

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

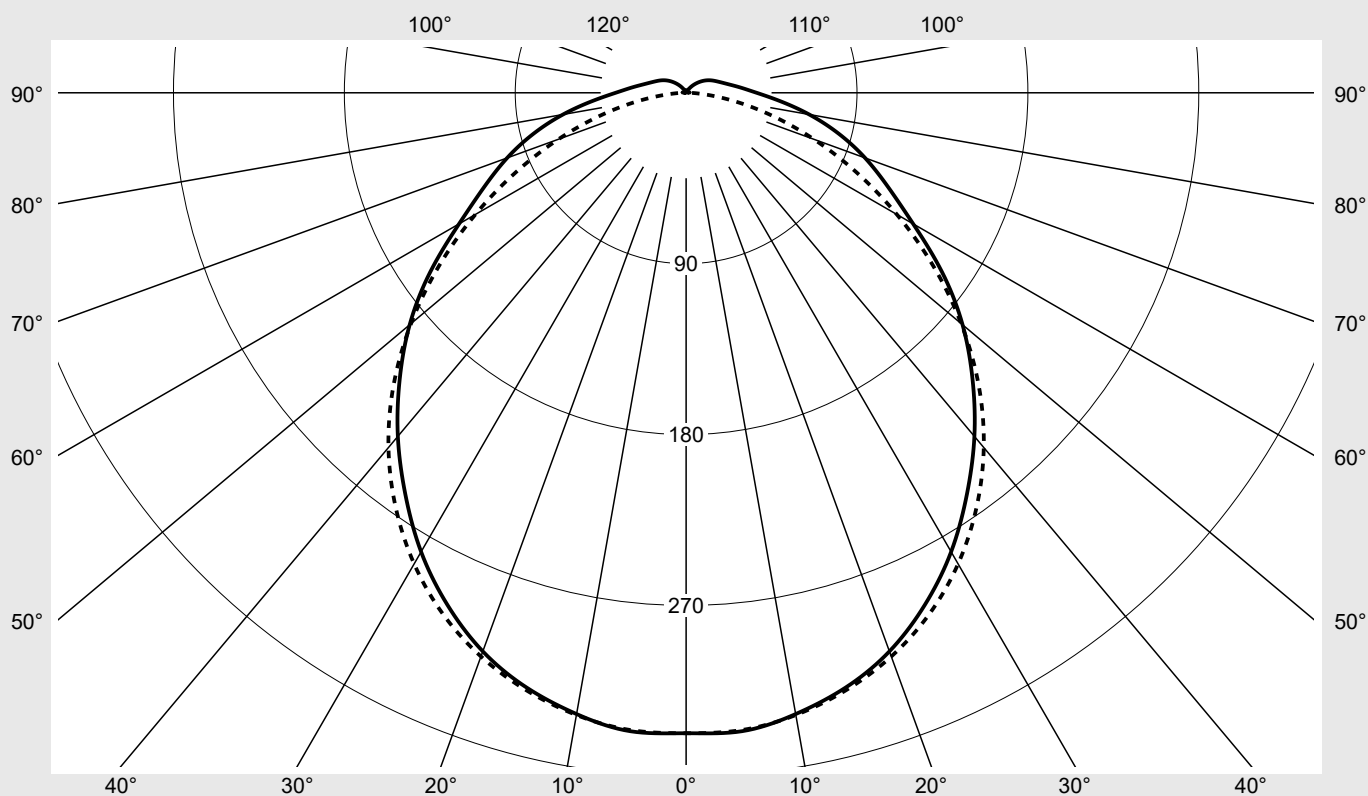
siteco

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
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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	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 B = 87		H(C0) = 21 H(C90) = 21		H(C180) = 21 H(C270) = 21	
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°				
γ	Luminance in cd/m²										
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°

