

Photometric test report

Family
Monsun® 12

Order number: 51FF40MP360H
EAN: 4058352820209

LP number
59020_4



Version prismatic diffuser, opal, PMMA, impact resistant, wide distribution
Lamps LED 3000 K | CRI ≥ 80
Controlgear ECG Multilumen
Rated values Net luminous flux = 5790 lm
 Power consumption = 33.6 W
 Luminous efficacy = 172.3 lm/W

serial
documentation
13.03.2023

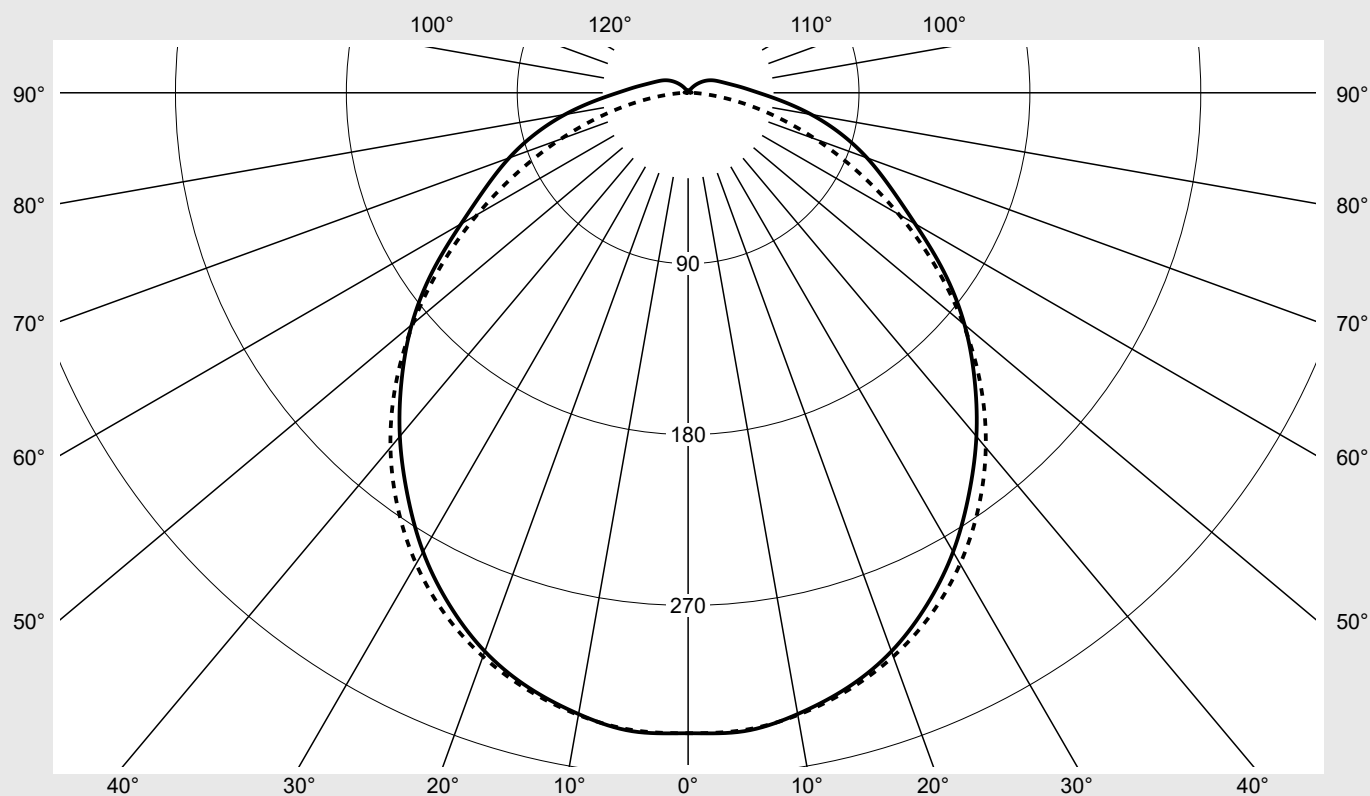
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Luminous intensity in cd/klm

C180-0

C270-90

Imax: 338 cd/klm



Classifications

DIN 5040 A 4 1
 CIE N1=47 N2=77 N3=93
 N4=95 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 94.8%
 ϕ_o 5.2%

