

Photometric test report

Family
Monsun® 41

Order number: **51FK20MK440A003**
EAN: **4058352539101**

LP number
59261_4



Version cover, of PC, frosted
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG Multilumen
Rated values Net luminous flux = 4000 lm
Power consumption = 30.0 W
Luminous efficacy = 133.3 lm/W

serial
documentation
08.08.2022

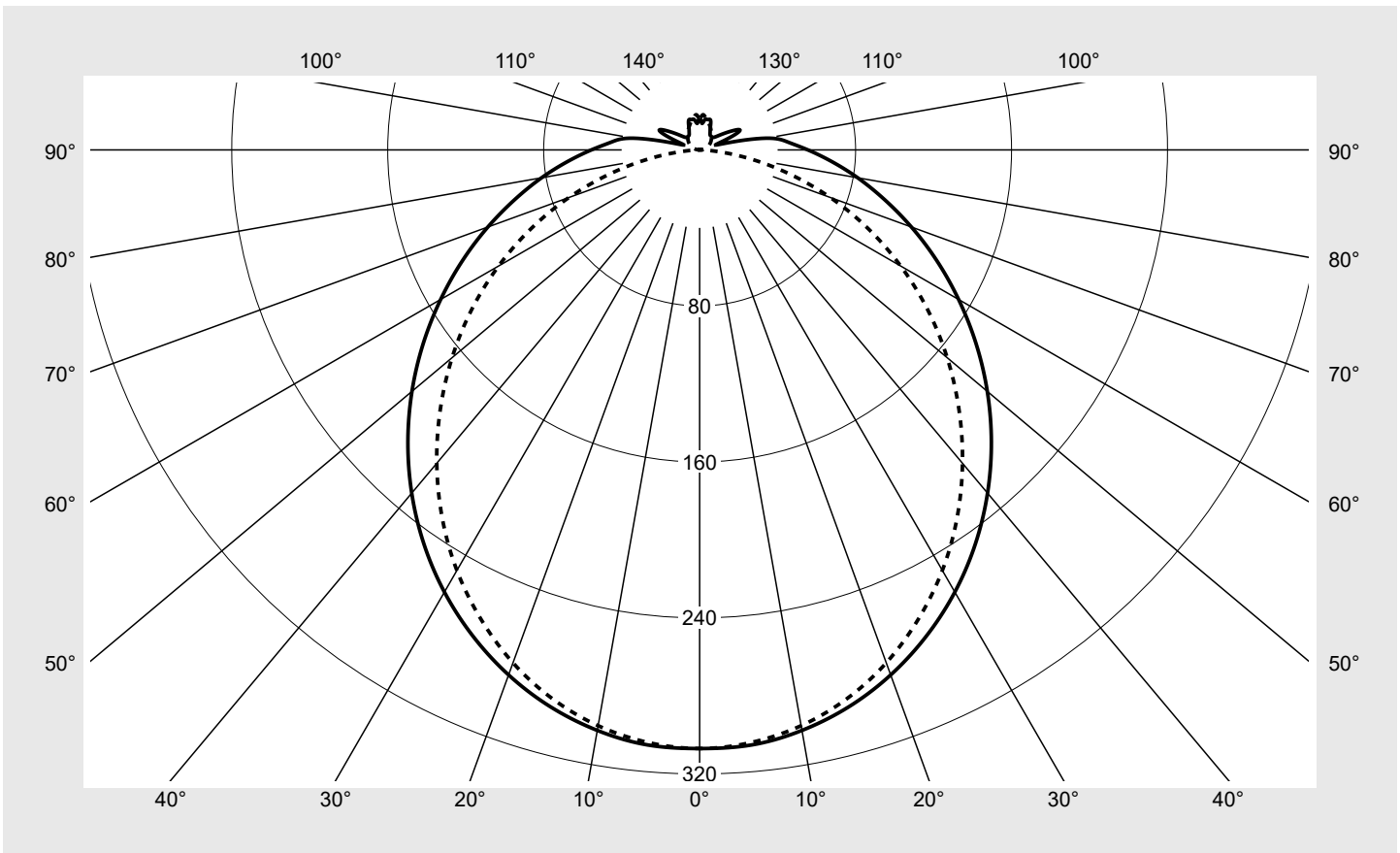
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 307 cd/klm



Classifications

DIN 5040 A 4 1
CIE N1=44 N2=74 N3=92
N4=92 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 92.0%
 ϕ_o 8.0%

