
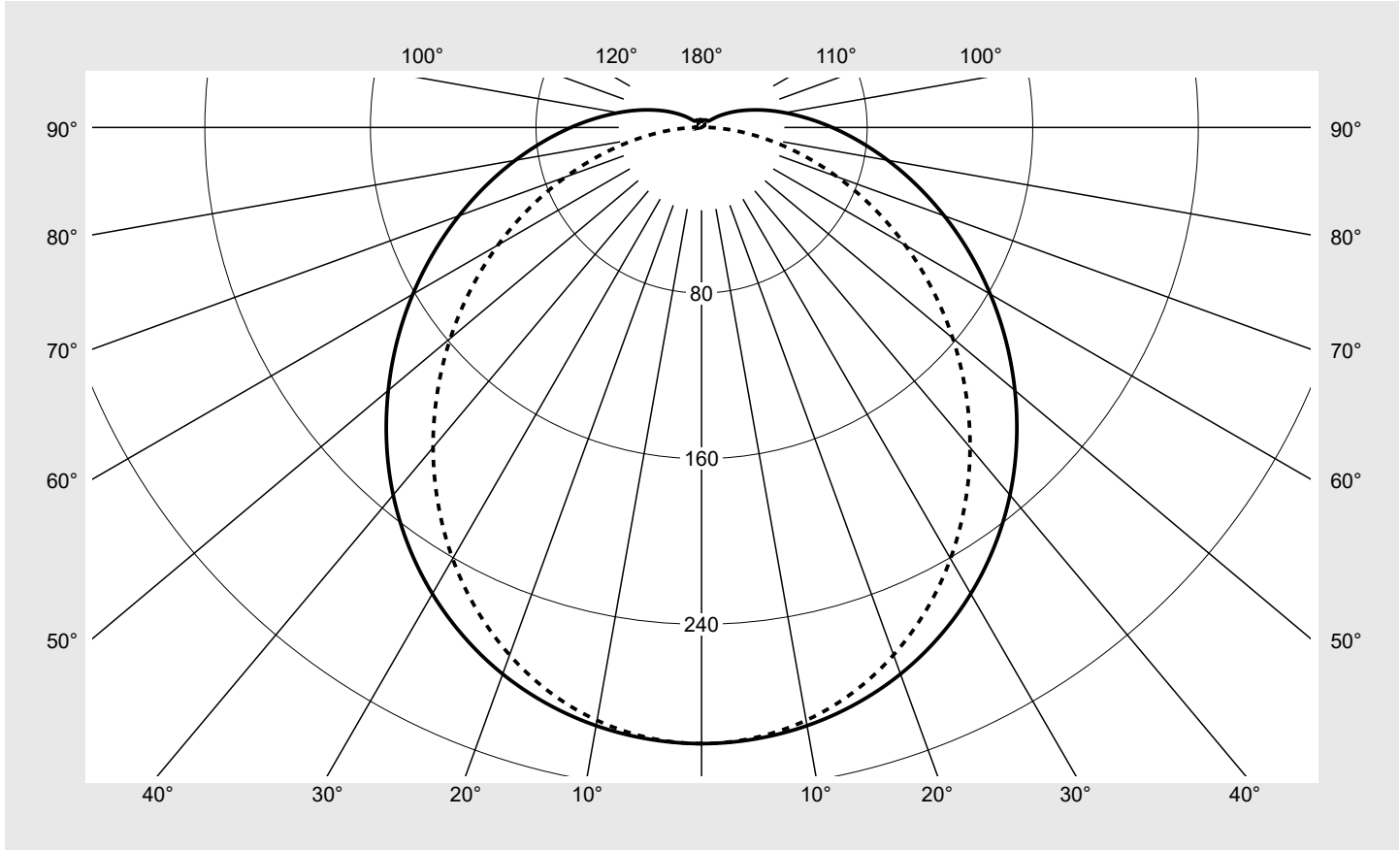


Photometric test report

Family Monsun® 31	Order number: 51FD20NK450A EAN: 4069025458445	LP number 59821_2
	Version damp-proof luminaire, cover, frosted, PC, diffuse beam	serial documentation 26.09.2025
	Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI-Multilumen Rated values Net luminous flux = 5060 lm Power consumption = 31.0 W Luminous efficacy = 163.2 lm/W	



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 298 cd/klm**



Classifications	
DIN 5040	A 3 1
CIE	N1=43 N2=72 N3=90 N4=93 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	92.9%
ϕ_o	7.1%

