
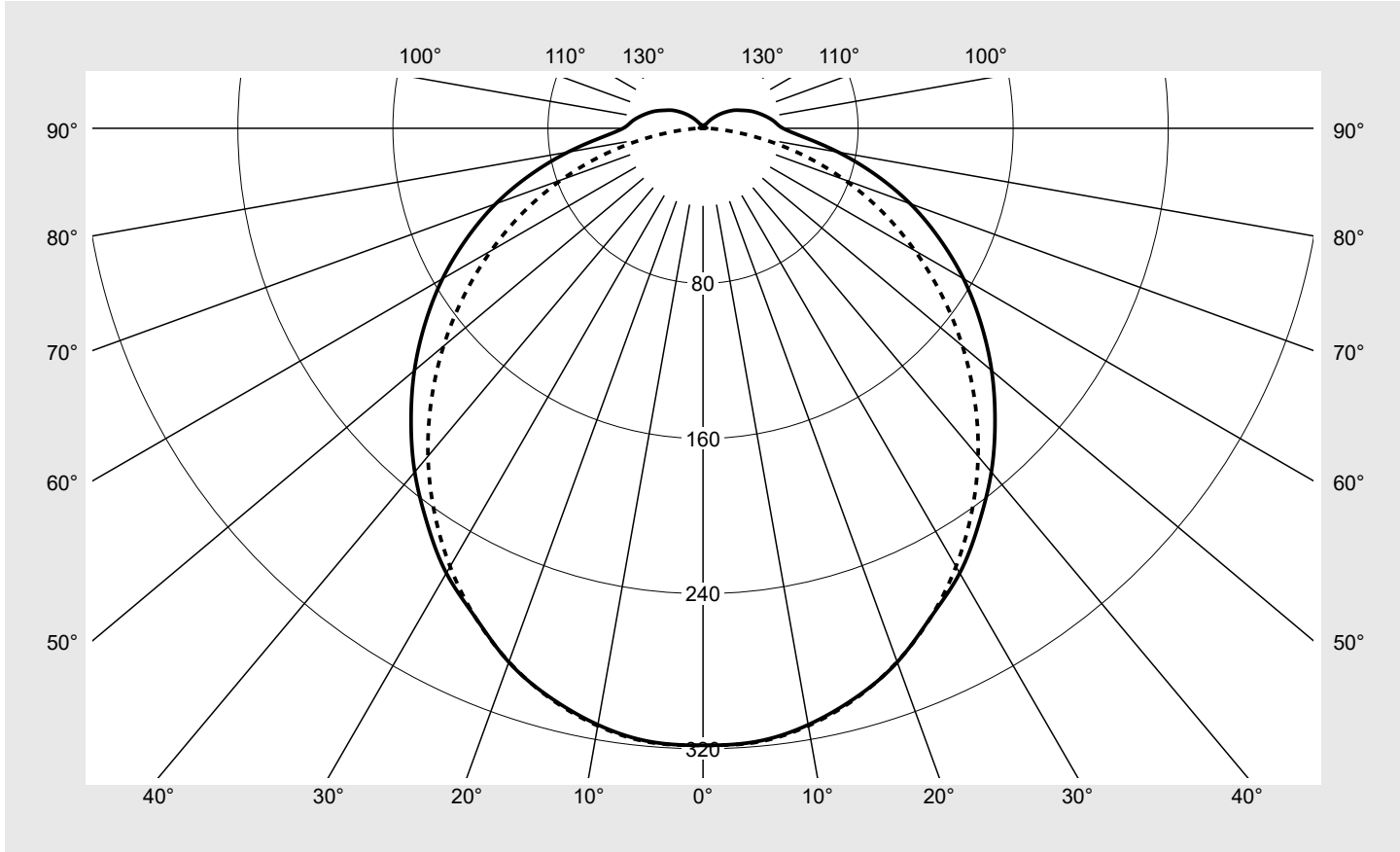


Photometric test report

Family Monsun® 21	Order number: 51FB20DL420K EAN: 4069025131706	LP number 59394_18
	Version prismatic diffuser, opal, polycarbonate, extremely wide distribution	serial documentation 08.05.2024
	Lamps LED 4000 K CRI ≥ 80	
	Controlgear ECG-DALI	
	Rated values Net luminous flux = 2660 lm Power consumption = 17.1 W Luminous efficacy = 155.6 lm/W	



