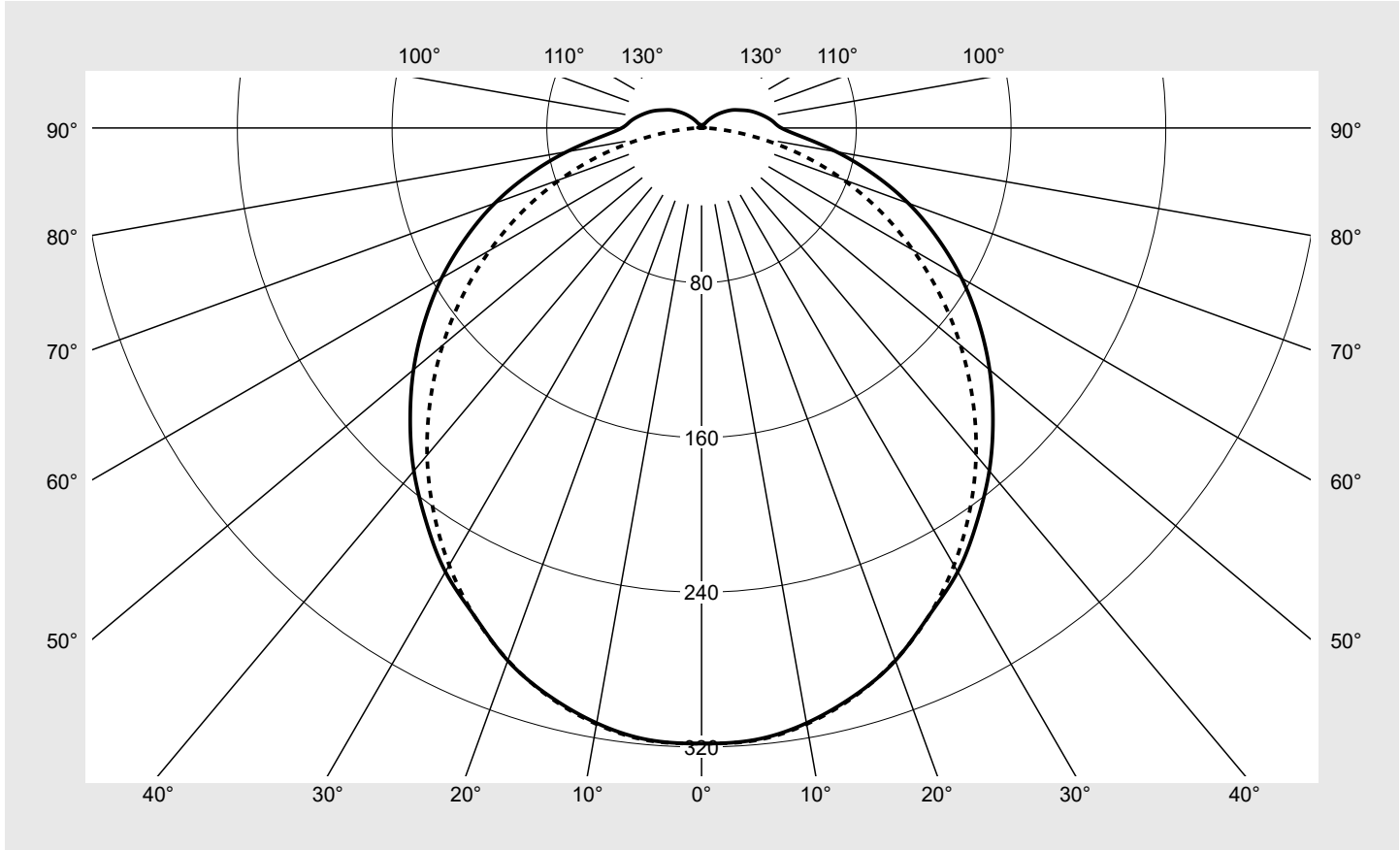


Photometric test report

Family Monsun® 21	Order number: 51FB20DL447J3H EAN: 4058352757307	LP number 59394_13
	Version prismatic diffuser, opal, polycarbonate, extremely wide distribution, emergence lighting 3h	serial documentation 23.02.2023
	Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 4320 lm Power consumption = 33.5 W Luminous efficacy = 129 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

Photometric test report

Family Monsun® 21	Order number: 51FB20DL447J3H EAN: 4058352757307	LP number 59394_13
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

Photometric test report

Family Monsun® 21	Order number: 51FB20DL447J3H EAN: 4058352757307	LP number 59394_13
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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	

