

## Lichttechnischer Prüfbefund

**Familie**  
**Monsun® 12**

**Bestell-Nr.: 51FP10DP460H**  
**EAN: 4058352376324**

**LP-Nummer**  
**58939\_25**



**Ausführung** Prismenwanne, opal, PMMA, breit strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 6050 lm  
 Systemleistung = 34.6 W  
 Lichtausbeute = 174.9 lm/W

**Seriendokumentation**  
**08.04.2020**

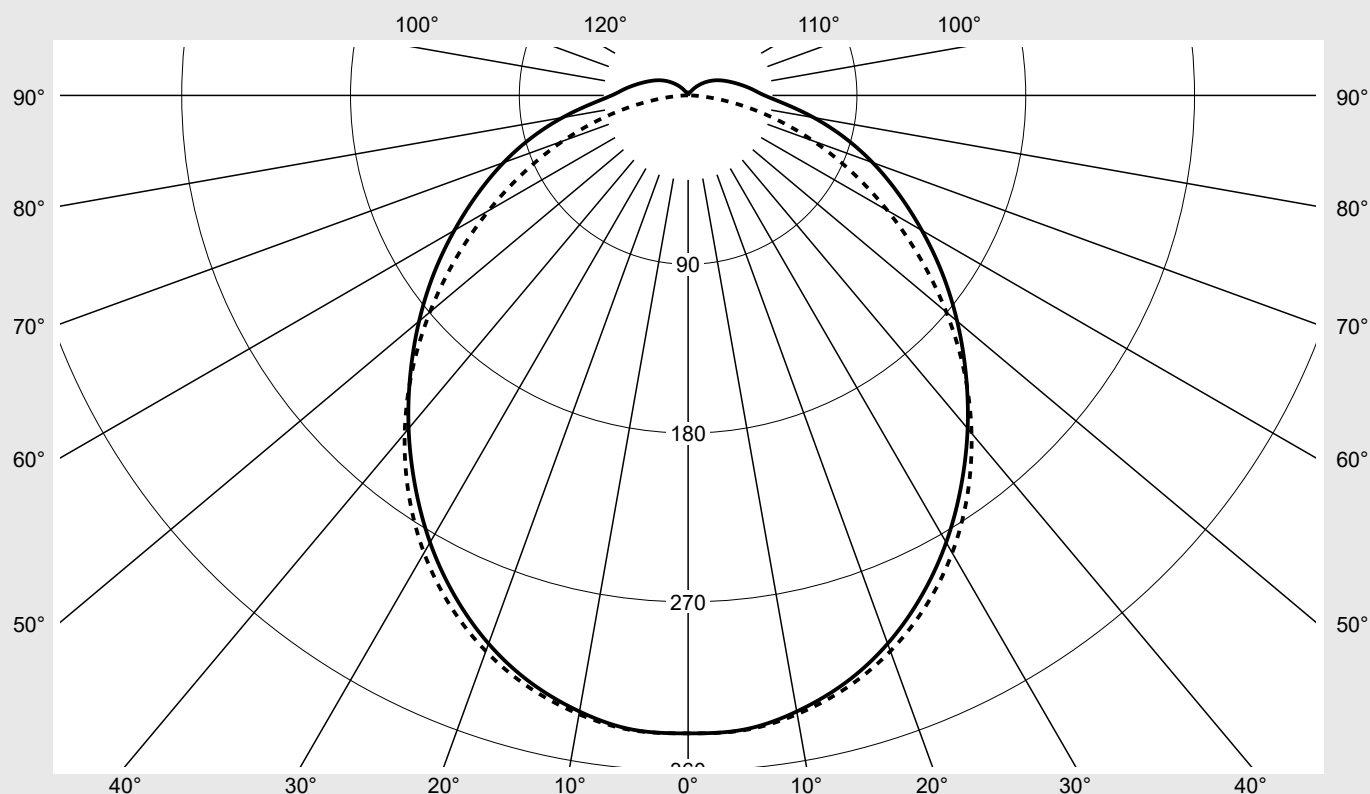
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**Lichtstärke in cd/klm**

