

Photometric test report

Family
Monsun® 21

Order number: **51FB10DP467B3H**
EAN: **4058352520741**

LP number
58939_68



Version prismatic diffuser, opal, PMMA, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 6060 lm
Power consumption = 42.2 W
Luminous efficacy = 143.6 lm/W

serial
documentation
01.07.2021

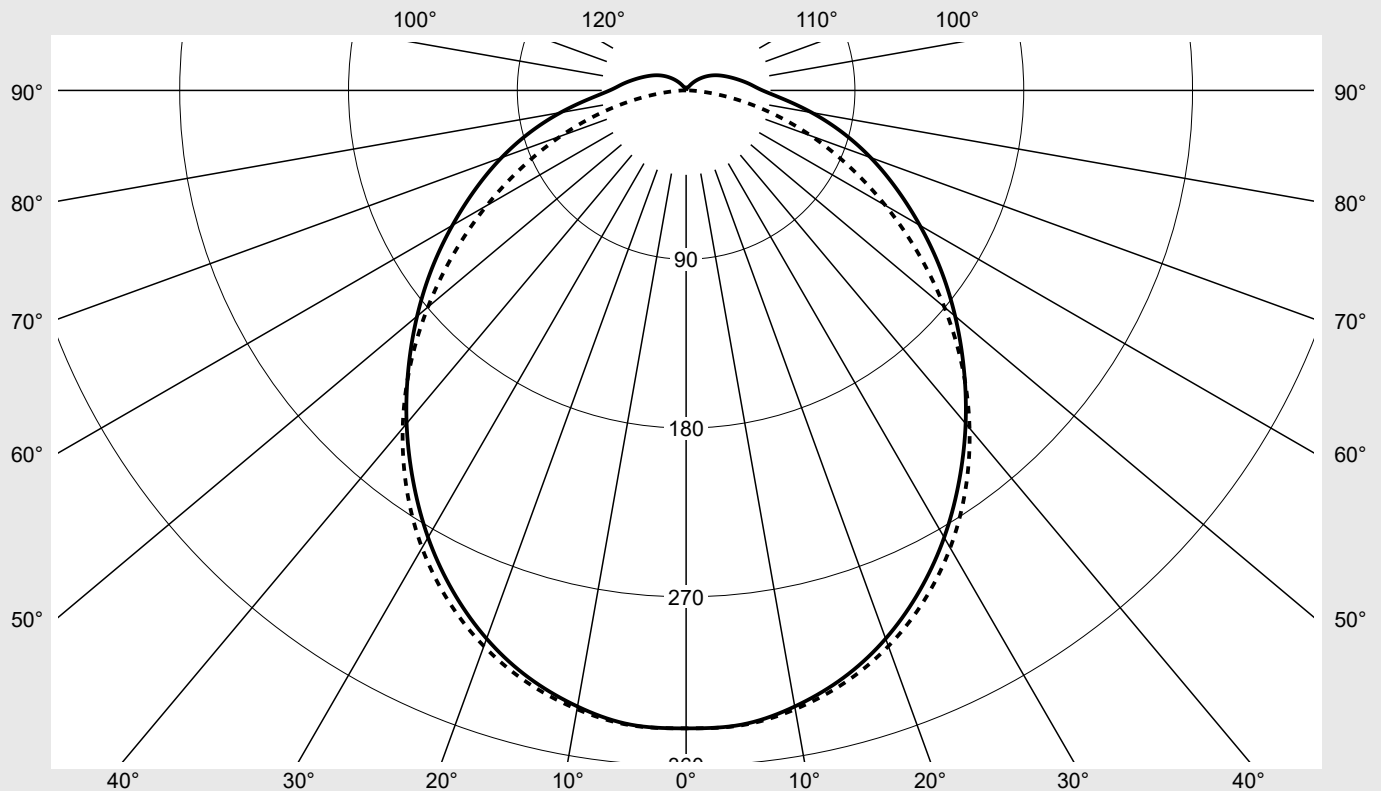
sitEco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 340 cd/klm