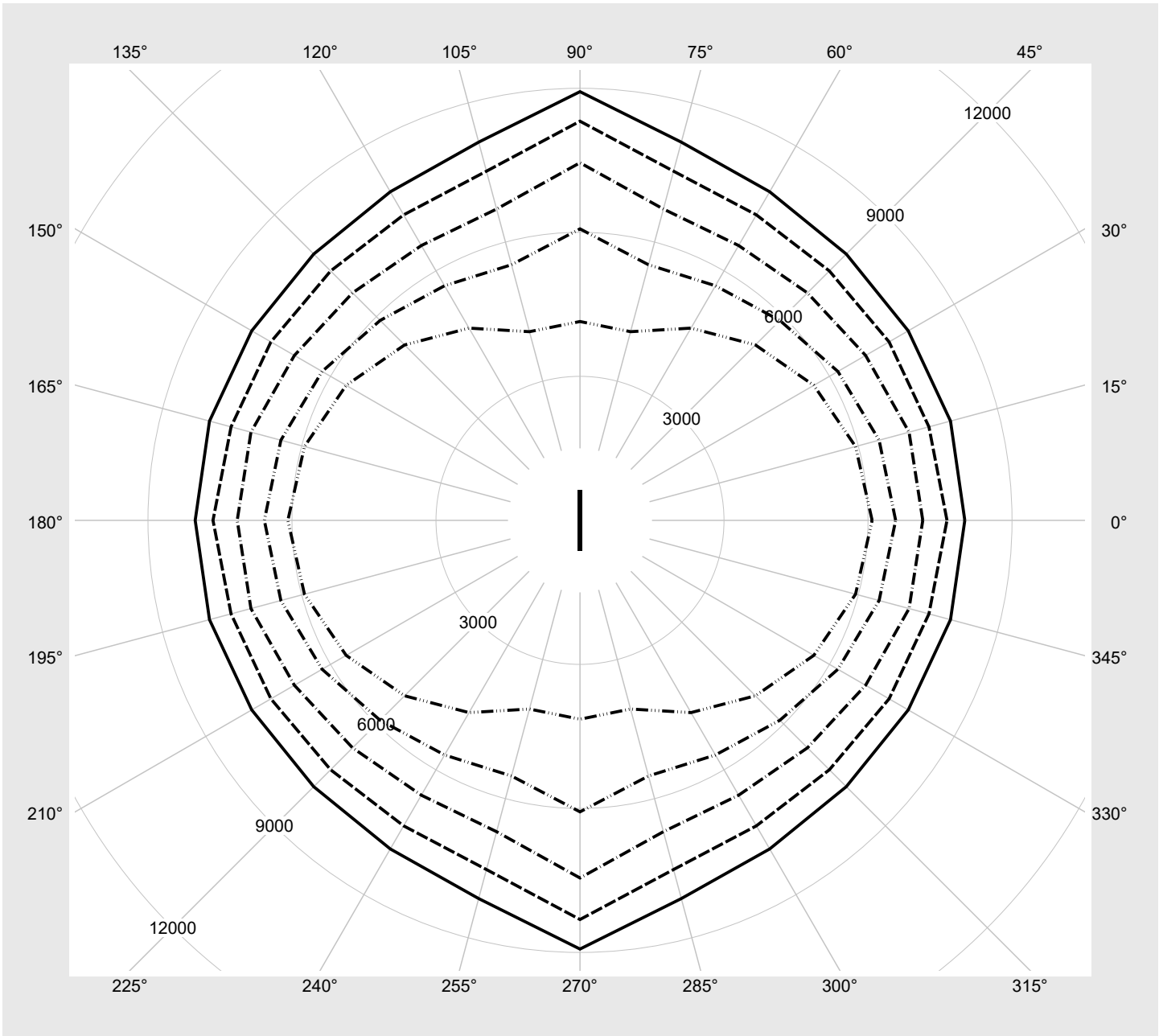
Photometric test report

Family Monsun® 21	Order number: 51FB20DL447J3H EAN: 4058352757307	LP number 59394_13
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco



Photometric test report

Family Monsun® 21	Order number: 51FB20DL447J3H EAN: 4058352757307	LP number 59394_13
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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	33.5
95	241	252	4110	32.0
90	227	250	3883	30.5
85	214	248	3670	29.0
80	201	245	3455	27.5
75	188	243	3240	26.1
70	175	240	3023	24.5
65	162	238	2807	23.3
60	149	234	2587	21.8
55	137	231	2383	20.5
50	124	228	2160	19.0
45	111	224	1936	17.6
40	99	219	1728	16.3
35	87	215	1519	14.9
30	74	209	1291	13.7
25	62	202	1080	12.4
20	50	194	867	11.2
15	38	184	654	9.8
10	26	171	440	8.6
5	14	148	225	7.2
1	5	110	63	6.2