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	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0°	337.3	337.3	337.3	337.3	337.3	337.3	337.3	2.0	2.0
5°	337.5	336.4	334.5	335.8	337.2	336.9	336.9	16.1	18.1
10°	332.2	331.9	329.8	331.2	333.0	332.9	332.8	31.6	49.7
15°	324.3	324.6	322.6	323.9	325.4	325.8	325.7	46.0	95.7
20°	313.1	314.1	312.1	313.6	315.1	315.7	315.9	58.9	154.6
25°	297.5	298.9	297.5	299.8	301.9	302.4	303.0	69.5	224.1
30°	279.2	281.0	279.9	281.8	284.8	285.5	286.5	77.5	301.6
35°	257.9	260.0	259.0	261.1	264.4	265.2	266.6	82.4	384.0
40°	236.2	237.9	236.5	237.1	240.1	242.3	243.9	84.2	468.2
45°	213.3	214.4	212.9	211.4	213.4	215.8	217.9	82.9	551.1
50°	190.1	190.6	188.8	186.3	185.4	186.8	189.1	78.9	630.0
55°	164.5	165.1	164.4	160.2	157.7	156.9	158.8	72.3	702.3
60°	138.1	138.1	137.0	134.7	130.2	127.4	128.2	63.3	765.6
65°	117.3	116.4	112.4	108.2	104.2	99.4	98.8	53.7	819.3
70°	100.3	99.0	91.7	84.5	79.3	73.6	71.6	44.1	863.5
75°	83.2	81.7	74.7	65.1	57.1	50.8	47.3	34.8	898.3
80°	65.8	64.5	59.3	48.9	38.3	30.8	26.4	25.9	924.2
85°	49.5	48.3	44.5	35.6	23.7	15.0	10.1	17.9	942.1
90°	37.1	36.3	33.4	26.4	15.8	6.7	2.1	12.6	954.7
95°	29.4	28.9	27.0	22.0	13.4	5.0	1.8	10.2	964.9
100°	23.9	23.5	21.8	17.7	11.0	3.7	1.6	8.1	973.0
105°	20.2	19.6	17.9	14.3	8.4	2.4	1.4	6.5	979.5
110°	17.5	16.7	15.0	11.5	6.2	1.4	1.2	5.2	984.7
115°	15.3	14.5	12.7	9.2	4.4	1.2	1.1	4.2	988.8
120°	13.2	12.3	10.5	7.1	2.9	1.2	1.0	3.2	992.1
125°	11.0	10.1	8.2	5.1	1.7	1.1	1.0	2.4	994.5
130°	8.6	7.8	6.1	3.4	1.3	1.0	1.0	1.7	996.2
135°	6.4	5.7	4.2	2.0	1.3	1.0	1.0	1.2	997.3
140°	4.2	3.7	2.5	1.6	1.3	1.1	1.1	0.7	998.1
145°	2.4	2.1	1.8	1.6	1.3	1.1	1.1	0.5	998.6
150°	1.9	1.8	1.7	1.5	1.2	1.2	1.2	0.4	999.0
155°	1.7	1.7	1.6	1.5	1.3	1.3	1.3	0.3	999.4
160°	1.6	1.6	1.5	1.3	1.3	1.3	1.3	0.3	999.6
165°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.2	999.8
170°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.1	999.9
175°	1.3	1.3	1.3	1.3	1.3	1.4	1.4	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		
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	19.8	21.5	20.2	21.9	22.2	20.1	21.8	20.5	22.1	22.5
	3H	21.5	23.0	21.9	23.4	23.7	21.4	23.0	21.8	23.3	23.7
	4H	22.3	23.7	22.7	24.1	24.4	21.9	23.4	22.3	23.7	24.1
	6H	23.0	24.4	23.4	24.7	25.1	22.3	23.6	22.7	24.0	24.4
	8H	23.4	24.6	23.8	25.0	25.4	22.4	23.6	22.8	24.0	24.4
	12H	23.7	24.9	24.1	25.3	25.7	22.4	23.6	22.9	24.0	24.4
4H	2H	20.5	22.0	20.9	22.3	22.7	20.8	22.2	21.1	22.5	22.9
	3H	22.4	23.6	22.8	24.0	24.4	22.2	23.5	22.7	23.9	24.3
	4H	23.3	24.4	23.7	24.8	25.3	22.8	24.0	23.3	24.4	24.8
	6H	24.2	25.2	24.7	25.6	26.1	23.3	24.3	23.7	24.7	25.2
	8H	24.6	25.5	25.1	26.0	26.4	23.4	24.3	23.9	24.8	25.2
	12H	25.0	25.8	25.5	26.3	26.8	23.5	24.3	24.0	24.8	25.3
8H	4H	23.6	24.5	24.1	25.0	25.4	23.2	24.1	23.7	24.5	25.0
	6H	24.7	25.5	25.2	25.9	26.4	23.8	24.5	24.3	25.0	25.5
	8H	25.2	25.9	25.7	26.4	26.9	24.0	24.7	24.5	25.1	25.7
	12H	25.8	26.4	26.3	26.9	27.4	24.1	24.7	24.6	25.2	25.7
12H	4H	23.7	24.5	24.1	24.9	25.4	23.3	24.1	23.8	24.6	25.0
	6H	24.8	25.5	25.3	25.9	26.5	23.9	24.6	24.4	25.1	25.6
	8H	25.4	26.0	25.9	26.5	27.0	24.2	24.8	24.7	25.3	25.8

