

Photometric test report

Family
Monsun® 21

Order number: **51FB20DP467C3H**
EAN: **4069025178442**

LP number
59060_127



Version prismatic diffuser, opal, polycarbonate,
extremely wide distribution

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 5460 lm
Power consumption = 36.5 W
Luminous efficacy = 149.6 lm/W

serial
documentation
08.05.2024

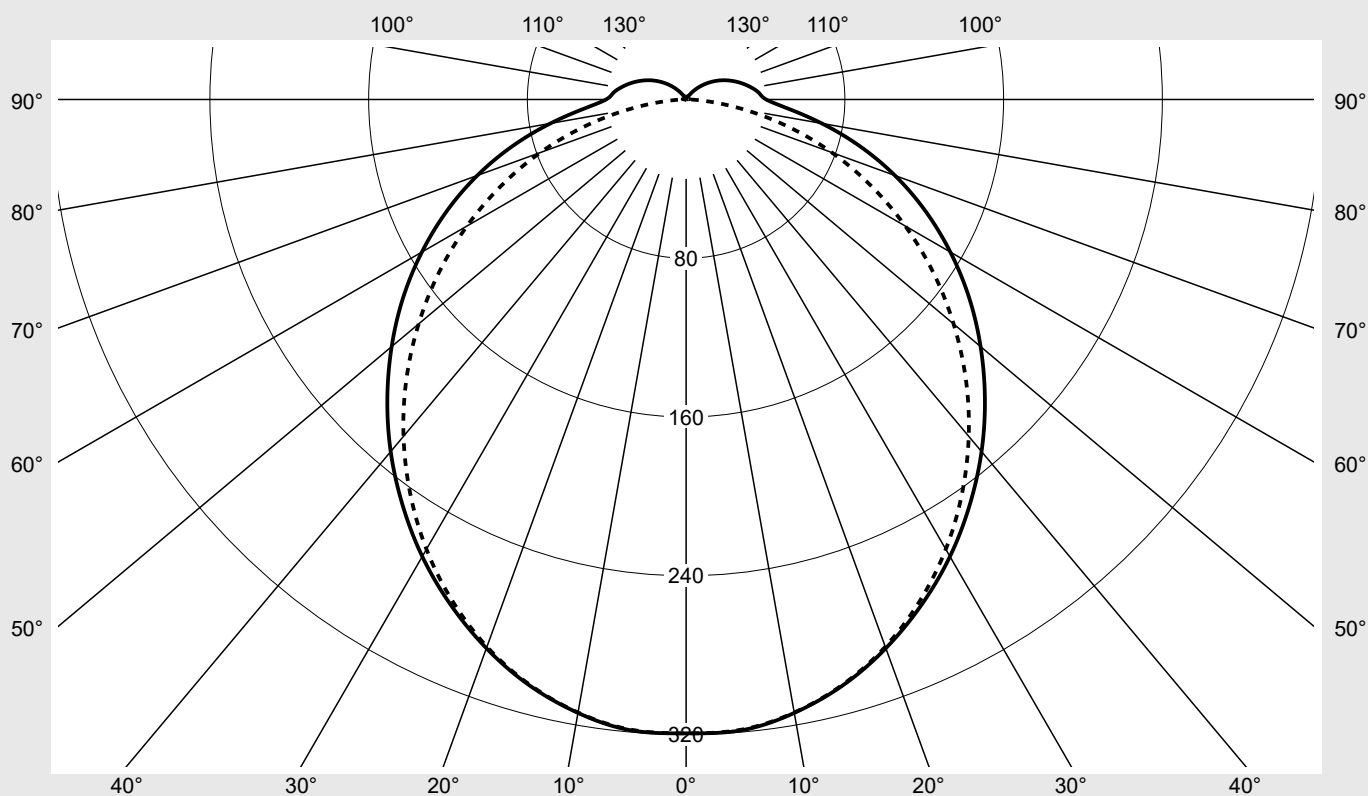
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Luminous intensity in cd/klm

