

## Lichttechnischer Prüfbefund

**Familie**  
**Monsun® 12**

**Bestell-Nr.: 51FE10DP480R**  
**EAN: 4058352539514**

**LP-Nummer**  
**59015\_4**



**Ausführung** Prismenwanne, opal, PMMA, breit strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 8000 lm  
 Systemleistung = 44.3 W  
 Lichtausbeute = 180.6 lm/W

**Seriendokumentation**  
28.07.2021

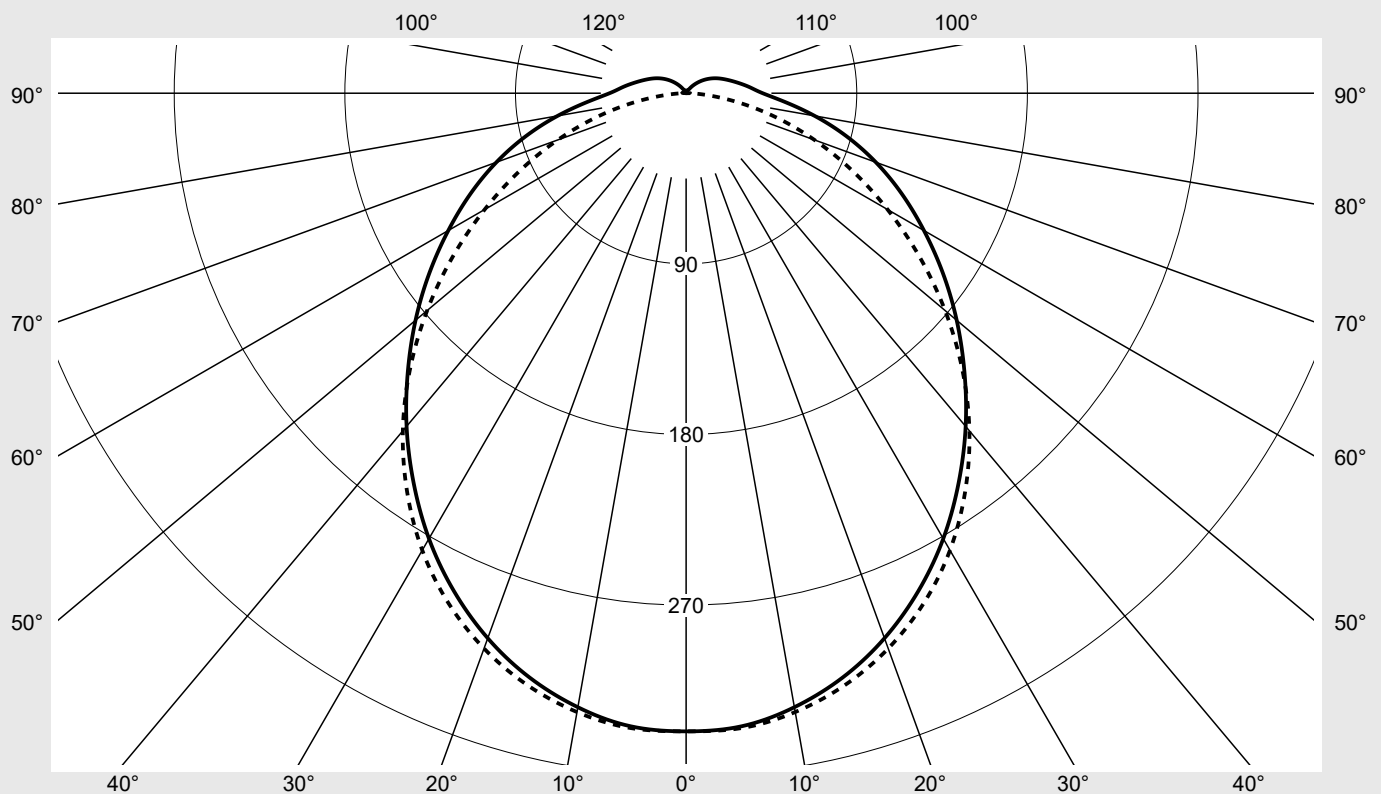
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**Lichtstärke in cd/klm**

