

Photometric test report

Family
Monsun® 21

Order number: **51FG20DL430K**
EAN: **4069025131805**

LP number
59394_40



Version prismatic diffuser, opal, polycarbonate, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 3850 lm
Power consumption = 24.0 W
Luminous efficacy = 160.4 lm/W

serial
documentation
05.02.2026

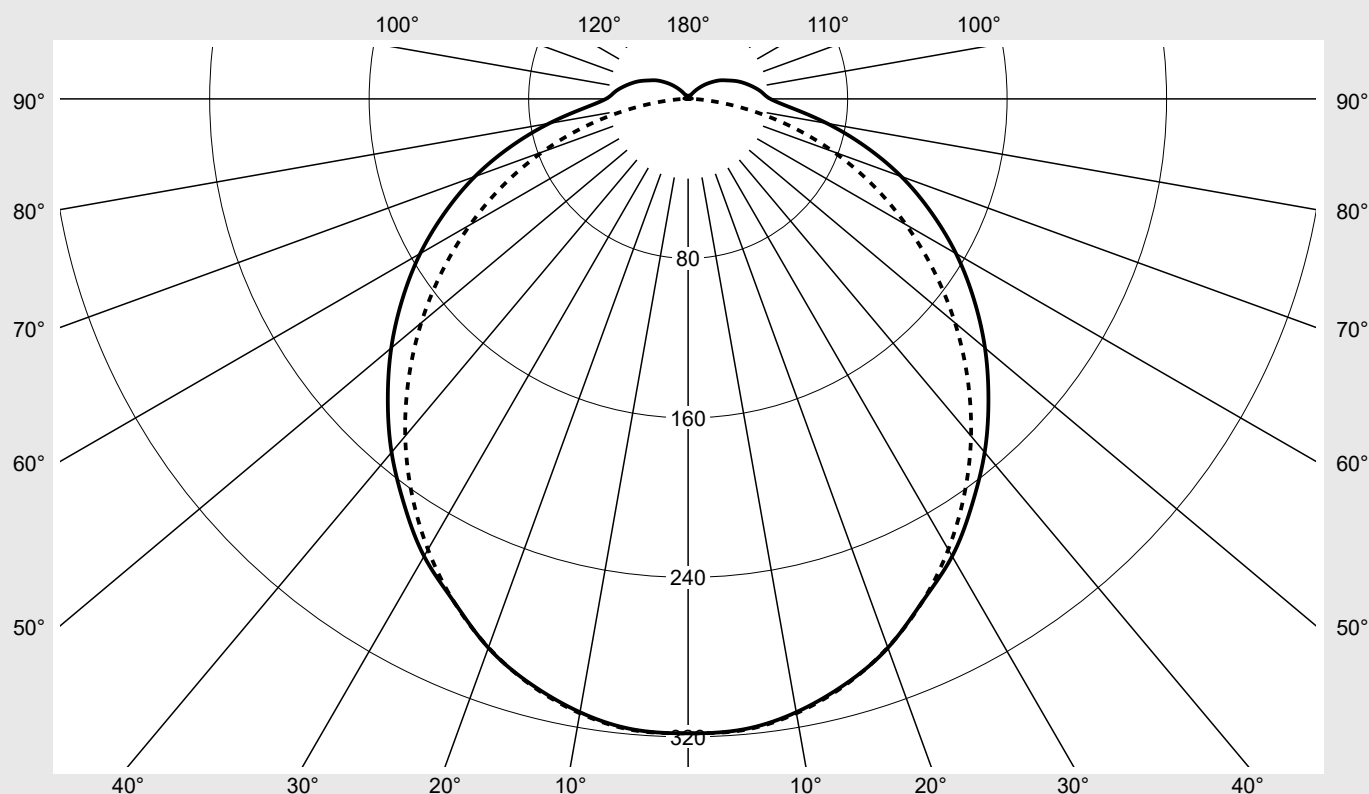
siteco

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	19.5	21.3	19.9	21.6	21.9	19.2	21.0	19.6	21.3	21.6
	3H	21.4	22.9	21.7	23.3	23.6	20.8	22.4	21.2	22.7	23.1
	4H	22.2	23.7	22.6	24.0	24.4	21.4	22.9	21.8	23.2	23.6
	6H	22.9	24.3	23.3	24.7	25.1	21.8	23.2	22.2	23.6	24.0
	8H	23.3	24.6	23.7	24.9	25.3	22.0	23.3	22.4	23.7	24.1
	12H	23.6	24.8	24.0	25.2	25.6	22.0	23.3	22.5	23.7	24.1
4H	2H	20.3	21.7	20.7	22.1	22.5	20.0	21.5	20.4	21.9	22.2
	3H	22.3	23.6	22.7	23.9	24.4	21.8	23.1	22.2	23.4	23.9
	4H	23.3	24.4	23.7	24.8	25.2	22.5	23.7	23.0	24.1	24.5
	6H	24.1	25.2	24.6	25.6	26.0	23.0	24.1	23.5	24.5	25.0
	8H	24.5	25.5	25.0	25.9	26.4	23.2	24.2	23.7	24.6	25.1
