

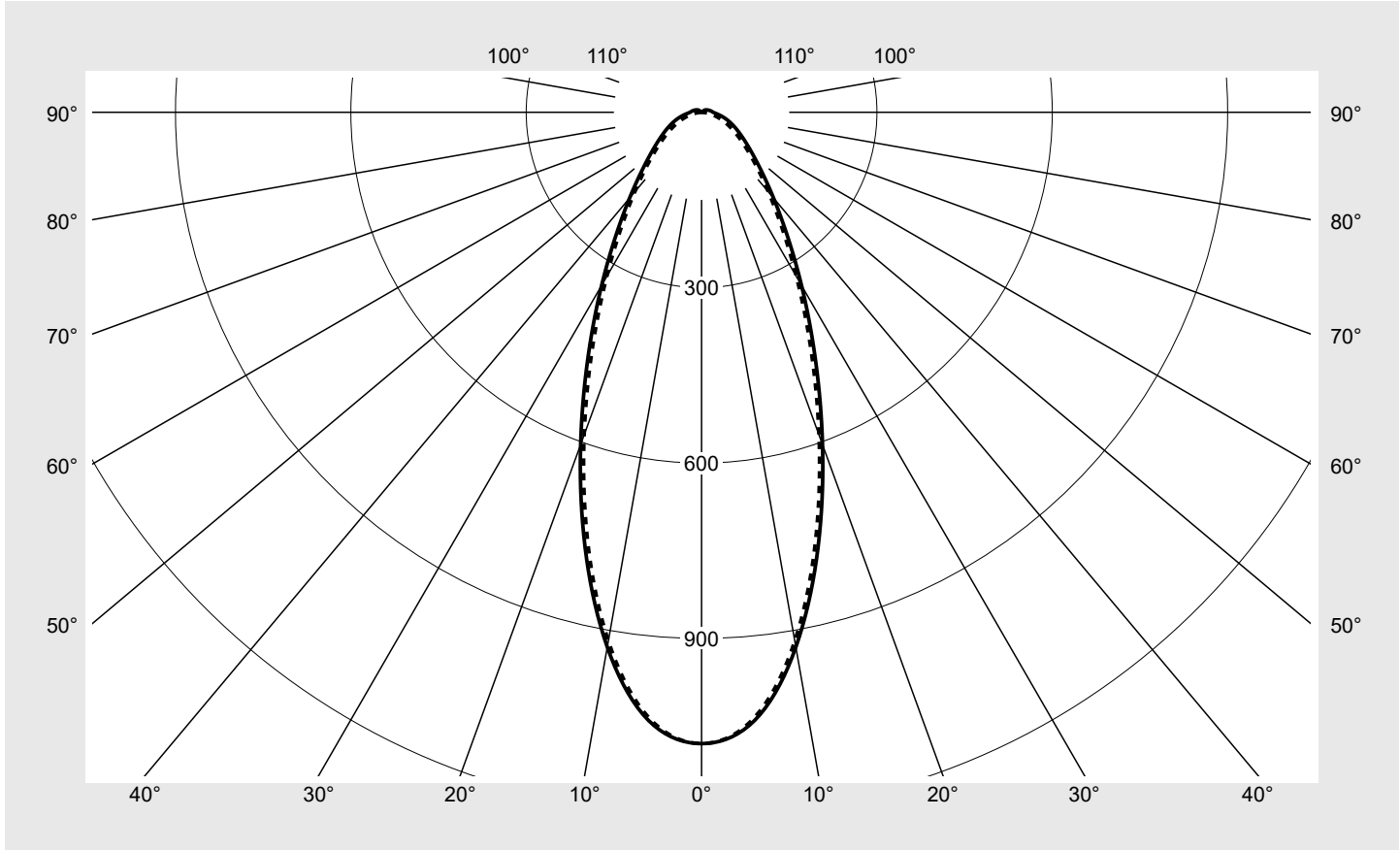


Photometric test report

Family Monsun® 12	Order number: 51FP11MP4B0Q EAN: 4058352376447	LP number 59019_2
	Version prismatic diffuser, opal, PMMA, narrow distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Multilumen Rated values Net luminous flux = 11900 lm Power consumption = 66.2 W Luminous efficacy = 179.8 lm/W	serial documentation 08.04.2020
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 1080 cd/klm**



Classifications	
DIN 5040	A 6 1
CIE	N1=71 N2=88 N3=97 N4=97 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	96.9%
ϕ_o	3.1%