C180-0

C270-90

Imax: 319 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°	319.4	319.4	319.4	319.4	319.4	319.4	319.4	1.9	1.9
5°	319.1	317.8	316.0	317.2	318.6	318.6	318.8	15.2	17.1
10°	313.9	312.8	311.0	312.1	313.5	313.5	313.7	29.8	46.9
15°	305.6	304.7	302.7	303.7	305.0	304.9	305.2	43.2	90.1
20°	294.3	293.5	291.4	292.2	293.3	293.1	293.5	54.9	145.0
25°	280.9	280.2	277.7	277.9	278.8	278.5	278.8	64.6	209.6
30°	265.9	265.3	262.4	261.6	261.9	261.4	261.7	72.0	281.6
35°	249.2	248.5	245.6	243.7	242.9	242.2	242.4	77.0	358.5
40°	231.6	230.8	227.5	224.6	222.7	221.4	221.6	79.5	438.0
45°	212.9	211.8	208.5	204.2	201.3	199.0	199.4	79.5	517.5
50°	193.7	192.3	188.8	183.7	179.4	175.9	176.0	77.3	594.9
55°	174.1	172.4	168.8	162.7	157.2	152.3	152.1	73.1	667.9
60°	153.8	152.1	148.1	141.4	134.9	128.8	127.5	66.9	734.9
65°	133.1	131.4	127.0	119.9	112.8	105.5	102.8	59.2	794.0
70°	112.0	110.4	105.0	98.0	90.2	82.2	78.2	49.9	843.9
75°	90.5	88.8	83.0	75.7	67.3	58.8	53.6	39.3	883.2
80°	69.4	67.4	62.0	54.0	45.3	36.4	30.4	28.3	911.6
85°	51.2	49.1	43.8	35.9	26.7	17.7	11.3	18.6	930.2
90°	40.3	38.3	33.0	25.3	16.4	7.5	1.9	12.9	943.1
95°	36.9	35.1	30.2	22.8	14.1	5.6	1.6	11.6	954.7
100°	33.7	31.9	27.1	20.1	11.9	4.0	1.5	10.1	964.8
105°	30.1	28.5	23.8	17.3	9.5	2.6	1.3	8.6	973.4
110°	26.5	24.6	20.5	14.4	7.3	1.5	1.2	7.1	980.4
115°	22.8	21.1	17.3	11.6	5.2	1.3	1.2	5.7	986.1
120°	19.1	17.5	14.1	8.9	3.4	1.3	1.1	4.4	990.5
125°	15.4	13.9	10.8	6.2	1.7	1.2	1.0	3.2	993.6
130°	11.8	10.5	7.7	3.9	1.4	1.2	1.0	2.2	995.8
135°	8.3	7.2	5.0	2.0	1.4	1.2	1.1	1.4	997.2
140°	5.1	4.3	2.5	1.6	1.3	1.1	1.0	0.8	998.0
145°	2.4	2.0	1.8	1.6	1.4	1.2	1.2	0.5	998.5
150°	1.9	1.9	1.8	1.5	1.4	1.3	1.2	0.4	999.0
155°	1.8	1.8	1.6	1.5	1.4	1.3	1.3	0.4	999.3
160°	1.6	1.6	1.5	1.5	1.4	1.4	1.3	0.3	999.6
165°	1.5	1.5	1.4	1.4	1.4	1.4	1.3	0.2	999.8
170°	1.4	1.4	1.4	1.4	1.4	1.4	1.3	0.1	999.9
175°	1.3	1.3	1.3	1.4	1.4	1.4	1.3	0.1	1000.0
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	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	20.0	21.7	20.4	22.0	22.4	19.8	21.5	20.2	21.8	22.2
	3H	21.8	23.4	22.2	23.7	24.1	21.4	22.9	21.7	23.3	23.6
	4H	22.6	24.1	23.0	24.5	24.8	22.0	23.5	22.4	23.8	24.2
	6H	23.4	24.7	23.8	25.1	25.5	22.4	23.8	22.8	24.1	24.5
	8H	23.7	25.0	24.1	25.4	25.8	22.5	23.8	23.0	24.2	24.6
	12H	24.0	25.2	24.4	25.6	26.0	22.6	23.8	23.0	24.2	24.6
4H	2H	20.7	22.2	21.1	22.6	22.9	20.6	22.1	21.0	22.4	22.8
	3H	22.7	24.0	23.2	24.4	24.8	22.3	23.6	22.8	24.0	24.4
	4H	23.7	24.9	24.1	25.3	25.7	23.1	24.2	23.5	24.6	25.1
	6H	24.6	25.6	25.0	26.0	26.5	23.6	24.6	24.1	25.1	25.5
	8H	25.0	25.9	25.4	26.3	26.8	23.8	24.7	24.2	25.2	25.6
	12H	25.3	26.2	25.8	26.6	27.1	23.9	24.7	24.4	25.2	25.7
8H	4H	24.0	25.0	24.5	25.4	25.9	23.5	24.4	24.0	24.9	25.3
	6H	25.1	25.9	25.6	26.3	26.8	24.2	25.0	24.7	25.4	25.9
	8H	25.6	26.3	26.1	26.8	27.3	24.4	25.1	24.9	25.6	26.1
	12H	26.1	26.7	26.6	27.2	27.7	24.6	25.2	25.1	25.7	26.2
12H	4H	24.1	24.9	24.6	25.4	25.9	23.6	24.4	24.1	24.9	25.4
	6H	25.2	25.9	25.7	26.3	26.9	24.3	25.0	24.8	25.5	26.0
	8H	25.7	26.3	26.2	26.8	27.3	24.6	25.2	25.1	25.7	26.2

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1590 B = 87		H(C0) = 21 H(C90) = 21		H(C180) = 21 H(C270) = 21	
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°			
γ		Luminance in cd/m²									
45°		9575.5	9562.3	9573.1	9661.0	9922.9	10330.4	10983.3			
50°		9237.8	9210.7	9225.2	9288.9	9518.2	9911.1	10638.0			
55°		8909.8	8866.1	8879.4	8905.9	9100.4	9463.6	10271.7			
60°		8559.2	8516.0	8512.4	8511.4	8667.5	8994.2	9840.7			
65°		8190.6	8144.7	8107.4	8081.8	8207.0	8480.4	9332.2			
70°		7771.2	7720.6	7612.6	7565.9	7635.8	7857.1	8705.8			
75°		7259.0	7194.3	7015.4	6906.5	6874.2	7002.9	7796.0			
80°		6661.5	6543.9	6342.3	6068.8	5882.3	5800.6	6438.4			
85°		6173.9	6008.7	5725.7	5312.4	4809.6	4298.4	4453.4			