	12H	24.9	25.7	25.4	26.2	26.7	23.3	24.2	23.8	24.6	25.1
8H	4H	23.6	24.5	24.1	25.0	25.4	23.0	23.9	23.4	24.3	24.8
	6H	24.6	25.4	25.1	25.9	26.4	23.6	24.4	24.1	24.9	25.4
	8H	25.1	25.9	25.6	26.3	26.8	23.9	24.6	24.4	25.1	25.6
	12H	25.7	26.3	26.2	26.7	27.3	24.0	24.6	24.5	25.1	25.7
12H	4H	23.6	24.5	24.1	25.0	25.4	23.1	23.9	23.5	24.3	24.8
	6H	24.7	25.4	25.2	25.9	26.4	23.8	24.5	24.3	25.0	25.5
	8H	25.3	25.9	25.8	26.4	26.9	24.1	24.7	24.6	25.2	25.7

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°	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°	8268.2	8274.0	8267.4	8326.8	8491.4	8815.3	9397.7			
	50°	8001.1	7987.9	7978.0	8023.7	8146.6	8455.2	9086.3			
	55°	7726.3	7717.2	7701.7	7711.4	7793.7	8083.5	8739.9			
	60°	7456.3	7418.6	7390.1	7363.0	7440.2	7686.4	8366.6			
	65°	7144.2	7121.5	7037.2	6991.6	7043.5	7268.6	7958.1			
	70°	6813.6	6706.9	6626.4	6547.6	6548.6	6710.8	7409.7			
	75°	6363.9	6325.0	6122.9	5971.9	5891.2	5983.3	6638.6			
	80°	5860.2	5749.4	5528.5	5248.1	5029.0	4912.8	5411.0			
	85°	5423.8	5296.4	5012.7	4605.5	4120.7	3626.1	3691.4			

