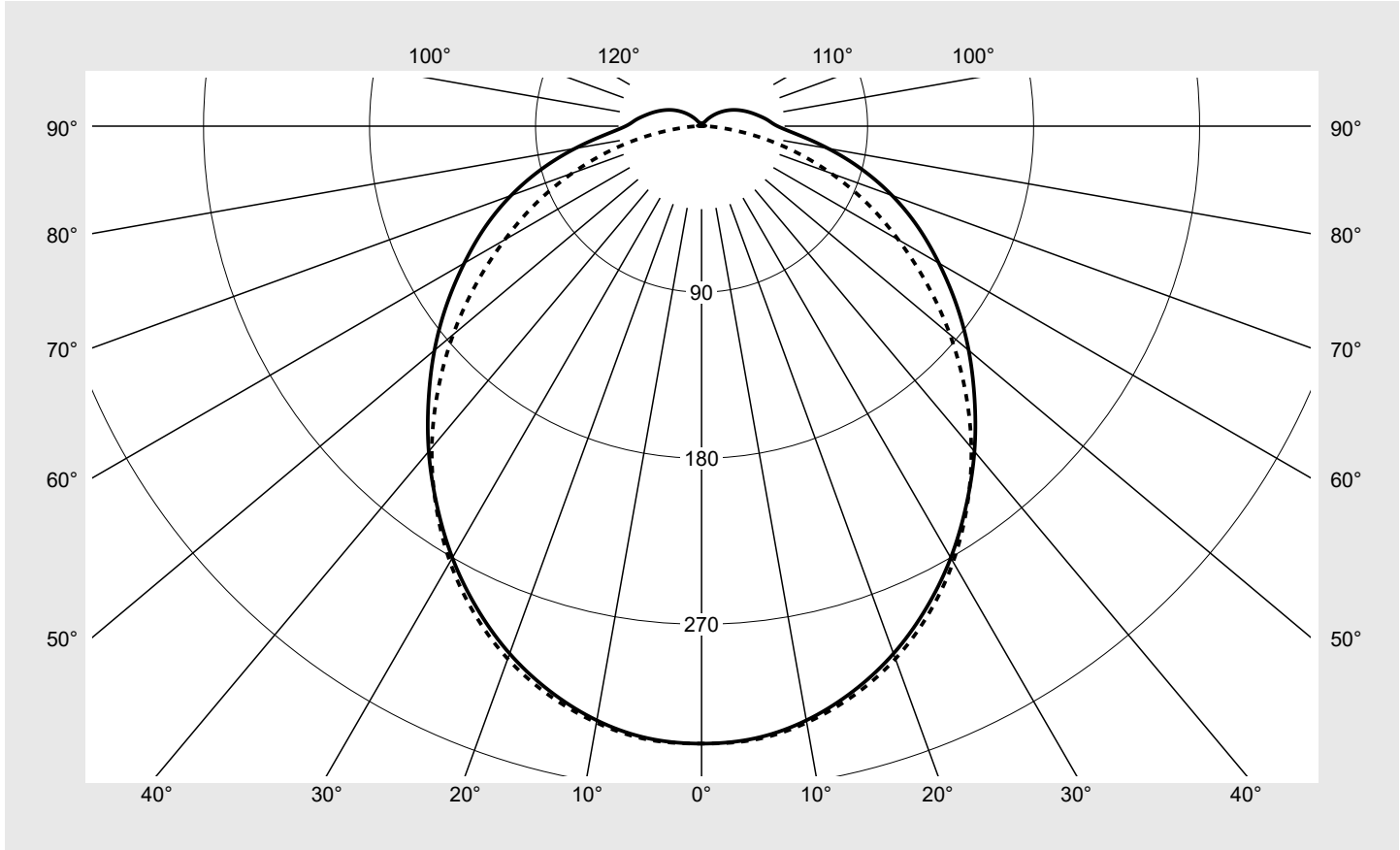


Photometric test report

Family Monsun® 21	Order number: 51FB10ML460K EAN: 4069025131584	LP number 59393_25
	Version prismatic diffuser, opal, PMMA, extremely wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Multilumen Rated values Net luminous flux = 6010 lm Power consumption = 33.2 W Luminous efficacy = 181 lm/W	serial documentation 08.05.2024
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 335 cd/klm**



Classifications	
DIN 5040	A 4 1
CIE	N1=46 N2=76 N3=93 N4=94 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	93.9%
ϕ_o	6.1%

