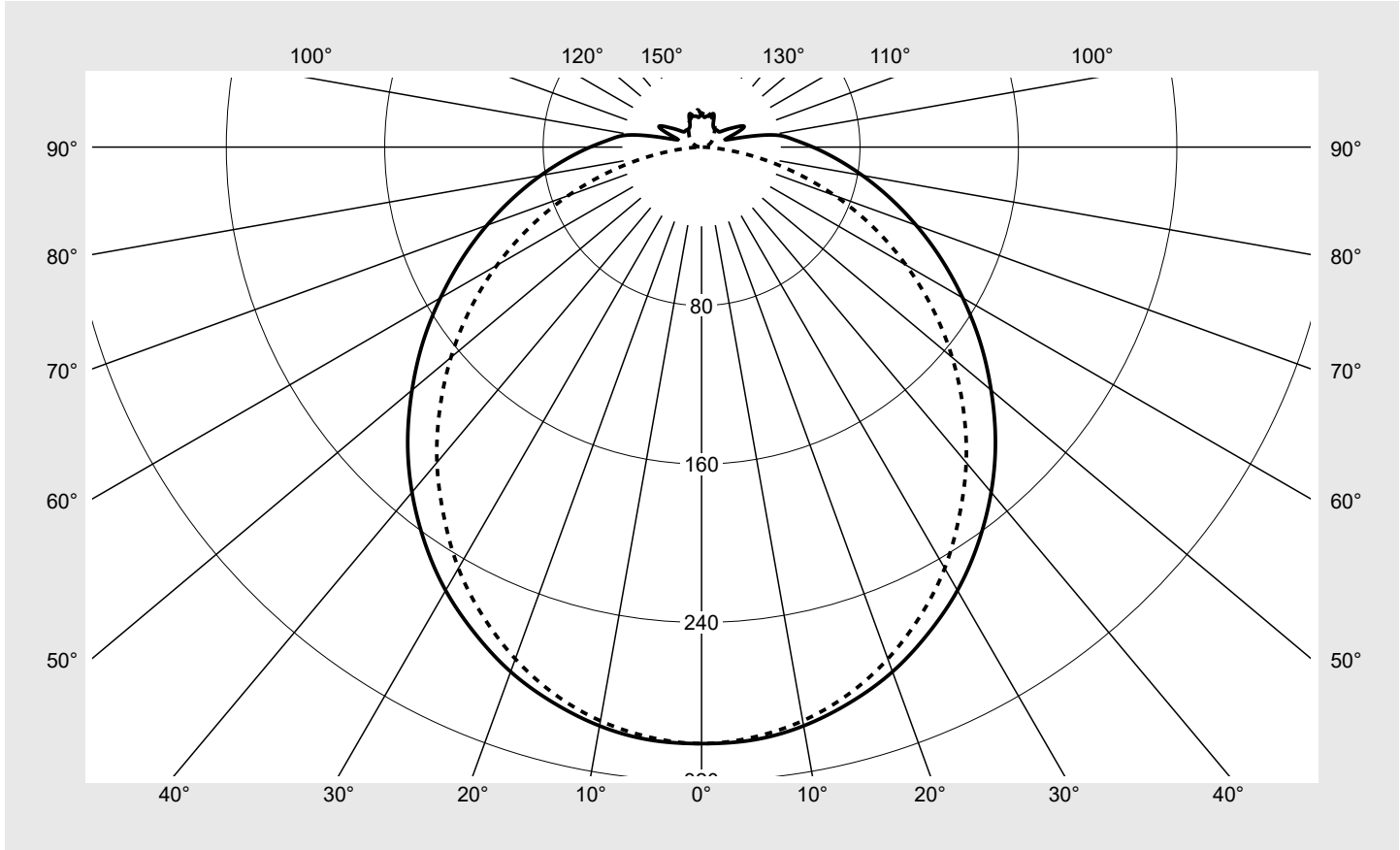


# Photometric test report

<b>Family</b> <b>Monsun® 41</b>	<b>Order number: 51FK20MN460A</b> <b>EAN: 4058352539613</b>	<b>LP number</b> <b>59262_3</b>
	<b>Version</b> cover, of PC, frosted <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG Multilumen <b>Rated values</b> Net luminous flux = 6000 lm Power consumption = 46.0 W Luminous efficacy = 130.4 lm/W	<b>serial documentation</b> <b>08.08.2022</b>
		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 301 cd/klm**



