

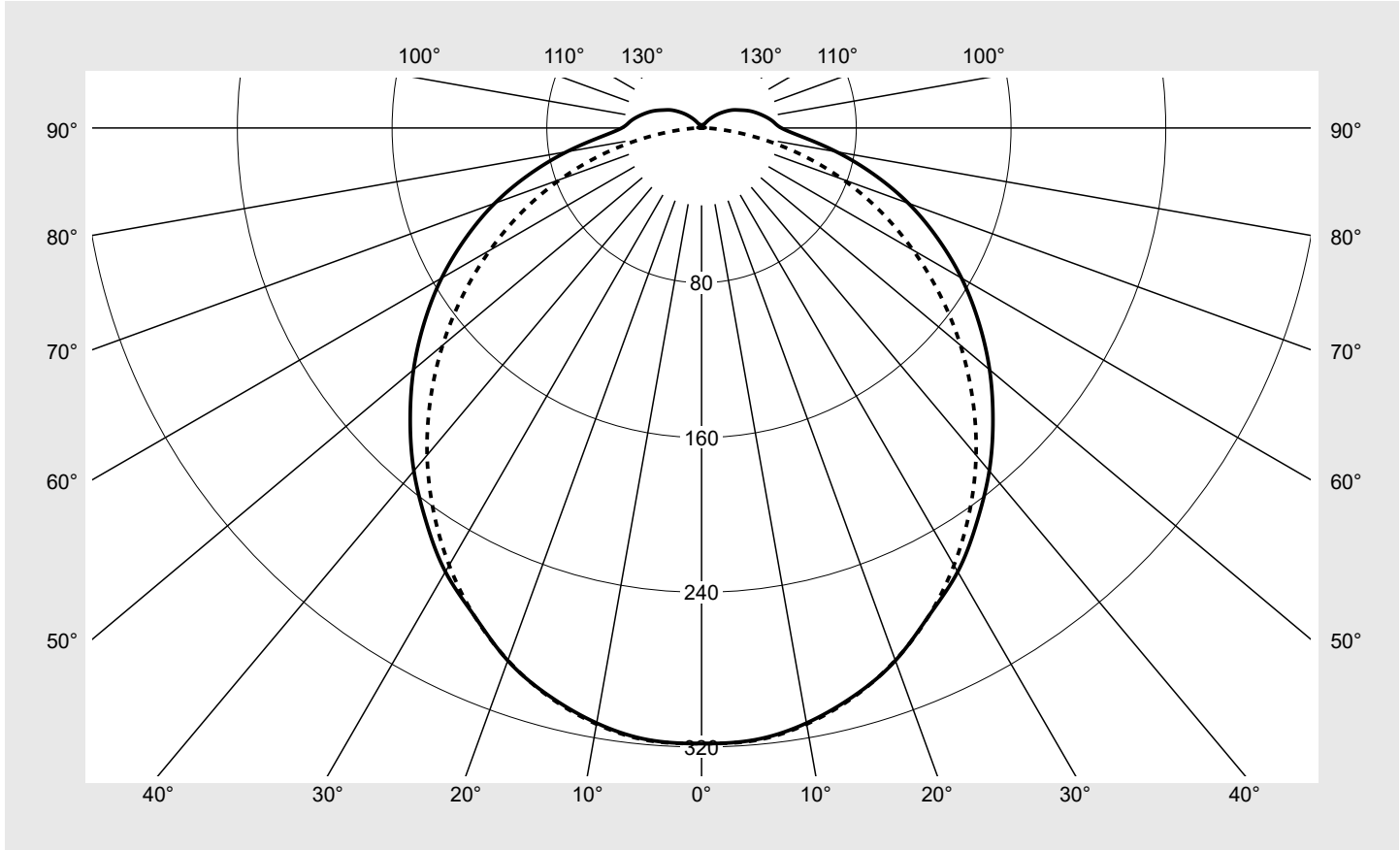


Photometric test report

Family Monsun® 21	Order number: 51FB20DL440K EAN: 4069025131720	LP number 59394_17
	Version prismatic diffuser, opal, polycarbonate, extremely wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 4320 lm Power consumption = 27.1 W Luminous efficacy = 159.4 lm/W	serial documentation 08.05.2024
		