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Luminance values in cd/m²

γ 65°

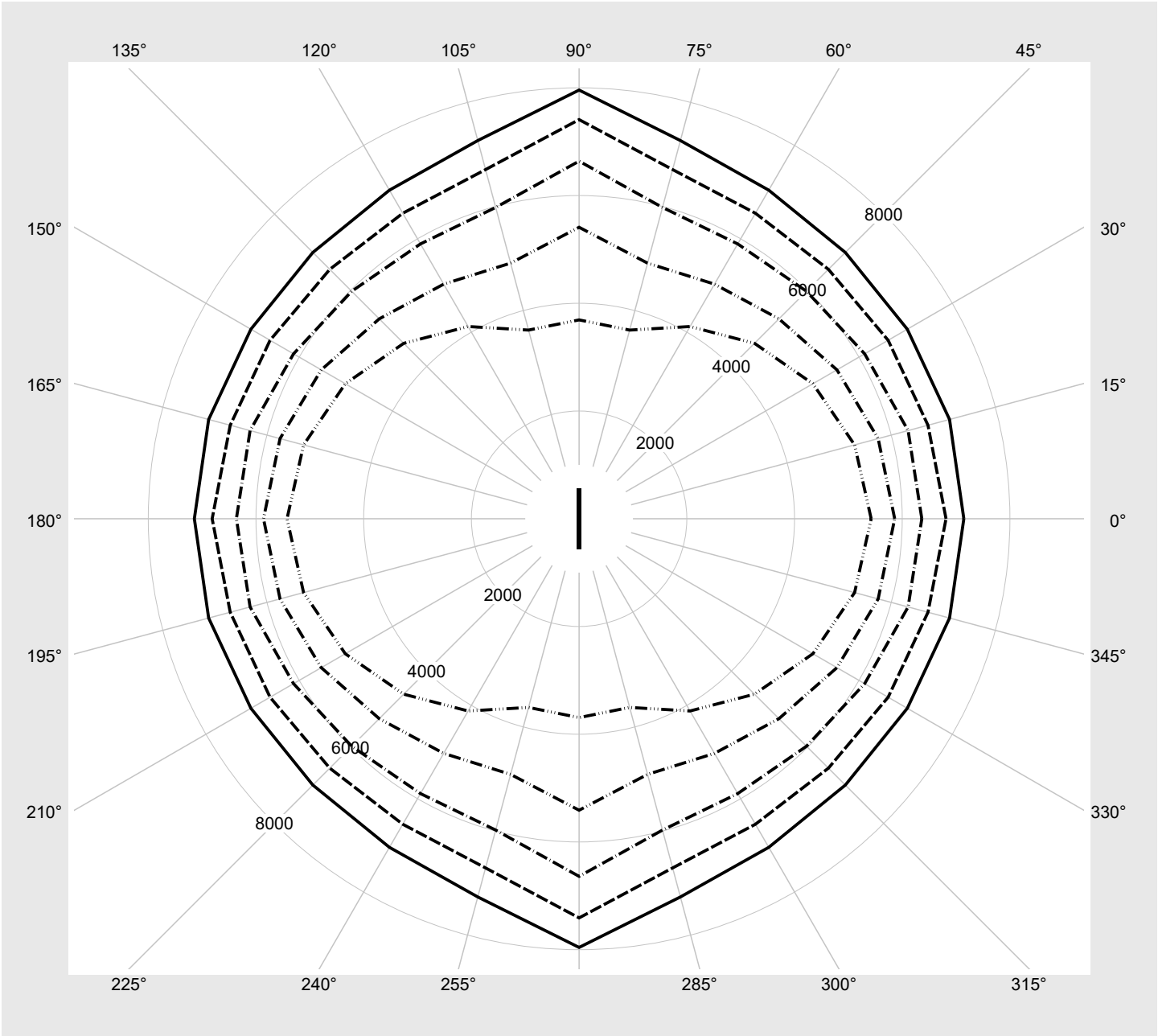
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Family Monsun® 21	Order number: 51FG20DL430K EAN: 4069025131805	LP number 59394_40
Dimming levels table environmental temperature: 25°C		

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	3850	24.0
95	241	252	3660	22.9
90	228	250	3469	21.8
85	215	248	3277	20.7
80	202	246	3085	19.6
75	189	243	2891	18.4
70	176	241	2696	17.3
65	163	238	2500	16.1
60	150	235	2304	14.9
55	138	232	2122	13.8
50	125	228	1924	12.5
45	112	224	1725	11.4
40	100	220	1541	10.3
35	87	215	1341	9.1
30	75	209	1156	8.0
25	62	202	955	6.9
20	50	194	768	5.8
15	38	184	582	4.9
10	25	169	378	3.8
5	13	145	191	3.1
5	12	142	175	3.0