Classifications	
DIN 5040	A 4 1
CIE	N1=44 N2=74 N3=91 N4=91 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	91.2%
$\phi_o$	8.8%

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

## Photometric test report

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

C-planes $\gamma$	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°	301.2	301.2	301.2	301.2	301.2	301.2	301.2	1.8	1.8
5°	300.5	300.1	299.7	299.3	299.2	299.2	299.1	14.3	16.1
10°	296.7	296.1	295.5	294.9	294.7	294.4	294.1	28.1	44.2
15°	290.3	289.4	288.6	287.7	287.2	286.6	286.1	40.8	85.1
20°	281.9	280.5	279.2	277.9	276.9	275.9	275.0	52.1	137.2
25°	270.9	269.1	267.4	265.6	264.2	262.7	261.3	61.6	198.8
30°	258.5	256.1	253.7	251.3	249.4	247.5	245.6	69.0	267.8
35°	243.7	240.8	238.0	235.1	232.4	229.7	227.0	74.0	341.7
40°	227.5	224.1	220.7	217.3	214.2	211.0	207.9	76.6	418.3
45°	209.9	205.9	202.0	198.1	194.4	190.6	186.9	76.8	495.2
50°	190.9	186.5	182.2	177.9	173.7	169.4	165.2	74.7	569.9
55°	171.8	167.0	162.1	157.3	152.4	147.5	142.6	70.6	640.5
60°	152.3	146.9	141.5	136.1	130.5	124.9	119.3	64.5	705.0
65°	133.5	127.3	121.1	114.9	108.5	102.1	95.7	57.0	762.1
70°	115.3	108.4	101.6	94.7	87.0	79.4	71.7	48.5	810.5
75°	98.2	90.8	83.4	76.0	66.7	57.4	48.1	39.5	850.0
80°	82.5	74.8	67.1	59.4	48.5	37.5	26.6	30.7	880.7
85°	68.4	60.7	53.0	45.3	33.1	21.0	8.9	22.9	903.7
90°	56.2	48.9	41.5	34.1	23.1	12.1	1.1	17.2	920.9
95°	46.0	39.4	32.7	26.1	17.9	9.6	1.4	13.6	934.5
100°	35.4	27.4	19.3	11.3	8.2	5.2	2.2	8.1	942.6
105°	15.8	13.8	11.9	10.0	7.7	5.5	3.2	5.2	947.7
110°	14.7	14.6	14.4	14.3	10.9	7.5	4.1	6.1	953.8
115°	23.5	19.6	15.7	11.8	9.5	7.3	5.1	6.5	960.3
120°	20.3	16.5	12.6	8.8	7.9	7.0	6.1	5.2	965.5
125°	15.5	13.1	10.6	8.1	7.8	7.4	7.1	4.4	969.9
130°	12.0	10.7	9.5	8.2	8.2	8.1	8.1	3.8	973.7
135°	11.6	10.6	9.7	8.7	8.8	8.9	9.0	3.7	977.4
140°	11.4	10.8	10.3	9.7	9.8	10.0	10.2	3.6	981.0
145°	11.3	11.4	11.5	11.5	11.6	11.6	11.6	3.6	984.6
150°	11.8	12.7	13.6	14.5	14.1	13.6	13.2	3.7	988.3
155°	14.2	14.9	15.5	16.2	15.6	15.0	14.4	3.5	991.9
160°	17.8	17.5	17.1	16.8	16.4	16.0	15.6	3.1	995.0
165°	16.3	16.6	16.9	17.2	17.1	16.9	16.8	2.4	997.4
170°	15.9	16.5	17.1	17.8	17.8	17.8	17.9	1.6	999.1
175°	15.2	16.2	17.2	18.3	18.4	18.6	18.8	0.8	999.9
180°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	0.1	1000.0

