

Photometric test report

Family
Monsun® 12

Order number: **51FF40MP460H**
EAN: **4058352376188**

LP number
59020_3



Version prismatic diffuser, opal, PMMA, impact resistant, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG Multilumen
Rated values Net luminous flux = 6110 lm
Power consumption = 33.5 W
Luminous efficacy = 182.4 lm/W

serial
documentation
07.05.2020

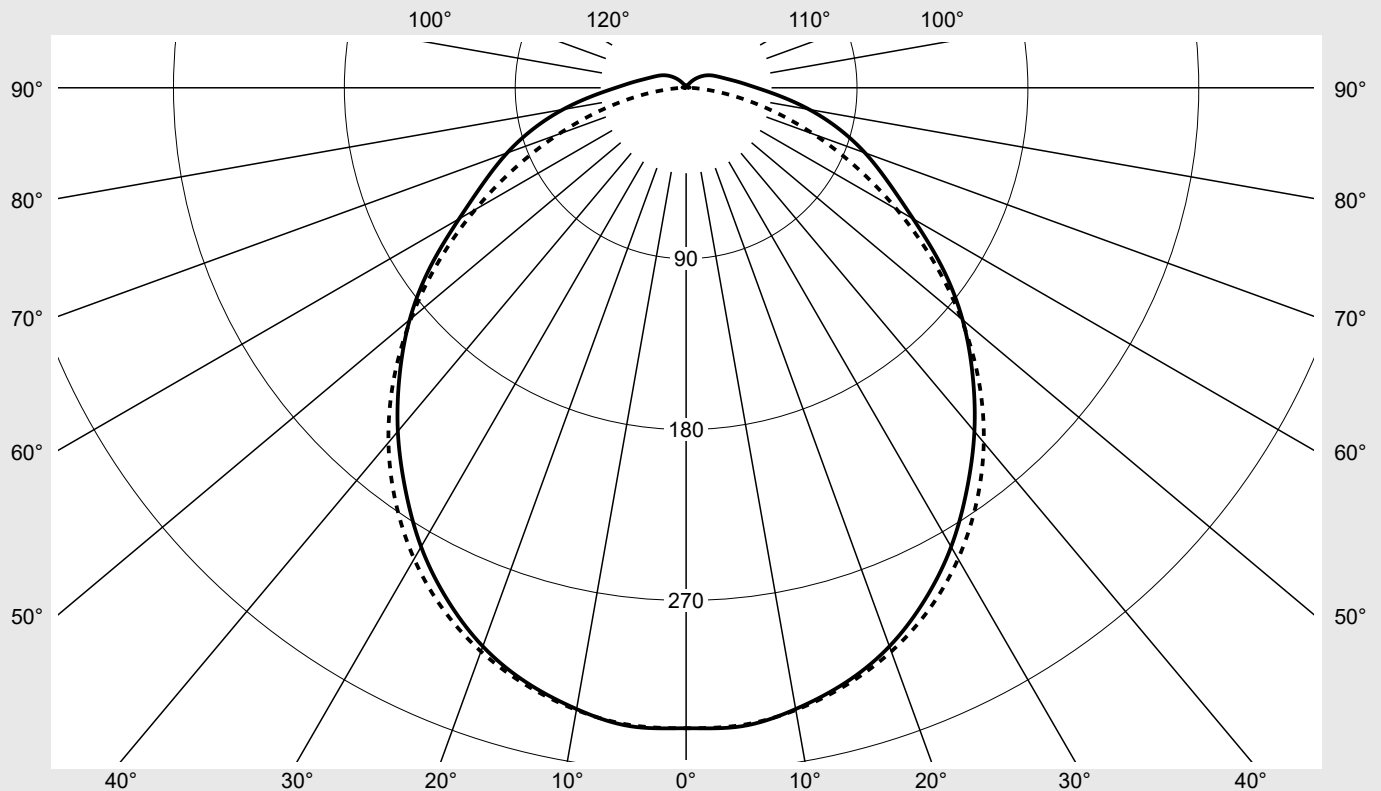
sitEco

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
		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°	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
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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	20.3	22.0	20.7	22.3	22.6
	3H	21.7	23.2	22.0	23.5	23.9	21.6	23.2	22.0	23.5	23.8
	4H	22.5	23.9	22.9	24.3	24.6	22.1	23.6	22.5	23.9	24.3
	6H	23.2	24.6	23.6	24.9	25.3	22.4	23.8	22.8	24.2	24.5
	8H	23.6	24.8	24.0	25.2	25.6	22.6	23.8	23.0	24.2	24.6
	12H	23.9	25.1	24.3	25.5	25.9	22.6	23.8	23.0	24.2	24.6
4H	2H	20.7	22.2	21.1	22.5	22.9	20.9	22.4	21.3	22.7	23.1
	3H	22.5	23.8	23.0	24.2	24.6	22.4	23.7	22.9	24.1	24.5
	4H	23.5	24.6	23.9	25.0	25.4	23.0	24.2	23.5	24.6	25.0
	6H	24.4	25.4	24.9	25.8	26.3	23.5	24.5	23.9	24.9	25.3
	8H	24.8	25.7	25.3	26.2	26.6	23.6	24.5	24.1	25.0	25.4
	12H	25.2	26.0	25.7	26.5	27.0	23.7	24.5	24.2	25.0	25.5
8H	4H	23.8	24.7	24.3	25.1	25.6	23.4	24.3	23.9	24.7	25.2
	6H	24.9	25.7	25.4	26.1	26.6	24.0	24.7	24.4	25.2	25.7
	8H	25.4	26.1	25.9	26.6	27.1	24.2	24.8	24.7	25.3	25.8
	12H	26.0	26.6	26.5	27.1	27.6	24.3	24.9	24.8	25.4	25.9
12H	4H	23.8	24.7	24.3	25.1	25.6	23.5	24.3	24.0	24.7	25.2
	6H	25.0	25.6	25.5	26.1	26.6	24.1	24.8	24.6	25.3	25.8
	8H	25.6	26.2	26.1	26.7	27.2	24.4	24.9	24.9	25.4	26.0