Luminous intensity in cd/klm C180-0 C270-90 Imax: 318 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
		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°	318.2	318.2	318.2	318.2	318.2	318.2	318.2	1.9	1.9
5°	317.5	317.5	315.1	315.9	316.6	317.2	317.8	15.1	17.0
10°	312.4	312.6	310.3	310.8	311.5	312.2	312.9	29.7	46.7
15°	304.0	304.5	302.1	302.5	303.1	303.6	304.5	43.0	89.7
20°	293.0	293.3	291.0	291.0	291.4	291.9	292.8	54.7	144.5
25°	278.2	280.0	277.5	276.9	276.9	277.3	278.2	64.3	208.8
30°	264.9	265.0	262.4	260.7	260.0	260.0	261.0	71.8	280.6
35°	248.3	248.5	245.7	243.1	241.2	240.6	241.7	76.7	357.3
40°	231.4	230.9	227.8	224.4	221.2	219.7	220.8	79.3	436.6
45°	213.0	212.5	208.9	204.3	200.0	197.3	198.2	79.4	515.9
50°	194.4	193.4	189.5	184.3	178.4	174.4	174.7	77.3	593.2
55°	174.9	174.0	169.9	163.6	156.5	151.3	150.6	73.2	666.4
60°	155.2	153.6	149.3	142.2	134.7	128.1	126.2	67.1	733.5
65°	134.5	133.3	127.9	120.6	112.6	105.3	102.1	59.5	793.0
70°	113.8	111.2	106.2	98.6	90.1	81.8	77.7	50.1	843.1
75°	91.9	90.6	84.2	76.2	67.3	58.7	53.5	39.7	882.8
80°	70.8	68.8	62.9	54.4	45.2	36.1	30.1	28.6	911.4
85°	52.2	50.3	44.7	36.3	26.8	17.6	11.2	18.9	930.2
90°	41.3	39.2	33.7	25.7	16.7	7.7	2.0	13.2	943.5
95°	37.2	35.5	30.5	23.1	14.2	5.7	1.8	11.7	955.1
100°	33.6	31.9	27.2	20.0	11.9	4.1	1.6	10.1	965.3
105°	29.8	28.2	23.6	17.2	9.5	2.6	1.4	8.5	973.8
110°	26.0	24.2	20.2	14.2	7.2	1.5	1.2	7.0	980.8
115°	21.9	20.5	16.9	11.4	5.1	1.4	1.2	5.5	986.3
120°	18.6	17.0	13.7	8.7	3.2	1.3	1.1	4.3	990.6
125°	14.8	13.4	10.4	6.0	1.7	1.3	1.1	3.1	993.6
130°	11.3	10.0	7.4	3.7	1.5	1.3	1.1	2.1	995.7
135°	7.8	6.8	4.7	1.9	1.5	1.3	1.0	1.3	997.1
140°	4.8	4.0	2.4	1.7	1.5	1.2	1.0	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	1.3	0.4	999.3
160°	1.8	1.8	1.8	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	1.6	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	1.4	0.1	1000.0
180°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	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	18.2	20.0	18.6	20.3	20.6	18.0	19.7	18.3	20.0	20.3
	3H	20.1	21.6	20.5	22.0	22.3	19.5	21.1	19.9	21.4	21.8
	4H	20.9	22.4	21.3	22.7	23.1	20.1	21.6	20.5	22.0	22.3
	6H	21.6	23.0	22.1	23.4	23.8	20.5	21.9	20.9	22.3	22.7
	8H	22.0	23.3	22.4	23.6	24.1	20.7	22.0	21.1	22.4	22.8
	12H	22.3	23.5	22.7	23.9	24.3	20.7	22.0	21.2	22.4	22.8
4H	2H	19.0	20.5	19.4	20.8	21.2	18.8	20.2	19.2	20.6	21.0
	3H	21.0	22.3	21.4	22.7	23.1	20.5	21.8	20.9	22.2	22.6
	4H	22.0	23.1	22.4	23.5	24.0	21.2	22.4	21.7	22.8	23.2
	6H	22.9	23.9	23.3	24.3	24.8	21.8	22.8	22.2	23.2	23.7
	8H	23.3	24.2	23.7	24.6	25.1	21.9	22.9	22.4	23.3	23.8
	12H	23.6	24.5	24.1	24.9	25.4	22.0	22.9	22.5	23.3	23.8
8H	4H	22.3	23.3	22.8	23.7	24.2	21.7	22.6	22.1	23.0	23.5
	6H	23.4	24.1	23.8	24.6	25.1	22.4	23.1	22.8	23.6	24.1
	8H	23.9	24.6	24.3	25.0	25.6	22.6	23.3	23.1	23.8	24.3
	12H	24.4	25.0	24.9	25.5	26.0	22.8	23.4	23.3	23.9	24.4
12H	4H	22.4	23.2	22.8	23.7	24.2	21.8	22.6	22.3	23.1	23.5
	6H	23.5	24.1	23.9	24.6	25.1	22.5	23.2	23.0	23.7	24.2
	8H	24.0	24.6	24.5	25.1	25.6	22.8	23.4	23.3	23.9	24.4