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°	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	6.5	6.5
5°	1044.1	1038.4	1031.7	1035.3	1039.5	1039.0	1039.1	49.6	56.0
10°	928.9	922.4	915.7	917.5	920.1	918.5	918.3	87.5	143.6
15°	770.1	763.9	757.2	757.4	758.0	755.5	755.0	107.7	251.3
20°	605.0	599.5	593.3	591.7	590.9	587.9	587.3	111.2	362.5
25°	458.5	454.5	449.0	446.4	444.8	441.1	440.5	103.7	466.1
30°	342.0	338.7	334.1	331.0	328.6	325.2	324.5	90.9	557.1
35°	254.0	251.7	248.1	244.8	241.8	239.0	238.5	77.1	634.2
40°	191.6	189.9	187.1	183.8	180.7	178.3	178.0	64.9	699.1
45°	147.4	145.9	143.8	140.3	137.3	134.9	134.9	54.5	753.5
50°	116.4	115.3	113.5	110.2	106.8	104.2	104.2	46.2	799.8
55°	94.3	93.4	91.7	88.3	84.5	81.6	81.3	39.5	839.2
60°	77.6	76.8	75.1	71.6	67.5	64.0	63.3	33.7	872.9
65°	64.3	63.6	61.7	58.1	53.7	49.8	48.5	28.4	901.3
70°	52.9	52.3	50.1	46.3	41.6	37.4	35.6	23.4	924.7
75°	42.6	42.0	39.6	35.6	30.6	26.2	23.9	18.3	943.0
80°	33.0	32.3	30.1	25.7	20.6	16.1	13.5	13.3	956.3
85°	24.9	24.2	22.0	17.7	12.5	7.9	5.1	9.0	965.3
90°	19.7	19.1	17.0	12.9	7.9	3.4	0.9	6.5	971.8
95°	17.4	16.8	15.0	11.4	6.8	2.6	0.7	5.6	977.4
100°	15.2	14.7	13.0	9.7	5.7	1.8	0.7	4.8	982.1
105°	13.2	12.6	11.0	8.1	4.4	1.2	0.6	3.9	986.0
110°	11.3	10.7	9.1	6.5	3.3	0.7	0.6	3.1	989.1
115°	9.6	9.0	7.5	5.2	2.3	0.7	0.6	2.5	991.6
120°	8.0	7.4	6.1	3.9	1.6	0.7	0.6	1.9	993.5
125°	6.5	5.9	4.7	2.9	1.1	0.8	0.7	1.4	994.9
130°	5.2	4.7	3.6	2.1	1.1	1.0	0.9	1.1	996.0
135°	4.1	3.7	2.8	1.7	1.4	1.1	1.1	0.9	996.9
140°	3.2	2.8	2.2	1.7	1.6	1.3	1.3	0.7	997.6
145°	2.4	2.3	2.1	1.9	1.7	1.5	1.5	0.6	998.2
150°	2.3	2.3	2.2	2.0	1.7	1.6	1.6	0.5	998.7
155°	2.3	2.2	2.1	2.0	1.7	1.7	1.6	0.5	999.2
160°	2.1	2.1	2.0	1.8	1.7	1.6	1.6	0.3	999.5
165°	1.8	1.8	1.8	1.7	1.6	1.6	1.5	0.2	999.8
170°	1.6	1.6	1.6	1.6	1.6	1.5	1.5	0.1	999.9
175°	1.5	1.6	1.5	1.6	1.6	1.6	1.6	0.1	1000.0
180°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	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	19.3	20.7	19.6	21.0	21.3	19.0	20.5	19.4	20.8	21.1
	3H	20.5	21.8	20.9	22.1	22.5	20.0	21.3	20.4	21.7	22.0
	4H	21.1	22.3	21.5	22.7	23.0	20.5	21.6	20.8	22.0	22.4
	6H	21.7	22.8	22.1	23.2	23.6	20.7	21.8	21.1	22.2	22.6
	8H	22.0	23.0	22.5	23.4	23.8	20.9	21.8	21.3	22.2	22.6
	12H	22.3	23.2	22.7	23.6	24.0	20.9	21.8	21.3	22.2	22.6
4H	2H	19.7	20.9	20.1	21.3	21.6	19.6	20.7	20.0	21.1	21.5
	3H	21.2	22.2	21.6	22.6	23.0	20.8	21.8	21.2	22.1	22.6
	4H	22.0	22.9	22.4	23.3	23.7	21.3	22.2	21.7	22.6	23.0
	6H	22.7	23.5	23.2	23.9	24.4	21.7	22.4	22.1	22.9	23.3
	8H	23.0	23.7	23.5	24.2	24.7	21.8	22.5	22.3	22.9	23.4
	12H	23.4	24.0	23.9	24.4	24.9	21.9	22.5	22.3	22.9	23.4
8H	4H	22.2	22.9	22.7	23.4	23.9	21.6	22.3	22.1	22.7	23.2
	6H	23.1	23.7	23.6	24.2	24.7	22.1	22.7	22.6	23.2	23.7
	8H	23.5	24.1	24.0	24.6	25.1	22.3	22.8	22.8	23.3	23.8
	12H	24.0	24.4	24.5	24.9	25.5	22.4	22.8	22.9	23.3	23.9
12H	4H	22.3	22.9	22.7	23.3	23.8	21.7	22.3	22.2	22.7	23.2
	6H	23.2	23.7	23.7	24.2	24.7	22.2	22.7	22.7	23.2	23.7
	8H	23.7	24.1	24.2	24.6	25.1	22.5	22.9	23.0	23.4	23.9