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Luminance values in cd/m²

γ 65°

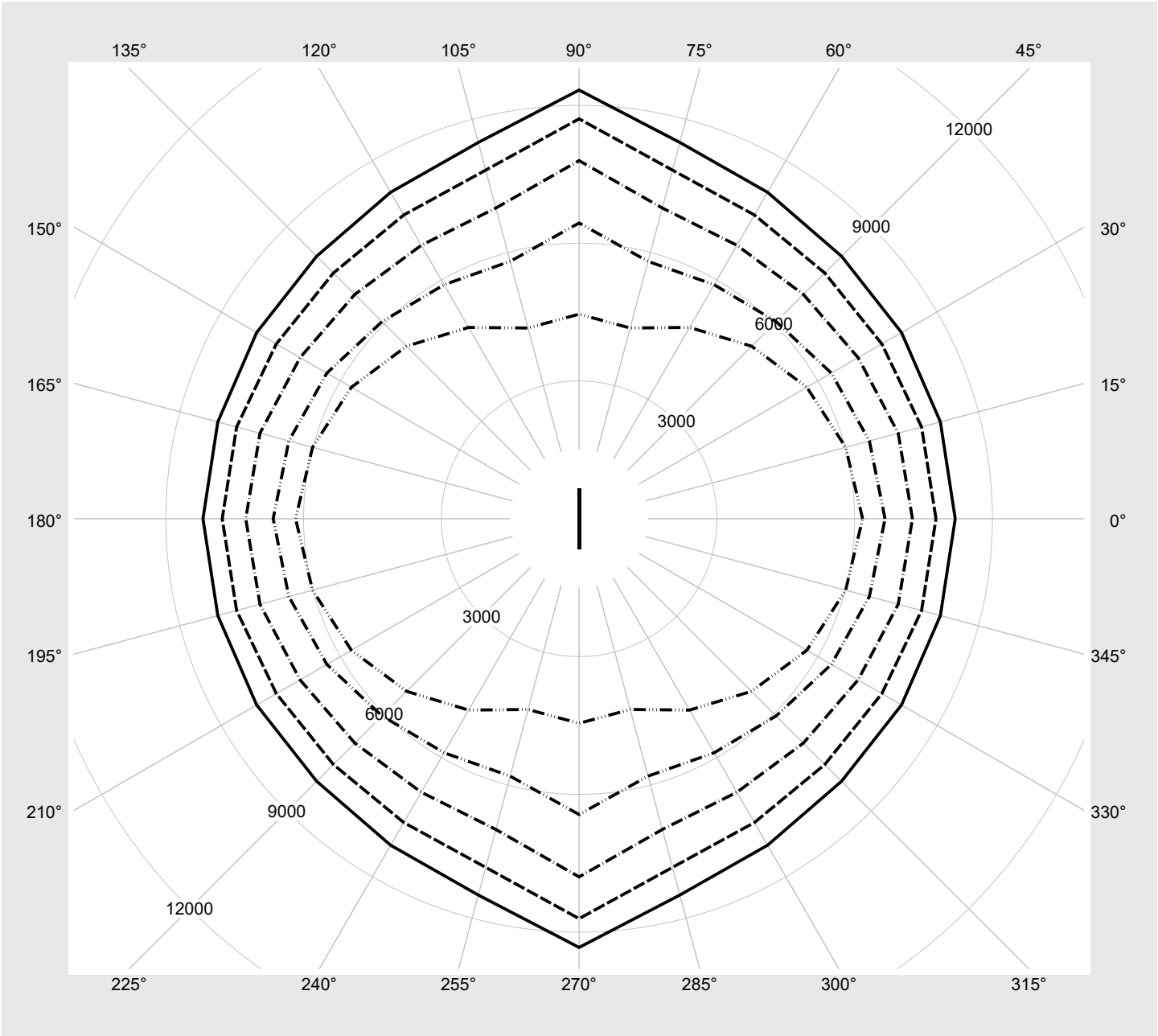
γ 70°

γ 75°

γ 80°

γ 85°

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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	5460	36.5
95	241	252	5193	34.9
90	228	250	4923	33.4
85	214	248	4631	31.8
80	201	245	4358	30.3
75	189	243	4105	29.0
70	176	241	3830	27.4
65	163	238	3553	25.9
60	150	235	3276	24.4
55	137	231	2996	22.7
50	125	228	2738	21.2
45	112	224	2456	19.5
40	99	219	2173	17.8
35	87	215	1911	16.2
30	74	209	1629	14.5
25	62	202	1365	13.0
20	50	194	1100	11.4
15	37	183	812	9.9
10	25	169	545	8.4
5	13	145	277	7.2
3	8	127	165	6.9