

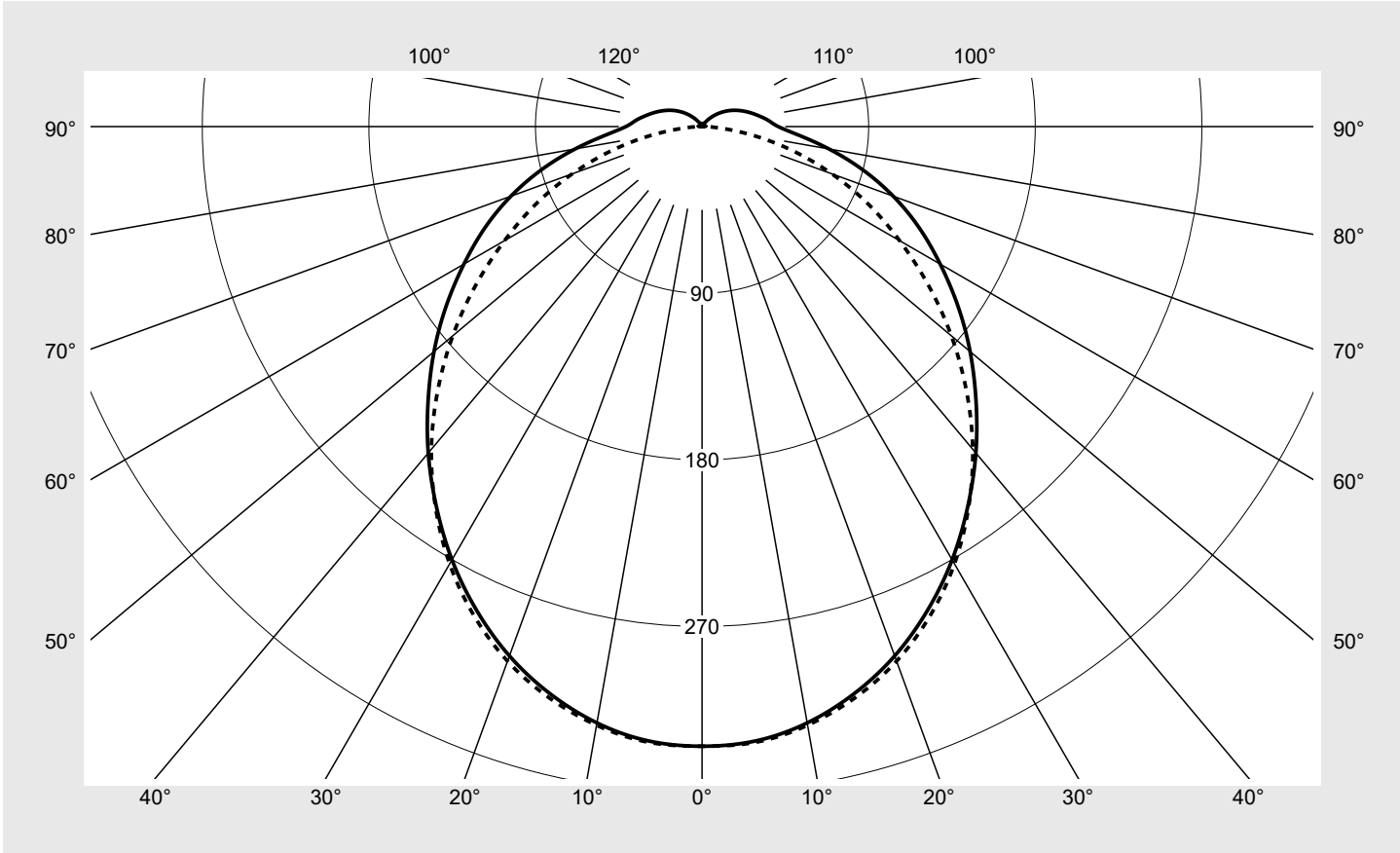


Photometric test report

Family Monsun® 21	Order number: 51FB10DL440K EAN: 4069025131546	LP number 59393_28
	Version prismatic diffuser, opal, PMMA, extremely wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 4330 lm Power consumption = 24.3 W Luminous efficacy = 178.2 lm/W	serial documentation 04.09.2024
		

