

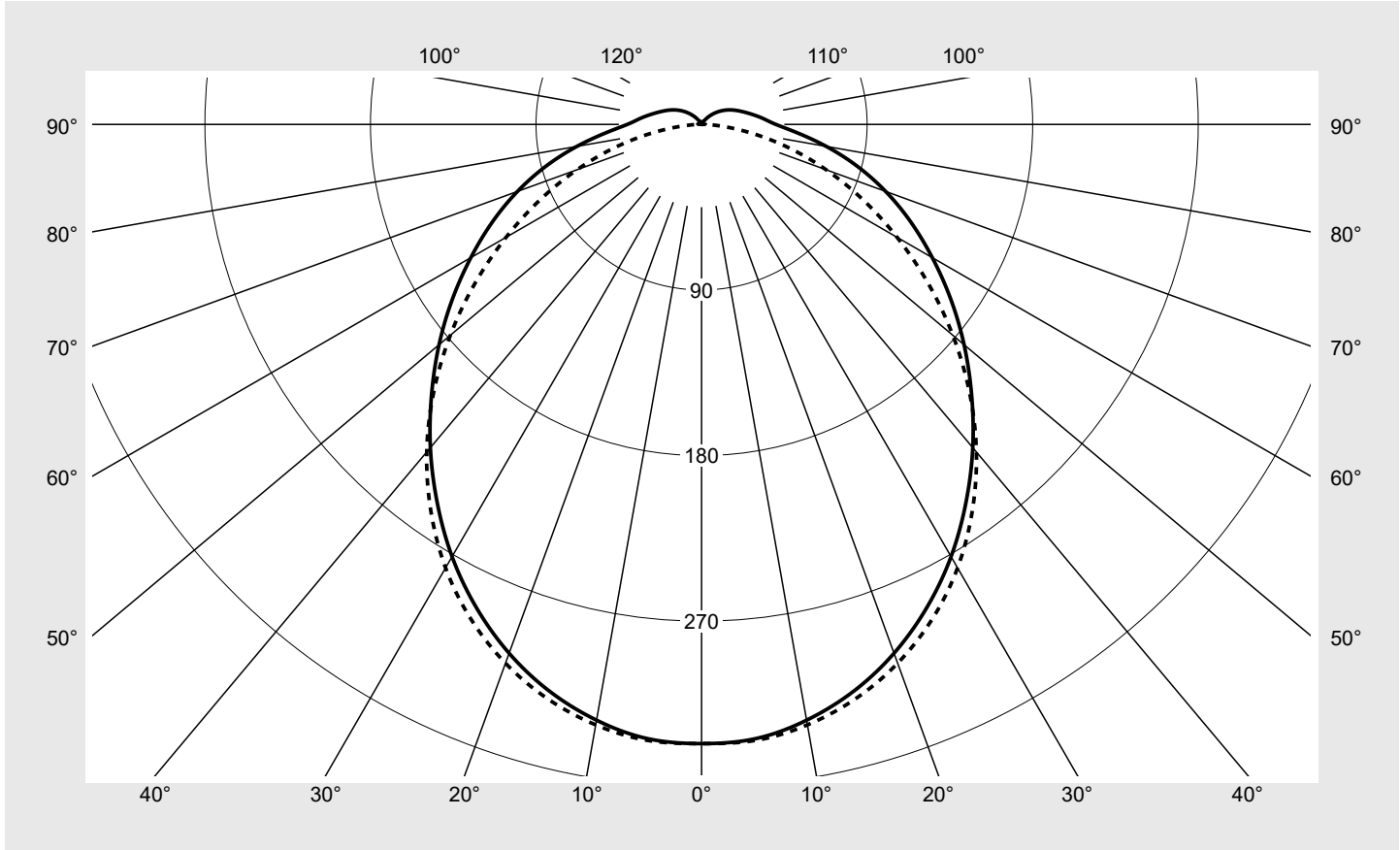


# Photometric test report

<b>Family</b> <b>Monsun® 12</b>	<b>Order number: 51FP10MP4B0Q</b> <b>EAN: 4058352392942</b>	<b>LP number</b> <b>59015_3</b>
	<b>Version</b> prismatic diffuser, opal, PMMA, wide distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG Multilumen <b>Rated values</b> Net luminous flux = 12070 lm Power consumption = 66.2 W Luminous efficacy = 182.3 lm/W	<b>serial documentation</b> <b>08.04.2020</b>
		

**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	
$\eta_{LB}$	100.0%
$\phi_u$	94.2%
$\phi_o$	5.8%

**Measurement conditions**  
 DIN EN 13032 and DIN 5032

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>sITeco</b>

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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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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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

