
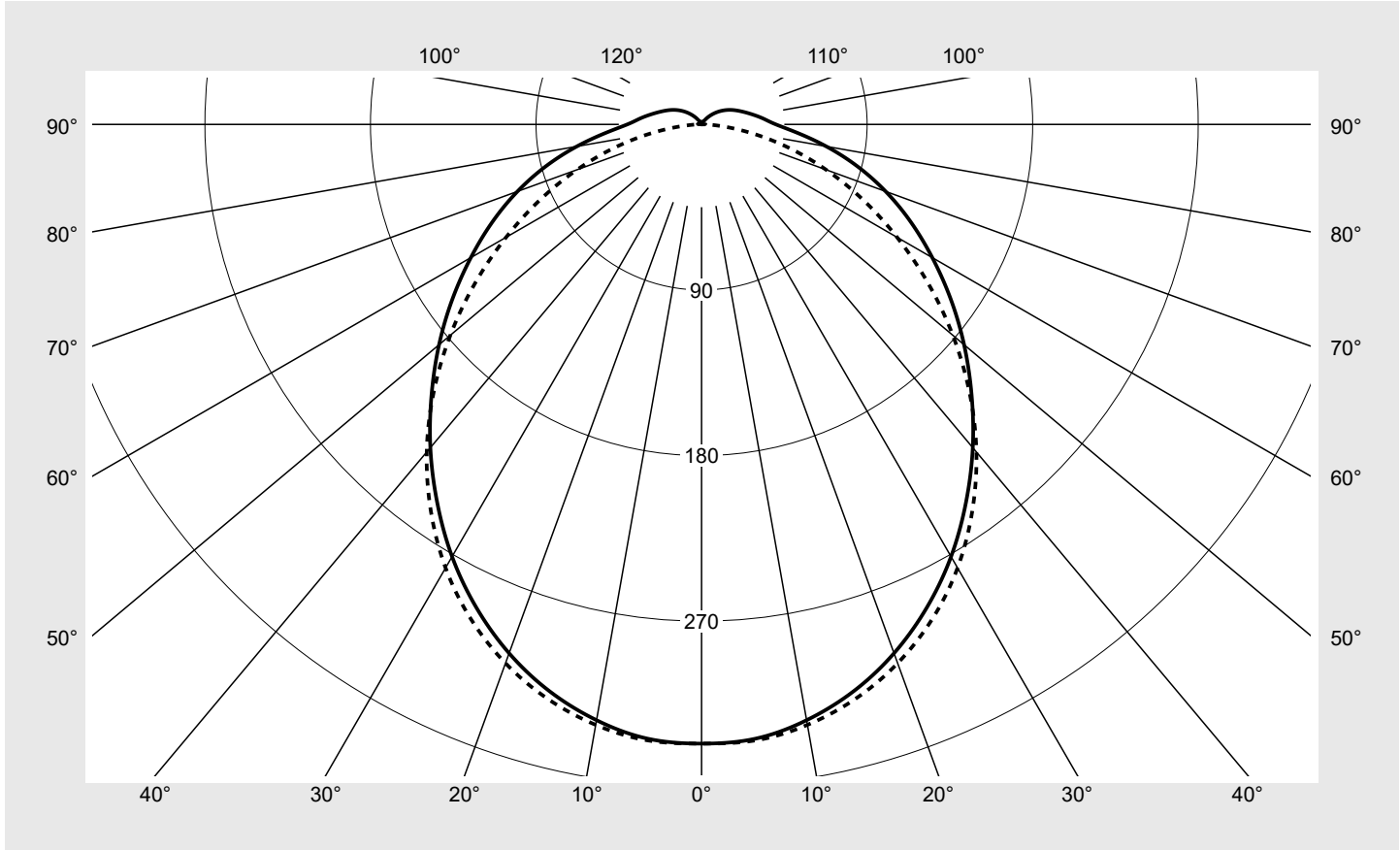


Photometric test report

Family Monsun® 12	Order number: 51FP107P4B0Q EAN: 4058352376294	LP number 59015_2
	Version prismatic diffuser, opal, PMMA, wide distribution	serial documentation 08.04.2020
	Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Rated values Net luminous flux = 12070 lm Power consumption = 66.2 W Luminous efficacy = 182.3 lm/W	



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 337 cd/klm**



Classifications	
DIN 5040	A 4 1
CIE	N1=47 N2=76 N3=93 N4=94 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	94.2%
ϕ_o	5.8%

