

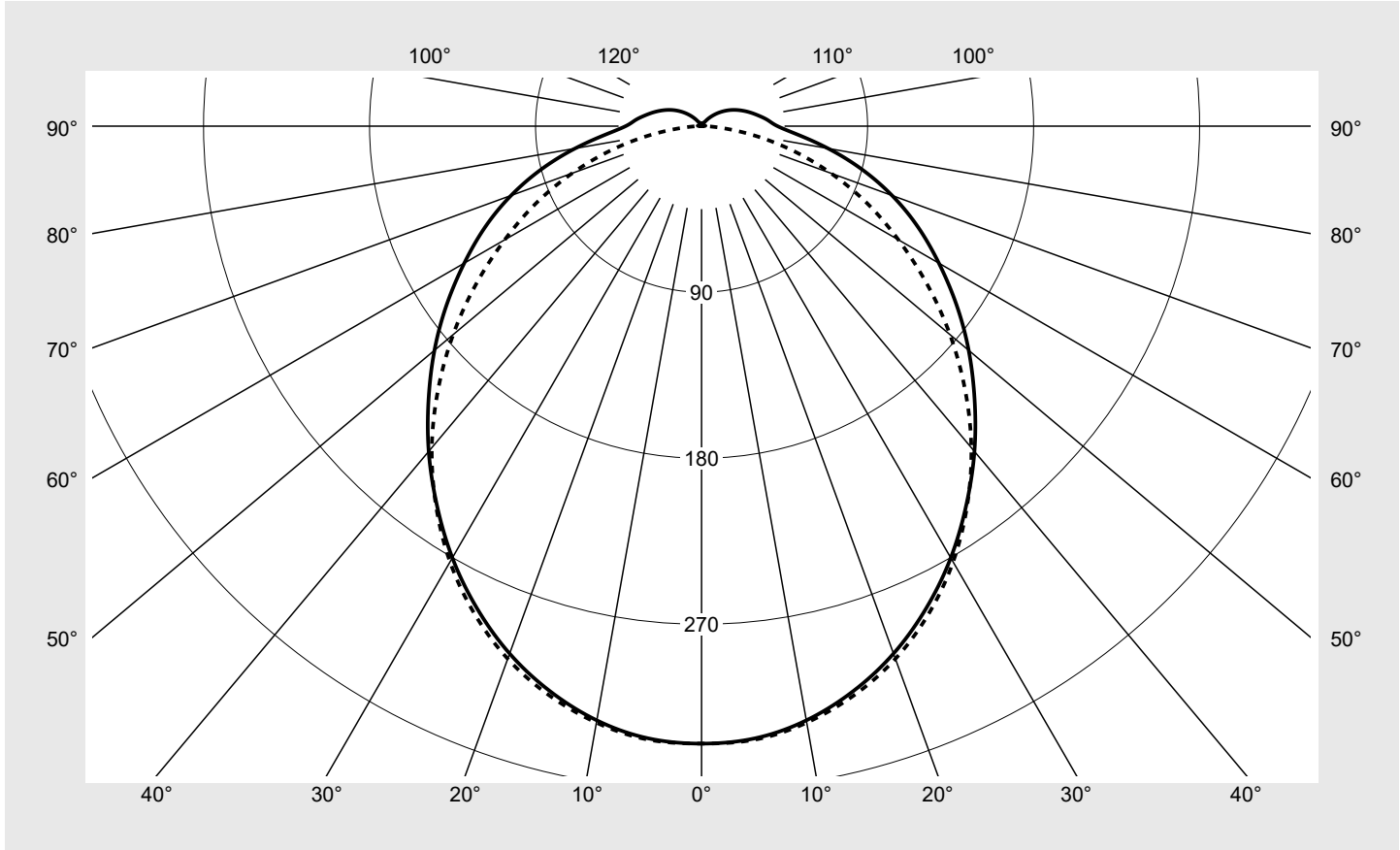


Photometric test report

Family Monsun® 21	Order number: 51FB10ML660K EAN: 4069025131607	LP number 59393_24
	Version prismatic diffuser, opal, PMMA, extremely wide distribution Lamps LED 6500 K CRI ≥ 80 Controlgear ECG Multilumen Rated values Net luminous flux = 5960 lm Power consumption = 34.1 W Luminous efficacy = 174.8 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	21.0	22.7	23.0
	3H	22.7	24.2	23.0	24.6	24.9	22.1	23.7	22.5	24.0	24.4
	4H	23.5	25.0	23.9	25.3	25.7	22.7	24.2	23.1	24.5	24.9
	6H	24.3	25.6	24.7	26.0	26.4	23.1	24.5	23.5	24.9	25.2
	8H	24.6	25.9	25.0	26.3	26.7	23.3	24.6	23.7	24.9	25.3
	12H	24.9	26.1	25.3	26.5	26.9	23.3	24.5	23.7	24.9	25.4
4H	2H	21.6	23.0	22.0	23.4	23.8	21.4	22.9	21.8	23.2	23.6
	3H	23.6	24.8	24.0	25.2	25.6	23.1	24.4	23.5	24.7	25.1
	4H	24.6	25.7	25.0	26.1	26.5	23.8	24.9	24.2	25.3	25.8
	6H	25.5	26.5	25.9	26.9	27.3	24.3	25.3	24.8	25.7	26.2
	8H	25.9	26.8	26.3	27.2	27.7	24.5	25.4	24.9	25.8	26.3
	12H	26.3	27.1	26.7	27.5	28.0	24.6	25.4	25.0	25.9	26.3
8H	4H	24.9	25.8	25.3	26.3	26.7	24.2	25.1	24.7	25.6	26.1
	6H	26.0	26.7	26.4	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	24.9	25.8	25.4	26.2	26.7	24.3	25.1	24.8	25.6	26.1
	6H	26.0	26.7	26.5	27.2	27.7	25.0	25.7	25.5	26.2	26.7
	8H	26.6	27.2	27.1	27.7	28.2	25.3	25.9	25.8	26.4	26.9