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°	334.7	334.7	334.7	334.7	334.7	334.7	334.7	2.0	2.0
5°	333.1	333.6	331.1	331.9	332.7	333.2	333.8	15.9	17.9
10°	327.1	327.9	325.6	326.0	327.2	327.9	328.3	31.1	49.0
15°	317.2	318.4	316.4	316.9	317.9	318.6	319.4	45.1	94.1
20°	304.3	305.5	304.0	304.0	305.5	306.0	307.3	57.2	151.3
25°	288.3	289.5	288.3	288.0	289.4	289.8	291.5	67.0	218.3
30°	270.2	271.6	270.4	269.7	270.4	271.0	272.7	74.2	292.5
35°	250.3	251.6	250.4	249.2	249.0	249.3	251.0	78.6	371.1
40°	230.1	230.9	229.3	227.2	226.1	225.6	227.5	80.3	451.4
45°	209.3	209.8	207.4	204.4	202.0	200.5	202.0	79.4	530.9
50°	189.0	188.7	186.0	181.6	177.7	174.7	175.8	76.4	607.2
55°	168.7	168.2	164.8	159.1	153.5	149.2	149.2	71.4	678.6
60°	148.6	147.7	143.7	136.7	130.2	124.3	123.2	64.8	743.4
65°	129.5	127.8	123.0	114.9	108.3	100.8	99.1	57.1	800.4
70°	109.9	108.0	102.2	93.4	85.8	77.4	74.6	48.0	848.4
75°	89.7	87.9	81.7	72.5	63.8	55.3	51.1	38.1	886.5
80°	69.6	67.6	61.9	52.4	43.1	34.0	28.9	27.7	914.2
85°	52.2	49.9	44.6	35.4	25.7	16.3	10.6	18.5	932.7
90°	41.2	39.2	34.0	25.7	16.3	7.4	2.3	13.2	945.9
95°	36.2	34.5	30.1	22.6	13.9	5.6	2.0	11.4	957.3
100°	31.8	30.4	26.2	19.4	11.5	4.0	1.7	9.7	967.1
105°	27.9	26.5	22.5	16.5	9.2	2.5	1.5	8.1	975.2
110°	24.2	22.6	19.2	13.5	6.9	1.5	1.3	6.6	981.8
115°	20.8	19.1	16.0	10.8	4.9	1.4	1.2	5.2	987.0
120°	17.3	15.9	12.9	8.1	3.1	1.3	1.2	4.0	991.0
125°	13.9	12.5	9.8	5.6	1.6	1.3	1.1	2.9	993.8
130°	10.5	9.4	7.0	3.5	1.5	1.3	1.1	2.0	995.8
135°	7.3	6.4	4.4	1.9	1.5	1.2	1.0	1.3	997.1
140°	4.5	3.8	2.3	1.7	1.5	1.2	1.1	0.8	997.9
145°	2.3	2.1	1.9	1.7	1.5	1.3	1.2	0.5	998.4
150°	2.0	2.0	1.9	1.7	1.5	1.4	1.3	0.5	998.9
155°	1.9	1.9	1.8	1.7	1.5	1.4	1.4	0.4	999.3
160°	1.8	1.8	1.7	1.6	1.5	1.5	1.4	0.3	999.6
165°	1.7	1.7	1.6	1.5	1.5	1.5	1.4	0.2	999.8
170°	1.5	1.5	1.5	1.5	1.5	1.5	1.4	0.1	999.9
175°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.1	1000.0
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	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	20.9	22.6	21.2	22.9	23.2	20.7	22.4	21.1	22.7	23.1
	3H	22.7	24.2	23.1	24.6	24.9	22.2	23.7	22.6	24.1	24.4
	4H	23.5	25.0	23.9	25.3	25.7	22.8	24.2	23.1	24.6	24.9
	6H	24.3	25.6	24.7	26.0	26.4	23.2	24.5	23.6	24.9	25.3
	8H	24.6	25.9	25.1	26.3	26.7	23.3	24.6	23.7	25.0	25.4
	12H	24.9	26.1	25.4	26.5	26.9	23.4	24.6	23.8	25.0	25.4
4H	2H	21.6	23.1	22.0	23.4	23.8	21.5	22.9	21.9	23.3	23.6
	3H	23.6	24.9	24.0	25.3	25.7	23.1	24.4	23.5	24.8	25.2
	4H	24.6	25.7	25.0	26.1	26.6	23.8	25.0	24.3	25.4	25.8
	6H	25.5	26.5	25.9	26.9	27.4	24.3	25.3	24.8	25.8	26.2
	8H	25.9	26.8	26.4	27.3	27.7	24.5	25.4	25.0	25.9	26.3
	12H	26.3	27.1	26.8	27.6	28.1	24.6	25.4	25.1	25.9	26.4
8H	4H	24.9	25.8	25.4	26.3	26.8	24.3	25.2	24.7	25.6	26.1
	6H	26.0	26.8	26.5	27.2	27.7	24.9	25.7	25.4	26.1	26.6
	8H	26.5	27.2	27.0	27.7	28.2	25.1	25.8	25.6	26.3	26.8
	12H	27.0	27.6	27.5	28.1	28.6	25.3	25.9	25.8	26.4	26.9
12H	4H	25.0	25.8	25.4	26.3	26.7	24.4	25.2	24.8	25.6	26.1
	6H	26.1	26.8	26.6	27.2	27.8	25.1	25.7	25.6	26.2	26.7
	8H	26.6	27.2	27.2	27.7	28.3	25.3	25.9	25.8	26.4	27.0

