

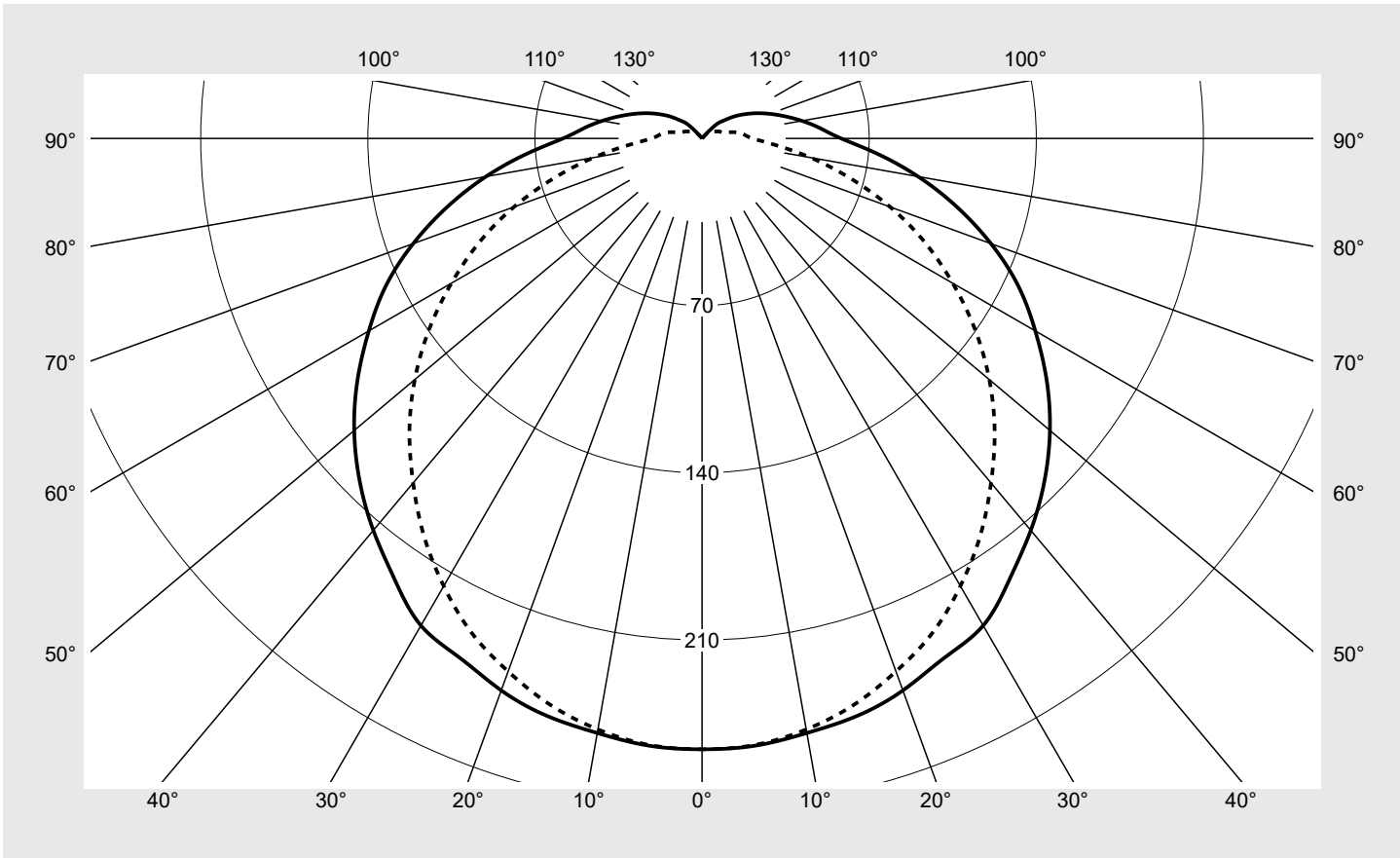


Photometric test report

Family Monsun® Ex	Order number: 51FXC27A420A EAN: 4058352933923	LP number 59502_1
	Version prismatic diffuser, opal, polycarbonate, diffuse beam	serial documentation 06.11.2023
	Lamps LED 4000 K CRI ≥ 80	
	Controlgear ECG-DALI	
	Rated values Net luminous flux = 2540 lm Power consumption = 20.0 W Luminous efficacy = 127 lm/W	
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 256 cd/klm**



Classifications	
DIN 5040	A 3 1
CIE	N1=39 N2=69 N3=89 N4=90 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	90.4%
ϕ_o	9.6%