**C180-0**

**C270-90**

**Imax: 340 cd/klm**



**Klassifizierungen**

DIN 5040 A 4 1  
 CIE N1=47 N2=77 N3=93  
 N4=94 N5=100

**Leuchtenbetriebswirkungsgrade**

$\eta_{LB}$  100,0%  
 $\phi_u$  94,2%  
 $\phi_o$  5,8%

**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°	340.1	340.1	340.1	340.1	340.1	340.1	340.1	2.0	2.0	
5°	339.4	338.3	336.5	337.9	339.5	339.4	339.8	16.2	18.2	
10°	333.5	333.0	331.2	332.8	334.6	334.7	335.0	31.7	49.9	
15°	324.2	324.2	322.5	324.2	326.1	326.4	326.9	46.1	96.0	
20°	311.0	311.6	310.1	311.9	314.1	314.7	315.3	58.6	154.6	
25°	294.4	295.4	294.1	296.0	298.4	299.4	300.2	68.7	223.4	
30°	275.2	276.6	275.1	276.8	279.4	280.7	281.6	76.1	299.5	
35°	253.9	255.2	253.8	254.9	257.1	258.4	259.7	80.5	380.0	
40°	231.8	232.9	231.3	231.1	232.5	233.8	235.1	81.9	461.9	
45°	209.4	209.9	207.8	205.9	206.1	206.6	208.2	80.4	542.4	
50°	187.2	187.1	184.8	181.3	179.3	178.3	179.7	76.6	619.0	
55°	165.5	164.8	162.1	157.0	153.1	150.2	150.9	70.7	689.7	
60°	143.9	142.9	139.5	133.7	127.9	123.2	122.7	63.3	753.0	
65°	123.6	122.5	117.8	111.0	104.2	97.9	96.0	54.9	808.0	
70°	104.7	103.3	97.1	89.4	81.7	74.3	71.0	45.8	853.8	
75°	86.1	84.4	77.8	69.2	60.2	52.2	47.8	36.3	890.0	
80°	68.0	66.1	60.2	50.5	40.7	32.1	26.9	26.7	916.7	
85°	51.8	50.0	44.6	35.3	24.7	15.7	10.1	18.3	935.0	
90°	40.8	39.2	34.4	26.0	15.9	6.9	1.8	13.1	948.2	
95°	34.8	33.5	29.7	22.7	13.6	5.1	1.6	11.2	959.3	
100°	29.9	28.8	25.4	19.2	11.3	3.7	1.4	9.4	968.7	
105°	25.7	24.7	21.4	16.1	8.8	2.4	1.2	7.7	976.4	
110°	22.1	20.9	18.0	13.0	6.6	1.4	1.1	6.1	982.5	
115°	19.0	17.8	15.0	10.4	4.7	1.2	1.1	4.9	987.4	
120°	16.0	14.8	12.2	7.9	3.1	1.2	1.0	3.8	991.2	
125°	13.0	11.9	9.4	5.6	1.7	1.1	0.9	2.7	993.9	
130°	10.1	9.1	6.9	3.7	1.4	1.1	1.0	1.9	995.9	
135°	7.3	6.5	4.6	2.1	1.4	1.1	1.1	1.3	997.1	
140°	4.8	4.1	2.7	1.7	1.4	1.1	1.1	0.8	998.0	
145°	2.6	2.3	1.9	1.7	1.4	1.2	1.2	0.5	998.5	
150°	2.0	2.0	1.9	1.6	1.3	1.3	1.3	0.4	998.9	
155°	1.9	1.9	1.7	1.6	1.4	1.4	1.4	0.4	999.3	
160°	1.7	1.7	1.6	1.4	1.4	1.4	1.4	0.3	999.6	
165°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.2	999.8	
170°	1.3	1.4	1.4	1.4	1.4	1.4	1.4	0.1	999.9	
175°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.1	1000.0	
180°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	1000.0	

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

<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 1590 B = 87	H(C0) = 21	H(C180) = 21	H(C90) = 21	H(C270) = 21
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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°		10432.0	10496.6	10573.4	10794.5	11260.4	11884.0	12708.4
50°		9894.0	9930.7	10004.9	10157.5	10541.7	11133.9	12037.3
55°		9381.9	9392.8	9450.4	9524.8	9821.7	10339.3	11291.2
60°		8875.8	8868.3	8883.8	8911.9	9107.6	9535.1	10495.3
65°		8430.8	8410.6	8339.4	8286.5	8402.8	8724.5	9661.6
70°		8048.8	8003.3	7795.7	7648.4	7662.0	7870.8	8766.0
75°		7650.5	7578.2	7287.5	6991.9	6818.5	6888.8	7701.3
80°		7228.3	7108.3	6817.0	6291.5	5853.3	5658.5	6297.9
85°		6920.2	6773.7	6457.0	5798.1	4928.5	4223.0	4398.3