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1299	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°		12680.6	12750.9	12818.3	13001.5	13387.4	13988.1	14951.9	
50°		12145.5	12170.7	12224.0	12347.0	12671.7	13222.9	14270.3	
55°		11630.2	11650.2	11660.3	11706.4	11934.1	12448.6	13521.1	
60°		11142.8	11132.4	11103.5	11055.1	11231.3	11641.8	12749.1	
65°		10735.8	10660.4	10562.6	10393.5	10569.1	10867.3	12050.6	
70°		10273.9	10163.0	9948.5	9676.2	9732.6	9903.7	11109.6	
75°		9692.0	9573.3	9271.1	8868.0	8728.5	8799.7	9905.8	
80°		9002.1	8830.7	8491.0	7891.5	7483.4	7207.6	8106.8	
85°		8470.0	8203.1	7821.2	7001.5	6180.2	5254.5	5477.6	

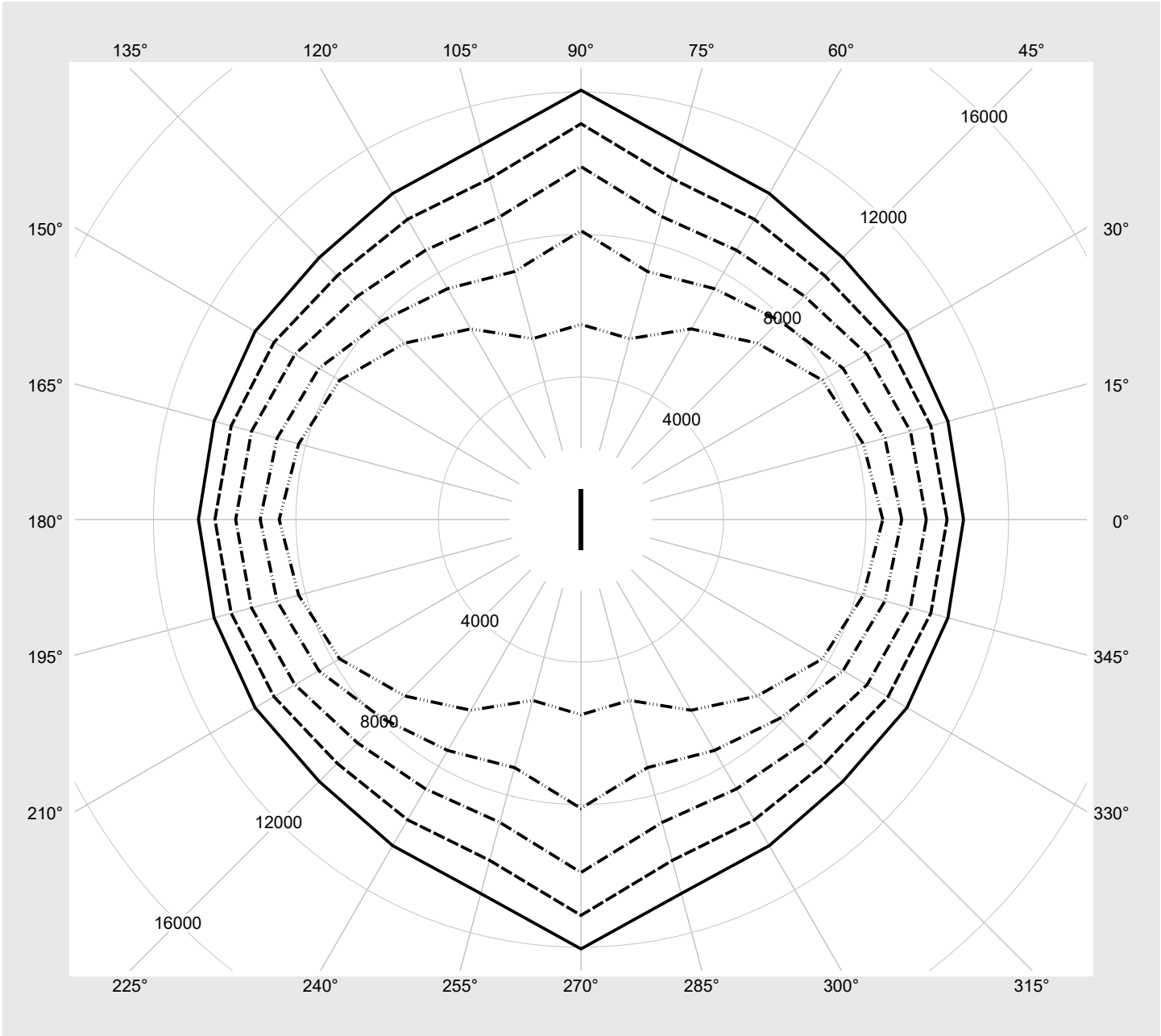
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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Multilumen Table	environmental temperature: 25°C	
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	6010	33.2
2	A	C	F	5720	31.6
3	A	D	E	5493	30.3
4	A	D	F	5048	27.8
5	B	C	E	4593	25.3
6	B	C	F	4448	24.4
7	B	D	E	4055	22.3
8	B	D	F	3983	21.9