

Photometric test report

Family
Monsun® 21

Order number: **51FB10DP440B**
EAN: **4058352519950**

LP number
58939_40



Version prismatic diffuser, opal, PMMA, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 4360 lm
Power consumption = 27.9 W
Luminous efficacy = 156.3 lm/W

serial
documentation
17.06.2021

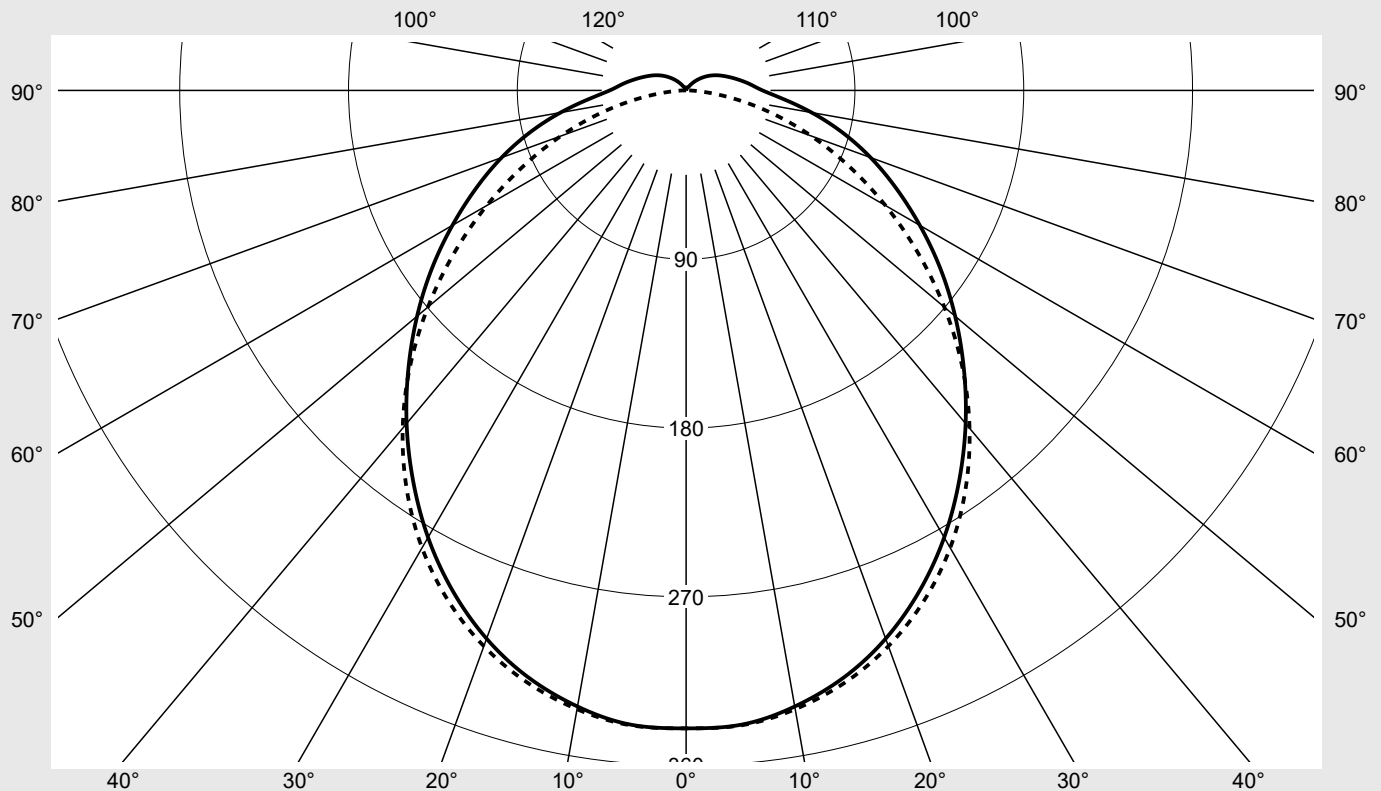
siteco

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

Photometric test report

Family Monsun® 21	Order number: 51FB10DP440B EAN: 4058352519950	LP number 58939_40
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°	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