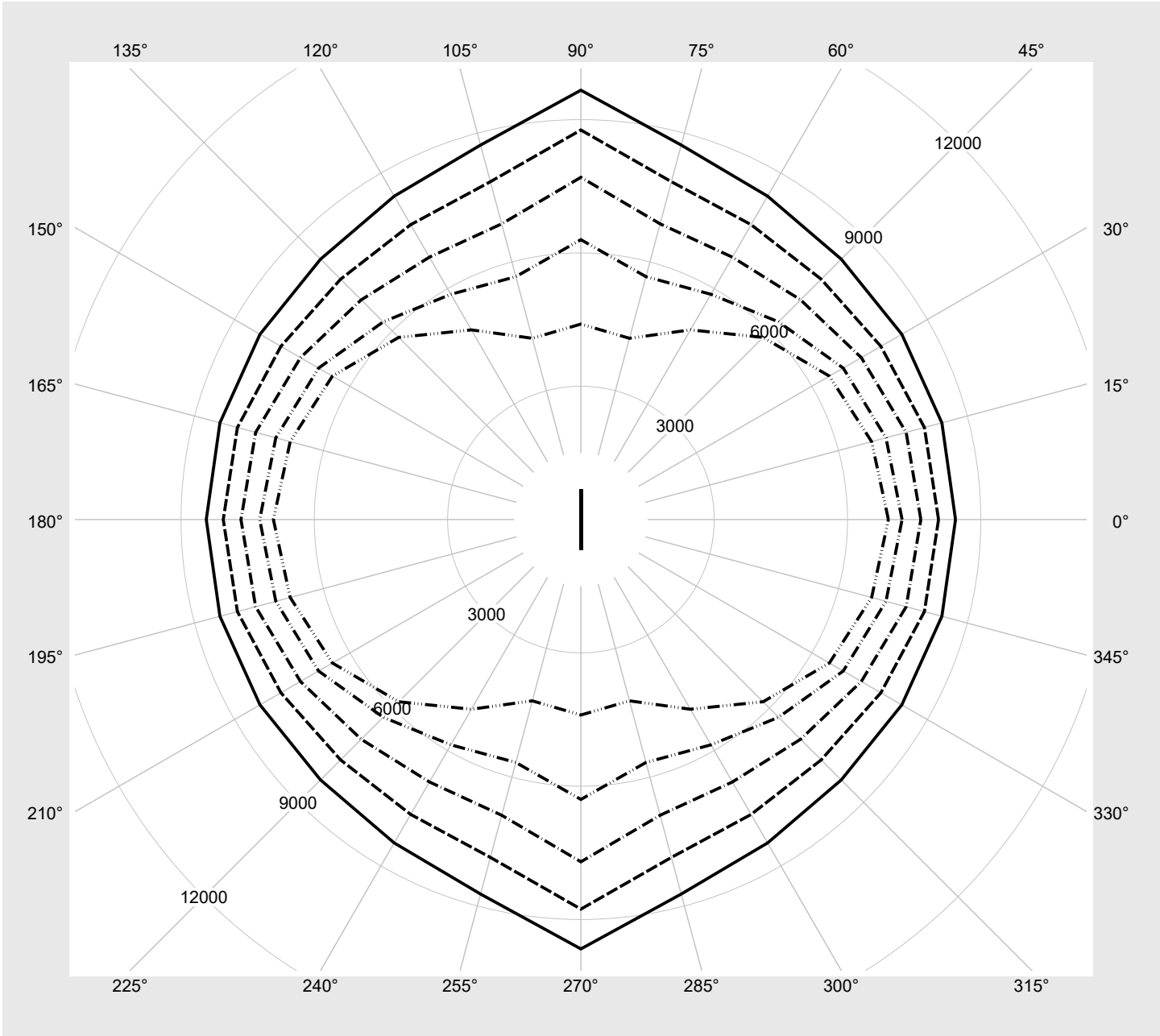
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**Leuchtdichten in cd/m²**

$\gamma$ 65°	$\gamma$ 70°	$\gamma$ 75°	$\gamma$ 80°	$\gamma$ 85°
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<b>Dimmstufen-Tabelle</b>	Umgebungstemperatur: 25°C	<b>sITeco</b>
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	6050	34.6
95	241	252	5756	33.0
90	227	250	5434	31.1
85	214	248	5133	29.4
80	201	245	4831	27.7
75	188	243	4526	26.0
70	176	241	4243	24.5
65	163	238	3935	22.8
60	150	235	3626	21.2
55	138	232	3338	19.6
50	125	228	3025	18.0
45	113	224	2734	16.4
40	100	220	2417	14.8
35	88	215	2123	13.1
30	75	209	1806	11.5
25	63	203	1510	10.0
20	51	195	1211	8.4
15	39	185	911	7.0
10	27	172	609	5.5
5	15	150	306	4.1
2	8	127	129	3.2