

## Lichttechnischer Prüfbefund

**Familie**  
**Monsun® 31**

**Bestell-Nr.: 51FA20DP460B**  
**EAN: 4058352419595**

**LP-Nummer**  
**59099\_2**



**Ausführung** diffus strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 6700 lm  
 Systemleistung = 50.0 W  
 Lichtausbeute = 134 lm/W

**Seriendokumentation**  
24.11.2020

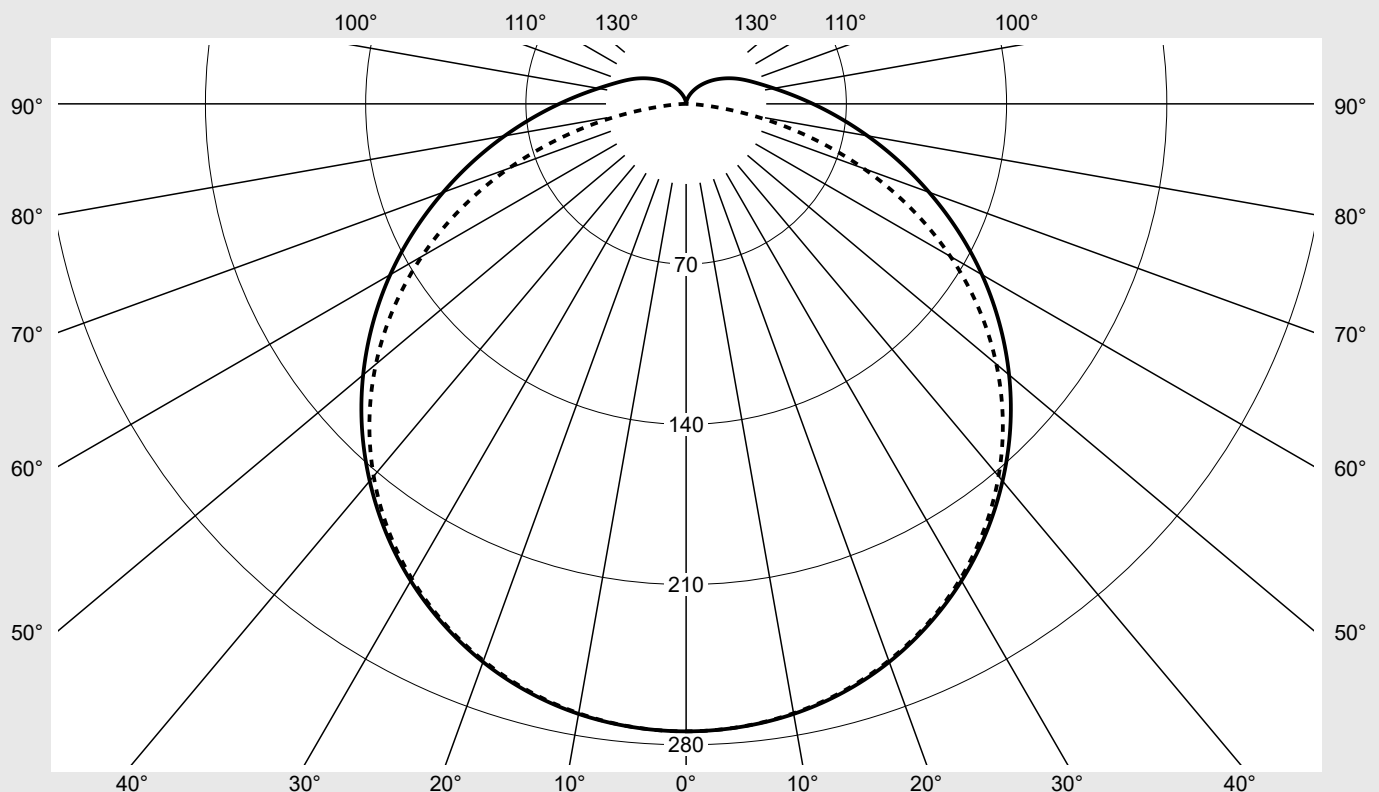
**sITeco**

**Lichtstärke in cd/klm**

**C180-0**

**C270-90**

**Imax: 274 cd/klm**



**Klassifizierungen**

DIN 5040 A 3 1  
 CIE N1=42 N2=72 N3=91  
 N4=91 N5=100

**Leuchtenbetriebswirkungsgrade**

$\eta_{LB}$  100,0%  
 $\phi_u$  91,5%  
 $\phi_o$  8,5%

**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 Phi-Zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
γ									
Lichtstärke in cd/klm									
Lichtstrom in lm/klm									
0°	274.1	274.1	274.1	274.1	274.1	274.1	274.1	1.6	1.6
5°	273.2	273.3	273.2	273.2	273.2	273.2	273.2	13.1	14.7
10°	270.6	270.6	270.6	270.5	270.4	270.3	270.3	25.7	40.4
15°	266.0	266.0	266.0	266.0	265.8	265.6	265.6	37.7	78.2
20°	259.5	259.5	259.5	259.5	259.3	259.0	258.8	48.6	126.8
25°	250.9	251.0	251.0	251.1	250.9	250.5	250.2	58.1	184.9
30°	240.6	240.7	240.8	240.8	240.6	240.0	239.6	65.9	250.8
35°	228.6	228.7	228.8	228.8	228.4	227.6	227.0	71.8	322.6
40°	215.1	215.1	215.2	215.0	214.4	213.2	212.4	75.6	398.1
45°	200.3	200.3	200.1	199.6	198.6	196.9	195.7	77.1	475.2
50°	184.2	184.1	183.7	182.8	181.1	178.6	176.9	76.3	551.6
55°	167.1	166.9	166.1	164.5	161.9	158.4	156.2	73.3	624.9
60°	149.3	148.9	147.5	145.0	141.2	136.4	133.3	68.1	692.9
65°	131.0	130.3	128.2	124.6	119.3	112.8	108.7	60.9	753.8
70°	113.0	112.0	108.9	103.7	96.6	88.0	82.5	52.1	805.9
75°	96.0	94.7	90.5	83.5	74.0	62.9	55.7	42.5	848.4
80°	80.5	78.8	73.9	65.2	53.2	39.2	29.8	32.9	881.2
85°	66.8	65.0	59.5	50.0	36.5	20.0	8.7	24.5	905.7
90°	55.4	53.5	47.9	38.3	24.9	9.6	0.2	18.5	924.1
95°	46.2	44.4	39.0	30.1	18.3	6.1	0.2	14.7	938.8
100°	39.0	37.3	32.5	24.7	14.8	4.7	0.2	12.0	950.8
105°	33.5	32.0	27.8	21.0	12.5	3.8	0.2	10.1	960.9
110°	29.3	28.0	24.2	18.2	10.5	3.2	0.2	8.5	969.4
115°	25.7	24.5	21.1	15.7	9.0	2.7	0.2	7.1	976.5
120°	22.4	21.3	18.2	13.4	7.6	2.4	0.3	5.9	982.4
125°	19.2	18.3	15.6	11.4	6.4	2.1	0.3	4.8	987.1
130°	16.4	15.6	13.2	9.6	5.4	1.8	0.3	3.8	990.9
135°	13.7	13.0	11.0	8.0	4.4	1.6	0.3	2.9	993.8
140°	11.3	10.7	9.0	6.5	3.7	1.4	0.4	2.2	996.0
145°	9.1	8.6	7.2	5.2	3.0	1.2	0.4	1.6	997.5
150°	7.1	6.7	5.6	4.1	2.4	0.9	0.4	1.1	998.6
155°	5.3	5.0	4.2	3.0	1.8	0.8	0.4	0.7	999.3
