

Photometric test report

Family
Monsun® 12

Order number: **51FP20MP480H**
EAN: **4058352389812**

LP number
59060_26



Version prismatic diffuser, opal, polycarbonate, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG Multilumen
Rated values Net luminous flux = 8220 lm
Power consumption = 52.3 W
Luminous efficacy = 157.2 lm/W

serial
documentation
26.08.2020

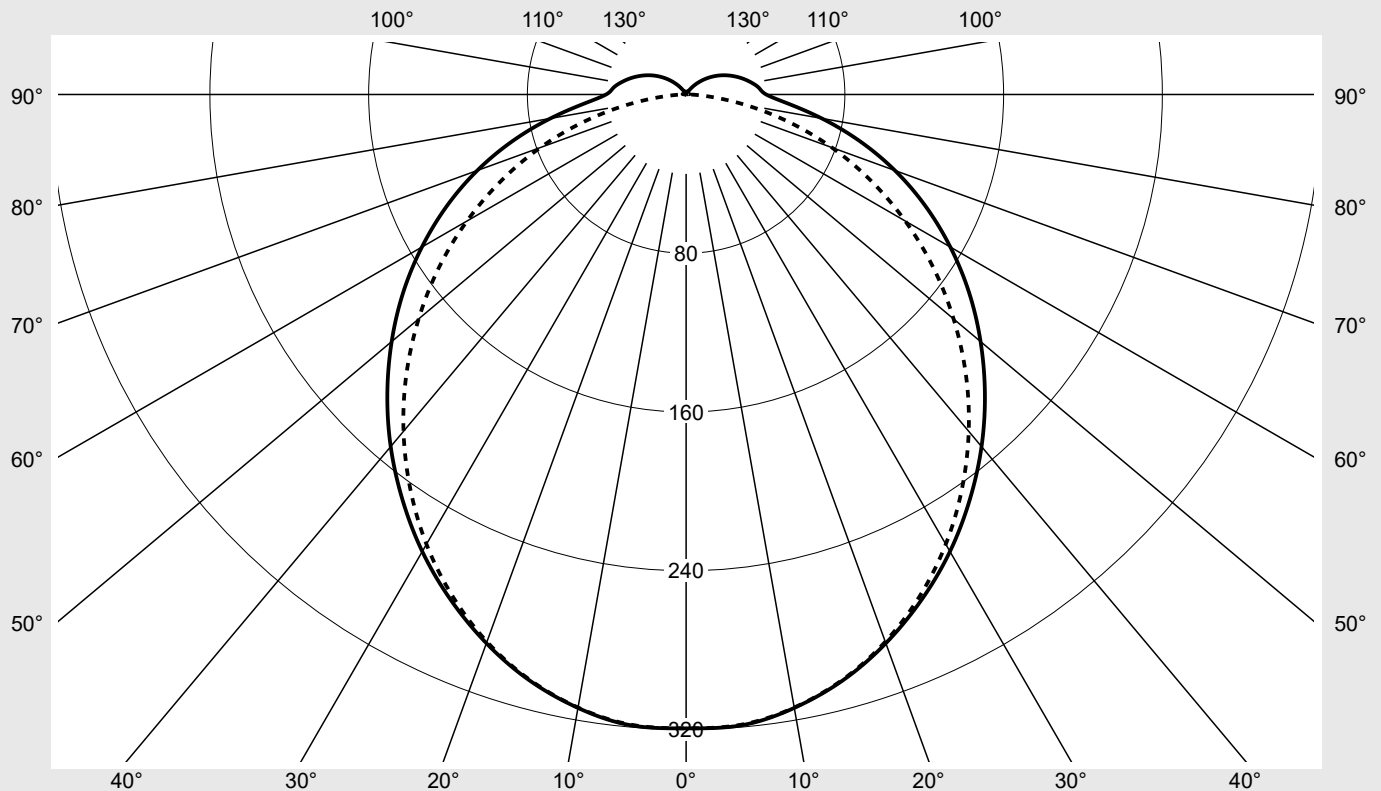
sitEco

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	21.4	23.1	21.8	23.5	23.8	21.2	23.0	21.6	23.3	23.6
	3H	23.2	24.8	23.6	25.1	25.5	22.8	24.4	23.2	24.7	25.0
	4H	24.1	25.5	24.5	25.9	26.3	23.4	24.9	23.8	25.2	25.6
	6H	24.8	26.1	25.2	26.5	26.9	23.8	25.2	24.2	25.6	26.0
	8H	25.1	26.4	25.5	26.8	27.2	24.0	25.3	24.4	25.6	26.0
	12H	25.4	26.6	25.8	27.0	27.4	24.0	25.3	24.5	25.7	26.1
4H	2H	22.2	23.6	22.5	24.0	24.4	22.0	23.5	22.4	23.8	24.2
	3H	24.2	25.4	24.6	25.8	26.2	23.8	25.0	24.2	25.4	25.8
	4H	25.1	26.3	25.6	26.7	27.1	24.5	25.7	24.9	26.1	26.5
	6H	26.0	27.0	26.4	27.4	27.9	25.0	26.0	25.5	26.5	26.9
	8H	26.4	27.3	26.8	27.8	28.2	25.2	26.1	25.7	26.6	27.1
	12H	26.8	27.6	27.2	28.0	28.5	25.3	26.2	25.8	26.6	27.1
8H	4H	25.5	26.4	25.9	26.8	27.3	24.9	25.9	25.4	26.3	26.8
	6H	26.5	27.3	27.0	27.8	28.2	25.6	26.4	26.1	26.9	27.4
	8H	27.0	27.7	27.5	28.2	28.7	25.8	26.6	26.3	27.0	27.5
	12H	27.5	28.1	28.0	28.6	29.1	26.0	26.6	26.5	27.1	27.6
12H	4H	25.5	26.4	26.0	26.8	27.3	25.0	25.8	25.5	26.3	26.8
	6H	26.6	27.3	27.1	27.8	28.3	25.8	26.4	26.3	26.9	27.4
	8H	27.1	27.7	27.6	28.2	28.8	26.0	26.6	26.6	27.1	27.7