## Photometric test report

Family <b>Monsun® 41</b>	Order number: <b>51FK20MN460A</b> EAN: <b>4058352539613</b>	LP number <b>59262_3</b>
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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	20.8	22.6	21.2	22.9	23.2	20.7	22.4	21.1	22.7	23.1
	3H	22.7	24.3	23.1	24.6	25.0	22.2	23.8	22.6	24.2	24.5
	4H	23.6	25.1	24.0	25.4	25.8	22.8	24.3	23.2	24.7	25.1
	6H	24.5	25.9	24.9	26.2	26.6	23.2	24.6	23.6	25.0	25.4
	8H	25.0	26.3	25.4	26.6	27.0	23.4	24.7	23.8	25.1	25.5
	12H	25.4	26.6	25.8	27.0	27.4	23.4	24.7	23.9	25.1	25.5
4H	2H	21.6	23.1	22.0	23.4	23.8	21.5	23.0	21.9	23.3	23.7
	3H	23.6	24.9	24.0	25.3	25.7	23.2	24.5	23.6	24.9	25.3
	4H	24.6	25.8	25.1	26.2	26.7	24.0	25.1	24.4	25.5	26.0
	6H	25.7	26.7	26.1	27.1	27.6	24.5	25.5	25.0	26.0	26.4
	8H	26.2	27.2	26.7	27.6	28.1	24.7	25.6	25.1	26.1	26.6
	12H	26.7	27.6	27.2	28.0	28.5	24.8	25.7	25.3	26.1	26.6
8H	4H	25.0	26.0	25.5	26.4	26.9	24.4	25.4	24.9	25.8	26.3
	6H	26.2	27.0	26.7	27.5	28.0	25.2	26.0	25.6	26.4	26.9
	8H	26.9	27.6	27.3	28.1	28.6	25.4	26.2	25.9	26.6	27.1
	12H	27.5	28.2	28.0	28.6	29.2	25.6	26.3	26.1	26.8	27.3
12H	4H	25.1	25.9	25.5	26.4	26.9	24.5	25.4	25.0	25.8	26.3
	6H	26.3	27.1	26.8	27.5	28.0	25.3	26.0	25.8	26.5	27.0
	8H	27.0	27.7	27.5	28.2	28.7	25.7	26.3	26.2	26.8	27.3

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:		L = 1462	H(C0) = 21	H(C180) = 21
				B = 76	H(C90) = 0	H(C270) = 0

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°		12557.0	12414.2	12449.3	12656.4	13042.4	13587.5	14274.1	
50°		12062.1	11889.2	11911.0	12122.0	12526.6	13115.8	13878.2	
55°		11596.9	11380.1	11375.1	11576.9	11982.3	12599.0	13425.0	
60°		11120.8	10847.1	10802.6	10981.9	11372.0	12001.5	12883.0	
65°		10708.4	10344.1	10227.2	10349.7	10697.5	11312.5	12228.0	
70°		10350.3	9878.1	9674.6	9727.3	9958.8	10471.4	11318.9	
75°		10084.8	9488.3	9188.5	9165.8	9180.9	9456.3	10045.5	
80°		9991.0	9250.9	8849.8	8759.7	8448.8	8303.6	8274.0	
85°		10193.0	9283.5	8787.6	8672.8	7963.0	7172.0	5531.0	

