

Photometric test report

Family
Monsun® 21

Order number: 51FB20DL420K
EAN: 4069025131706

LP number
59394_36



Version prismatic diffuser, opal, polycarbonate, wide distribution

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 2660 lm
Power consumption = 17.1 W
Luminous efficacy = 155.6 lm/W

serial
documentation
05.02.2026

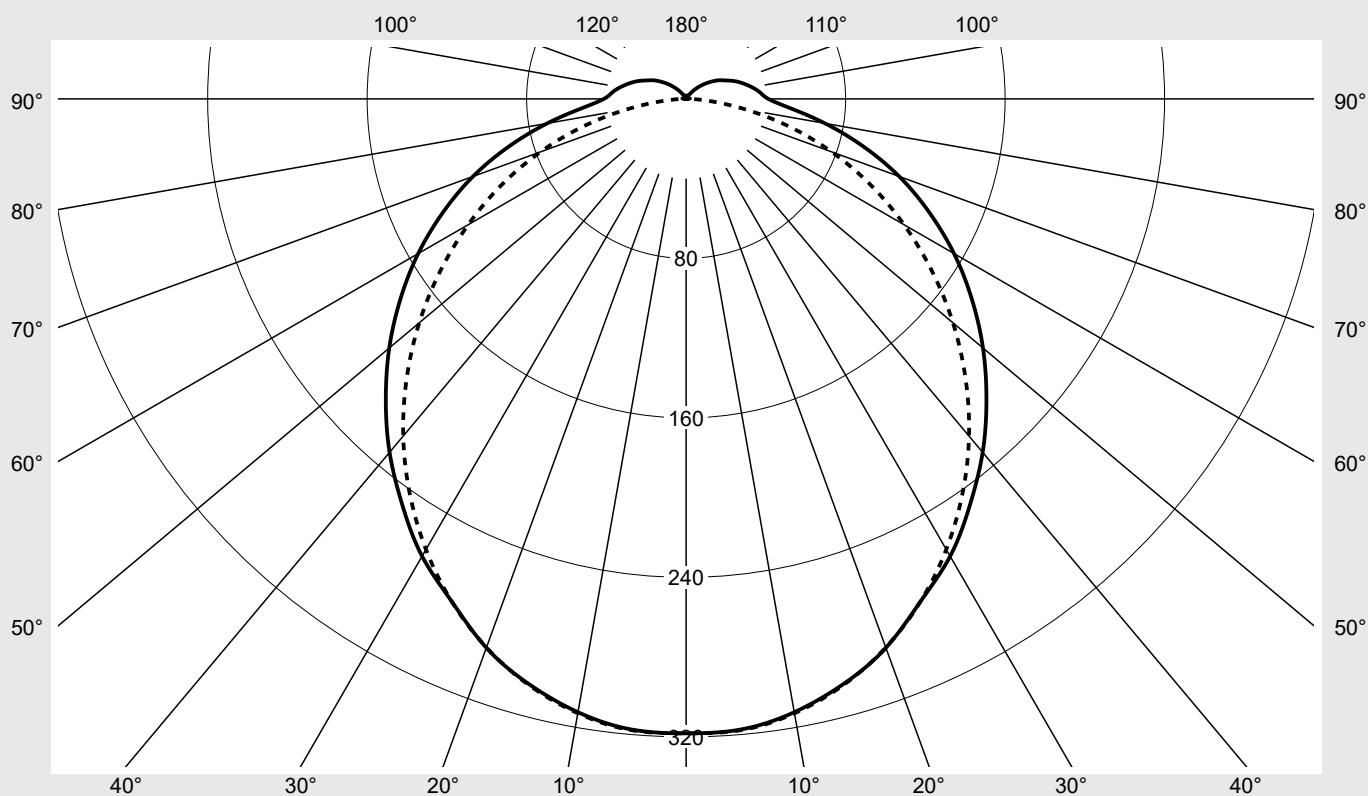
siteco

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	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	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		siteco	
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 B = 87	H(C0) = 21 H(C90) = 21	H(C180) = 21 H(C270) = 21
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°		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