Photometric test report

Family Monsun® 21	Order number: 51FB10DP440B EAN: 4058352519950	LP number 58939_40
------------------------------------	--	-------------------------------------

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	18.9	20.6	19.3	20.9	21.3	18.9	20.6	19.3	20.9	21.3
	3H	20.7	22.2	21.1	22.6	22.9	20.3	21.8	20.7	22.2	22.5
	4H	21.5	22.9	21.9	23.3	23.7	20.8	22.3	21.2	22.6	23.0
	6H	22.2	23.6	22.7	24.0	24.3	21.2	22.5	21.6	22.9	23.3
	8H	22.6	23.9	23.0	24.3	24.7	21.3	22.6	21.7	23.0	23.4
	12H	22.9	24.1	23.4	24.5	24.9	21.4	22.6	21.8	23.0	23.4
4H	2H	19.6	21.1	20.0	21.4	21.8	19.6	21.1	20.0	21.4	21.8
	3H	21.6	22.8	22.0	23.2	23.6	21.2	22.4	21.6	22.8	23.2
	4H	22.5	23.7	23.0	24.1	24.5	21.8	23.0	22.3	23.4	23.8
	6H	23.4	24.4	23.9	24.9	25.3	22.3	23.3	22.8	23.7	24.2
	8H	23.9	24.8	24.3	25.2	25.7	22.5	23.4	22.9	23.8	24.3
	12H	24.3	25.1	24.8	25.5	26.0	22.6	23.4	23.0	23.8	24.3
8H	4H	22.8	23.8	23.3	24.2	24.7	22.2	23.2	22.7	23.6	24.1
	6H	23.9	24.7	24.4	25.2	25.7	22.9	23.6	23.3	24.1	24.6
	8H	24.5	25.2	25.0	25.6	26.2	23.1	23.8	23.6	24.2	24.8
	12H	25.0	25.6	25.5	26.1	26.6	23.2	23.8	23.7	24.3	24.9
12H	4H	22.9	23.7	23.4	24.2	24.7	22.3	23.2	22.8	23.6	24.1
	6H	24.0	24.7	24.5	25.2	25.7	23.0	23.7	23.5	24.2	24.7
	8H	24.6	25.2	25.1	25.7	26.2	23.3	23.9	23.8	24.4	24.9

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°		7517.9	7564.5	7619.8	7779.2	8114.9	8564.4	9158.5	
50°		7130.2	7156.7	7210.1	7320.1	7597.0	8023.8	8674.8	
55°		6761.2	6769.0	6810.5	6864.2	7078.1	7451.1	8137.1	
60°		6396.4	6391.1	6402.2	6422.5	6563.5	6871.5	7563.5	
65°		6075.8	6061.2	6009.9	5971.8	6055.6	6287.4	6962.8	
70°		5800.5	5767.7	5618.0	5511.9	5521.7	5672.2	6317.4	
75°		5513.4	5461.3	5251.8	5038.8	4913.8	4964.5	5550.0	
80°		5209.2	5122.7	4912.7	4534.0	4218.2	4077.9	4538.7	
85°		4987.2	4881.6	4653.3	4178.5	3551.8	3043.4	3169.7	

