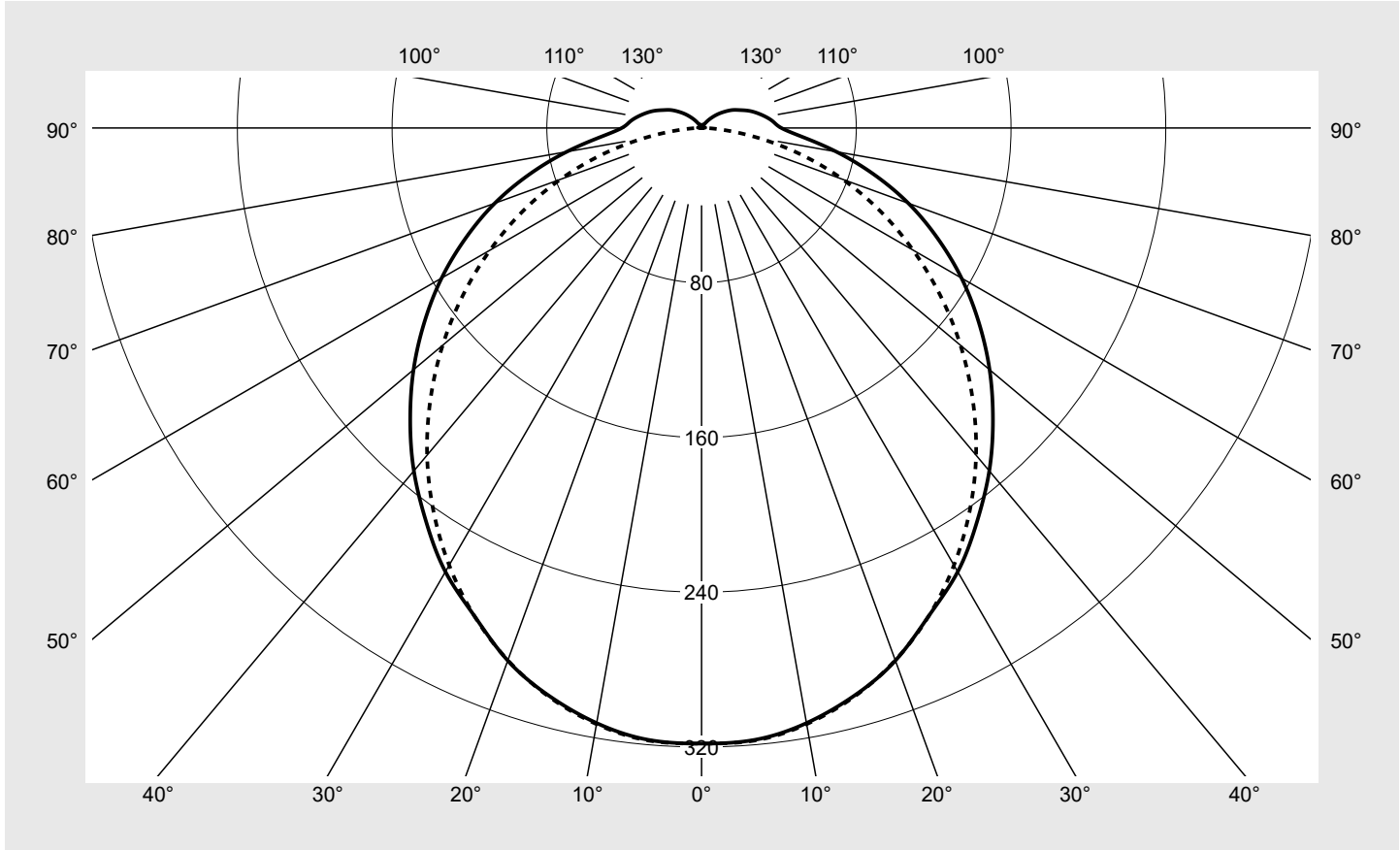


Photometric test report

Family Monsun® 21	Order number: 51FB20DL420J EAN: 4058352757260	LP number 59394_6
	Version prismatic diffuser, opal, polycarbonate, extremely wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 2660 lm Power consumption = 18.4 W Luminous efficacy = 144.6 lm/W	serial documentation 08.02.2023
		

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: 51FB20DL420J EAN: 4058352757260	LP number 59394_6
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: 51FB20DL420J EAN: 4058352757260	LP number 59394_6
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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	