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1590 B = 87		H(C0) = 21 H(C90) = 21		H(C180) = 21 H(C270) = 21	
C- planes	γ	0°	15°	30°	45°	60°	75°	90°			
		180°	165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	270°			
		Luminance in cd/m²									
45°		10172.4	10261.6	10366.0	10604.4	11159.9	11881.7	12731.9			
50°		9611.5	9680.0	9782.0	9990.3	10430.8	11163.7	12123.5			
55°		8926.8	9004.7	9169.8	9298.5	9678.6	10337.0	11376.2			
60°		8151.8	8203.3	8351.4	8594.0	8868.6	9432.0	10489.2			
65°		7658.0	7647.7	7612.8	7734.0	8043.5	8475.1	9519.9			
70°		7380.4	7345.9	7046.9	6917.3	7119.9	7462.6	8456.4			
75°		7077.3	7021.2	6692.5	6296.3	6185.6	6408.3	7291.3			
80°		6699.7	6640.6	6430.7	5830.5	5277.2	5197.6	5911.5			
85°		6319.9	6268.6	6169.8	5588.7	4538.2	3868.3	4194.7			

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Luminance values in cd/m²

γ 65°

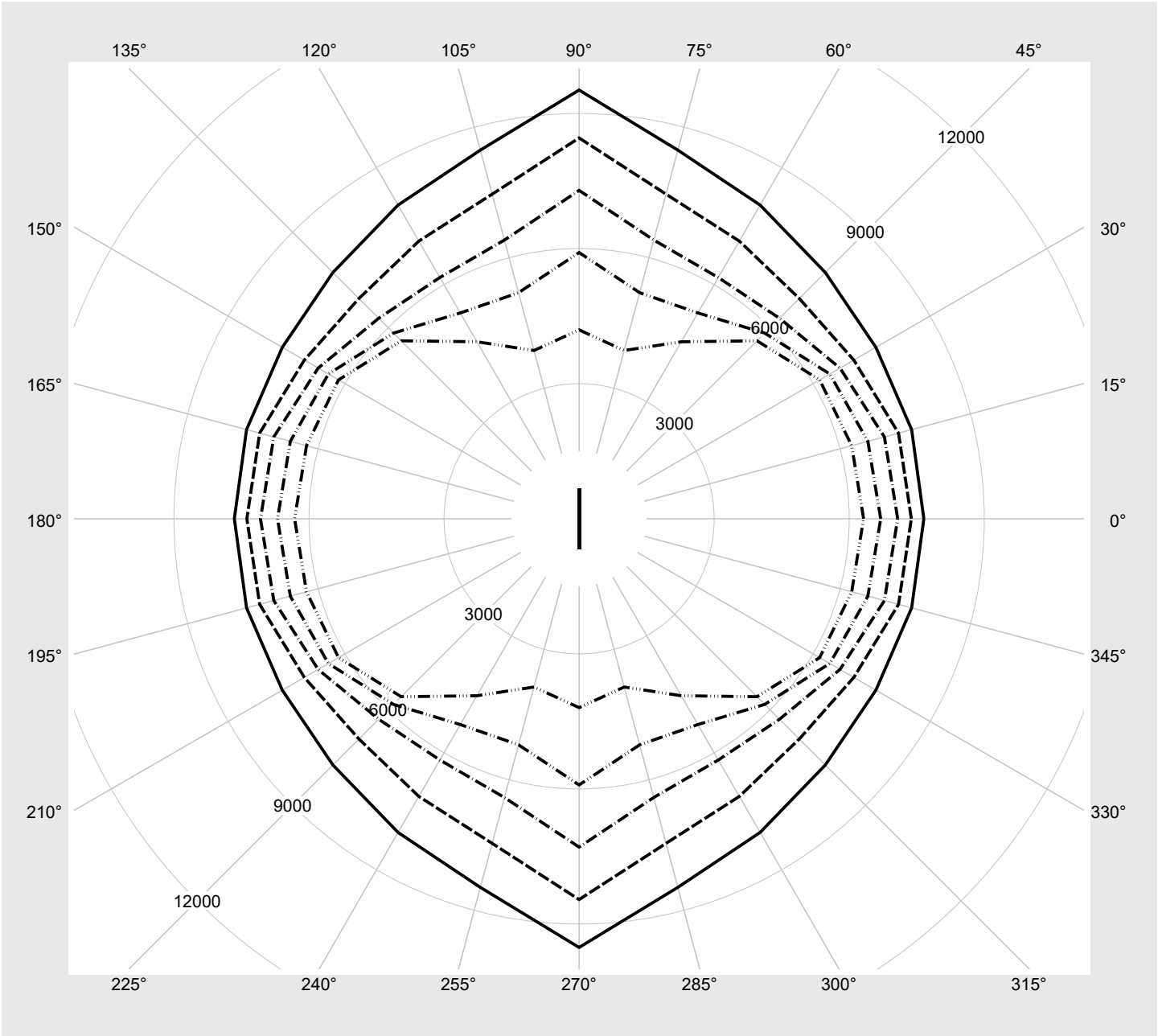
γ 70°

γ 75°

γ 80°

γ 85°

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Family Monsun® 12	Order number: 51FF40MP360H EAN: 4058352820209	LP number 59020_4
Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	5790	33.6
2	A	C	F	5580	32.3
3	A	D	E	5290	30.6
4	A	D	F	5000	28.9
5	B	C	E	4700	27.2
6	B	C	F	4410	25.5
7	B	D	E	4110	23.8
8	B	D	F	3960	22.9