

Photometric test report

Family
Monsun® 21

Order number: **51FB10DL420K**
EAN: **4069025131522**

LP number
59393_34



Version prismatic diffuser, opal, PMMA, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 2630 lm
Power consumption = 15.4 W
Luminous efficacy = 170.8 lm/W

serial
documentation
05.02.2026

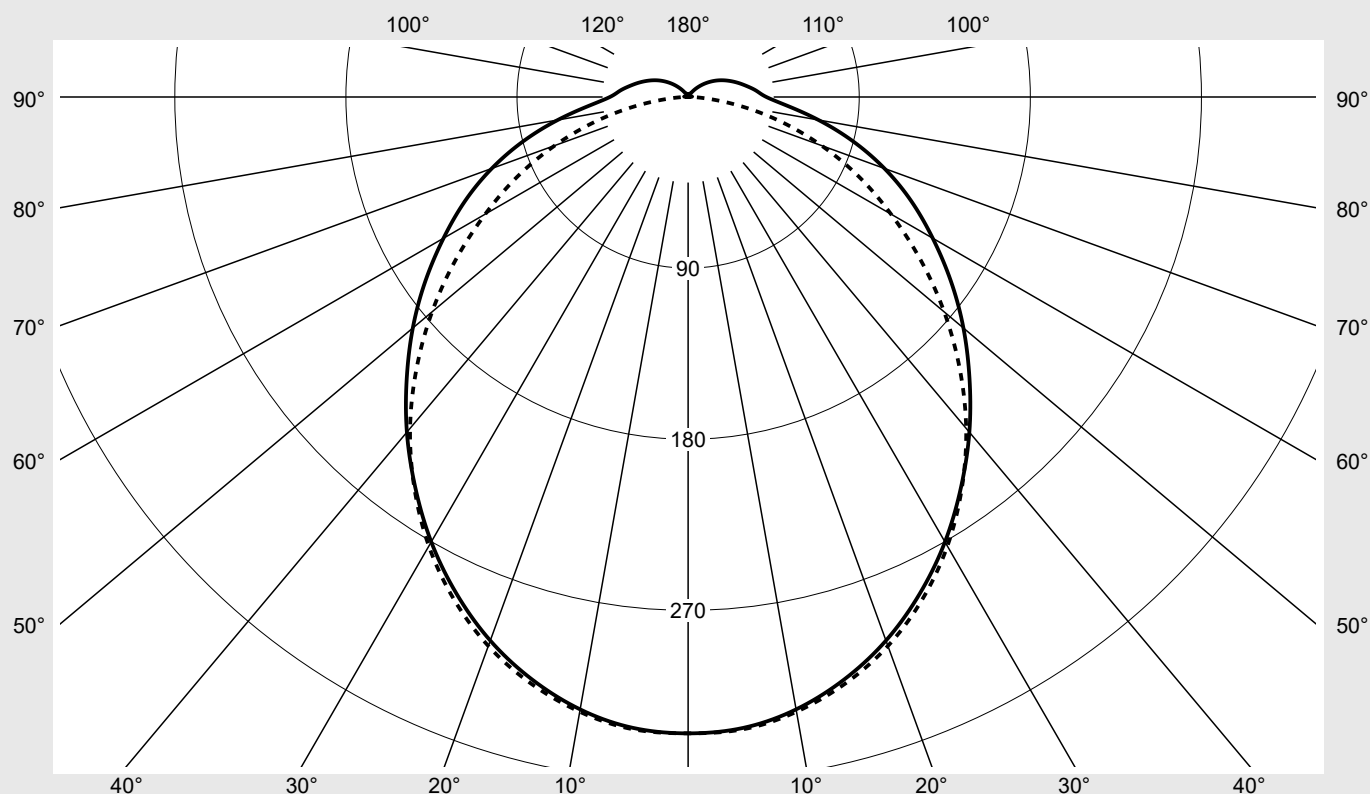
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 335 cd/klm



Classifications

DIN 5040 A 4 1
CIE N1=46 N2=76 N3=93
N4=94 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 93.9%
 ϕ_o 6.1%

