

## Lichttechnischer Prüfbefund

**Familie**  
**Monsun® 21 Eco**

**Bestell-Nr.: 51FJ20ML45A**  
**EAN: 4058352554593**

**LP-Nummer**  
**59396\_1**



**Ausführung** Abdeckung, satiniert, PC, diffus strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-Multilumen  
**Bemessungswerte** Nettolichtstrom = 4900 lm  
 Systemleistung = 36.0 W  
 Lichtausbeute = 136.1 lm/W

**Seriendokumentation**  
**10.02.2023**

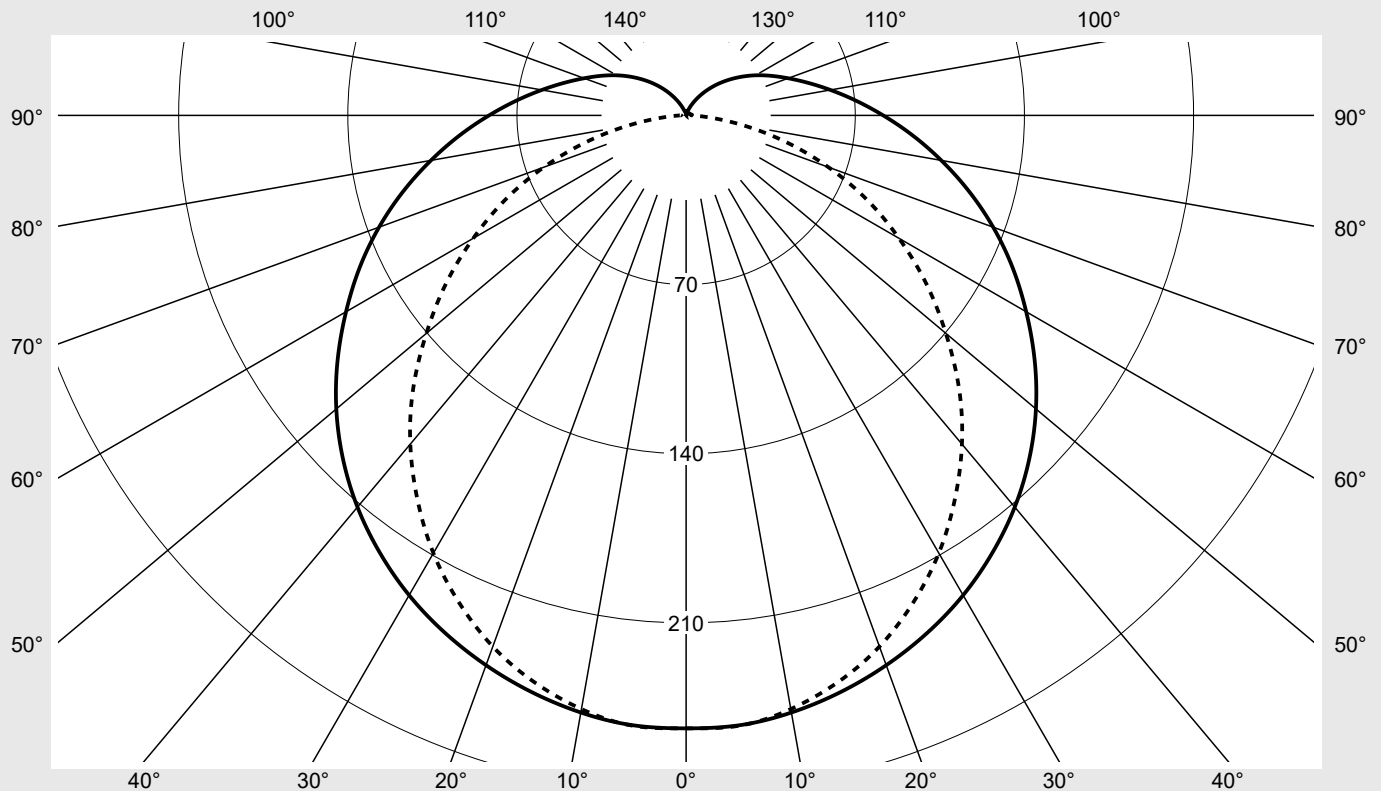
**siteco**

**Lichtstärke in cd/klm**

**C180-0**

**C270-90**

**Imax: 254 cd/klm**



**Klassifizierungen**

DIN 5040 B 3 1  
 CIE N1=40 N2=69 N3=88  
 N4=88 N5=100

**Leuchtenbetriebswirkungsgrade**

$\eta_{LB}$  100,0%  
 $\phi_u$  87,8%  
 $\phi_o$  12,2%

**Messbedingungen**

DIN EN 13032 und DIN 5032

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<b>Wertetabelle Lichtstärkemessung</b>		<b>Maximale Lichtstärke</b>
		<b>siteco</b>

C- Ebenen	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-Zone	Summe	
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			Phi-Zone	Phi-Zone
γ										
Lichtstärke in cd/klm										
Lichtstrom in lm/klm										
0°	253.6	253.6	253.6	253.6	253.6	253.6	253.6	1.5	1.5	1.5
5°	253.3	253.4	251.8	251.8	252.2	252.8	253.5	12.1	13.6	13.6
10°	250.9	251.0	249.2	248.5	248.6	248.8	249.5	23.7	37.3	37.3
15°	247.0	247.0	244.7	243.3	242.5	242.1	242.8	34.6	71.9	71.9
20°	242.1	241.8	239.0	236.2	234.5	233.2	233.9	44.5	116.4	116.4
25°	236.2	235.5	231.8	227.4	224.3	221.9	222.4	52.9	169.3	169.3
30°	229.3	228.3	223.7	217.6	212.6	209.1	209.2	59.9	229.2	229.2
35°	221.0	219.7	214.1	206.6	199.2	194.4	193.9	65.1	294.2	294.2