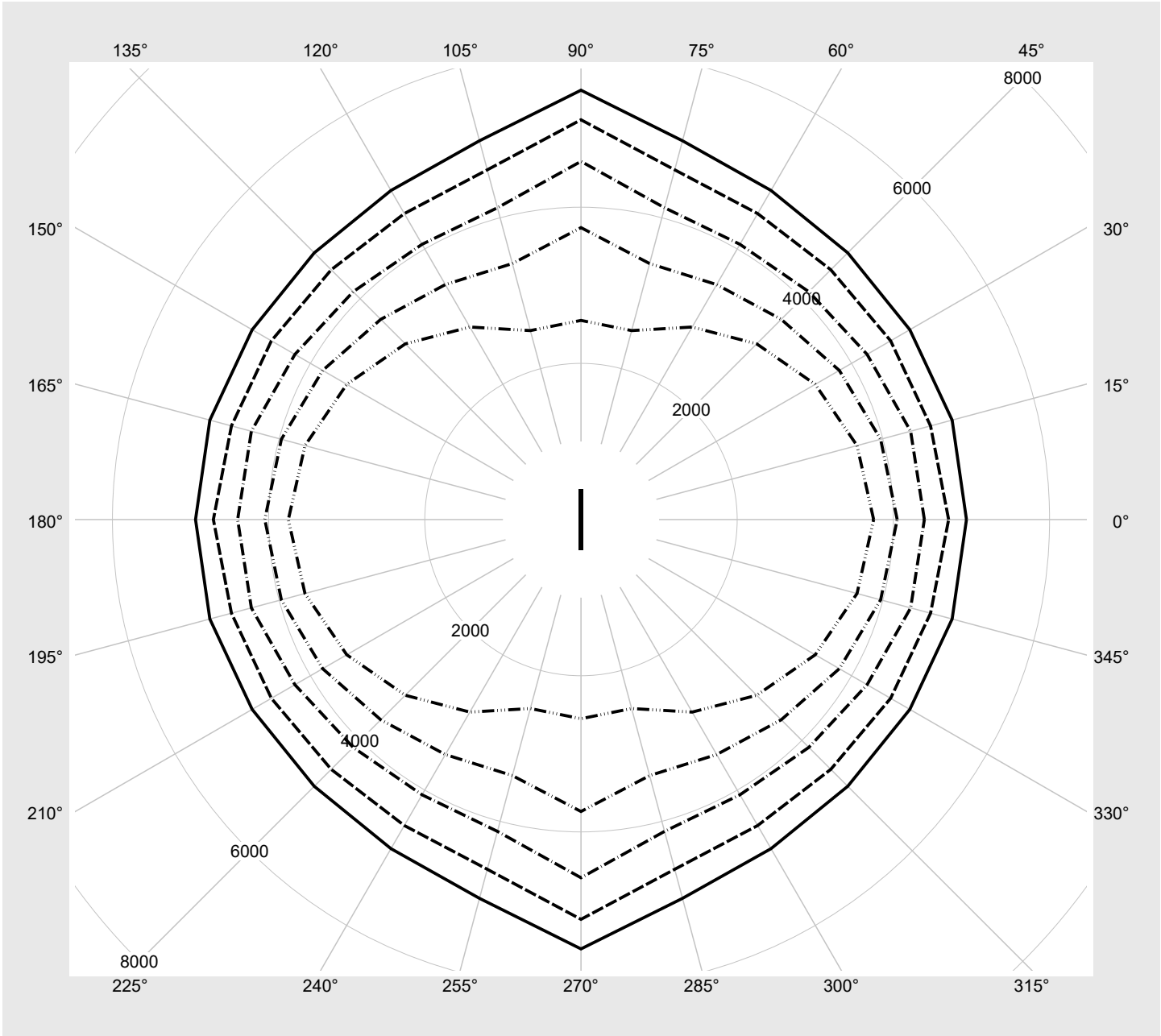
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1299	H(C0) = 21	H(C180) = 21
			B = 87	H(C90) = 21	H(C270) = 21

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°		5712.6	5716.6	5712.0	5753.1	5866.8	6090.6	6493.0	
50°		5528.0	5518.9	5512.1	5543.7	5628.5	5841.8	6277.8	
55°		5338.1	5331.9	5321.2	5327.9	5384.8	5585.0	6038.5	
60°		5151.6	5125.6	5105.9	5087.2	5140.5	5310.6	5780.6	
65°		4936.0	4920.3	4862.1	4830.6	4866.4	5021.9	5498.3	
70°		4707.6	4633.9	4578.2	4523.8	4524.5	4636.5	5119.4	
75°		4396.9	4370.0	4230.4	4126.0	4070.3	4133.9	4586.7	
80°		4048.9	3972.3	3819.7	3626.0	3474.6	3394.3	3738.5	
85°		3747.4	3659.3	3463.3	3182.0	2847.0	2505.3	2550.4	

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°



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Dimming levels table	environmental temperature: 25°C	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	2660	17.1
95	241	252	2526	16.4
90	228	250	2392	15.5
85	215	248	2257	14.8
80	203	246	2133	14.1
75	190	243	1998	13.3
70	177	241	1862	12.5
65	164	238	1727	11.7
60	152	235	1601	11.0
55	139	232	1465	10.3
50	126	228	1328	9.5
45	114	225	1201	8.8
40	101	220	1064	8.0
35	88	215	926	7.3
30	76	210	799	6.6
25	63	203	661	5.8
20	51	195	532	5.1
15	38	184	394	4.3
10	26	171	265	3.6
5	14	148	137	2.8
3	8	127	73	2.4