**C180-0**

**C270-90**

**Imax: 337 cd/klm**



**Klassifizierungen**

DIN 5040 A 4 1  
 CIE N1=47 N2=76 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 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°	336.6	336.6	336.6	336.6	336.6	336.6	336.6	2.0	2.0
5°	335.2	335.1	333.2	334.3	335.7	335.7	336.1	16.0	18.0
10°	328.8	330.1	328.0	329.4	330.8	330.9	331.4	31.4	49.4
15°	319.0	321.3	319.3	320.8	322.3	322.7	323.3	45.6	95.0
20°	305.9	308.9	307.1	308.7	310.4	311.0	311.7	58.0	152.9
25°	289.8	293.4	291.5	293.1	295.0	295.9	296.7	68.0	221.0
30°	271.3	275.1	273.1	274.3	276.2	277.4	278.4	75.4	296.4
35°	250.7	254.3	252.4	252.9	254.4	255.5	256.6	79.8	376.2
40°	229.4	232.7	230.3	229.8	230.5	231.3	232.4	81.4	457.6
45°	207.6	210.4	207.6	205.2	204.9	204.7	206.0	80.1	537.6
50°	186.3	188.5	185.0	181.0	178.9	177.2	178.3	76.5	614.1
55°	165.3	166.9	162.7	157.6	153.3	149.9	150.2	71.0	685.1
60°	144.9	145.8	140.7	134.7	128.7	123.6	122.7	63.9	748.9
65°	125.5	125.6	119.9	112.7	105.4	99.0	96.8	55.8	804.7
70°	106.5	105.7	100.0	91.3	83.0	75.5	72.0	46.8	851.5
75°	87.5	86.0	80.8	71.2	61.8	53.7	49.1	37.2	888.7
80°	68.8	66.9	62.0	52.7	42.3	33.4	27.9	27.5	916.2
85°	52.2	50.3	45.3	36.7	26.2	16.7	10.8	18.8	935.0
90°	40.4	38.9	34.5	26.5	16.4	7.3	2.2	13.2	948.3
95°	34.1	32.8	29.3	22.8	14.2	5.7	1.9	11.2	959.5
100°	29.1	28.1	25.5	19.6	11.7	4.0	1.6	9.4	968.8
105°	25.0	24.3	21.6	16.3	9.2	2.6	1.4	7.7	976.5
110°	21.5	21.0	18.2	13.2	6.8	1.5	1.2	6.2	982.7
115°	18.5	17.9	15.1	10.5	4.8	1.3	1.2	4.9	987.6
120°	15.6	14.8	12.2	7.9	3.1	1.3	1.1	3.8	991.4
125°	12.7	11.9	9.4	5.6	1.7	1.1	1.0	2.7	994.1
130°	9.8	9.0	6.8	3.5	1.4	1.1	1.0	1.9	996.0
135°	7.0	6.3	4.4	1.9	1.4	1.1	1.0	1.2	997.3
140°	4.5	3.9	2.4	1.7	1.3	1.1	1.0	0.8	998.1
145°	2.3	2.1	1.9	1.6	1.4	1.2	1.2	0.5	998.6
150°	1.9	1.9	1.8	1.5	1.4	1.3	1.2	0.4	999.0
155°	1.8	1.7	1.6	1.5	1.4	1.3	1.3	0.3	999.3
160°	1.6	1.6	1.5	1.4	1.3	1.3	1.3	0.3	999.6
165°	1.4	1.4	1.4	1.3	1.3	1.3	1.3	0.2	999.8
170°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.1	999.9
175°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.1	1000.0
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	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	21,1	22,8	21,4	23,1	23,4	21,0	22,7	21,4	23,0	23,4
	3H	22,9	24,4	23,2	24,8	25,1	22,4	24,0	22,8	24,3	24,7
	4H	23,7	25,2	24,1	25,5	25,9	23,0	24,4	23,4	24,8	25,2
	6H	24,4	25,8	24,9	26,2	26,6	23,4	24,7	23,8	25,1	25,5
	8H	24,8	26,1	25,2	26,5	26,9	23,5	24,8	23,9	25,2	25,6
	12H	25,1	26,3	25,6	26,7	27,1	23,6	24,8	24,0	25,2	25,6
4H	2H	21,8	23,3	22,2	23,6	24,0	21,7	23,2	22,1	23,5	23,9
	3H	23,8	25,0	24,2	25,4	25,8	23,3	24,6	23,8	25,0	25,4
	4H	24,8	25,9	25,2	26,3	26,7	24,0	25,2	24,5	25,6	26,0
	6H	25,7	26,7	26,1	27,1	27,5	24,5	25,5	25,0	25,9	26,4
	8H	26,1	27,0	26,5	27,4	27,9	24,7	25,6	25,1	26,0	26,5
	12H	26,5	27,3	27,0	27,8	28,2	24,8	25,6	25,3	26,1	26,6
8H	4H	25,1	26,0	25,5	26,5	26,9	24,4	25,4	24,9	25,8	26,3
	6H	26,2	26,9	26,7	27,4	27,9	25,1	25,9	25,6	26,3	26,8
	8H	26,7	27,4	27,2	27,9	28,4	25,3	26,0	25,8	26,5	27,0
	12H	27,2	27,8	27,8	28,3	28,9	25,5	26,1	26,0	26,6	27,1
12H	4H	25,1	26,0	25,6	26,4	26,9	24,5	25,4	25,0	25,8	26,3
	6H	26,3	26,9	26,8	27,4	27,9	25,3	25,9	25,8	26,4	26,9
	8H	26,9	27,4	27,4	27,9	28,5	25,5	26,1	26,0	26,6	27,2