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Luminance values in cd/m²

γ 65°

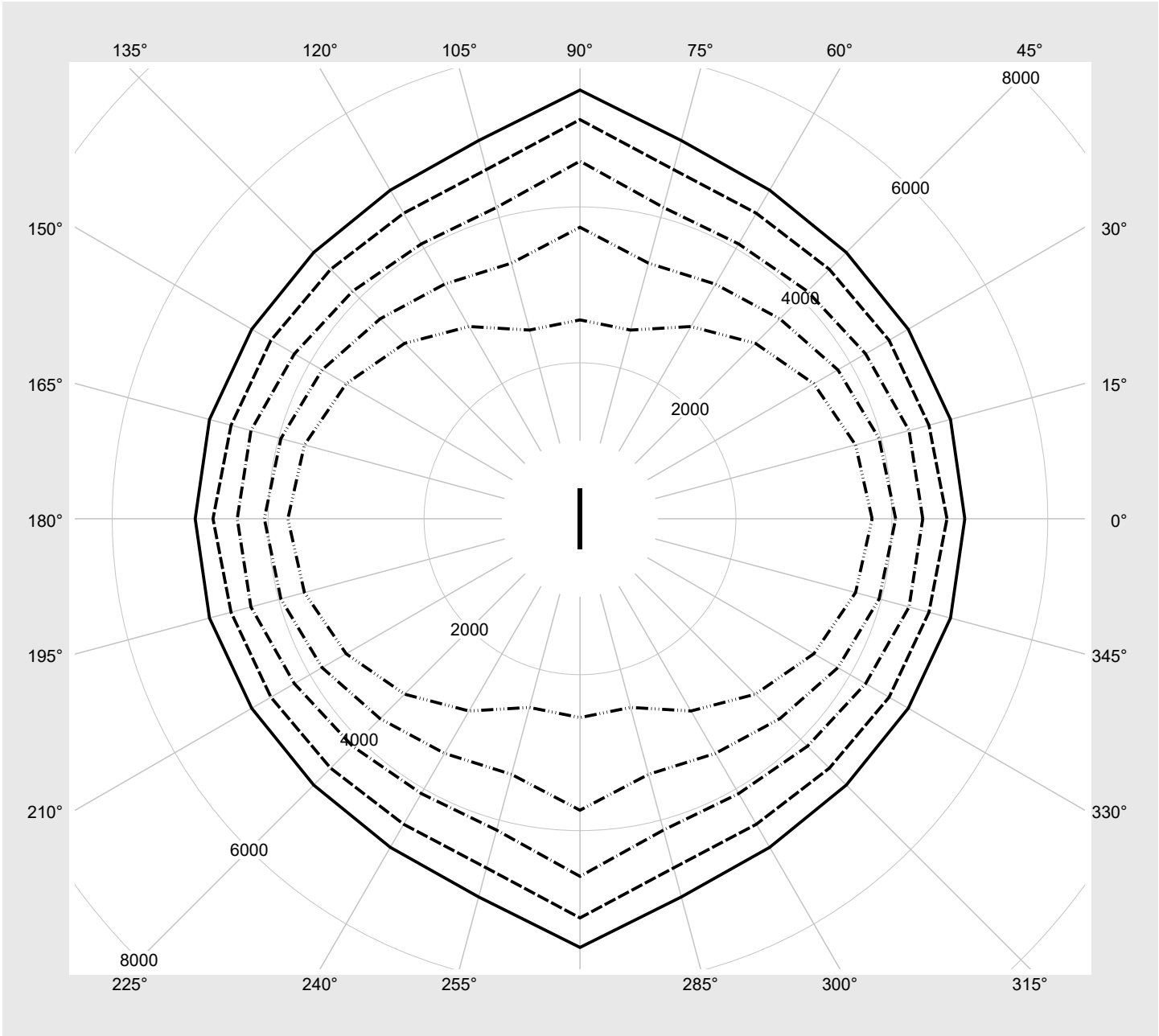
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Dimming levels table environmental temperature: 25°C		

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	2660	17.1
95	241	252	2526	16.3
90	228	250	2392	15.5
85	215	248	2257	14.7
80	203	246	2133	13.9
75	190	243	1998	13.0
70	177	241	1862	12.2
65	164	238	1727	11.4
60	152	235	1601	10.6
55	139	232	1465	9.8
50	126	228	1328	9.0
45	114	225	1201	8.2
40	101	220	1064	7.5
35	88	215	926	6.7
30	76	210	799	6.1
25	63	203	661	5.3
20	51	195	532	4.6
15	38	184	394	3.9
10	26	171	265	3.4
7	18	157	180	3.0