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°	307.0	307.0	307.0	307.0	307.0	307.0	307.0	1.8	1.8
5°	306.3	305.9	305.5	305.2	305.1	305.1	305.0	14.6	16.4
10°	302.3	301.7	301.1	300.6	300.3	300.1	299.8	28.6	45.1
15°	295.7	294.8	293.9	293.0	292.5	292.0	291.4	41.6	86.7
20°	286.5	285.2	283.9	282.7	281.7	280.8	279.9	53.0	139.7
25°	275.1	273.4	271.6	269.8	268.4	266.9	265.5	62.6	202.3
30°	261.8	259.5	257.2	254.9	253.0	251.0	249.0	69.9	272.2
35°	246.6	243.7	240.9	238.0	235.4	232.8	230.3	74.9	347.1
40°	229.8	226.4	223.0	219.6	216.3	213.1	209.8	77.4	424.5
45°	211.6	207.7	203.8	199.8	195.9	192.0	188.1	77.5	502.0
50°	192.6	188.1	183.6	179.1	174.7	170.2	165.7	75.2	577.2
55°	173.1	168.1	163.2	158.2	153.1	147.9	142.7	71.0	648.2
60°	153.4	147.8	142.2	136.6	130.8	124.9	119.1	64.8	712.9
65°	134.2	127.9	121.5	115.2	108.6	101.9	95.3	57.1	770.0
70°	115.6	108.6	101.7	94.8	86.9	79.1	71.3	48.5	818.5
75°	98.1	90.6	83.2	75.7	66.4	57.1	47.8	39.3	857.9
80°	82.3	74.5	66.7	58.8	48.0	37.3	26.5	30.6	888.4
85°	67.9	60.1	52.3	44.5	32.7	20.8	9.0	22.6	911.1
90°	55.5	48.2	40.8	33.4	22.6	11.9	1.1	16.9	928.0
95°	45.6	38.9	32.2	25.5	17.5	9.4	1.3	13.4	941.3
100°	34.6	26.1	17.6	9.2	6.8	4.5	2.1	7.4	948.8
105°	12.1	10.7	9.3	7.8	6.3	4.7	3.1	4.1	952.9
110°	11.4	12.1	12.9	13.6	10.5	7.3	4.2	5.5	958.4
115°	22.4	18.5	14.5	10.6	8.8	6.9	5.1	6.0	964.4
120°	19.8	15.8	11.7	7.7	7.2	6.6	6.0	4.9	969.3
125°	14.1	11.6	9.1	6.7	6.8	6.8	6.9	3.9	973.2
130°	10.3	9.1	7.9	6.7	7.1	7.4	7.7	3.3	976.5
135°	9.2	8.5	7.9	7.2	7.7	8.1	8.6	3.1	979.6
140°	9.2	8.9	8.6	8.3	8.6	9.0	9.4	3.1	982.7
145°	9.4	9.6	9.8	10.0	10.1	10.1	10.2	3.1	985.8
150°	10.8	11.5	12.2	12.9	12.5	12.0	11.6	3.3	989.1
155°	13.1	13.7	14.3	15.0	14.3	13.6	12.9	3.2	992.3
160°	16.3	16.1	15.9	15.7	15.2	14.7	14.2	2.9	995.2
165°	16.1	16.2	16.2	16.3	16.1	15.8	15.6	2.3	997.5
170°	15.7	16.2	16.6	17.1	17.0	17.0	16.9	1.6	999.1
175°	13.7	15.0	16.3	17.7	17.8	17.9	18.0	0.8	999.9
180°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	0.1	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	20.3	22.0	20.6	22.3	22.6	20.1	21.8	20.4	22.1	22.5
	3H	22.1	23.7	22.5	24.0	24.4	21.6	23.2	22.0	23.5	23.9
	4H	23.0	24.5	23.4	24.8	25.2	22.2	23.7	22.6	24.0	24.4
	6H	23.9	25.3	24.3	25.6	26.0	22.6	24.0	23.0	24.4	24.8
	8H	24.3	25.6	24.8	26.0	26.4	22.7	24.1	23.2	24.4	24.8
	12H	24.8	26.0	25.2	26.4	26.8	22.8	24.0	23.2	24.4	24.8
4H	2H	21.0	22.5	21.4	22.8	23.2	20.9	22.3	21.2	22.7	23.1
	3H	23.0	24.3	23.4	24.7	25.1	22.6	23.9	23.0	24.3	24.7
	4H	24.0	25.2	24.5	25.6	26.0	23.3	24.5	23.7	24.9	25.3
	6H	25.1	26.1	25.5	26.5	27.0	23.9	24.9	24.3	25.3	25.8
	8H	25.6	26.5	26.0	27.0	27.4	24.0	25.0	24.5	25.4	25.9
	12H	26.1	26.9	26.6	27.4	27.9	24.1	25.0	24.6	25.5	26.0
8H	4H	24.4	25.3	24.8	25.8	26.3	23.8	24.7	24.2	25.2	25.6
	6H	25.6	26.4	26.1	26.9	27.4	24.5	25.3	25.0	25.8	26.3
	8H	26.2	26.9	26.7	27.4	27.9	24.8	25.5	25.3	26.0	26.5
	12H	26.9	27.5	27.4	28.0	28.5	25.0	25.6	25.5	26.1	26.6
12H	4H	24.4	25.3	24.9	25.8	26.3	23.9	24.7	24.4	25.2	25.7
	6H	25.7	26.4	26.2	26.9	27.4	24.7	25.4	25.2	25.9	26.4
	8H	26.4	27.0	26.9	27.5	28.0	25.0	25.6	25.5	26.1	26.7