160°	3.8	3.6	3.0	2.1	1.3	0.7	0.4	0.4	999.7
165°	2.4	2.3	1.9	1.4	0.9	0.5	0.4	0.2	999.9
170°	1.4	1.3	1.1	0.9	0.6	0.5	0.4	0.1	1000.0
175°	0.7	0.6	0.6	0.5	0.4	0.4	0.4	0.0	1000.0
180°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	1000.0

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UGR-Tabelle		Standardraum									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
x	y										
2H	2H	21,7	23,4	22,0	23,7	24,0	22,1	23,9	22,5	24,2	24,5
	3H	23,5	25,1	23,9	25,4	25,8	23,8	25,4	24,1	25,7	26,1
	4H	24,4	25,9	24,8	26,2	26,6	24,4	25,9	24,8	26,3	26,6
	6H	25,2	26,6	25,6	27,0	27,4	24,8	26,2	25,2	26,6	27,0
	8H	25,6	27,0	26,0	27,3	27,7	25,0	26,3	25,4	26,7	27,1
	12H	26,0	27,3	26,4	27,7	28,1	25,0	26,3	25,4	26,7	27,1
4H	2H	22,5	24,0	22,9	24,4	24,7	22,8	24,4	23,2	24,7	25,1
	3H	24,5	25,8	24,9	26,2	26,6	24,7	26,0	25,1	26,4	26,8
	4H	25,5	26,7	26,0	27,1	27,6	25,5	26,7	25,9	27,1	27,5
	6H	26,5	27,6	27,0	28,0	28,5	26,0	27,1	26,5	27,5	28,0
	8H	27,0	28,0	27,5	28,4	28,9	26,2	27,2	26,6	27,6	28,1
	12H	27,5	28,4	28,0	28,8	29,3	26,3	27,2	26,7	27,6	28,1
8H	4H	26,0	26,9	26,4	27,4	27,9	25,9	26,9	26,4	27,3	27,8
	6H	27,1	28,0	27,6	28,4	28,9	26,6	27,5	27,1	27,9	28,4
	8H	27,8	28,5	28,2	29,0	29,5	26,9	27,6	27,4	28,1	28,6
	12H	28,4	29,0	28,9	29,5	30,1	27,0	27,7	27,5	28,2	28,7
12H	4H	26,0	26,9	26,5	27,4	27,9	26,0	26,9	26,5	27,3	27,8
	6H	27,3	28,0	27,8	28,5	29,0	26,8	27,5	27,3	28,0	28,5
	8H	28,0	28,6	28,5	29,1	29,6	27,1	27,8	27,6	28,3	28,8

<b>Leuchtdichten-Tabelle</b>	Max. für $\gamma \geq 65^\circ$	Lichttechnische Abmessungen in mm:	L = 1430 B = 64	H(C0) = 22 H(C90) = 0	H(C180) = 22 H(C270) = 0
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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°		15430.7	15564.9	15963.2	16627.4	17545.1	18718.0	20256.6	
50°		14881.6	15022.2	15443.4	16139.5	17115.9	18389.6	20150.0	
55°		14302.7	14450.4	14875.4	15582.1	16592.9	17941.3	19931.1	
60°		13697.9	13838.2	14247.6	14937.7	15934.5	17309.5	19521.9	
65°		13060.0	13182.1	13554.6	14183.3	15099.9	16411.4	18823.1	
70°		12435.4	12536.4	12821.2	13311.8	14037.8	15139.3	17652.6	
75°		11897.7	11957.6	12131.1	12383.7	12745.8	13354.7	15749.6	
80°		11500.4	11525.2	11583.8	11564.1	11351.4	10983.8	12578.9	
85°		11386.0	11388.2	11352.7	11108.0	10341.9	8328.4	7336.3	

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**Leuchtdichten in cd/m<sup>2</sup>**

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°

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