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°	Luminous intensity in cd/klm			90° 270°	Phi-zone	Total Phi-zone
		30° 150° 210° 330°	60° 120° 240° 300°				
0°	297.7	297.7	297.7	297.7	1.8	1.8	
5°	296.6	296.5	296.1	295.9	14.2	15.9	
10°	293.5	292.8	291.5	290.9	27.8	43.7	
15°	288.3	286.8	284.0	282.6	40.5	84.2	
20°	281.0	278.6	273.7	271.2	51.8	136.0	
25°	271.5	268.0	260.8	257.1	61.2	197.2	
30°	260.1	255.4	245.6	240.6	68.6	265.9	
35°	246.8	240.8	228.4	221.9	73.7	339.6	
40°	231.8	224.7	209.5	201.8	76.5	416.1	
45°	215.2	207.1	189.4	180.5	76.8	492.9	
50°	197.6	188.4	168.6	158.4	74.9	567.8	
55°	179.5	169.3	147.4	136.0	71.0	638.8	
60°	161.1	150.2	126.4	113.5	65.5	704.3	
65°	142.7	131.4	105.7	91.4	58.6	762.9	
70°	124.8	113.3	86.1	69.8	50.9	813.8	
75°	107.5	96.1	68.1	49.6	42.9	856.7	
80°	91.4	80.2	52.2	31.1	34.8	891.5	
85°	76.5	65.9	38.5	15.2	27.3	918.9	
90°	63.1	52.9	27.5	3.9	20.8	939.7	
95°	51.2	41.7	18.8	2.8	15.9	955.6	
100°	40.9	32.4	12.7	1.8	12.0	967.6	
105°	32.1	24.7	8.1	1.2	8.7	976.3	
110°	24.6	18.3	4.7	1.2	6.2	982.5	
115°	18.4	13.0	2.9	1.4	4.3	986.8	
120°	13.1	8.8	2.7	1.6	3.0	989.7	
125°	8.8	5.2	2.7	1.7	2.0	991.7	
130°	5.3	3.8	2.6	1.9	1.4	993.1	
135°	4.4	3.7	2.7	2.1	1.2	994.4	
140°	4.4	3.6	2.8	2.4	1.1	995.5	
145°	4.3	3.6	3.0	2.7	1.1	996.6	
150°	4.1	3.4	3.2	2.9	0.9	997.5	
155°	3.9	3.4	3.4	3.2	0.8	998.3	
160°	3.9	3.5	3.5	3.4	0.7	998.9	
165°	3.7	3.6	3.6	3.6	0.5	999.5	
170°	3.5	3.7	3.8	3.8	0.4	999.8	
175°	3.1	3.7	3.8	3.9	0.2	1000.0	
180°	3.7	3.7	3.7	3.7	0.0	1000.0	

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UGR-Table		Standard room									
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	20.5	22.3	20.9	22.6	22.9	19.8	21.5	20.1	21.9	22.2
	3H	22.5	24.1	22.9	24.4	24.8	21.3	22.9	21.7	23.2	23.6
	4H	23.4	24.9	23.8	25.3	25.7	21.9	23.4	22.3	23.8	24.2
	6H	24.4	25.8	24.8	26.1	26.5	22.4	23.8	22.8	24.2	24.6
	8H	24.8	26.1	25.3	26.5	26.9	22.6	24.0	23.0	24.3	24.7
	12H	25.3	26.5	25.7	26.9	27.3	22.7	24.0	23.2	24.4	24.8
4H	2H	21.2	22.7	21.6	23.1	23.4	20.7	22.2	21.0	22.5	22.9
	3H	23.4	24.7	23.8	25.1	25.5	22.4	23.7	22.8	24.1	24.5
	4H	24.5	25.7	24.9	26.1	26.5	23.1	24.3	23.6	24.7	25.2
	6H	25.6	26.7	26.1	27.1	27.5	23.7	24.8	24.2	25.2	25.7
	8H	26.2	27.1	26.6	27.6	28.0	24.0	25.0	24.4	25.4	25.9
	12H	26.7	27.6	27.2	28.0	28.5	24.2	25.1	24.6	25.5	26.0
8H	4H	24.9	25.9	25.3	26.3	26.8	23.7	24.7	24.2	25.1	25.6
	6H	26.2	27.0	26.7	27.5	28.0	24.5	25.3	25.0	25.8	26.3
	8H	26.9	27.6	27.4	28.1	28.6	24.9	25.6	25.3	26.1	26.6
	12H	27.6	28.2	28.1	28.7	29.2	25.2	25.8	25.7	26.3	26.8
12H	4H	24.9	25.8	25.4	26.3	26.8	23.8	24.7	24.3	25.2	25.6
	6H	26.3	27.0	26.8	27.5	28.0	24.8	25.5	25.3	26.0	26.5
	8H	27.1	27.7	27.6	28.2	28.7	25.2	25.8	25.7	26.3	26.8

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1200	H(C0) = 28	H(C180) = 28
			B = 90	H(C90) = 0	H(C270) = 0

C-planes	γ	0° 180°	Luminance in cd/m²			
			30° 150° 210° 330°	60° 120° 240° 300°	90° 270°	
	45°	10877.3	10808.6	10862.3	11956.8	
	50°	10508.3	10395.3	10368.5	11548.3	
	55°	10152.0	9987.7	9853.5	11106.4	
	60°	9809.0	9596.5	9329.2	10640.0	
	65°	9490.6	9230.1	8784.1	10127.6	
	70°	9214.2	8916.5	8266.2	9559.0	
	75°	9008.4	8675.4	7802.3	8976.5	
	80°	8919.7	8561.2	7484.9	8390.3	
	85°	9020.5	8681.6	7455.3	8175.3	

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**