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1162	H(C0) = 21	H(C180) = 21
			B = 76	H(C90) = 0	H(C270) = 0

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°		10621.2	10501.1	10531.5	10707.4	11026.3	11478.9	12050.0	
50°		10211.1	10057.6	10068.6	10239.1	10568.4	11052.0	11679.2	
55°		9799.7	9612.1	9603.2	9768.5	10095.1	10597.3	11272.4	
60°		9398.1	9156.6	9108.1	9247.4	9559.9	10070.9	10789.0	
65°		9029.4	8714.6	8608.1	8702.0	8975.7	9469.6	10208.8	
70°		8702.0	8300.9	8125.7	8164.9	8345.0	8756.5	9441.6	
75°		8451.1	7945.3	7687.5	7660.6	7666.7	7887.6	8366.2	
80°		8365.1	7730.2	7377.2	7279.9	7026.3	6912.9	6901.8	
85°		8488.8	7713.2	7278.8	7154.5	6580.7	5949.7	4653.3	

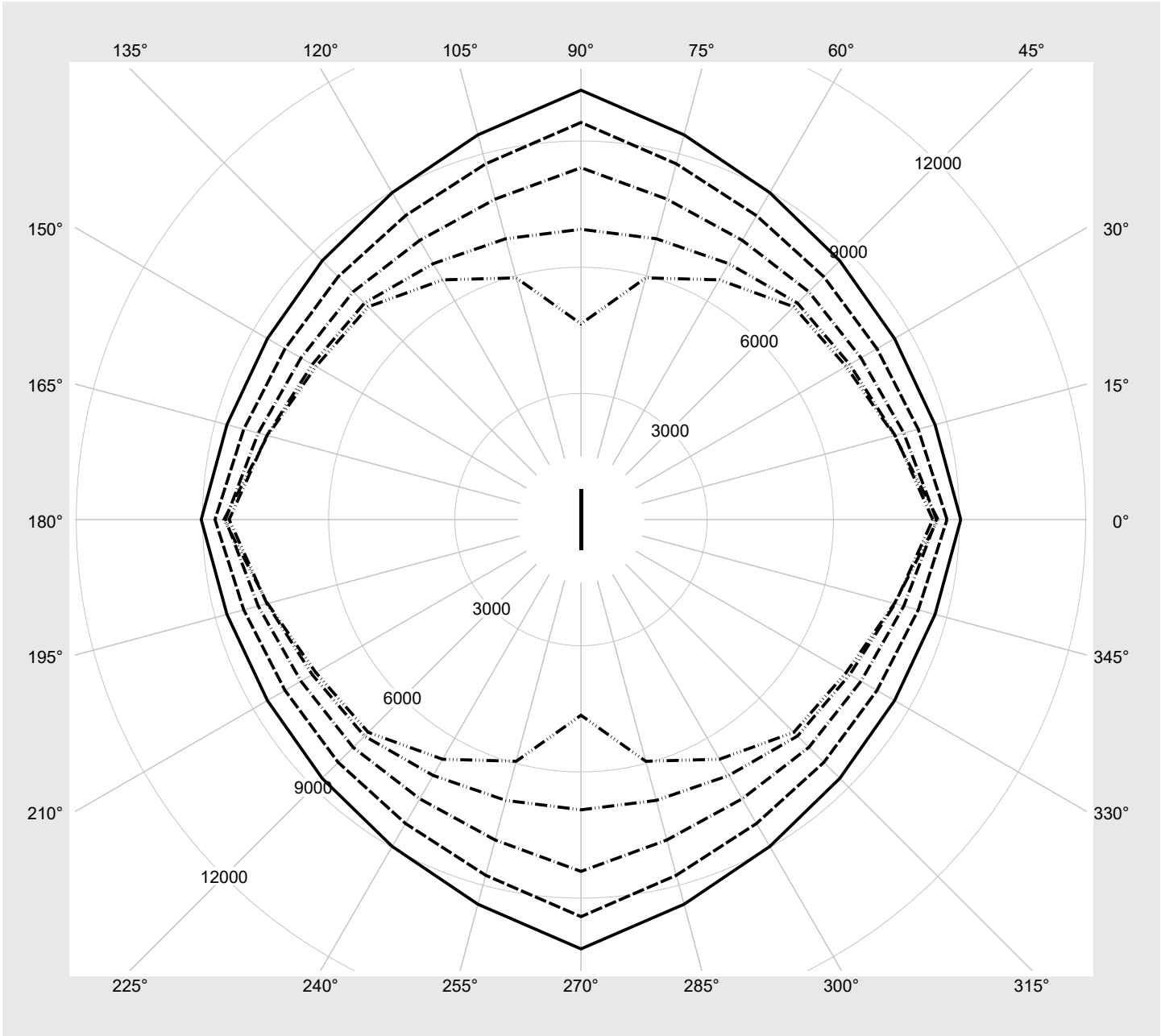
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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Multilumen Table	environmental temperature: 25°C	siteco
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DIP-Step	Switch Setting 1	Luminous flux [lm]	Power consumption [W]
1	HIGH	4000	30.0
0	LOW	2000	15.0