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°	336.6	336.6	336.6	336.6	336.6	336.6	336.6	2.0	2.0
5°	335.2	335.1	333.2	334.3	335.7	335.7	336.1	16.0	18.0
10°	328.8	330.1	328.0	329.4	330.8	330.9	331.4	31.4	49.4
15°	319.0	321.3	319.3	320.8	322.3	322.7	323.3	45.6	95.0
20°	305.9	308.9	307.1	308.7	310.4	311.0	311.7	58.0	152.9
25°	289.8	293.4	291.5	293.1	295.0	295.9	296.7	68.0	221.0
30°	271.3	275.1	273.1	274.3	276.2	277.4	278.4	75.4	296.4
35°	250.7	254.3	252.4	252.9	254.4	255.5	256.6	79.8	376.2
40°	229.4	232.7	230.3	229.8	230.5	231.3	232.4	81.4	457.6
45°	207.6	210.4	207.6	205.2	204.9	204.7	206.0	80.1	537.6
50°	186.3	188.5	185.0	181.0	178.9	177.2	178.3	76.5	614.1
55°	165.3	166.9	162.7	157.6	153.3	149.9	150.2	71.0	685.1
60°	144.9	145.8	140.7	134.7	128.7	123.6	122.7	63.9	748.9
65°	125.5	125.6	119.9	112.7	105.4	99.0	96.8	55.8	804.7
70°	106.5	105.7	100.0	91.3	83.0	75.5	72.0	46.8	851.5
75°	87.5	86.0	80.8	71.2	61.8	53.7	49.1	37.2	888.7
80°	68.8	66.9	62.0	52.7	42.3	33.4	27.9	27.5	916.2
85°	52.2	50.3	45.3	36.7	26.2	16.7	10.8	18.8	935.0
90°	40.4	38.9	34.5	26.5	16.4	7.3	2.2	13.2	948.3
95°	34.1	32.8	29.3	22.8	14.2	5.7	1.9	11.2	959.5
100°	29.1	28.1	25.5	19.6	11.7	4.0	1.6	9.4	968.8
105°	25.0	24.3	21.6	16.3	9.2	2.6	1.4	7.7	976.5
110°	21.5	21.0	18.2	13.2	6.8	1.5	1.2	6.2	982.7
115°	18.5	17.9	15.1	10.5	4.8	1.3	1.2	4.9	987.6
120°	15.6	14.8	12.2	7.9	3.1	1.3	1.1	3.8	991.4
125°	12.7	11.9	9.4	5.6	1.7	1.1	1.0	2.7	994.1
130°	9.8	9.0	6.8	3.5	1.4	1.1	1.0	1.9	996.0
135°	7.0	6.3	4.4	1.9	1.4	1.1	1.0	1.2	997.3
140°	4.5	3.9	2.4	1.7	1.3	1.1	1.0	0.8	998.1
145°	2.3	2.1	1.9	1.6	1.4	1.2	1.2	0.5	998.6
150°	1.9	1.9	1.8	1.5	1.4	1.3	1.2	0.4	999.0
155°	1.8	1.7	1.6	1.5	1.4	1.3	1.3	0.3	999.3
160°	1.6	1.6	1.5	1.4	1.3	1.3	1.3	0.3	999.6
165°	1.4	1.4	1.4	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	1.3	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	22.5	24.2	22.9	24.5	24.9	22.4	24.2	22.8	24.5	24.8
	3H	24.3	25.8	24.7	26.2	26.5	23.9	25.4	24.2	25.7	26.1
	4H	25.1	26.6	25.5	26.9	27.3	24.4	25.9	24.8	26.2	26.6
	6H	25.9	27.2	26.3	27.6	28.0	24.8	26.2	25.2	26.5	26.9
	8H	26.2	27.5	26.7	27.9	28.3	24.9	26.2	25.4	26.6	27.0
	12H	26.6	27.7	27.0	28.1	28.6	25.0	26.2	25.4	26.6	27.0
4H	2H	23.2	24.7	23.6	25.0	25.4	23.2	24.6	23.6	25.0	25.3
	3H	25.2	26.5	25.6	26.8	27.3	24.8	26.0	25.2	26.4	26.8
	4H	26.2	27.3	26.6	27.7	28.2	25.4	26.6	25.9	27.0	27.4
	6H	27.1	28.1	27.5	28.5	29.0	25.9	26.9	26.4	27.4	27.8
	8H	27.5	28.4	28.0	28.9	29.3	26.1	27.0	26.6	27.5	27.9
	12H	27.9	28.7	28.4	29.2	29.7	26.2	27.0	26.7	27.5	28.0
8H	4H	26.5	27.4	27.0	27.9	28.3	25.9	26.8	26.3	27.2	27.7
	6H	27.6	28.4	28.1	28.8	29.3	26.5	27.3	27.0	27.8	28.3
	8H	28.1	28.8	28.6	29.3	29.8	26.8	27.4	27.2	27.9	28.4
	12H	28.7	29.3	29.2	29.8	30.3	26.9	27.5	27.4	28.0	28.5
12H	4H	26.6	27.4	27.0	27.8	28.3	26.0	26.8	26.5	27.2	27.7
	6H	27.7	28.4	28.2	28.9	29.4	26.7	27.4	27.2	27.8	28.3
	8H	28.3	28.9	28.8	29.4	29.9	27.0	27.6	27.5	28.1	28.6

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°		20634.5	20993.5	21076.6	21456.8	22330.7	23492.6	25088.1	
50°		19640.1	19956.1	19977.8	20229.0	20975.7	22070.5	23828.6	
55°		18700.0	18978.3	18918.6	19068.7	19623.1	20586.8	22430.6	
60°		17825.4	18050.1	17880.1	17913.7	18283.0	19089.1	20934.9	
65°		17073.6	17199.8	16931.5	16786.0	16950.3	17606.0	19429.7	
70°		16335.9	16349.3	16014.2	15579.6	15544.0	15964.4	17736.3	
75°		15518.1	15406.6	15084.5	14357.5	13958.3	14129.6	15764.5	
80°		14601.5	14364.4	14016.5	13112.4	12147.8	11763.8	13060.6	
85°		13892.7	13595.5	13078.2	12010.2	10459.6	9014.0	9419.4	

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Family
Monsun® 12

Order number: 51FP107P4B0Q
EAN: 4058352376294

LP number
59015_2

Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**