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°		14442.3	14358.1	14386.8	14469.0	14751.9	15267.5	16193.7	
50°		12103.0	12039.4	12087.2	12141.0	12346.8	12801.7	13723.9	
55°		10521.5	10470.9	10516.3	10538.6	10665.2	11051.9	11973.8	
60°		9411.9	9374.9	9401.9	9396.1	9446.1	9747.1	10655.4	
65°		8624.0	8590.4	8594.1	8525.2	8517.3	8727.8	9600.9	
70°		8002.2	7976.1	7916.7	7784.0	7683.8	7798.8	8644.1	
75°		7446.6	7417.4	7287.8	7070.3	6810.7	6805.8	7579.3	
80°		6904.3	6838.3	6697.3	6292.6	5828.7	5593.5	6201.2	
85°		6542.5	6452.5	6276.1	5725.7	4896.6	4188.8	4354.8	

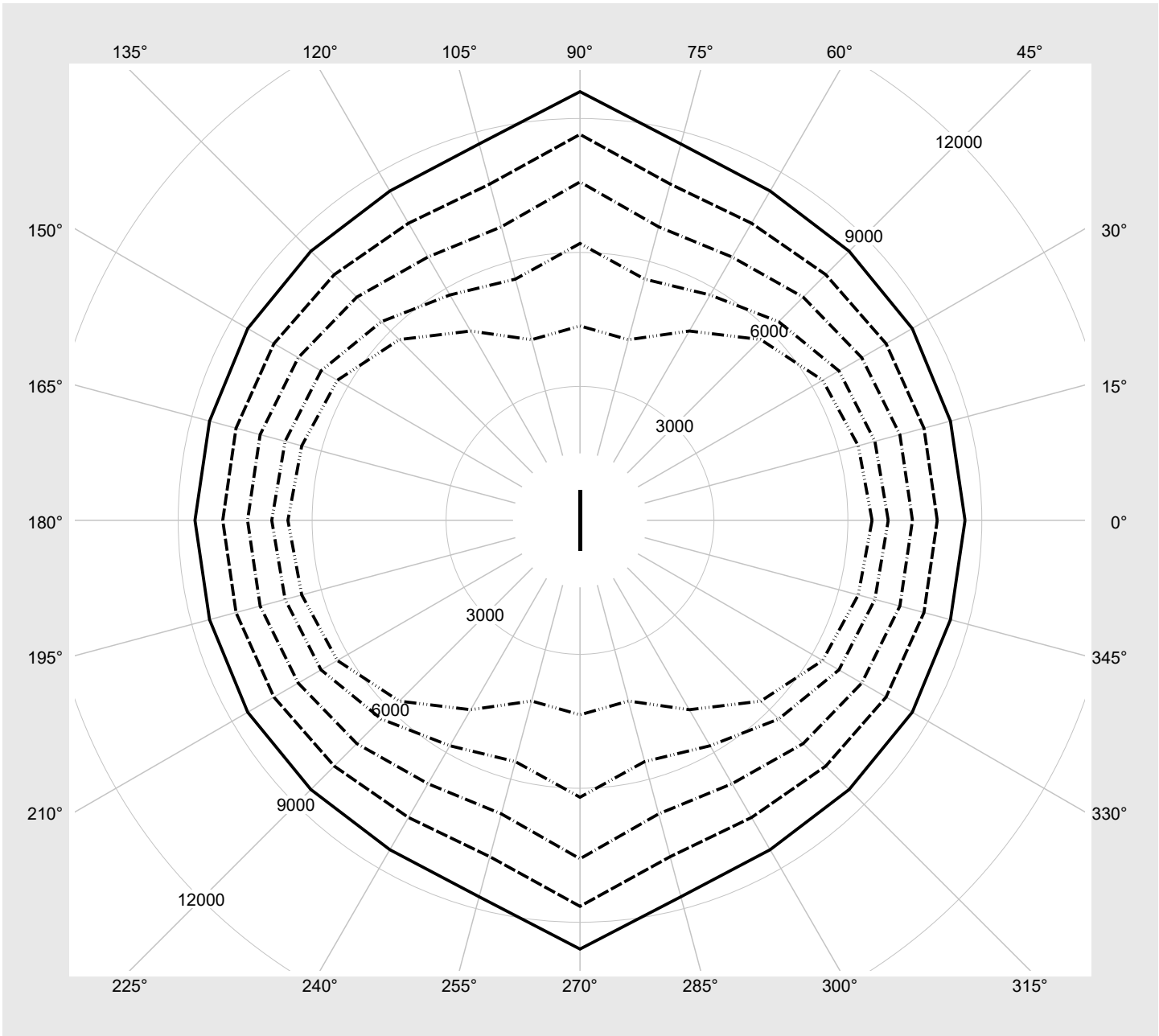
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco



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Family
Monsun® 12

Order number: 51FP11MP4B0Q
EAN: 4058352376447

LP number
59019_2

Multilumen Table

environmental temperature: 25°C

siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	11900	66.2
2	A	C	F	11240	62.3
3	A	D	E	10650	58.8
4	A	D	F	10130	55.8
5	B	C	E	9540	52.3
6	B	C	F	9010	49.4
7	B	D	E	8560	46.8
8	B	D	F	7950	43.4