<b>Leuchtdichten-Tabelle</b>	Max. für $\gamma \geq 65^\circ$	Lichttechnische Abmessungen in mm:	L = 1590 B = 87	H(C0) = 21 H(C90) = 21	H(C180) = 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°		13676.5	13914.5	13969.6	14221.5	14800.8	15570.9	16628.4	
50°		13017.4	13226.9	13241.3	13407.8	13902.7	14628.3	15793.6	
55°		12394.4	12578.8	12539.3	12638.8	13006.2	13644.9	14867.0	
60°		11814.7	11963.6	11851.0	11873.2	12118.0	12652.2	13875.7	
65°		11316.4	11400.0	11222.2	11125.8	11234.7	11669.3	12878.0	
70°		10827.5	10836.3	10614.2	10326.2	10302.5	10581.2	11755.6	
75°		10285.4	10211.5	9998.0	9516.2	9251.6	9365.1	10448.7	
80°		9677.9	9520.7	9290.1	8690.9	8051.5	7797.1	8656.5	
85°		9208.1	9011.1	8668.2	7960.4	6932.6	5974.5	6243.2	

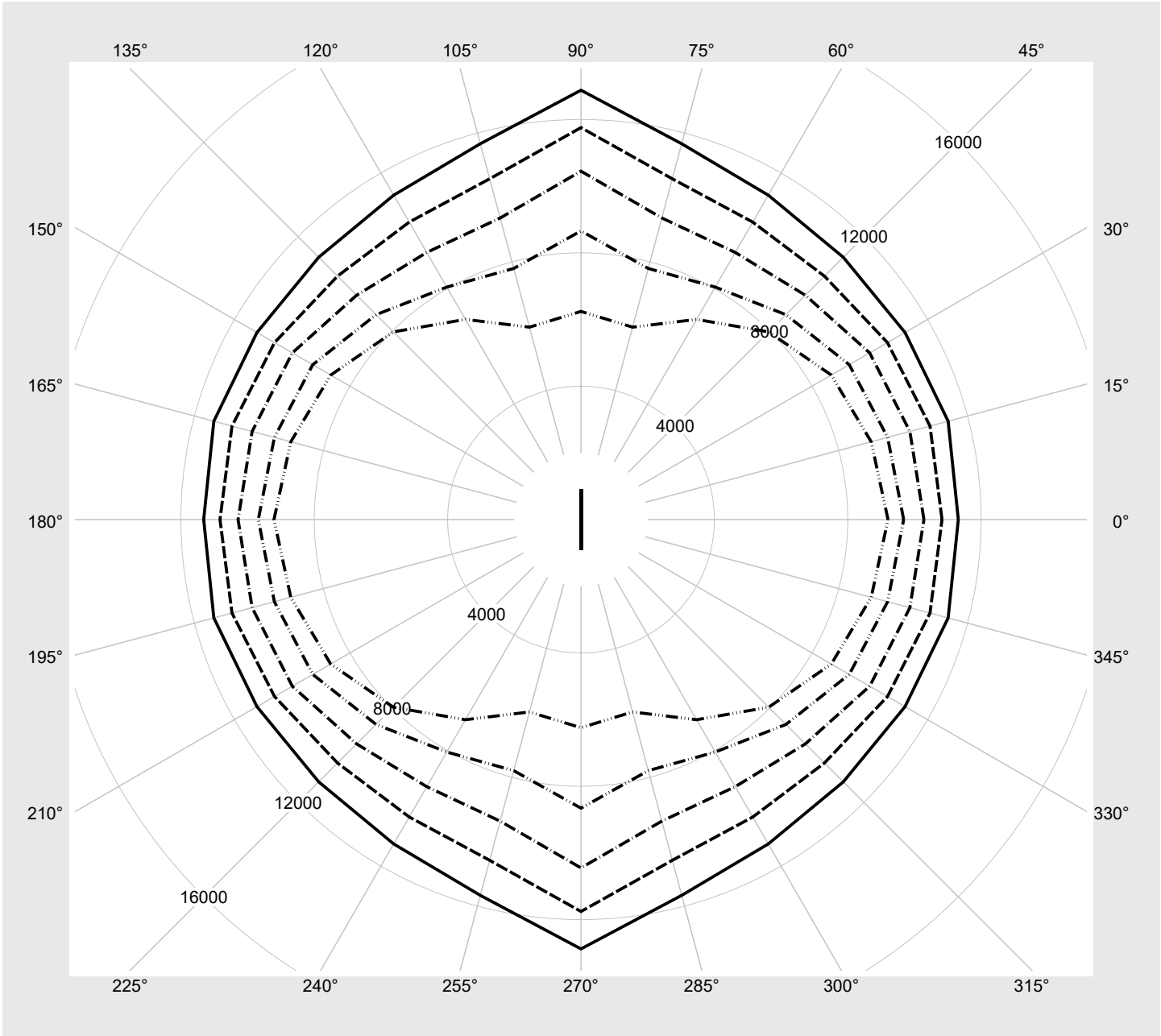
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**Leuchtdichten in cd/m²**

$\gamma$ 65°	$\gamma$ 70°	$\gamma$ 75°	$\gamma$ 80°	$\gamma$ 85°
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**siteco**



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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	8000	44.3
95	241	252	7599	42.0
90	228	250	7196	39.9
85	215	248	6792	37.7
80	202	246	6385	35.5
75	190	243	6012	33.5
70	177	241	5602	31.3
65	164	238	5191	29.2
60	152	235	4809	27.2
55	139	232	4394	25.1
50	127	229	4010	23.0
45	114	225	3591	20.8
40	102	221	3203	18.9
35	90	216	2814	17.0
30	77	210	2391	14.8
25	65	204	1999	12.9
20	53	197	1605	10.9
15	41	187	1211	8.9
10	29	175	814	6.8
5	17	155	416	4.7
1	7	122	84	3.1