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	19.7	21.5	20.1	21.8	22.1	19.6	21.3	19.9	21.6	21.9
	3H	21.6	23.1	21.9	23.4	23.8	21.0	22.6	21.4	22.9	23.3
	4H	22.4	23.9	22.8	24.2	24.6	21.6	23.1	22.0	23.4	23.8
	6H	23.1	24.5	23.6	24.9	25.3	22.0	23.4	22.4	23.8	24.1
	8H	23.5	24.8	23.9	25.1	25.5	22.2	23.4	22.6	23.8	24.2
	12H	23.8	25.0	24.2	25.4	25.8	22.2	23.4	22.6	23.8	24.2
4H	2H	20.5	21.9	20.8	22.3	22.6	20.3	21.8	20.7	22.1	22.5
	3H	22.5	23.7	22.9	24.1	24.5	22.0	23.2	22.4	23.6	24.0
	4H	23.4	24.6	23.9	25.0	25.4	22.7	23.8	23.1	24.2	24.7
	6H	24.3	25.4	24.8	25.8	26.2	23.2	24.2	23.6	24.6	25.1
	8H	24.8	25.7	25.2	26.1	26.6	23.3	24.3	23.8	24.7	25.2
	12H	25.2	26.0	25.6	26.4	26.9	23.5	24.3	23.9	24.7	25.2
8H	4H	23.8	24.7	24.2	25.1	25.6	23.1	24.0	23.6	24.5	24.9
	6H	24.8	25.6	25.3	26.1	26.6	23.8	24.5	24.3	25.0	25.5
	8H	25.4	26.1	25.9	26.5	27.1	24.0	24.7	24.5	25.2	25.7
	12H	25.9	26.5	26.4	27.0	27.5	24.2	24.8	24.7	25.2	25.8
12H	4H	23.8	24.7	24.3	25.1	25.6	23.2	24.0	23.7	24.5	25.0
	6H	24.9	25.6	25.4	26.1	26.6	23.9	24.6	24.4	25.1	25.6
	8H	25.5	26.1	26.0	26.6	27.1	24.2	24.8	24.7	25.3	25.8

