

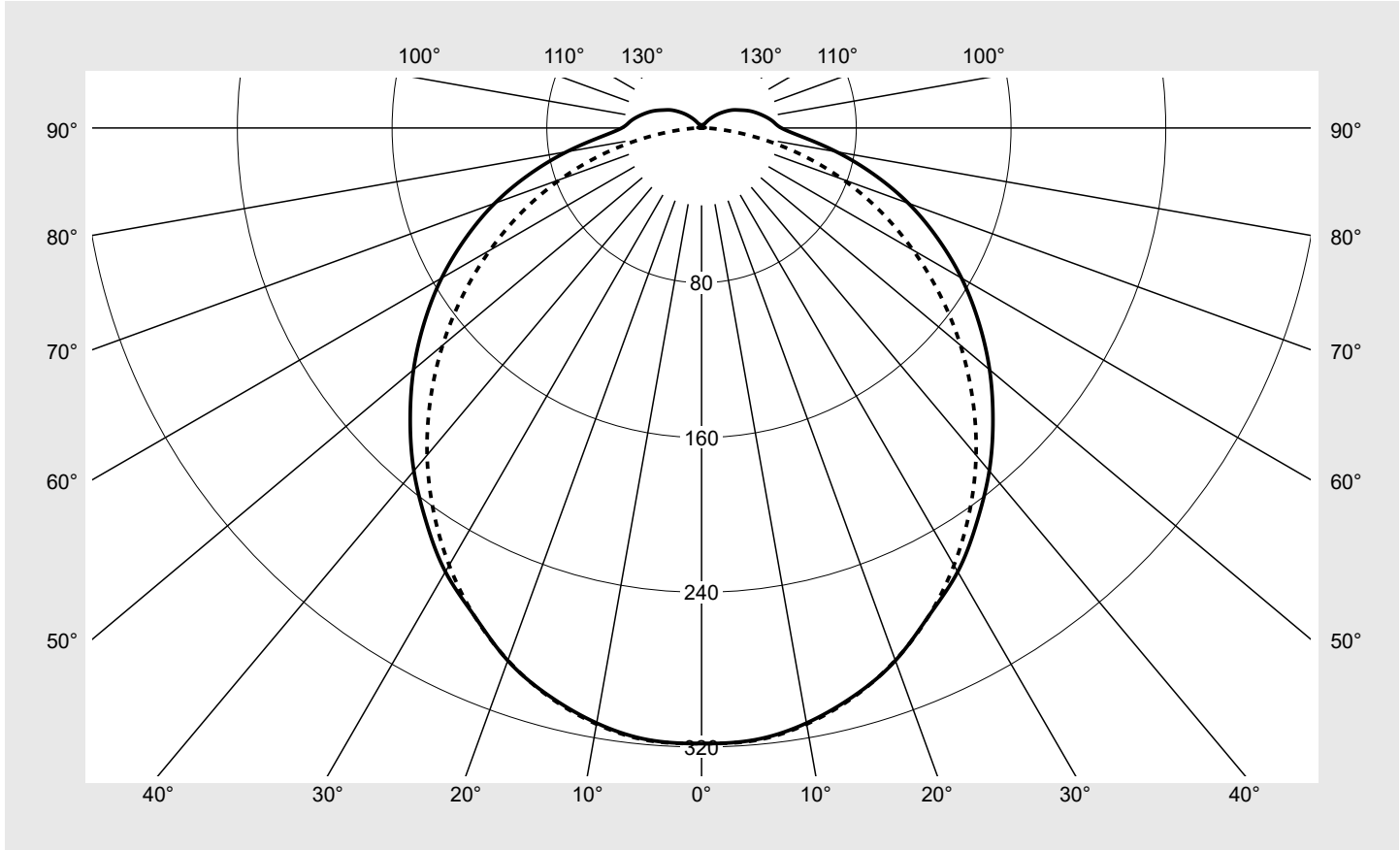


Photometric test report

Family Monsun® 21	Order number: 51FB20ML460J EAN: 4058352757321	LP number 59394_5
	Version prismatic diffuser, opal, polycarbonate, extremely wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Multilumen Rated values Net luminous flux = 6030 lm Power consumption = 40.9 W Luminous efficacy = 147.4 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


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Table of values for luminous intensities		Maximum luminous intensity
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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		
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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	21.1	22.8	21.4	23.1	23.4	20.8	22.5	21.2	22.8	23.2
	3H	22.9	24.5	23.3	24.8	25.2	22.4	23.9	22.7	24.3	24.6
	4H	23.8	25.2	24.1	25.6	25.9	23.0	24.5	23.4	24.8	25.2
	6H	24.5	25.9	24.9	26.2	26.6	23.4	24.8	23.8	25.1	25.5
	8H	24.8	26.1	25.3	26.5	26.9	23.5	24.8	23.9	25.2	25.6
	12H	25.1	26.3	25.5	26.7	27.1	23.6	24.8	24.0	25.2	25.6
4H	2H	21.8	23.3	22.2	23.7	24.0	21.6	23.1	22.0	23.4	23.8
	3H	23.8	25.1	24.3	25.5	25.9	23.4	24.6	23.8	25.0	25.4
	4H	24.8	26.0	25.3	26.4	26.8	24.1	25.2	24.5	25.6	26.1
	6H	25.7	26.7	26.2	27.1	27.6	24.6	25.6	25.1	26.1	26.5
	8H	26.1	27.0	26.6	27.5	27.9	24.8	25.7	25.2	26.2	26.6
	12H	26.5	27.3	27.0	27.8	28.2	24.9	25.7	25.4	26.2	26.7
8H	4H	25.2	26.1	25.6	26.5	27.0	24.5	25.5	25.0	25.9	26.4
	6H	26.2	27.0	26.7	27.5	28.0	25.2	26.0	25.7	26.4	26.9
	8H	26.7	27.4	27.2	27.9	28.4	25.4	26.1	25.9	26.6	27.1
	12H	27.2	27.8	27.7	28.3	28.8	25.6	26.2	26.1	26.7	27.2
12H	4H	25.2	26.1	25.7	26.5	27.0	24.6	25.4	25.1	25.9	26.4
	6H	26.3	27.0	26.8	27.5	28.0	25.4	26.0	25.8	26.5	27.0
	8H	26.8	27.5	27.3	27.9	28.5	25.6	26.2	26.1	26.7	27.3