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

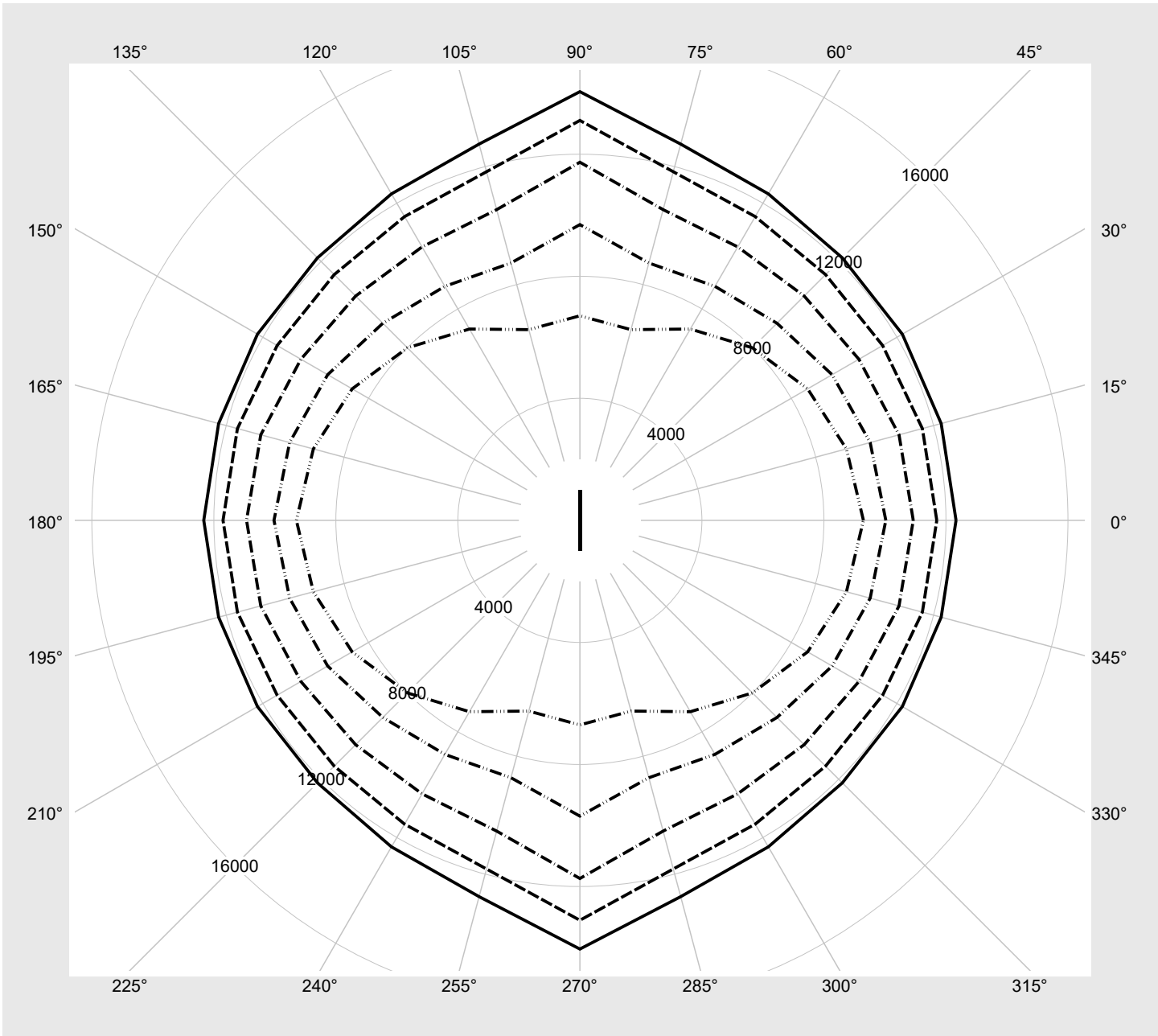
C-planes	γ	Luminance in cd/m ²						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
	45°	14415.9	14396.0	14412.2	14544.6	14938.9	15552.3	16535.2
	50°	13907.4	13866.6	13888.5	13984.3	14329.5	14921.1	16015.4
	55°	13413.6	13347.9	13367.8	13407.8	13700.6	14247.4	15464.0
	60°	12885.9	12820.8	12815.4	12813.9	13048.8	13540.7	14815.1
	65°	12330.9	12261.8	12205.6	12167.1	12355.6	12767.2	14049.6
	70°	11699.6	11623.3	11460.8	11390.5	11495.6	11828.8	13106.5
	75°	10928.4	10831.0	10561.6	10397.8	10349.1	10542.8	11736.9
	80°	10028.8	9851.8	9548.2	9136.5	8855.7	8732.7	9693.0
	85°	9294.8	9046.1	8620.1	7997.8	7240.9	6471.3	6704.5

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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Multilumen Table	environmental temperature: 25°C	sITeco
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	8220	52.3
2	A	C	F	7590	47.9
3	A	D	E	7010	43.9
4	A	D	F	6430	40.0
5	B	C	E	5760	35.7
6	B	C	F	5160	31.8
7	B	D	E	4540	27.9
8	B	D	F	4200	25.8