Classifications

DIN 5040 A 4 1
CIE N1=47 N2=77 N3=93
N4=94 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 94.2%
 ϕ_o 5.8%

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 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°	340.1	340.1	340.1	340.1	340.1	340.1	340.1	2.0	2.0
5°	339.4	338.3	336.5	337.9	339.5	339.4	339.8	16.2	18.2
10°	333.5	333.0	331.2	332.8	334.6	334.7	335.0	31.7	49.9
15°	324.2	324.2	322.5	324.2	326.1	326.4	326.9	46.1	96.0
20°	311.0	311.6	310.1	311.9	314.1	314.7	315.3	58.6	154.6
25°	294.4	295.4	294.1	296.0	298.4	299.4	300.2	68.7	223.4
30°	275.2	276.6	275.1	276.8	279.4	280.7	281.6	76.1	299.5
35°	253.9	255.2	253.8	254.9	257.1	258.4	259.7	80.5	380.0
40°	231.8	232.9	231.3	231.1	232.5	233.8	235.1	81.9	461.9
45°	209.4	209.9	207.8	205.9	206.1	206.6	208.2	80.4	542.4
50°	187.2	187.1	184.8	181.3	179.3	178.3	179.7	76.6	619.0
55°	165.5	164.8	162.1	157.0	153.1	150.2	150.9	70.7	689.7
60°	143.9	142.9	139.5	133.7	127.9	123.2	122.7	63.3	753.0
65°	123.6	122.5	117.8	111.0	104.2	97.9	96.0	54.9	808.0
70°	104.7	103.3	97.1	89.4	81.7	74.3	71.0	45.8	853.8
75°	86.1	84.4	77.8	69.2	60.2	52.2	47.8	36.3	890.0
80°	68.0	66.1	60.2	50.5	40.7	32.1	26.9	26.7	916.7
85°	51.8	50.0	44.6	35.3	24.7	15.7	10.1	18.3	935.0
90°	40.8	39.2	34.4	26.0	15.9	6.9	1.8	13.1	948.2
95°	34.8	33.5	29.7	22.7	13.6	5.1	1.6	11.2	959.3
100°	29.9	28.8	25.4	19.2	11.3	3.7	1.4	9.4	968.7
105°	25.7	24.7	21.4	16.1	8.8	2.4	1.2	7.7	976.4
110°	22.1	20.9	18.0	13.0	6.6	1.4	1.1	6.1	982.5
115°	19.0	17.8	15.0	10.4	4.7	1.2	1.1	4.9	987.4
120°	16.0	14.8	12.2	7.9	3.1	1.2	1.0	3.8	991.2
125°	13.0	11.9	9.4	5.6	1.7	1.1	0.9	2.7	993.9
130°	10.1	9.1	6.9	3.7	1.4	1.1	1.0	1.9	995.9
135°	7.3	6.5	4.6	2.1	1.4	1.1	1.1	1.3	997.1
140°	4.8	4.1	2.7	1.7	1.4	1.1	1.1	0.8	998.0
145°	2.6	2.3	1.9	1.7	1.4	1.2	1.2	0.5	998.5
150°	2.0	2.0	1.9	1.6	1.3	1.3	1.3	0.4	998.9
155°	1.9	1.9	1.7	1.6	1.4	1.4	1.4	0.4	999.3
160°	1.7	1.7	1.6	1.4	1.4	1.4	1.4	0.3	999.6
165°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.2	999.8
170°	1.3	1.4	1.4	1.4	1.4	1.4	1.4	0.1	999.9
175°	1.4	1.4	1.4	1.4	1.4	1.4	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
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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	20.1	21.8	20.4	22.1	22.4	20.1	21.8	20.4	22.1	22.4
	3H	21.8	23.4	22.2	23.7	24.0	21.4	23.0	21.8	23.3	23.7
	4H	22.6	24.1	23.0	24.4	24.8	22.0	23.4	22.4	23.8	24.1
	6H	23.4	24.7	23.8	25.1	25.5	22.3	23.7	22.7	24.1	24.4
	8H	23.8	25.0	24.2	25.4	25.8	22.5	23.7	22.9	24.1	24.5
	12H	24.1	25.3	24.5	25.7	26.1	22.5	23.7	22.9	24.1	24.5
4H	2H	20.8	22.2	21.2	22.6	23.0	20.8	22.2	21.2	22.6	22.9
	3H	22.7	24.0	23.1	24.3	24.8	22.3	23.6	22.8	24.0	24.4
	4H	23.7	24.8	24.1	25.2	25.6	23.0	24.1	23.4	24.5	24.9
	6H	24.6	25.6	25.0	26.0	26.5	23.5	24.5	23.9	24.9	25.3
	8H	25.0	25.9	25.5	26.4	26.8	23.6	24.5	24.1	25.0	25.4
	12H	25.4	26.2	25.9	26.7	27.2	23.7	24.5	24.2	25.0	25.5
8H	4H	24.0	24.9	24.5	25.4	25.8	23.4	24.3	23.9	24.7	25.2
	6H	25.1	25.9	25.6	26.3	26.8	24.0	24.8	24.5	25.2	25.7
	8H	25.6	26.3	26.1	26.8	27.3	24.2	24.9	24.7	25.4	25.9
	12H	26.2	26.8	26.7	27.2	27.8	24.4	25.0	24.9	25.5	26.0
12H	4H	24.0	24.9	24.5	25.3	25.8	23.5	24.3	24.0	24.8	25.2
	6H	25.2	25.8	25.7	26.3	26.8	24.2	24.8	24.7	25.3	25.8
	8H	25.8	26.4	26.3	26.8	27.4	24.4	25.0	24.9	25.5	26.0