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°	255.8	255.8	255.8	255.8	255.8	255.8	255.8	1.5	1.5
5°	255.2	255.3	255.2	255.2	255.1	254.8	254.9	12.2	13.7
10°	252.8	253.0	252.4	252.2	252.2	252.0	251.3	24.0	37.7
15°	250.4	249.7	248.8	247.7	246.7	245.9	245.5	35.2	72.9
20°	246.0	245.5	244.0	241.6	239.9	238.3	237.5	45.3	118.2
25°	240.0	239.7	237.3	233.8	230.0	228.4	228.4	54.2	172.4
30°	235.5	233.1	229.6	224.7	220.1	216.9	216.4	61.7	234.1
35°	224.9	223.2	220.5	213.4	207.5	203.8	203.1	67.2	301.3
40°	214.2	213.2	208.5	202.1	194.3	189.6	188.3	71.0	372.3
45°	202.8	200.8	195.4	188.7	179.3	174.8	173.3	72.8	445.1
50°	190.2	188.2	182.1	173.0	164.1	158.2	157.1	72.7	517.8
55°	176.2	174.1	167.2	157.9	148.1	141.3	139.6	70.8	588.6
60°	161.2	158.4	152.2	141.9	131.8	123.9	121.2	67.2	655.8
65°	146.2	143.4	136.2	125.3	114.4	106.0	103.0	62.1	717.9
70°	128.8	126.7	119.5	108.8	97.1	87.7	83.8	55.5	773.4
75°	110.4	108.9	102.4	91.9	80.5	69.9	64.2	47.7	821.1
80°	91.9	90.8	85.2	76.3	64.2	52.9	46.1	39.4	860.6
85°	73.7	73.0	68.4	60.6	50.0	38.4	30.6	31.2	891.7
90°	58.3	58.0	54.4	46.9	38.0	28.0	21.2	24.2	915.9
95°	49.6	49.1	45.7	39.3	30.9	22.0	17.8	20.1	936.0
100°	42.5	41.7	38.6	32.7	25.2	17.6	14.7	16.6	952.6
105°	35.9	35.1	32.2	27.1	20.5	14.2	9.7	13.4	966.0
110°	30.1	29.3	26.7	22.0	16.3	10.7	8.2	10.7	976.7
115°	25.0	23.9	21.7	17.6	12.6	7.8	6.9	8.2	984.9
120°	20.2	19.0	17.0	13.5	9.3	5.7	5.8	6.1	991.1
125°	15.7	14.7	12.7	9.7	6.3	4.2	4.7	4.3	995.4
130°	11.5	10.6	8.7	6.3	4.0	3.2	3.8	2.8	998.2
135°	7.7	6.9	5.0	3.4	2.5	2.3	2.9	1.6	999.9
140°	0.0	0.0	0.0	0.2	0.6	1.0	1.3	0.1	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	21.4	23.2	21.8	23.5	23.8	20.1	21.9	20.5	22.2	22.5
	3H	23.9	25.5	24.3	25.9	26.2	22.0	23.6	22.4	24.0	24.3
	4H	25.2	26.7	25.6	27.1	27.4	22.8	24.4	23.2	24.8	25.1
	6H	26.5	27.9	26.9	28.3	28.7	23.6	25.1	24.0	25.5	25.8
	8H	27.2	28.5	27.6	28.9	29.3	24.0	25.4	24.4	25.8	26.2
	12H	27.9	29.2	28.4	29.6	30.0	24.4	25.7	24.8	26.1	26.5
4H	2H	22.2	23.8	22.6	24.1	24.5	21.2	22.8	21.6	23.1	23.5
	3H	24.9	26.3	25.3	26.6	27.1	23.3	24.7	23.8	25.1	25.5
	4H	26.4	27.6	26.8	28.0	28.4	24.4	25.6	24.8	26.0	26.4
	6H	27.9	29.0	28.3	29.4	29.9	25.3	26.4	25.8	26.8	27.3
	8H	28.7	29.7	29.1	30.1	30.6	25.7	26.8	26.2	27.2	27.7
	12H	29.6	30.5	30.1	30.9	31.4	26.2	27.1	26.7	27.6	28.1
8H	4H	26.8	27.9	27.3	28.3	28.8	25.2	26.2	25.7	26.7	27.1
	6H	28.6	29.5	29.1	29.9	30.4	26.4	27.3	26.9	27.7	28.2
	8H	29.6	30.4	30.1	30.9	31.4	27.0	27.8	27.5	28.3	28.8
	12H	30.7	31.4	31.2	31.9	32.4	27.6	28.3	28.1	28.8	29.3
12H	4H	26.9	27.9	27.4	28.3	28.8	25.5	26.4	25.9	26.8	27.3
	6H	28.8	29.6	29.3	30.0	30.5	26.8	27.6	27.3	28.1	28.6
	8H	29.9	30.5	30.4	31.0	31.6	27.5	28.2	28.0	28.7	29.2

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 338 B = 176
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C-planes	γ	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
			Luminance in cd/m²					
45°		12247.8	12123.5	11800.8	11393.2	10827.6	10557.4	10466.5
50°		12635.3	12499.7	12094.7	11494.9	10898.5	10511.4	10433.4
55°		13115.0	12963.9	12444.4	11752.5	11028.0	10520.5	10394.3
60°		13763.8	13529.4	13000.5	12114.7	11259.2	10581.7	10352.9
65°		14767.2	14482.8	13755.6	12656.1	11553.0	10713.2	10405.1
70°		16076.0	15822.7	14924.0	13585.4	12116.9	10954.3	10465.7
75°		18214.0	17959.3	16887.1	15161.8	13274.9	11524.2	10592.3
80°		22598.4	22319.3	20958.6	18768.2	15779.0	13009.6	11345.4
85°		36110.6	35760.3	33514.6	29684.6	24470.6	18832.8	14973.3

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco

