

Photometric test report

Family
Monsun® 21

Order number: **51FB20DP467B3H**
EAN: **4058352520277**

LP number
59060_70



Version prismatic diffuser, opal, polycarbonate, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 5460 lm
Power consumption = 42.2 W
Luminous efficacy = 129.4 lm/W

serial
documentation
01.07.2021

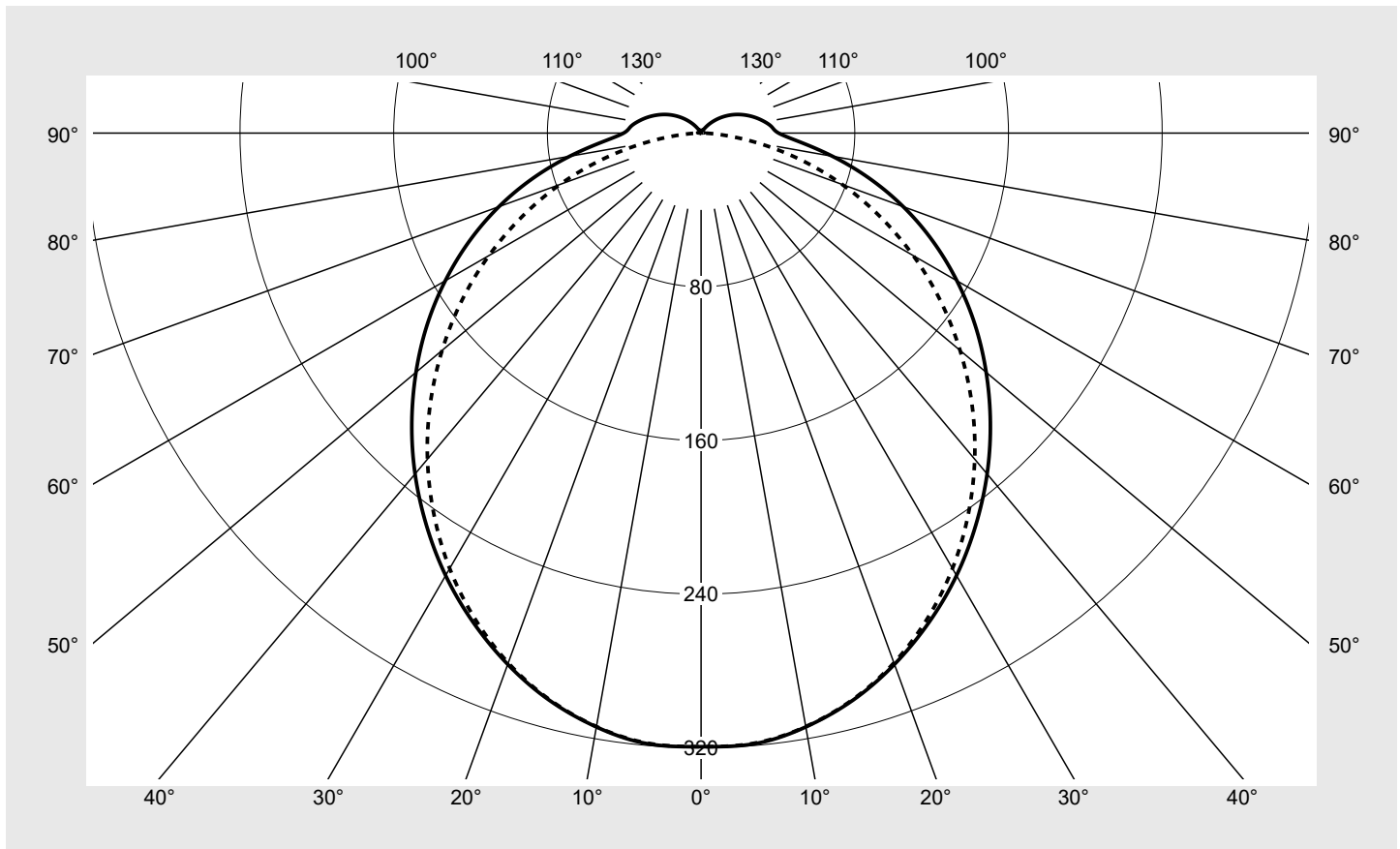
sitEco

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
		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°	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
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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	20.0	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