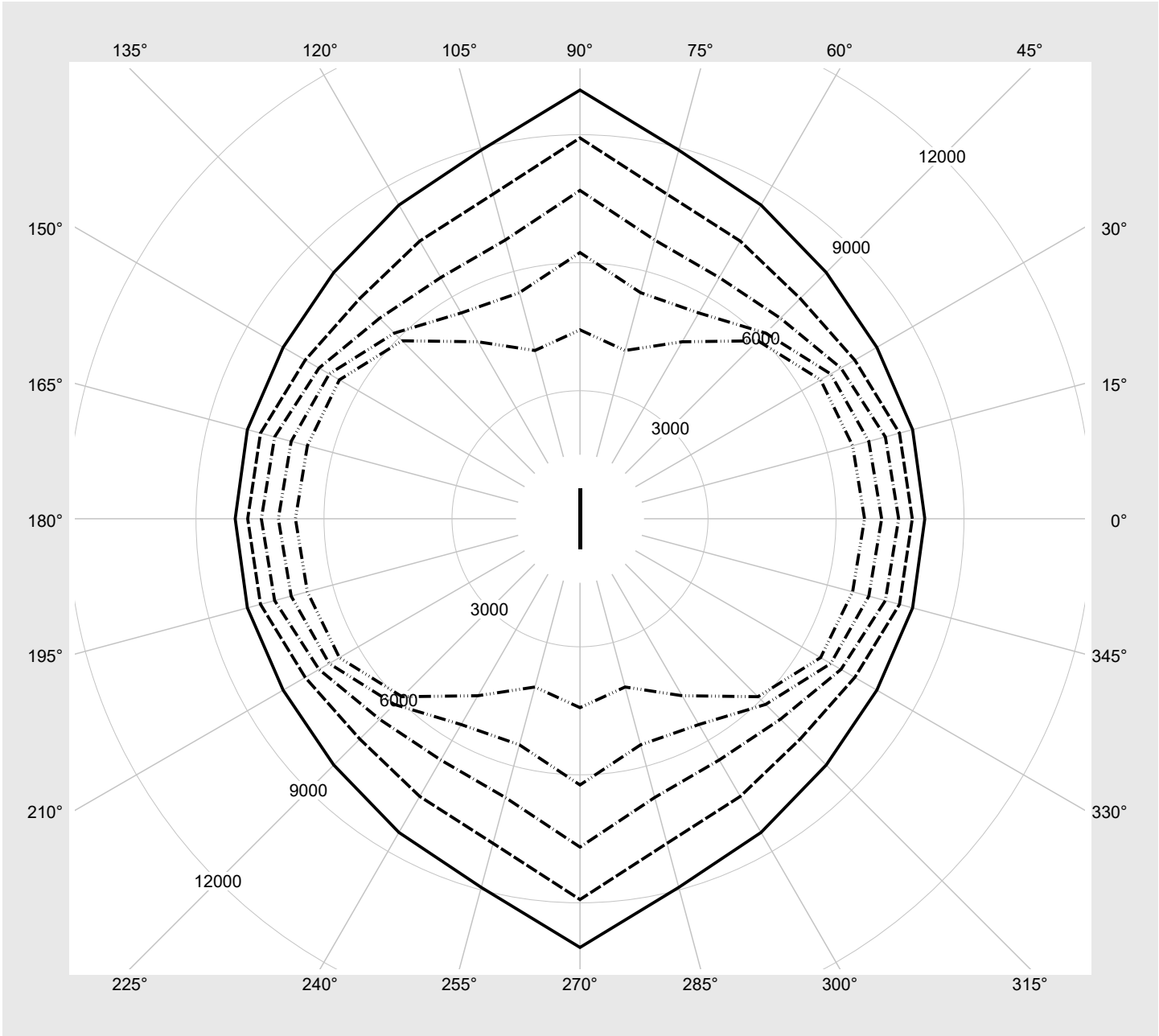
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Family Monsun® 12	Order number: 51FF40MP460H EAN: 4058352376188	LP number 59020_3
Multilumen Table	environmental temperature: 25°C	siteco

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