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°		12575.1	12644.8	12711.7	12893.4	13276.0	13871.7	14827.5	
50°		12044.5	12069.4	12122.3	12244.3	12566.3	13112.9	14151.5	
55°		11533.4	11553.3	11563.3	11609.0	11834.8	12345.0	13408.6	
60°		11050.1	11039.8	11011.1	10963.1	11137.9	11545.0	12643.0	
65°		10646.5	10571.7	10474.8	10307.0	10481.2	10776.9	11950.3	
70°		10188.4	10078.5	9865.7	9595.7	9651.7	9821.3	11017.2	
75°		9611.4	9493.6	9194.0	8794.2	8655.9	8726.5	9823.4	
80°		8927.2	8757.2	8420.3	7825.9	7421.1	7147.7	8039.3	
85°		8399.6	8134.9	7756.1	6943.3	6128.8	5210.8	5432.0	

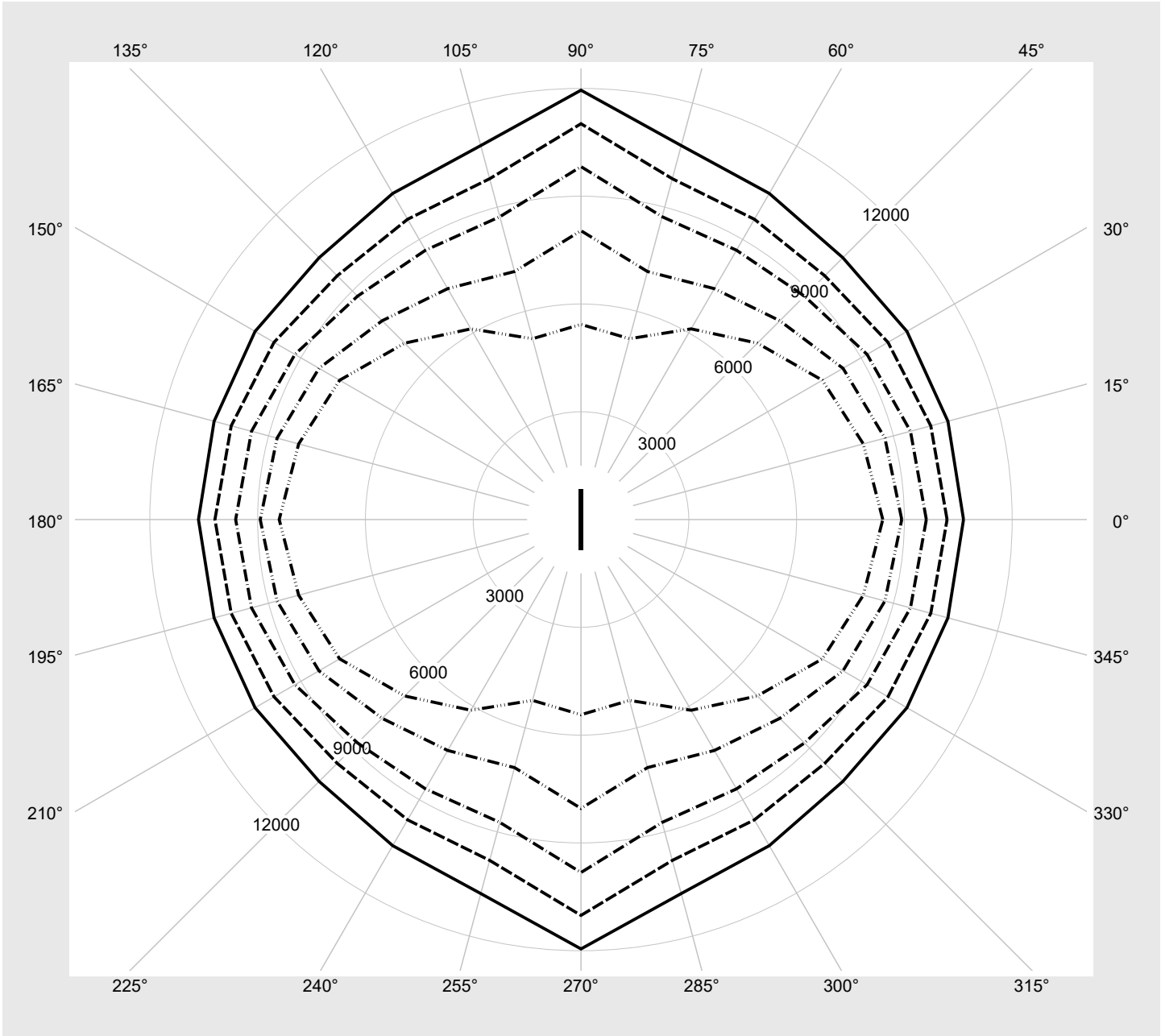
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Luminance values in cd/m²

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	5960	34.1
2	A	C	F	5744	32.8
3	A	D	E	5466	31.2
4	A	D	F	5023	29.6
5	B	C	E	4663	26.5
6	B	C	F	4447	25.3
7	B	D	E	3994	22.8
8	B	D	F	3850	21.9