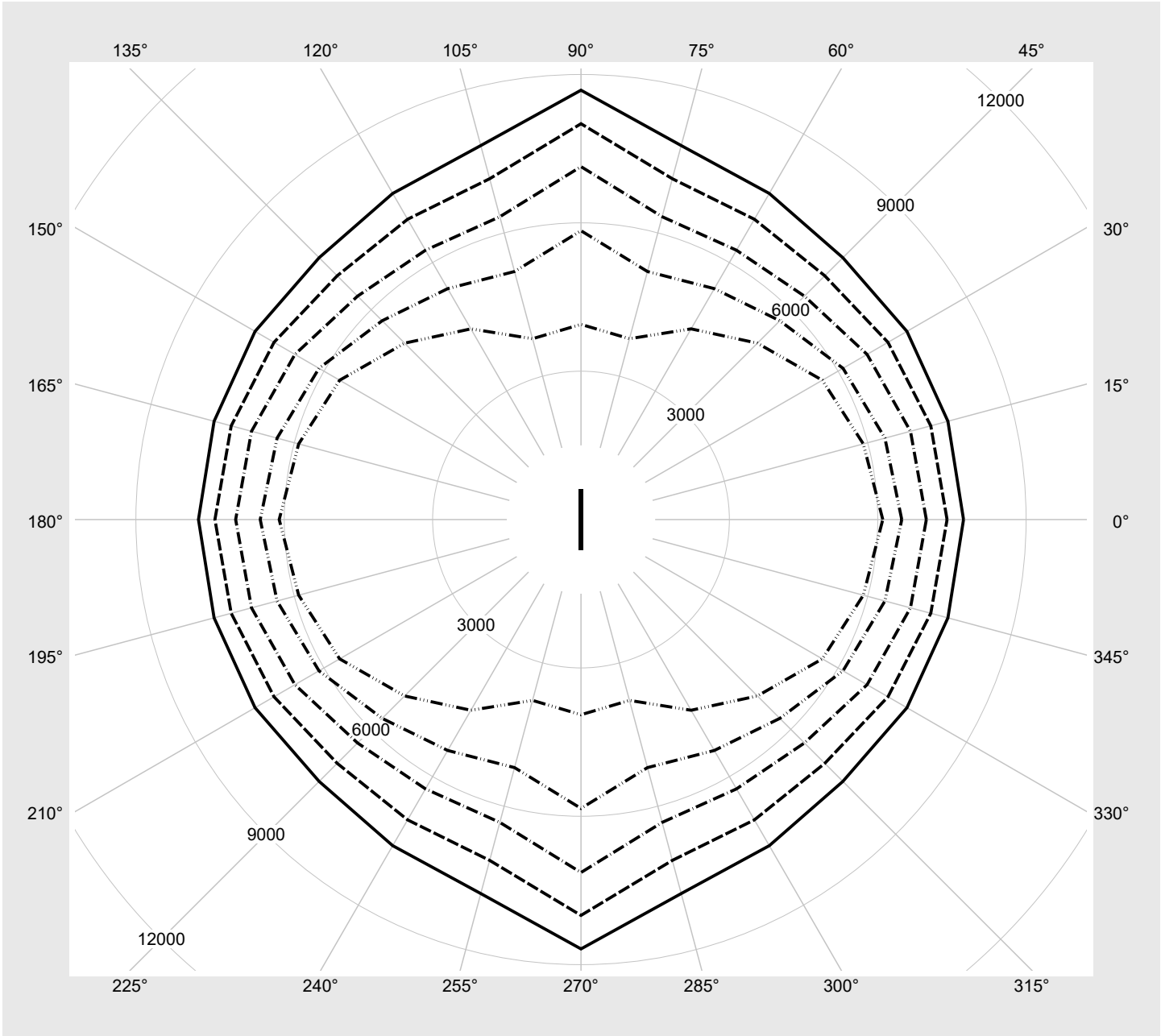
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1299	H(C0) = 21	H(C180) = 21
			B = 87	H(C90) = 21	H(C270) = 21

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°		9136.0	9186.6	9235.2	9367.1	9645.2	10077.9	10772.3	
50°		8750.4	8768.5	8807.0	8895.6	9129.5	9526.6	10281.2	
55°		8379.2	8393.6	8400.8	8434.1	8598.1	8968.8	9741.5	
60°		8028.0	8020.5	7999.7	7964.8	8091.8	8387.5	9185.3	
65°		7734.8	7680.4	7610.0	7488.1	7614.7	7829.5	8682.0	
70°		7402.0	7322.1	7167.5	6971.4	7012.0	7135.3	8004.1	
75°		6982.7	6897.2	6679.5	6389.1	6288.6	6339.9	7136.8	
80°		6485.7	6362.2	6117.4	5685.6	5391.5	5192.8	5840.6	
85°		6102.4	5910.1	5634.9	5044.4	4452.6	3785.7	3946.4	

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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	4330	24.3
95	241	252	4117	23.2
90	228	250	3902	22.1
85	215	248	3686	21.0
80	202	246	3471	19.9
75	189	243	3252	18.7
70	176	241	3033	17.5
65	163	238	2813	16.4
60	150	235	2592	15.2
55	138	232	2387	14.0
50	125	228	2165	12.7
45	112	224	1942	11.5
40	100	220	1734	10.4
35	87	215	1509	9.2
30	75	209	1301	8.1
25	62	202	1075	7.0
20	50	194	865	5.9
15	38	184	655	5.0
10	25	169	426	3.9
5	13	145	215	3.1
5	12	142	197	3.0