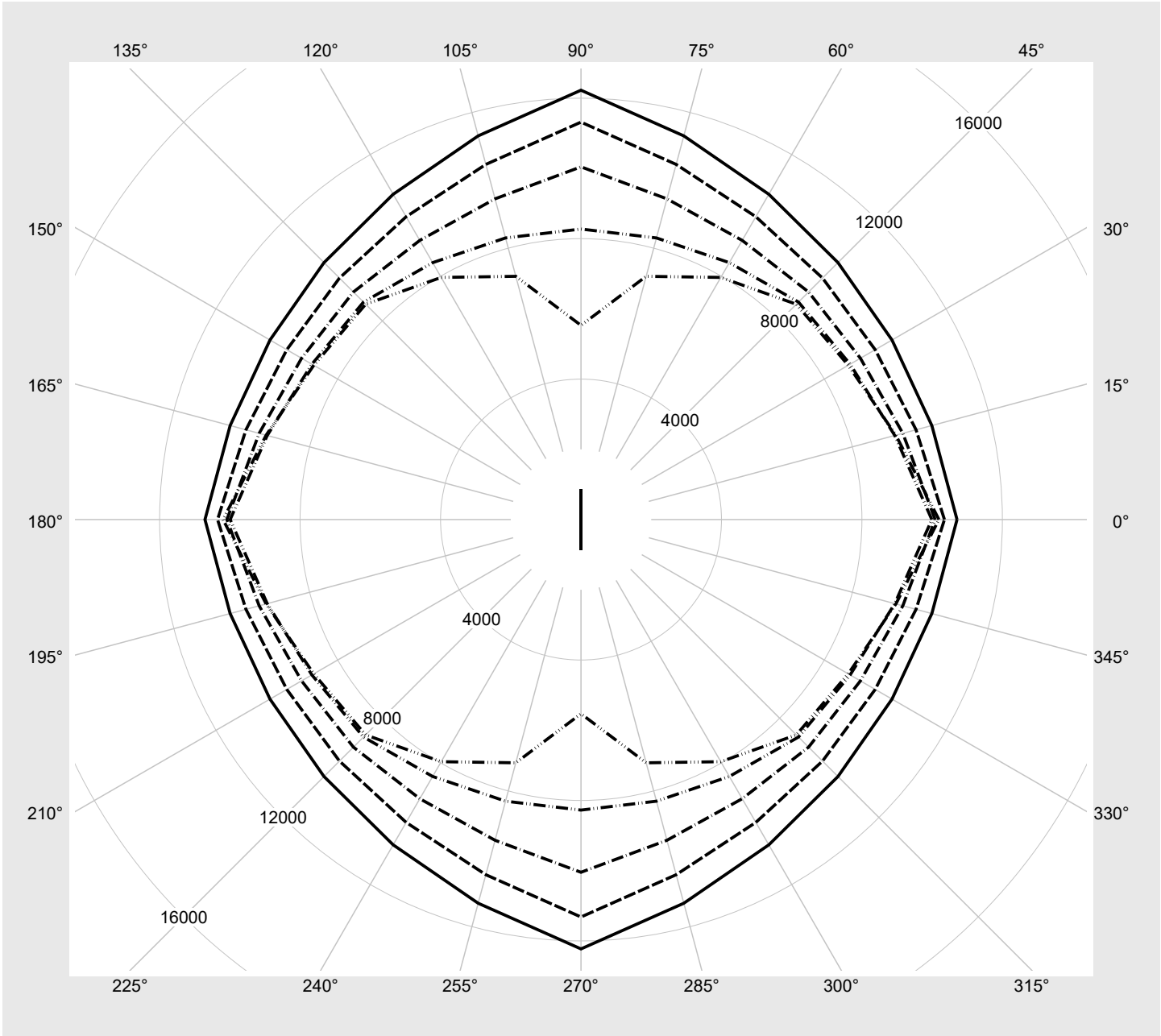
**Photometric test report**

<b>Family</b> <b>Monsun® 41</b>	<b>Order number: 51FK20MN460A</b> <b>EAN: 4058352539613</b>	<b>LP number</b> <b>59262_3</b>
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$ 65°	$\gamma$ 70°	$\gamma$ 75°	$\gamma$ 80°	$\gamma$ 85°
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**Photometric test report**

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<b>Multilumen Table</b>	environmental temperature: 25°C	<b>siteco</b>
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DIP-Step	Switch Setting 1	Luminous flux [lm]	Power consumption [W]
1	HIGH	6000	46.0
0	LOW	3500	27.0