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	19.9	21.7	20.3	22.0	22.3	19.6	21.4	20.0	21.7	22.0
	3H	21.8	23.3	22.1	23.7	24.0	21.2	22.8	21.6	23.1	23.5
	4H	22.6	24.1	23.0	24.4	24.8	21.8	23.3	22.2	23.6	24.0
	6H	23.3	24.7	23.7	25.1	25.5	22.2	23.6	22.6	24.0	24.4
	8H	23.7	25.0	24.1	25.3	25.7	22.4	23.7	22.8	24.1	24.5
	12H	24.0	25.2	24.4	25.6	26.0	22.4	23.7	22.9	24.1	24.5
4H	2H	20.7	22.1	21.1	22.5	22.9	20.4	21.9	20.8	22.3	22.6
	3H	22.7	24.0	23.1	24.3	24.8	22.2	23.5	22.6	23.8	24.3
	4H	23.7	24.8	24.1	25.2	25.6	22.9	24.1	23.4	24.5	24.9
	6H	24.5	25.6	25.0	26.0	26.4	23.4	24.5	23.9	24.9	25.4
	8H	24.9	25.9	25.4	26.3	26.8	23.6	24.6	24.1	25.0	25.5
	12H	25.3	26.1	25.8	26.6	27.1	23.7	24.6	24.2	25.0	25.5
8H	4H	24.0	24.9	24.5	25.4	25.9	23.4	24.3	23.8	24.7	25.2
	6H	25.0	25.8	25.5	26.3	26.8	24.0	24.8	24.5	25.3	25.8
	8H	25.5	26.3	26.0	26.7	27.2	24.3	25.0	24.8	25.5	26.0
	12H	26.1	26.7	26.6	27.1	27.7	24.4	25.0	24.9	25.5	26.1
12H	4H	24.0	24.9	24.5	25.4	25.8	23.5	24.3	23.9	24.7	25.2
	6H	25.1	25.8	25.6	26.3	26.8	24.2	24.9	24.7	25.4	25.9
	8H	25.7	26.3	26.2	26.8	27.3	24.5	25.1	25.0	25.6	26.1