40°	211.6	209.9	203.5	194.5	185.2	178.4	177.6	68.5	362.7	362.7
45°	200.9	198.9	191.7	181.4	170.0	161.3	159.7	70.0	432.7	432.7
50°	189.0	186.8	179.1	167.5	154.4	143.4	140.3	69.7	502.4	502.4
55°	176.0	173.7	165.4	152.7	138.3	125.6	121.3	67.7	570.1	570.1
60°	162.5	160.0	151.1	137.3	122.2	107.3	101.7	64.1	634.2	634.2
65°	149.1	146.0	136.7	122.2	106.2	89.7	82.6	59.3	693.5	693.5
70°	135.2	131.9	122.0	106.7	89.7	71.7	62.6	53.3	746.8	746.8
75°	121.1	117.8	107.5	91.8	73.3	54.2	43.1	46.5	793.3	793.3
80°	107.2	103.7	93.6	77.4	58.2	37.6	24.6	39.3	832.5	832.5
85°	94.0	90.3	80.5	64.7	45.3	23.9	9.6	32.4	865.0	865.0
90°	81.6	78.0	68.6	53.6	35.2	15.2	2.6	26.7	891.7	891.7
95°	70.5	67.2	58.7	44.7	27.8	10.7	2.4	22.4	914.1	914.1
100°	60.6	57.8	49.8	37.2	22.6	8.2	2.2	18.6	932.7	932.7
105°	52.2	49.5	42.2	31.5	18.7	6.1	1.9	15.4	948.1	948.1
110°	44.9	42.2	36.1	26.6	15.2	4.5	1.8	12.7	960.9	960.9
115°	38.8	36.1	30.9	22.3	12.2	3.3	1.7	10.4	971.2	971.2
120°	33.2	30.8	26.1	18.4	9.5	2.5	1.6	8.3	979.5	979.5
125°	27.8	25.7	21.4	14.8	7.2	1.9	1.5	6.4	985.9	985.9
130°	22.8	20.9	17.2	11.4	5.3	1.7	1.4	4.8	990.7	990.7
135°	18.2	16.6	13.3	8.5	3.6	1.6	0.9	3.4	994.1	994.1
140°	13.8	12.5	9.8	6.0	2.3	1.3	1.0	2.3	996.5	996.5
145°	9.9	8.9	6.8	4.0	1.7	1.3	1.1	1.5	997.9	997.9
150°	6.5	5.7	4.3	2.4	1.6	1.3	1.2	0.9	998.8	998.8
155°	3.8	3.3	2.4	1.7	1.5	1.4	1.2	0.5	999.3	999.3
160°	2.0	1.8	1.7	1.5	1.4	1.4	1.3	0.3	999.6	999.6
165°	1.6	1.6	1.5	1.4	1.4	1.4	1.3	0.2	999.8	999.8
170°	1.5	1.5	1.4	1.4	1.4	1.4	1.3	0.1	999.9	999.9
175°	1.4	1.4	1.4	1.4	1.4	1.4	1.3	0.1	1000.0	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	1000.0