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°		12950.0	12959.0	12948.6	13041.8	13299.6	13806.8	14719.1
50°		12531.6	12510.9	12495.4	12567.1	12759.4	13242.8	14231.3
55°		12101.1	12086.9	12062.7	12077.9	12206.8	12660.6	13688.8
60°		11678.3	11619.3	11574.6	11532.2	11653.2	12038.7	13104.0
65°		11189.4	11153.9	11021.9	10950.5	11031.7	11384.3	12464.2
70°		10671.7	10504.6	10378.5	10255.0	10256.6	10510.7	11605.3
75°		9967.4	9906.4	9590.0	9353.4	9227.0	9371.2	10397.6
80°		9178.5	9004.9	8659.0	8219.8	7876.5	7694.6	8474.9
85°		8494.9	8295.4	7851.1	7213.4	6453.9	5679.3	5781.6

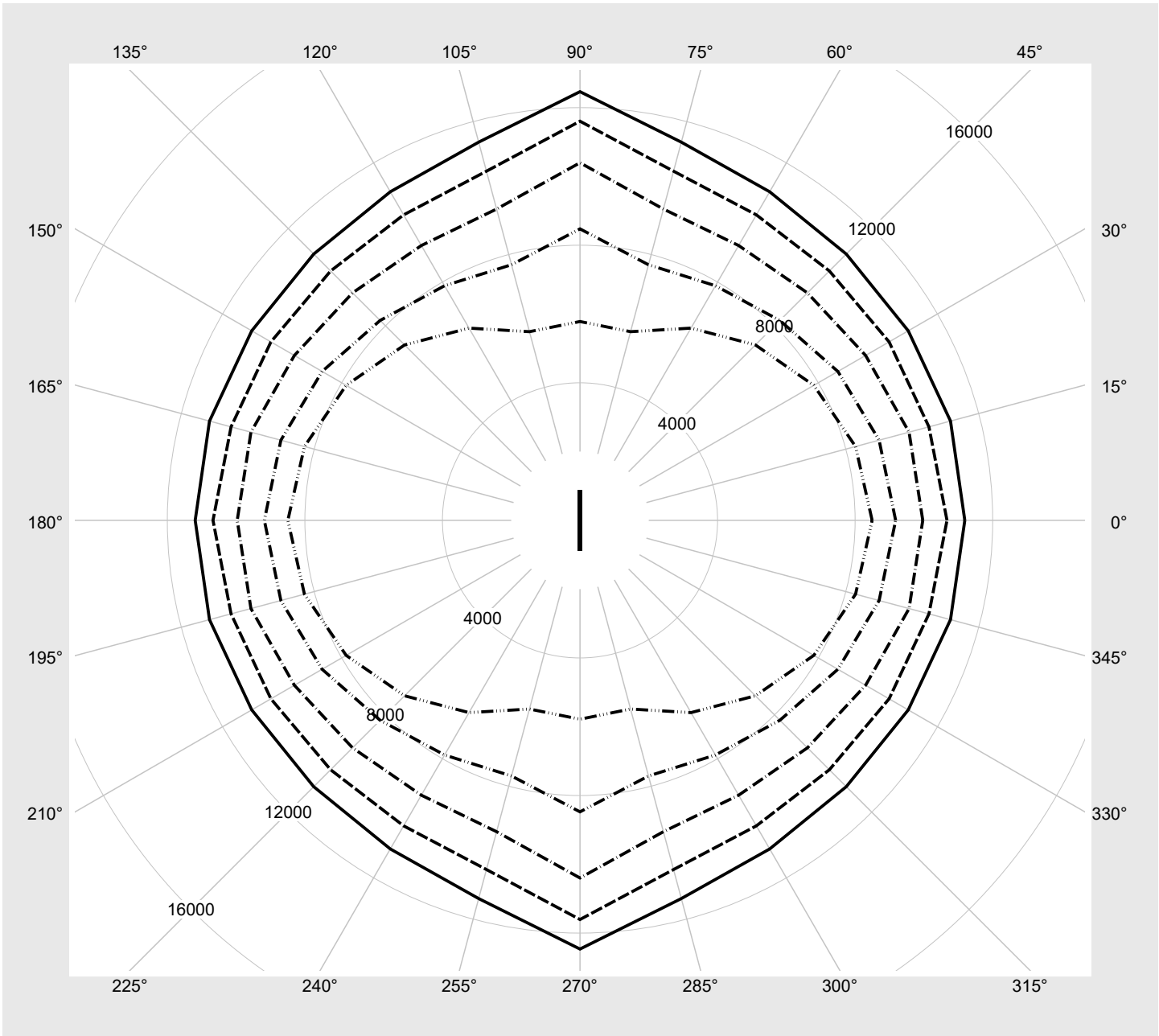
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

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Multilumen Table	environmental temperature: 25°C	sITeco
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	3840	25.7
2	A	C	F	4030	27.0
3	A	D	E	4410	29.5
4	A	D	F	4600	30.8
5	B	C	E	5040	33.9
6	B	C	F	5410	36.5
7	B	D	E	5720	38.7
8	B	D	F	6030	40.9