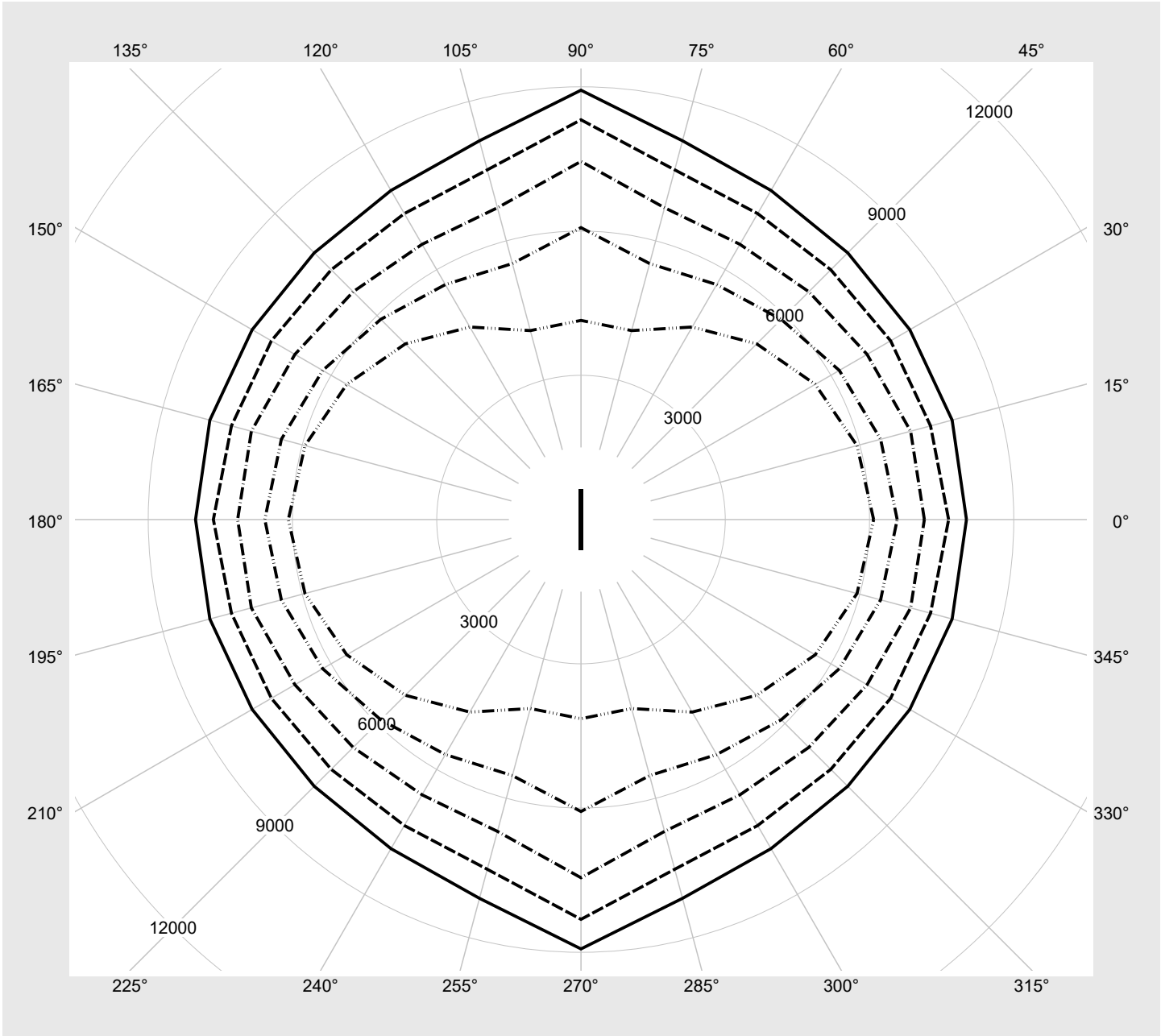
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1299	H(C0) = 21	H(C180) = 21
			B = 87	H(C90) = 21	H(C270) = 21

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°	45°	9277.6	9284.0	9276.6	9343.4	9528.0	9891.4	10545.0	
50°	50°	8977.9	8963.1	8952.0	9003.3	9141.1	9487.4	10195.5	
55°	55°	8669.5	8659.3	8641.9	8652.8	8745.2	9070.3	9806.9	
60°	60°	8366.5	8324.3	8292.2	8261.9	8348.5	8624.7	9388.0	
65°	65°	8016.3	7990.9	7896.3	7845.1	7903.3	8155.9	8929.6	
70°	70°	7645.4	7525.7	7435.3	7346.9	7348.0	7530.0	8314.2	
75°	75°	7140.8	7097.1	6870.4	6700.9	6610.4	6713.7	7449.0	
80°	80°	6575.7	6451.3	6203.4	5888.8	5642.9	5512.5	6071.5	
85°	85°	6085.9	5943.0	5624.6	5167.8	4623.7	4068.7	4142.0	

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



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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	4320	27.1
95	241	252	4108	25.9
90	228	250	3892	24.5
85	215	248	3678	23.2
80	202	246	3463	21.9
75	189	243	3246	20.6
70	176	241	3030	19.4
65	163	238	2811	18.1
60	150	235	2591	16.8
55	137	231	2370	15.3
50	125	228	2165	14.3
45	112	224	1942	13.0
40	100	220	1736	11.8
35	87	215	1511	10.6
30	75	209	1303	9.3
25	62	202	1076	8.1
20	50	194	867	6.9
15	37	183	639	5.7
10	25	169	428	4.5
5	13	145	217	3.3
2	5	110	75	2.5