

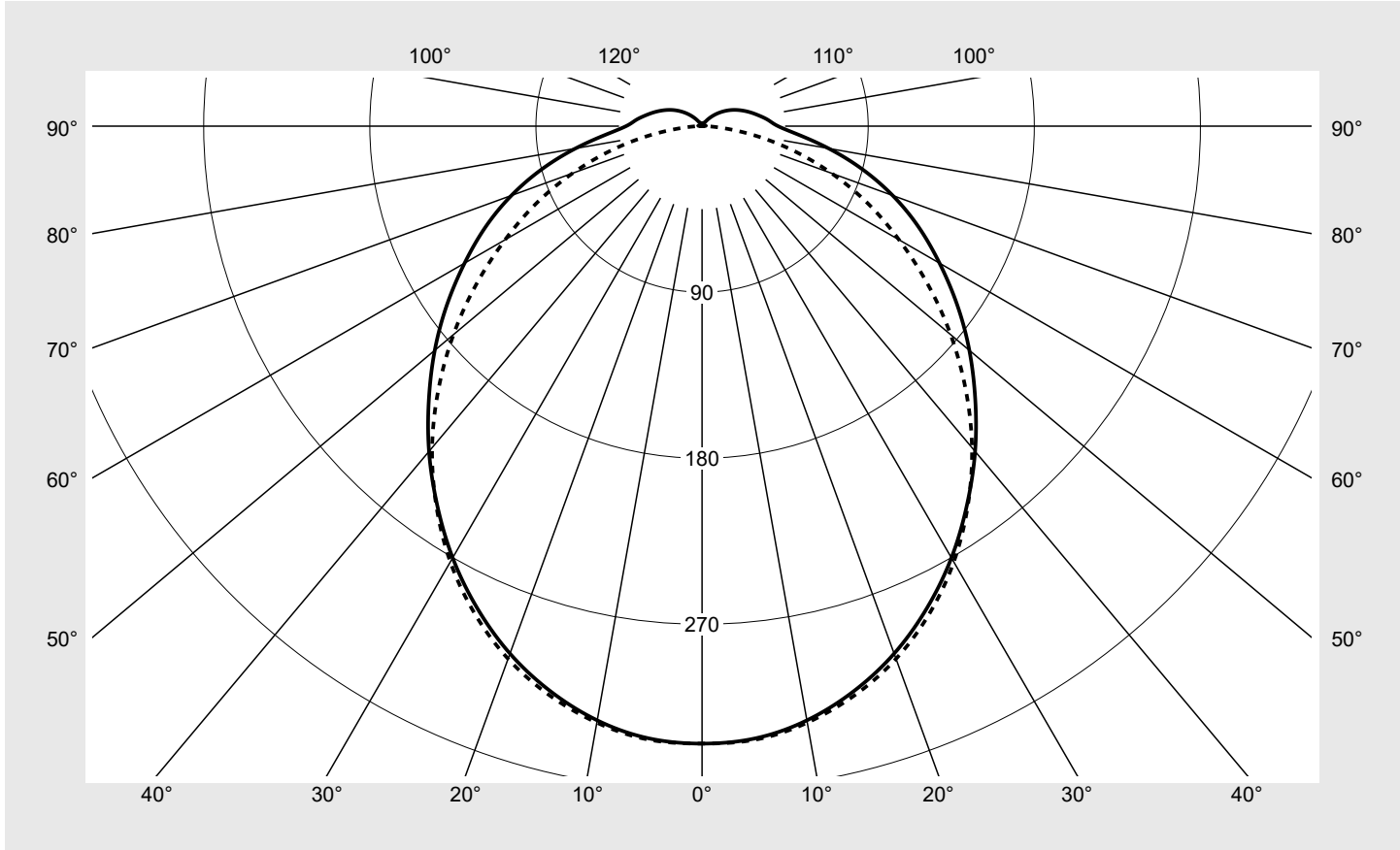


Photometric test report

Family Monsun® 21	Order number: 51FB10DL447K3H EAN: 4069025131560	LP number 59393_26
	Version prismatic diffuser, opal, PMMA, extremely wide distribution, emergence lighting 3h Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 4330 lm Power consumption = 28.4 W Luminous efficacy = 152.5 lm/W	serial documentation 04.06.2024
		