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UGR-Tabelle		Standardraum									
Raumabmessungen		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
x	y										
2H	2H	19,5	21,1	19,9	21,5	22,0	18,4	20,0	18,8	20,4	20,9
	3H	21,6	23,1	22,1	23,5	24,0	19,9	21,4	20,3	21,8	22,3
	4H	22,6	24,0	23,1	24,5	25,0	20,4	21,9	20,9	22,3	22,9
	6H	23,7	24,9	24,2	25,4	26,0	20,8	22,2	21,3	22,7	23,2
	8H	24,1	25,3	24,7	25,8	26,4	20,9	22,2	21,5	22,7	23,3
	12H	24,6	25,7	25,2	26,3	26,9	21,0	22,2	21,5	22,7	23,3
4H	2H	20,1	21,6	20,6	22,0	22,5	19,3	20,7	19,8	21,1	21,7
	3H	22,5	23,7	23,0	24,2	24,8	21,0	22,2	21,5	22,7	23,3
	4H	23,7	24,8	24,2	25,3	25,9	21,7	22,8	22,3	23,4	23,9
	6H	24,9	25,8	25,4	26,4	27,0	22,2	23,2	22,8	23,8	24,4
	8H	25,4	26,3	26,0	26,9	27,6	22,4	23,3	23,0	23,9	24,5
	12H	26,0	26,8	26,6	27,4	28,1	22,5	23,3	23,1	23,9	24,6
8H	4H	24,0	24,9	24,6	25,5	26,1	22,3	23,2	22,9	23,8	24,4
	6H	25,4	26,1	26,0	26,8	27,4	23,1	23,8	23,7	24,4	25,1
	8H	26,1	26,8	26,7	27,4	28,1	23,4	24,0	24,0	24,7	25,4
	12H	26,9	27,5	27,5	28,1	28,8	23,6	24,2	24,2	24,8	25,5
12H	4H	24,0	24,9	24,6	25,5	26,1	22,5	23,3	23,1	23,9	24,6
	6H	25,5	26,2	26,1	26,8	27,5	23,4	24,0	24,0	24,6	25,4
	8H	26,3	26,9	26,9	27,5	28,3	23,7	24,3	24,4	25,0	25,7