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1590</b>	<b>H(C0) = 21</b>	<b>H(C180) = 21</b>
			<b>B = 87</b>	<b>H(C90) = 21</b>	<b>H(C270) = 21</b>

C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		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	

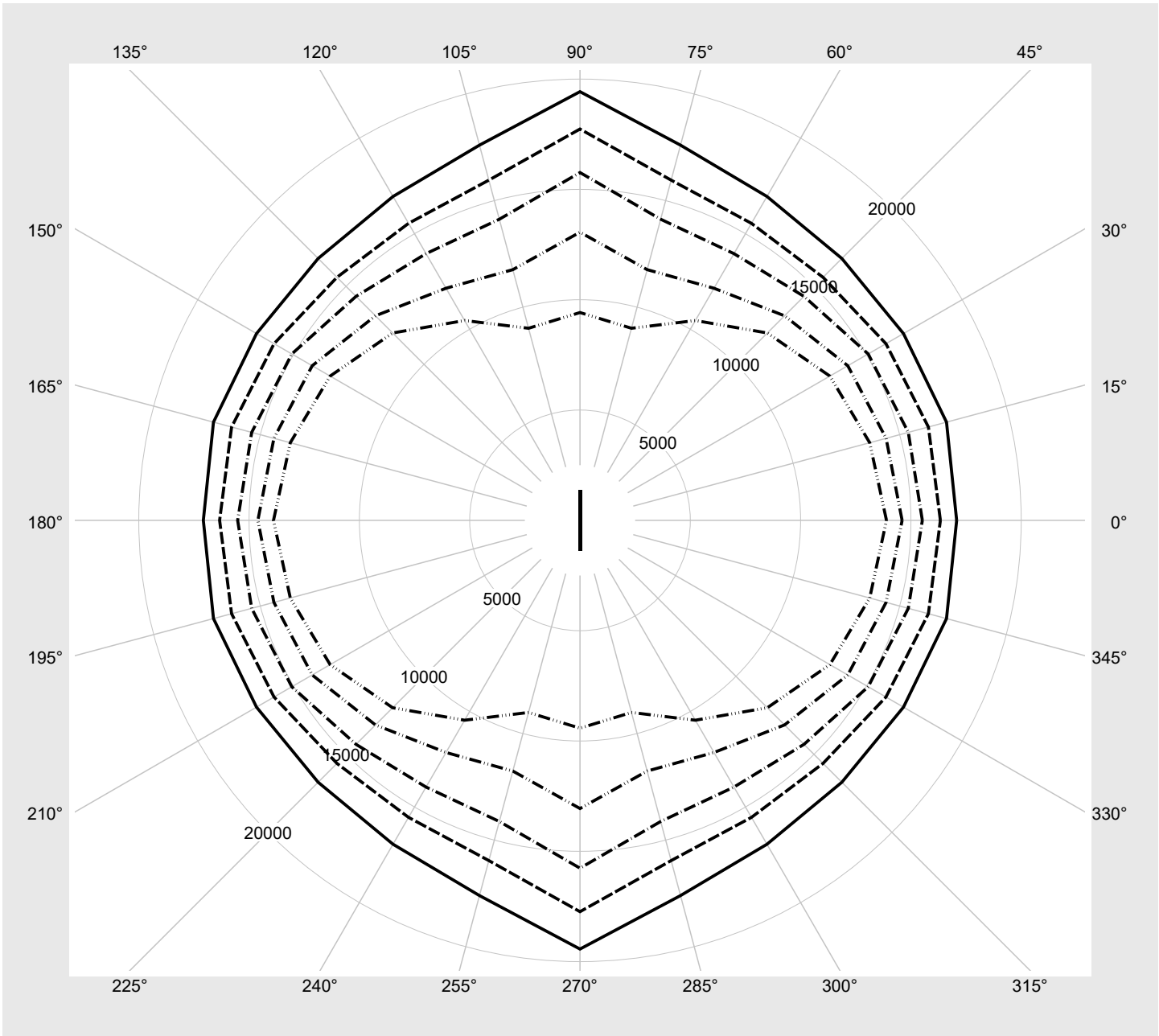
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°

**siteco**



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<b>Multilumen Table</b>	environmental temperature: 25°C	<b>sITeco</b>
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	12070	66.2
2	A	C	F	11400	62.3
3	A	D	E	10800	58.8
4	A	D	F	10280	55.8
5	B	C	E	9670	52.3
6	B	C	F	9140	49.4
7	B	D	E	8680	46.8
8	B	D	F	8060	43.4