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

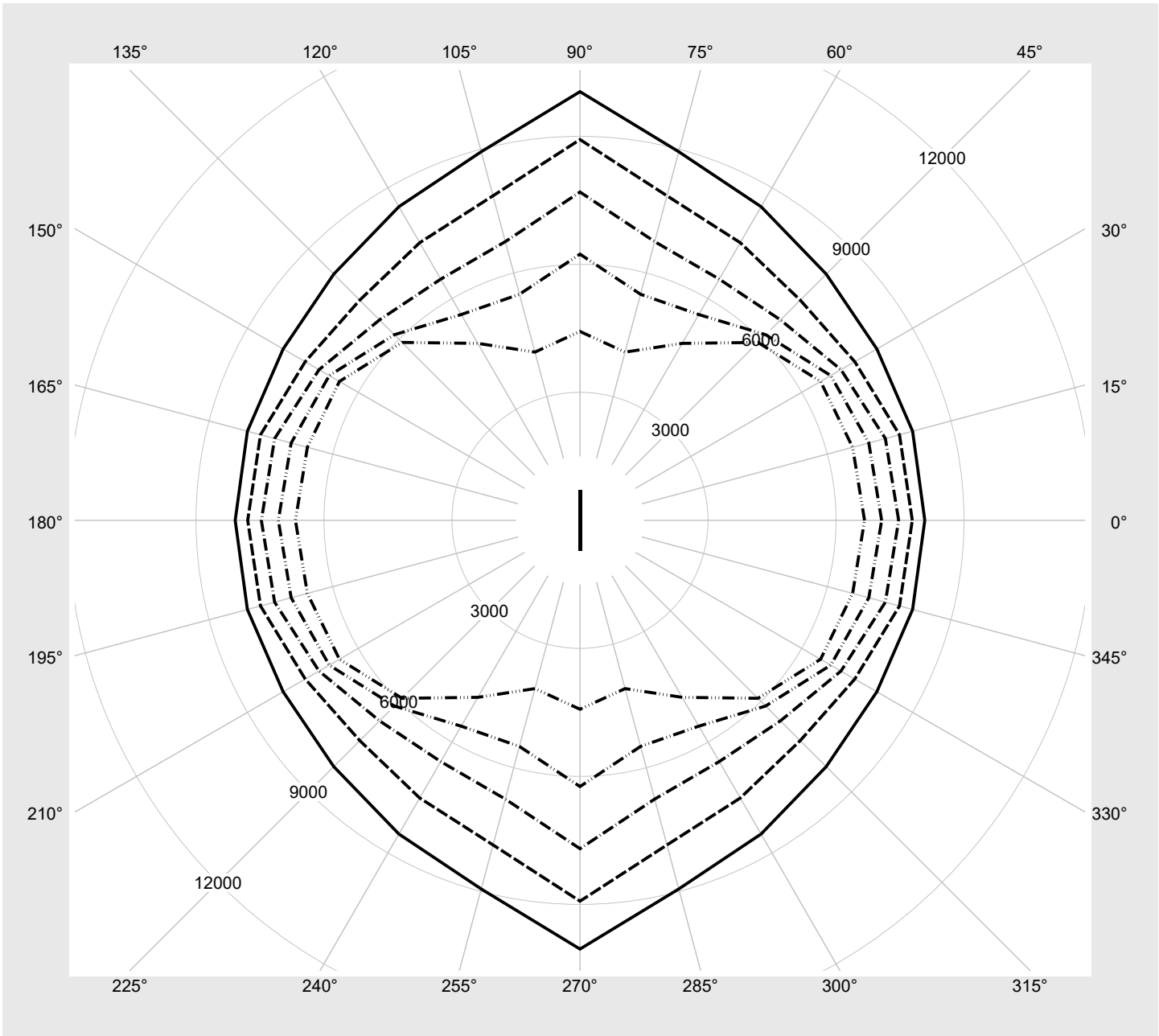
C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		10734.6	10828.7	10938.9	11190.4	11776.7	12538.3	13435.5	
50°		10142.7	10215.0	10322.7	10542.4	11007.3	11780.7	12793.5	
55°		9420.2	9502.4	9676.6	9812.4	10213.5	10908.3	12005.0	
60°		8602.3	8656.6	8813.0	9068.9	9358.7	9953.3	11068.9	
65°		8081.2	8070.3	8033.6	8161.4	8488.0	8943.5	10046.1	
70°		7788.3	7751.9	7436.3	7299.6	7513.4	7875.0	8923.8	
75°		7468.4	7409.2	7062.4	6644.3	6527.4	6762.4	7694.3	
80°		7070.0	7007.6	6786.1	6152.7	5568.9	5484.8	6238.3	
85°		6669.2	6615.0	6510.8	5897.6	4789.0	4082.1	4426.5	

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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	
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	6110	33.5
2	A	C	F	5880	32.2
3	A	D	E	5580	30.5
4	A	D	F	5270	28.8
5	B	C	E	4960	27.1
6	B	C	F	4650	25.4
7	B	D	E	4340	23.7
8	B	D	F	4180	22.9