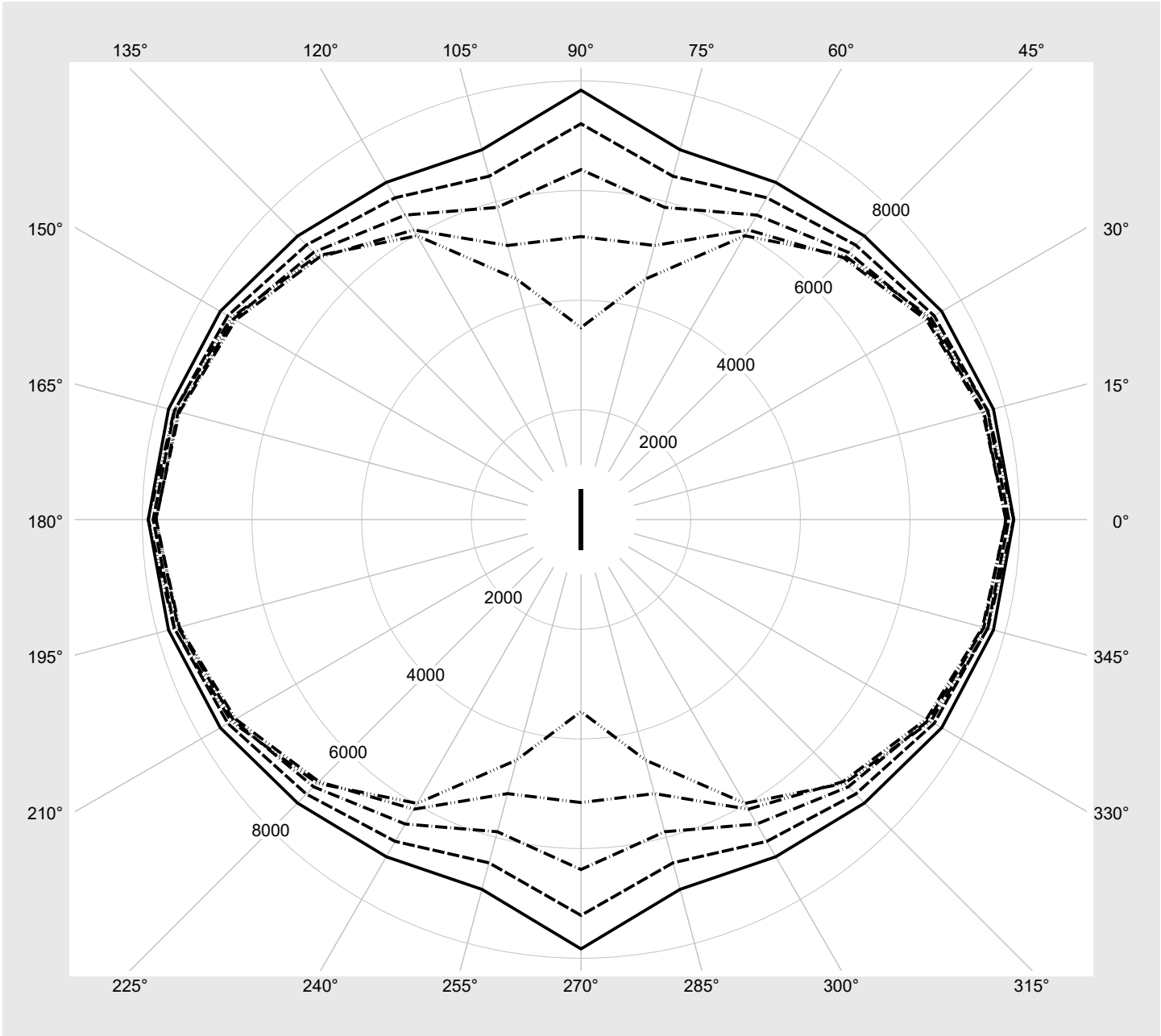
<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 1277 B = 90	H(C0) = 38	H(C180) = 38	H(C90) = 38	H(C270) = 38
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C-Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		8515.4	8471.3	8373.8	8290.3	8289.0	8548.4	9351.0	
50°		8338.6	8286.6	8173.9	8044.5	7988.3	8168.4	8987.8	
55°		8162.5	8103.3	7965.6	7792.7	7682.9	7796.8	8648.0	
60°		8003.5	7932.9	7766.0	7533.7	7390.4	7384.8	8248.1	
65°		7892.6	7786.7	7595.8	7311.8	7101.5	6982.1	7830.7	
70°		7803.5	7675.3	7436.2	7081.7	6777.0	6481.8	7218.7	
75°		7746.9	7606.2	7317.7	6893.6	6411.9	5894.4	6382.8	
80°		7755.2	7582.1	7275.6	6759.4	6100.2	5174.6	5161.2	
85°		7891.5	7679.8	7363.7	6802.2	5977.2	4541.6	3502.0	

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Leuchtdichten in cd/m<sup>2</sup>      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**



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### Multilumen-Tabelle

Umgebungstemperatur: 25°C

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DIP-Stufe	Schalterstellung		Lichtstrom [lm]	Systemleistung [W]
	1	2		
3	ON	ON	4900	36.0
2	ON	OFF	4000	31.0
1	OFF	ON	3300	25.0
0	OFF	OFF	2700	20.0