

Photometric test report

Family
Monsun® 21

Order number: **51FB10DL420J**
EAN: **4058352757109**

LP number
59393_6



Version prismatic diffuser, opal, PMMA, extremely wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 2630 lm
Power consumption = 16.6 W
Luminous efficacy = 158.4 lm/W

serial
documentation
08.02.2023

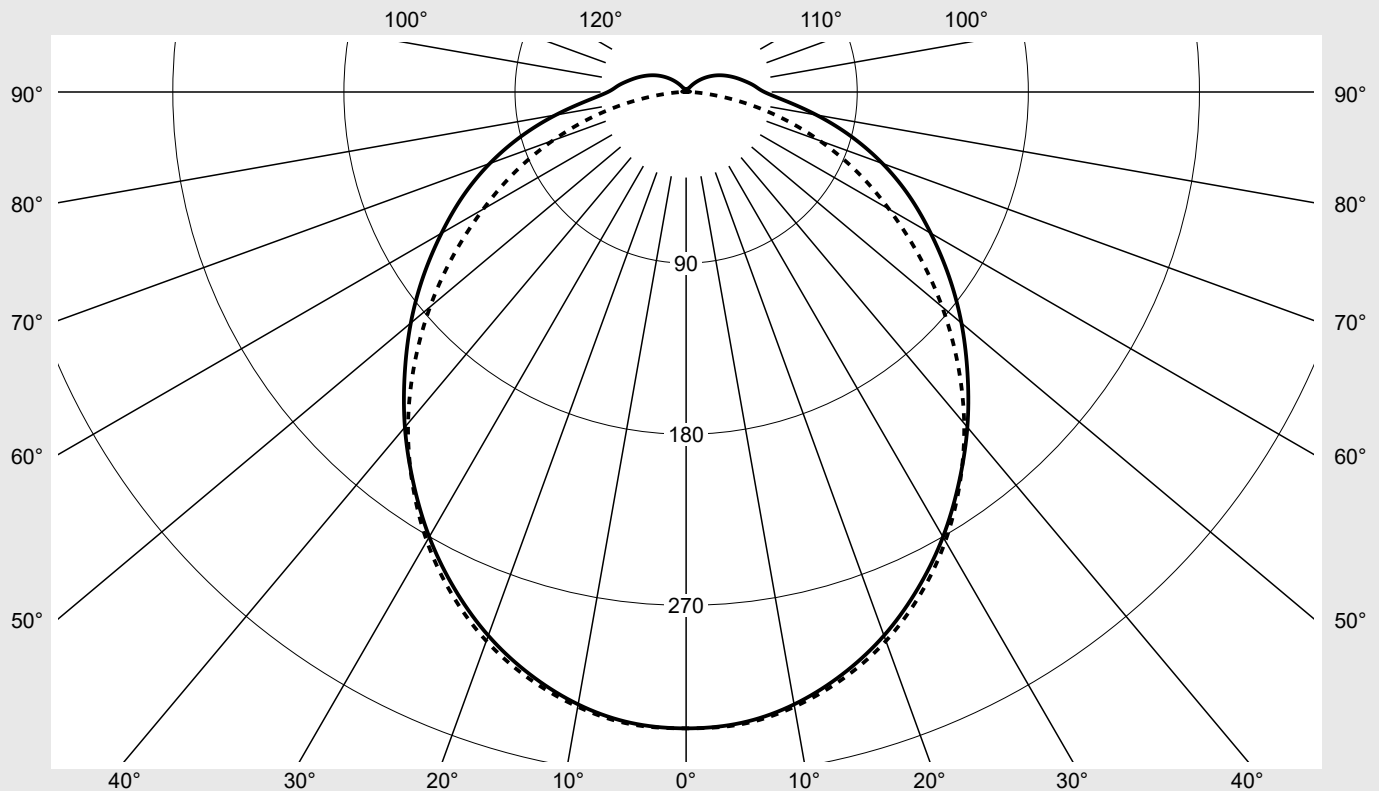
siteco

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
		siteco

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

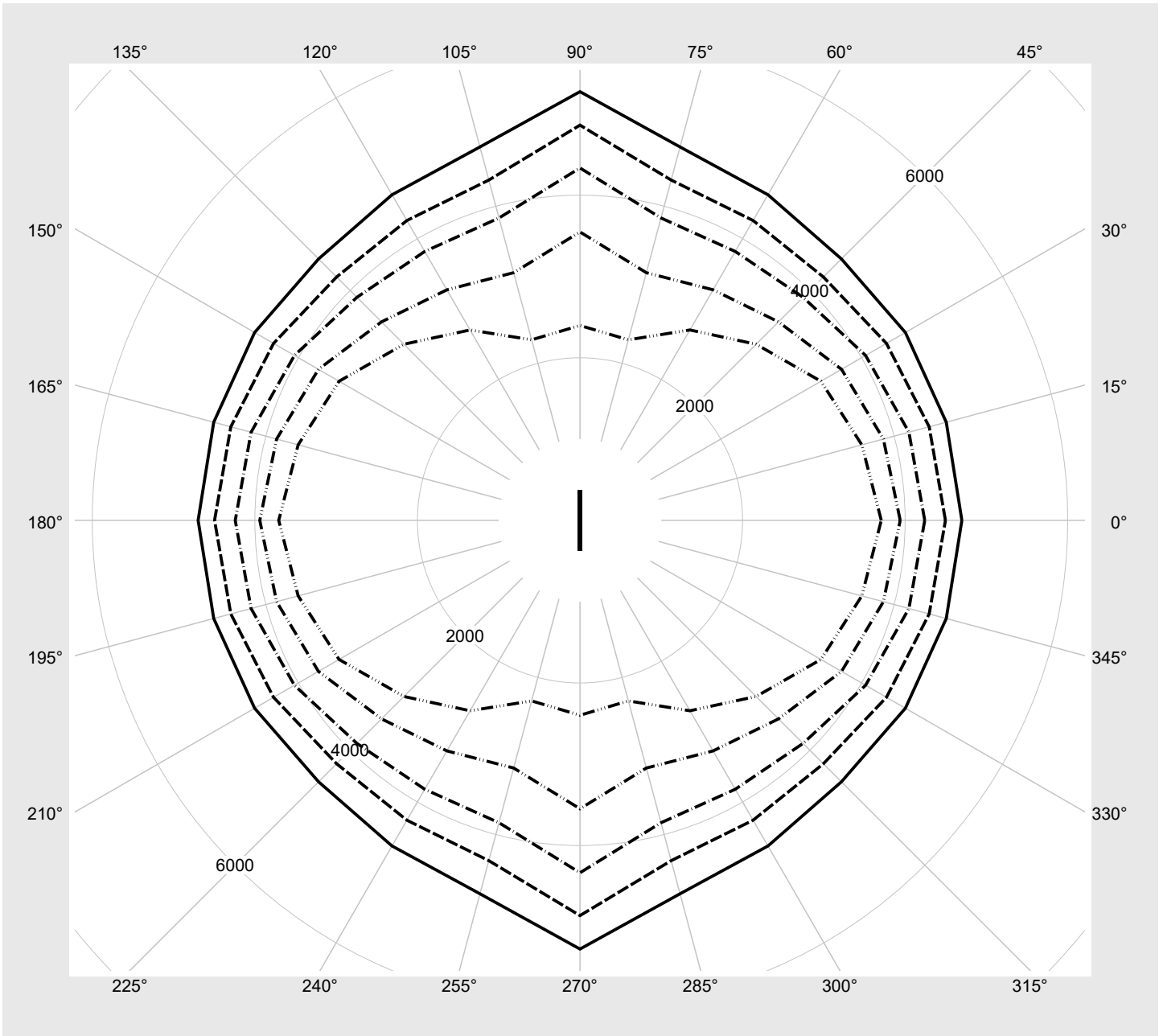
C-planes	γ	Luminance in cd/m ²								
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°		
45°		5549.1	5579.8	5609.4	5689.5	5858.4	6121.2	6543.0		
50°		5314.9	5325.9	5349.3	5403.1	5545.2	5786.4	6244.7		
55°		5089.4	5098.2	5102.6	5122.8	5222.4	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°



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Dimming levels table	environmental temperature: 25°C	
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	2630	16.6
95	241	252	2498	15.8
90	228	250	2364	15.1
85	215	248	2231	14.3
80	203	246	2108	13.5
75	190	243	1974	12.8
70	177	241	1839	12.1
65	165	238	1715	11.4
60	152	235	1580	10.7
55	139	232	1444	10.0
50	127	229	1318	9.2
45	114	225	1182	8.5
40	102	221	1056	7.8
35	89	216	918	7.0
30	77	210	792	6.4
25	64	204	654	5.6
20	52	196	526	5.0
15	40	186	398	4.2
10	27	172	259	3.5
5	15	150	131	2.7
2	8	127	55	2.3