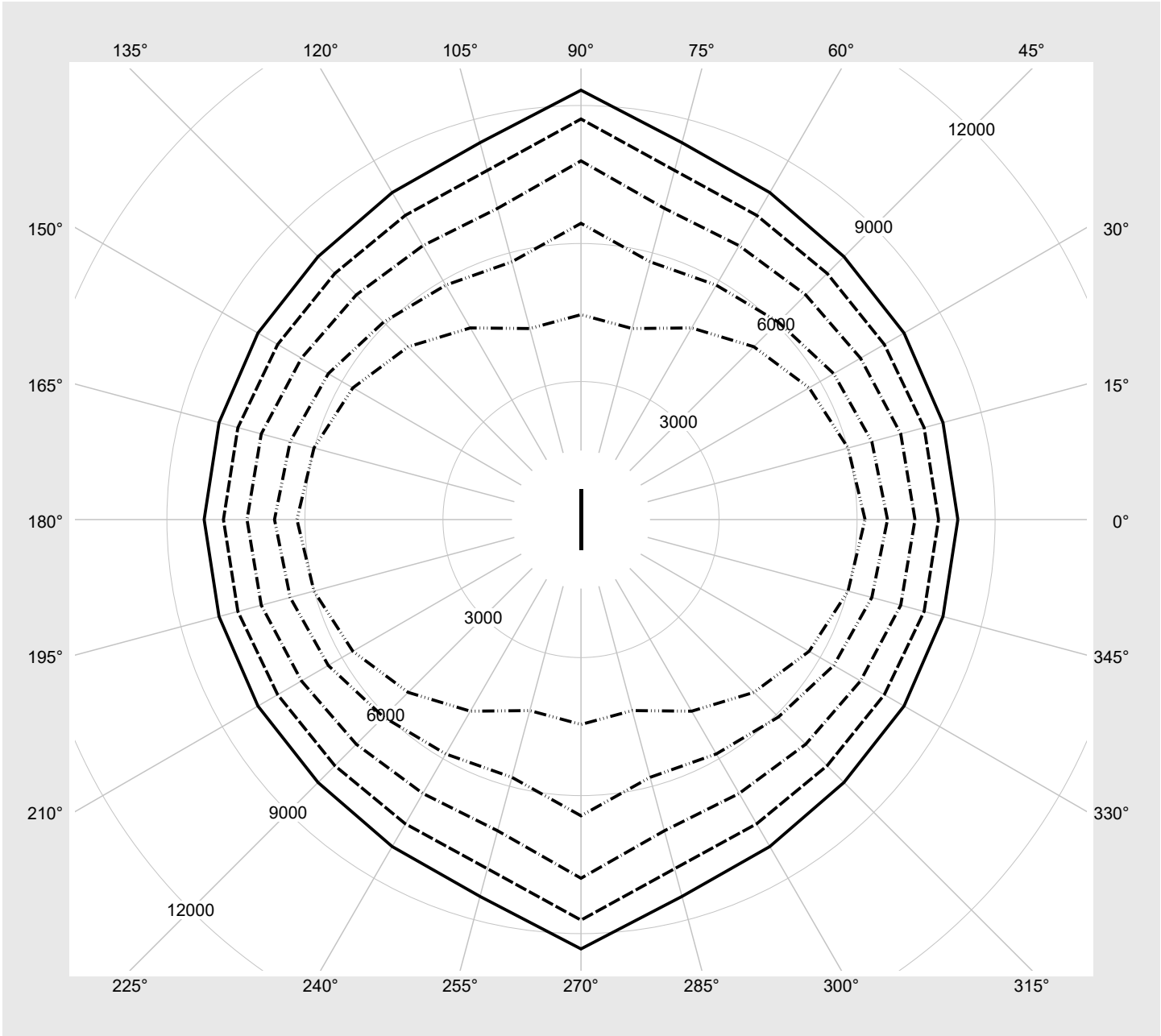
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1590	H(C0) = 21	H(C180) = 21
			B = 87	H(C90) = 21	H(C270) = 21

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°		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° **siteco**



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Dimming levels table	environmental temperature: 25°C	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	5460	42.2
95	240	252	5180	40.0
90	227	250	4916	37.9
85	213	248	4632	35.8
80	200	245	4364	33.8
75	187	243	4094	31.9
70	174	240	3822	29.9
65	161	237	3548	27.9
60	148	234	3271	26.0
55	136	231	3013	24.3
50	123	227	2733	22.4
45	110	223	2450	20.5
40	98	219	2187	18.8
35	85	214	1900	16.9
30	73	208	1634	15.2
25	61	202	1368	13.4
20	49	194	1098	11.6
15	37	183	826	10.0
10	25	169	553	8.4
5	13	145	278	6.8
3	7	122	139	6.0