

Photometric test report

Family
Monsun® 12

Order number: **51FP209P460H**
EAN: **4058352389294**

LP number
59060_19



Version prismatic diffuser, opal, polycarbonate, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG CLOi
Rated values Net luminous flux = 5490 lm
Power consumption = 34.0 W
Luminous efficacy = 161.5 lm/W

serial
documentation
26.08.2020

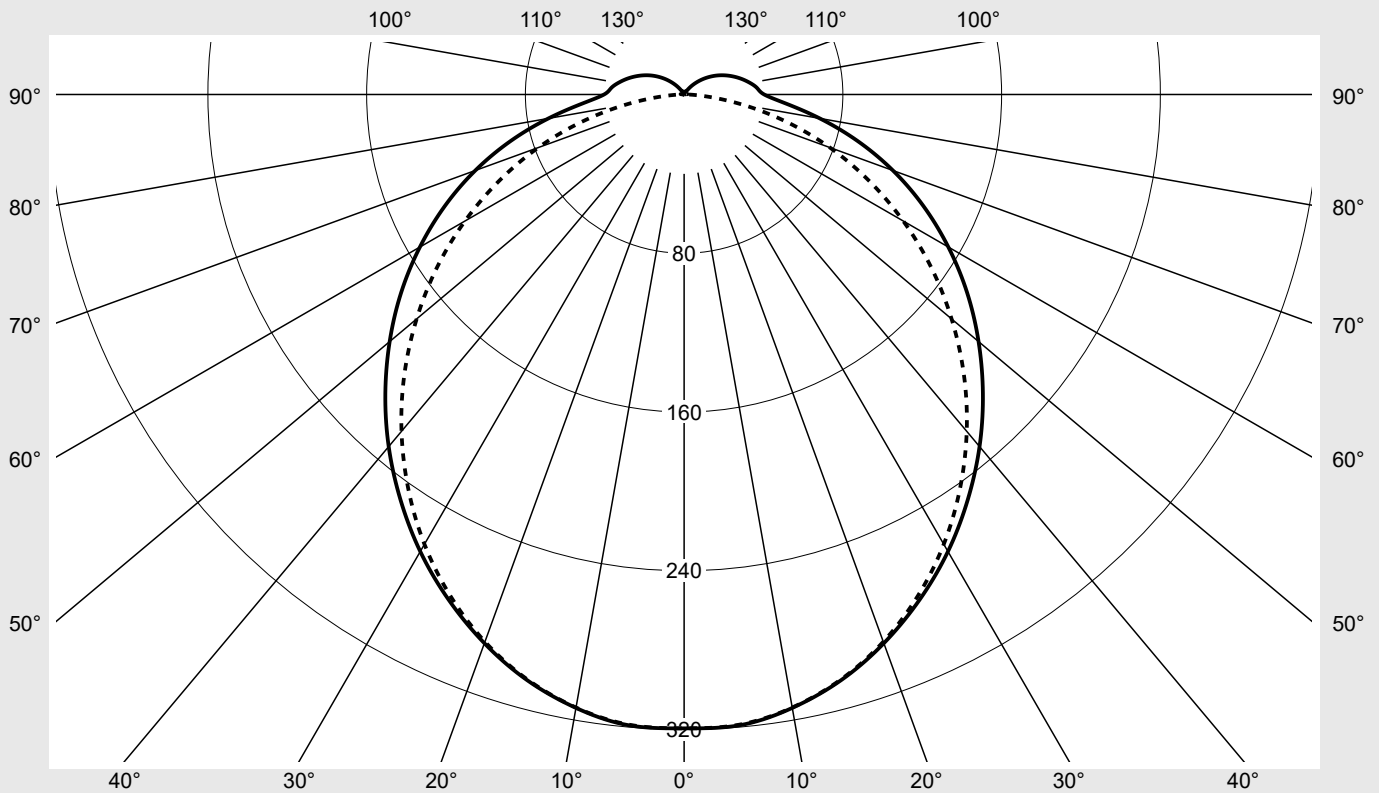
sitEco

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
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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°	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	22.1	22.4	19.8	21.6	20.2	21.9	22.2
	3H	21.8	23.4	22.2	23.7	24.1	21.4	23.0	21.8	23.3	23.6
	4H	22.7	24.1	23.1	24.5	24.9	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	24.2	24.6
	8H	23.7	25.0	24.1	25.4	25.8	22.6	23.9	23.0	24.2	24.6
	12H	24.0	25.2	24.4	25.6	26.0	22.6	23.9	23.1	24.3	24.7
4H	2H	20.8	22.2	21.1	22.6	23.0	20.6	22.1	21.0	22.4	22.8
	3H	22.8	24.0	23.2	24.4	24.8	22.4	23.6	22.8	24.0	24.4
	4H	23.7	24.9	24.2	25.3	25.7	23.1	24.3	23.5	24.7	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	26.4	26.8	23.8	24.7	24.3	25.2	25.6
	12H	25.4	26.2	25.8	26.6	27.1	23.9	24.8	24.4	25.2	25.7
8H	4H	24.1	25.0	24.5	25.4	25.9	23.5	24.5	24.0	24.9	25.4
	6H	25.1	25.9	25.6	26.3	26.8	24.2	25.0	24.7	25.5	26.0
	8H	25.6	26.3	26.1	26.8	27.3	24.4	25.2	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	25.0	24.6	25.4	25.9	23.6	24.4	24.1	24.9	25.4
	6H	25.2	25.9	25.7	26.4	26.9	24.4	25.0	24.9	25.5	26.0
	8H	25.7	26.3	26.2	26.8	27.4	24.6	25.2	25.2	25.7	26.3

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°		9628.1	9614.9	9625.7	9714.1	9977.4	10387.1	11043.6	
50°		9288.5	9261.3	9275.9	9339.9	9570.5	9965.6	10696.4	
55°		8958.7	8914.8	8928.1	8954.8	9150.4	9515.6	10328.1	
60°		8606.3	8562.8	8559.2	8558.2	8715.1	9043.6	9894.7	
65°		8235.6	8189.5	8151.9	8126.2	8252.1	8527.0	9383.5	
70°		7813.9	7763.0	7654.5	7607.5	7677.7	7900.2	8753.6	
75°		7298.9	7233.8	7053.9	6944.5	6912.0	7041.3	7838.9	
80°		6698.1	6579.9	6377.1	6102.1	5914.6	5832.5	6473.8	
85°		6207.9	6041.8	5757.2	5341.6	4836.1	4322.1	4477.8	

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco