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°	334.7	334.7	334.7	334.7	334.7	334.7	334.7	2.0	2.0
5°	333.1	333.6	331.1	331.9	332.7	333.2	333.8	15.9	17.9
10°	327.1	327.9	325.6	326.0	327.2	327.9	328.3	31.1	49.0
15°	317.2	318.4	316.4	316.9	317.9	318.6	319.4	45.1	94.1
20°	304.3	305.5	304.0	304.0	305.5	306.0	307.3	57.2	151.3
25°	288.3	289.5	288.3	288.0	289.4	289.8	291.5	67.0	218.3
30°	270.2	271.6	270.4	269.7	270.4	271.0	272.7	74.2	292.5
35°	250.3	251.6	250.4	249.2	249.0	249.3	251.0	78.6	371.1
40°	230.1	230.9	229.3	227.2	226.1	225.6	227.5	80.3	451.4
45°	209.3	209.8	207.4	204.4	202.0	200.5	202.0	79.4	530.9
50°	189.0	188.7	186.0	181.6	177.7	174.7	175.8	76.4	607.2
55°	168.7	168.2	164.8	159.1	153.5	149.2	149.2	71.4	678.6
60°	148.6	147.7	143.7	136.7	130.2	124.3	123.2	64.8	743.4
65°	129.5	127.8	123.0	114.9	108.3	100.8	99.1	57.1	800.4
70°	109.9	108.0	102.2	93.4	85.8	77.4	74.6	48.0	848.4
75°	89.7	87.9	81.7	72.5	63.8	55.3	51.1	38.1	886.5
80°	69.6	67.6	61.9	52.4	43.1	34.0	28.9	27.7	914.2
85°	52.2	49.9	44.6	35.4	25.7	16.3	10.6	18.5	932.7
90°	41.2	39.2	34.0	25.7	16.3	7.4	2.3	13.2	945.9
95°	36.2	34.5	30.1	22.6	13.9	5.6	2.0	11.4	957.3
100°	31.8	30.4	26.2	19.4	11.5	4.0	1.7	9.7	967.1
105°	27.9	26.5	22.5	16.5	9.2	2.5	1.5	8.1	975.2
110°	24.2	22.6	19.2	13.5	6.9	1.5	1.3	6.6	981.8
115°	20.8	19.1	16.0	10.8	4.9	1.4	1.2	5.2	987.0
120°	17.3	15.9	12.9	8.1	3.1	1.3	1.2	4.0	991.0
125°	13.9	12.5	9.8	5.6	1.6	1.3	1.1	2.9	993.8
130°	10.5	9.4	7.0	3.5	1.5	1.3	1.1	2.0	995.8
135°	7.3	6.4	4.4	1.9	1.5	1.2	1.0	1.3	997.1
140°	4.5	3.8	2.3	1.7	1.5	1.2	1.1	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	1.4	0.4	999.3
160°	1.8	1.8	1.7	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	1.5	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	1.5	0.1	1000.0
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	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	18.0	19.7	18.4	20.0	20.4	17.8	19.5	18.2	19.9	20.2
	3H	19.8	21.4	20.2	21.7	22.1	19.3	20.9	19.7	21.2	21.6
	4H	20.7	22.1	21.1	22.5	22.8	19.9	21.4	20.3	21.7	22.1
	6H	21.4	22.8	21.8	23.1	23.5	20.3	21.7	20.7	22.0	22.4
	8H	21.8	23.0	22.2	23.4	23.8	20.4	21.7	20.8	22.1	22.5
	12H	22.1	23.3	22.5	23.7	24.1	20.5	21.7	20.9	22.1	22.5
4H	2H	18.7	20.2	19.1	20.5	20.9	18.6	20.1	19.0	20.4	20.8
	3H	20.7	22.0	21.2	22.4	22.8	20.3	21.5	20.7	21.9	22.3
	4H	21.7	22.9	22.2	23.3	23.7	21.0	22.1	21.4	22.5	22.9
	6H	22.6	23.6	23.1	24.0	24.5	21.5	22.5	21.9	22.9	23.4
	8H	23.0	23.9	23.5	24.4	24.9	21.6	22.6	22.1	23.0	23.5
	12H	23.4	24.2	23.9	24.7	25.2	21.7	22.6	22.2	23.0	23.5
8H	4H	22.0	23.0	22.5	23.4	23.9	21.4	22.3	21.8	22.7	23.2
	6H	23.1	23.9	23.6	24.4	24.9	22.0	22.8	22.5	23.3	23.8
	8H	23.6	24.3	24.1	24.8	25.3	22.3	23.0	22.8	23.4	24.0
	12H	24.2	24.8	24.7	25.2	25.8	22.4	23.0	22.9	23.5	24.0
12H	4H	22.1	22.9	22.6	23.4	23.9	21.5	22.3	22.0	22.8	23.2
	6H	23.2	23.9	23.7	24.4	24.9	22.2	22.9	22.7	23.3	23.9
	8H	23.8	24.4	24.3	24.9	25.4	22.5	23.1	23.0	23.6	24.1

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		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°		5549.1	5579.8	5609.4	5689.5	5858.4	6121.2	6543.0			
50°		5314.9	5325.9	5349.3	5403.1	5545.2	5786.4	6244.7			
55°		5089.4	5098.2	5102.6	5122.8	5222.4	5447.5	5916.9			
60°		4876.1	4871.6	4858.9	4837.8	4914.9	5094.5	5579.0			
65°		4698.0	4665.0	4622.3	4548.2	4625.1	4755.6	5273.4			
70°		4495.9	4447.4	4353.5	4234.3	4259.0	4333.9	4861.6			
75°		4241.3	4189.3	4057.1	3880.7	3819.6	3850.8	4334.8			
80°		3939.4	3864.3	3715.7	3453.4	3274.8	3154.1	3547.5			
85°		3706.5	3589.7	3422.6	3063.9	2704.5	2299.4	2397.0			