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

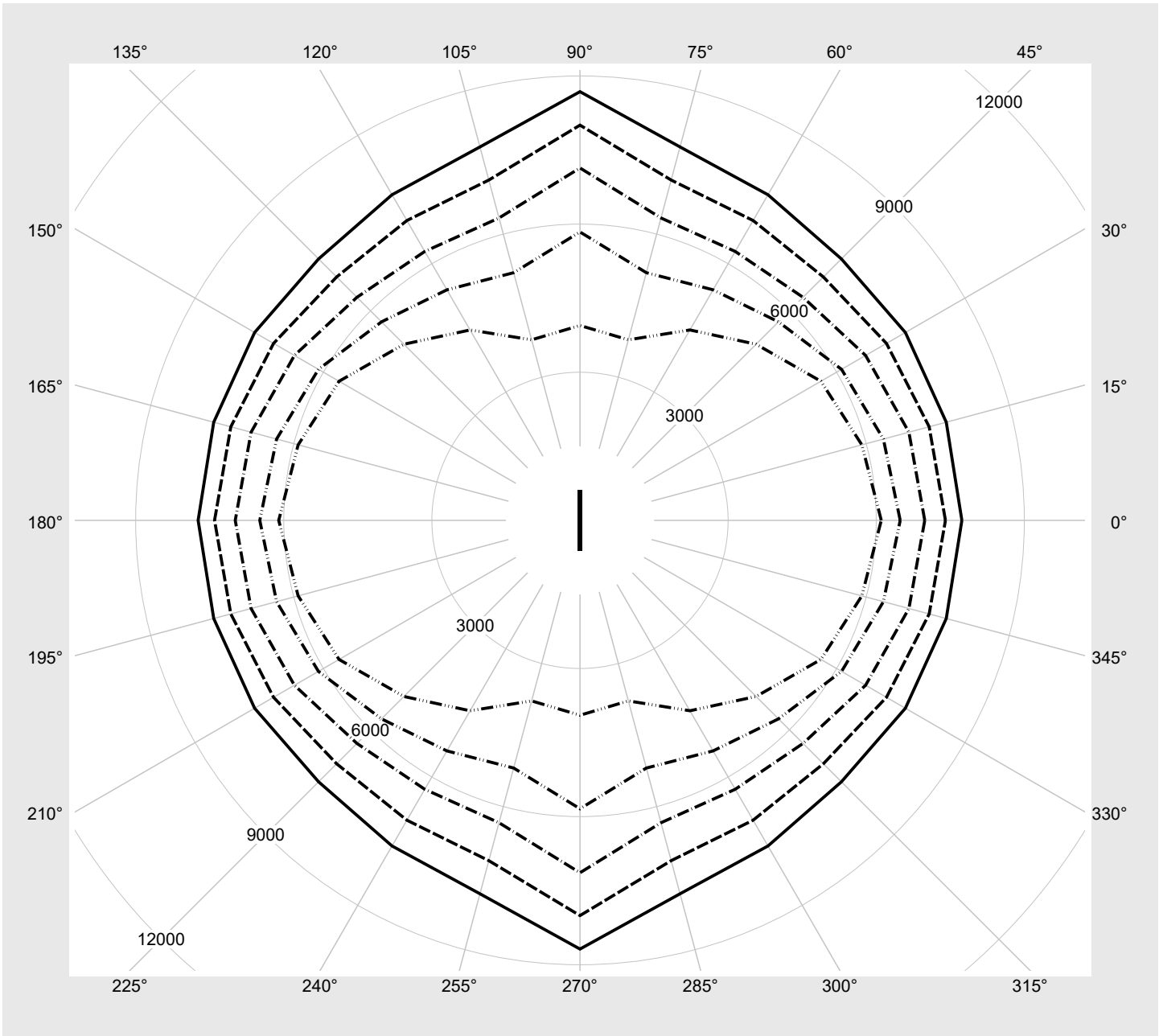
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1299	H(C0) = 21	H(C180) = 21
			B = 87	H(C90) = 21	H(C270) = 21

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	28.4
95	241	252	4117	27.2
90	228	250	3902	26.1
85	215	248	3686	24.9
80	202	246	3471	23.8
75	189	243	3252	22.6
70	176	241	3033	21.4
65	163	238	2813	20.3
60	150	235	2592	19.1
55	138	232	2387	18.0
50	125	228	2165	16.8
45	112	224	1942	15.7
40	100	220	1734	14.7
35	87	215	1509	13.5
30	75	209	1301	12.5
25	62	202	1075	11.4
20	50	194	865	10.3
15	38	184	655	9.2
10	25	169	426	8.0
5	13	145	215	6.9
2	5	110	74	6.2