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1590	H(C0) = 21	H(C180) = 21
			B = 87	H(C90) = 21	H(C270) = 21

C-planes	γ	Luminance in cd/m ²							
		0°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°	10449.2	10514.0	10590.9	10812.3	11279.0	11903.7	12729.5		
50°	9910.4	9947.1	10021.4	10174.3	10559.1	11152.3	12057.1		
55°	9397.4	9408.4	9466.0	9540.6	9838.0	10356.4	11309.9		
60°	8890.5	8883.0	8898.4	8926.7	9122.7	9550.8	10512.6		
65°	8444.8	8424.5	8353.2	8300.2	8416.7	8738.9	9677.6		
70°	8062.1	8016.6	7808.5	7661.0	7674.7	7883.8	8780.5		
75°	7663.1	7590.8	7299.5	7003.5	6829.7	6900.2	7714.1		
80°	7240.2	7120.0	6828.2	6301.9	5863.0	5667.9	6308.3		
85°	6931.7	6784.9	6467.7	5807.7	4936.7	4230.0	4405.6		

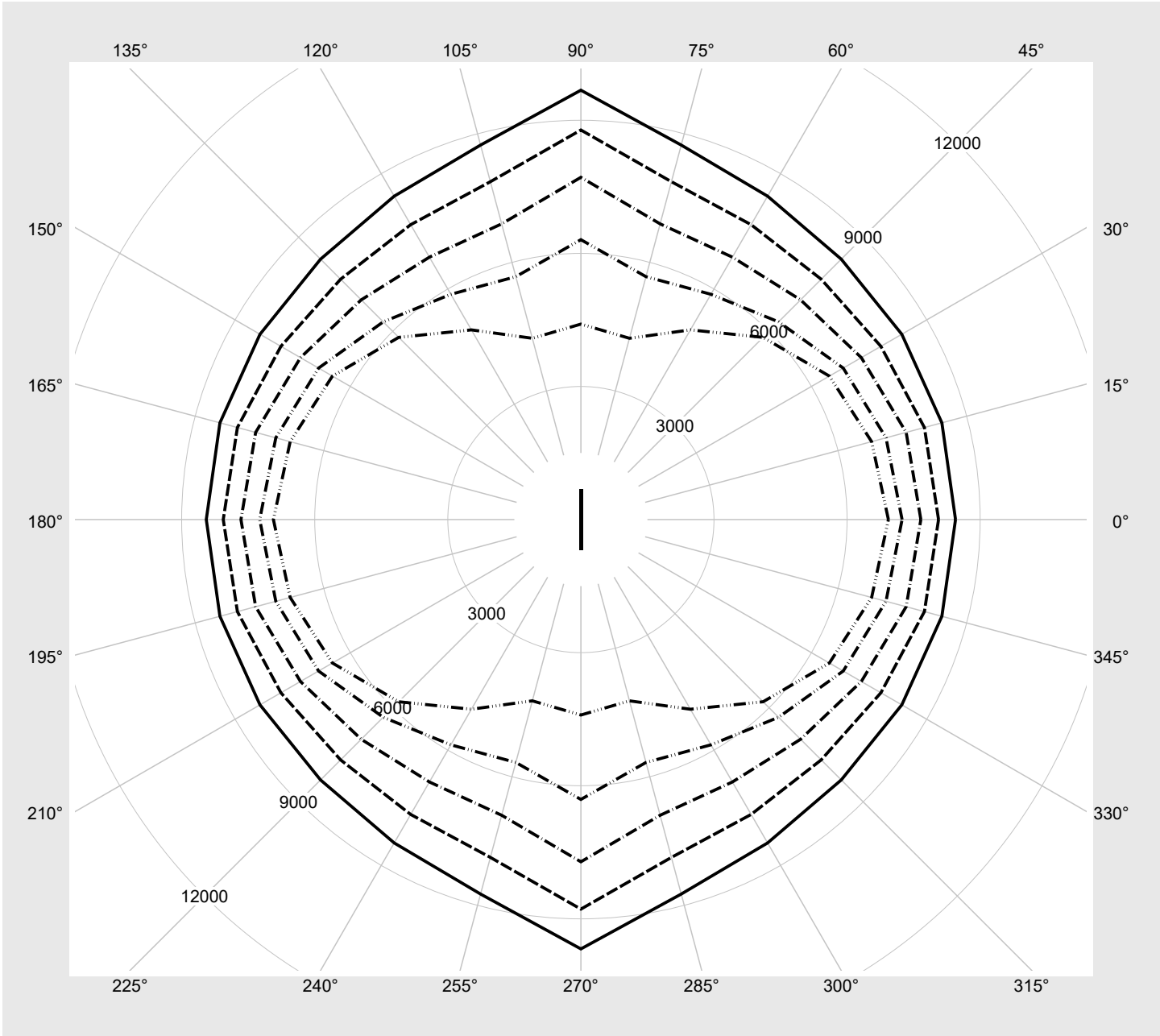
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Luminance values in cd/m²


γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco



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Dimming levels table	environmental temperature: 25°C	
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	6060	42.2
95	240	252	5749	40.0
90	227	250	5456	37.9
85	213	248	5141	35.8
80	200	245	4844	33.8
75	187	243	4544	31.9
70	174	240	4242	29.9
65	161	237	3938	27.9
60	148	234	3630	26.0
55	136	231	3344	24.3
50	123	227	3033	22.4
45	110	223	2719	20.5
40	98	219	2427	18.8
35	85	214	2109	16.9
30	73	208	1814	15.2
25	61	202	1518	13.4
20	49	194	1219	11.6
15	37	183	917	10.0
10	25	169	614	8.4
5	13	145	308	6.8
3	7	122	155	6.0