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Luminance values in cd/m²

γ 65°

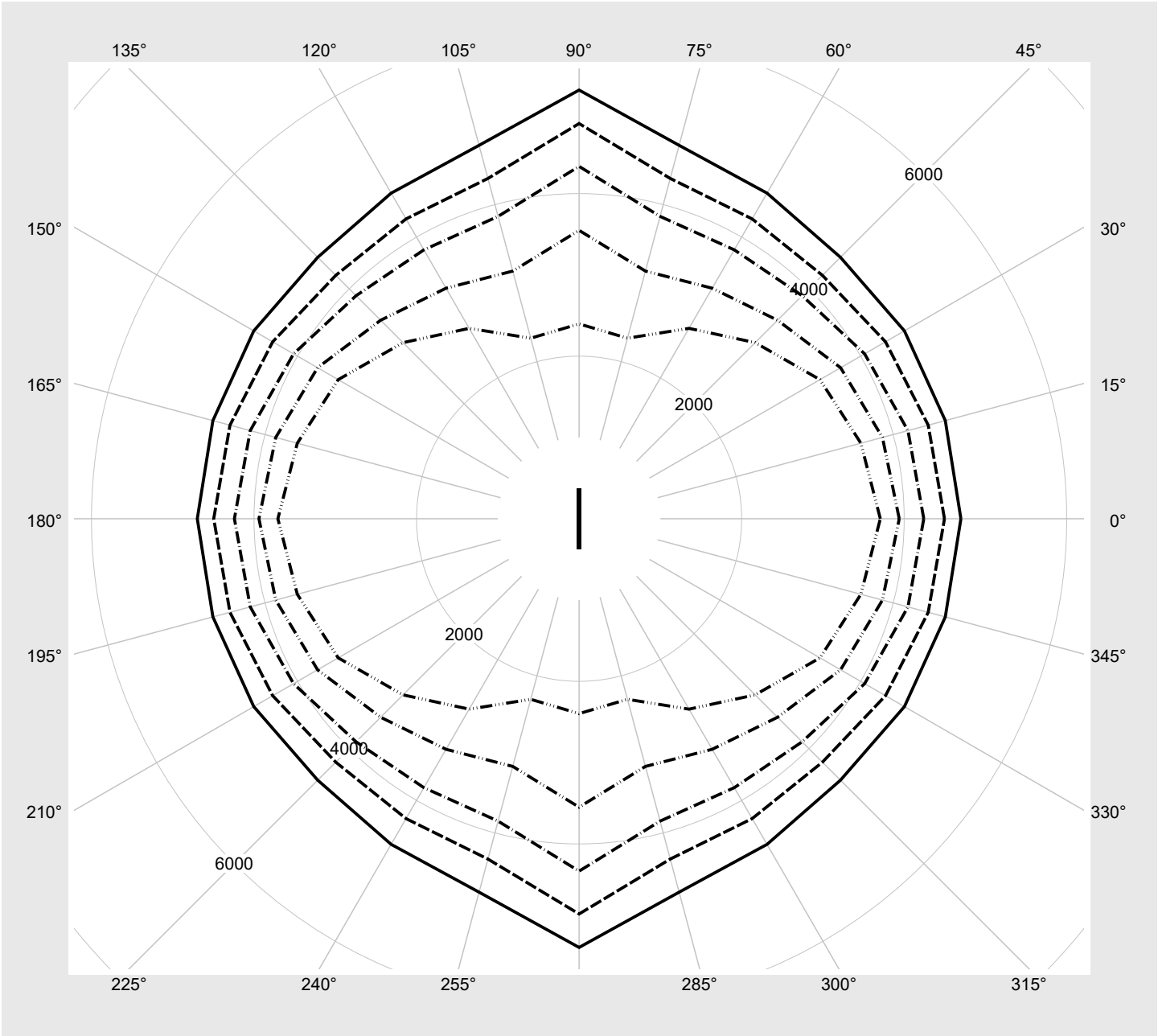
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Family Monsun® 21	Order number: 51FB10DL420K EAN: 4069025131522	LP number 59393_34
Dimming levels table		environmental temperature: 25°C



Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	2630	15.4
95	241	252	2497	14.6
90	228	250	2364	13.9
85	215	248	2231	13.1
80	203	246	2108	12.4
75	190	243	1974	11.7
70	177	241	1839	11.0
65	164	238	1705	10.3
60	152	235	1580	9.6
55	139	232	1445	8.9
50	127	229	1320	8.2
45	114	225	1185	7.6
40	101	220	1049	6.9
35	89	216	924	6.2
30	76	210	787	5.5
25	64	204	661	5.0
20	51	195	524	4.3
15	39	185	397	3.7
10	26	171	260	3.3
7	20	161	197	3.0