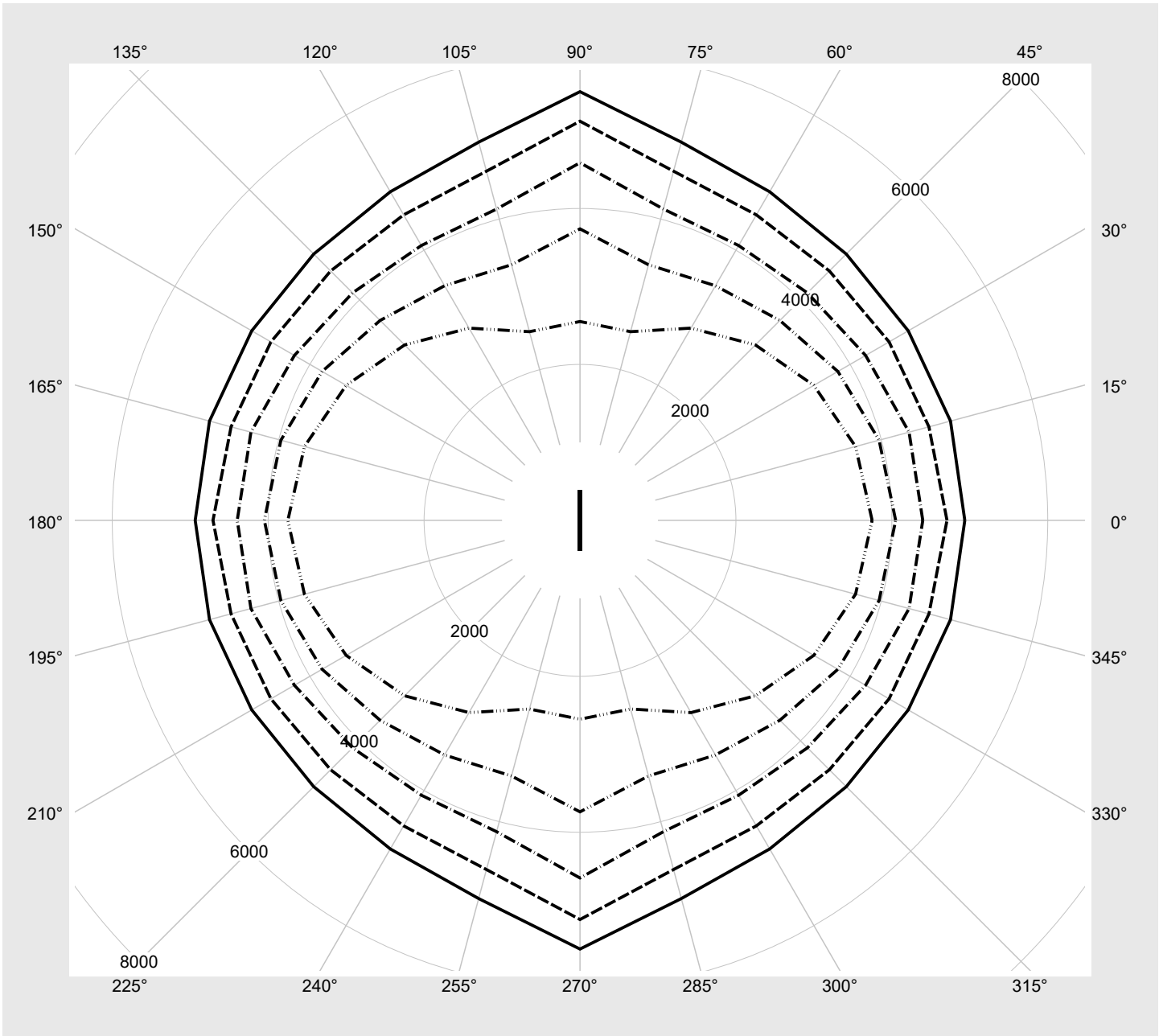
Photometric test report

Family Monsun® 21	Order number: 51FB20DL420J EAN: 4058352757260	LP number 59394_6
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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: 51FB20DL420J EAN: 4058352757260	LP number 59394_6
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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	18.4
95	241	252	2526	17.5
90	228	250	2393	16.7
85	215	248	2259	15.8
80	202	246	2124	15.0
75	190	243	1999	14.2
70	177	241	1864	13.3
65	164	238	1728	12.5
60	151	235	1591	11.7
55	139	232	1465	10.9
50	126	228	1327	10.1
45	114	225	1200	9.3
40	101	220	1062	8.5
35	89	216	934	7.7
30	76	210	794	6.8
25	64	204	665	6.0
20	52	196	536	5.3
15	39	185	396	4.5
10	27	172	266	3.6
5	15	150	135	2.8
2	7	122	49	2.3