Photometric test report

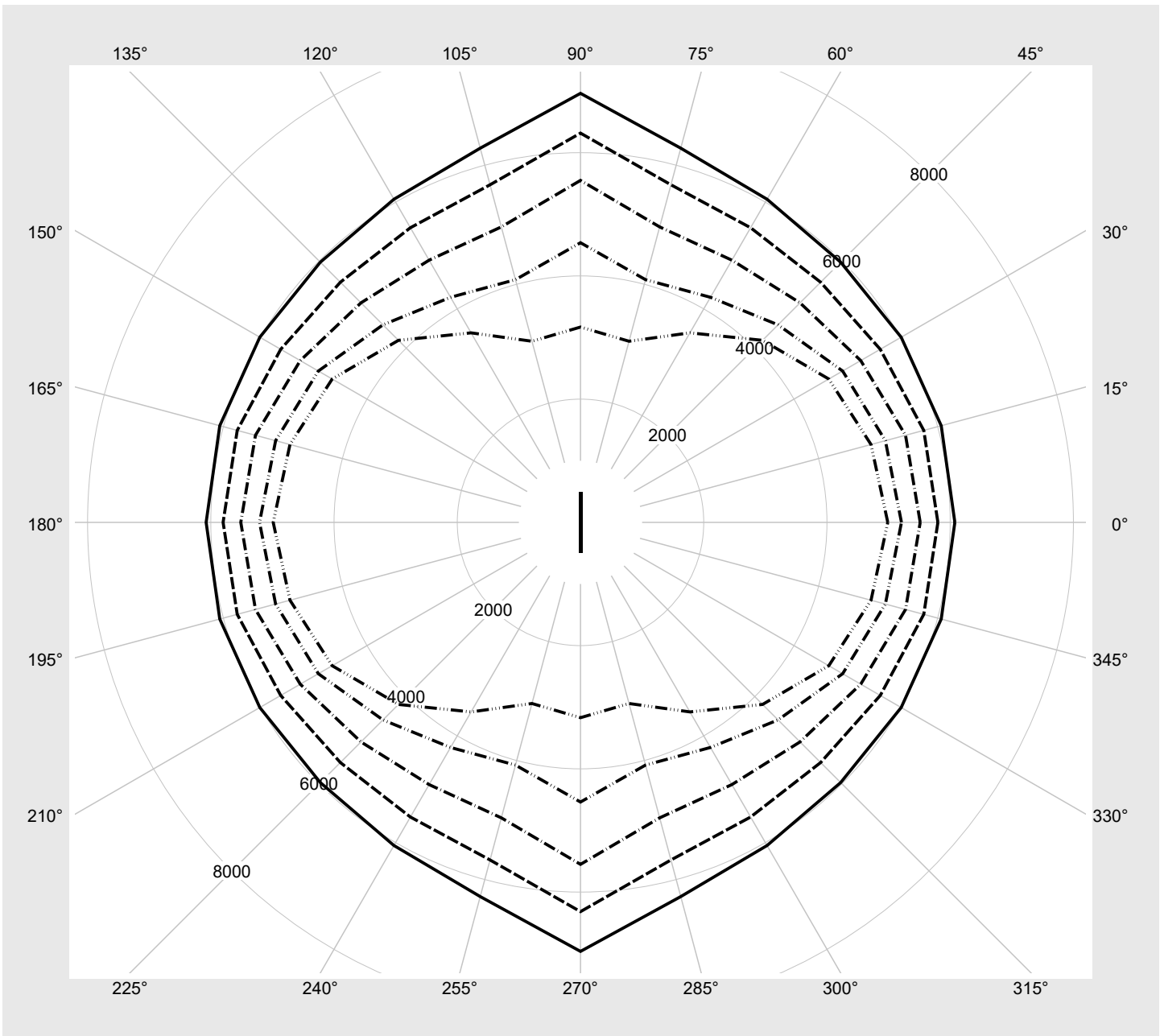
Family
Monsun® 21

Order number: 51FB10DP440B
EAN: 4058352519950

LP number
58939_40

Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



Photometric test report

Family Monsun® 21	Order number: 51FB10DP440B EAN: 4058352519950	LP number 58939_40
------------------------------------	--	-------------------------------------

Dimming levels table	environmental temperature: 25°C	sITeco
-----------------------------	---------------------------------	---------------

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	4360	27.9
95	241	252	4146	26.5
90	228	250	3932	25.1
85	214	248	3698	23.7
80	201	245	3481	22.2
75	188	243	3262	21.0
70	176	241	3059	19.7
65	163	238	2838	18.4
60	150	235	2616	17.0
55	137	231	2393	15.8
50	125	228	2185	14.5
45	112	224	1960	13.2
40	99	219	1736	11.8
35	87	215	1526	10.6
30	75	209	1315	9.4
25	62	202	1086	8.1
20	50	194	872	7.0
15	38	184	659	5.8
10	26	171	444	4.7
5	13	145	210	3.4
3	9	132	138	3.1