

## Lichttechnischer Prüfbefund

**Familie**  
**Monsun® 12**

**Bestell-Nr.: 51FP207P430H**  
**EAN: 4058352405703**

**LP-Nummer**  
**59060\_17**



**Ausführung** Prismenwanne, opal, PC, breit strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG  
**Bemessungswerte** Nettolichtstrom = 3990 lm  
 Systemleistung = 24.8 W  
 Lichtausbeute = 160.9 lm/W

**Seriendokumentation**  
25.08.2020

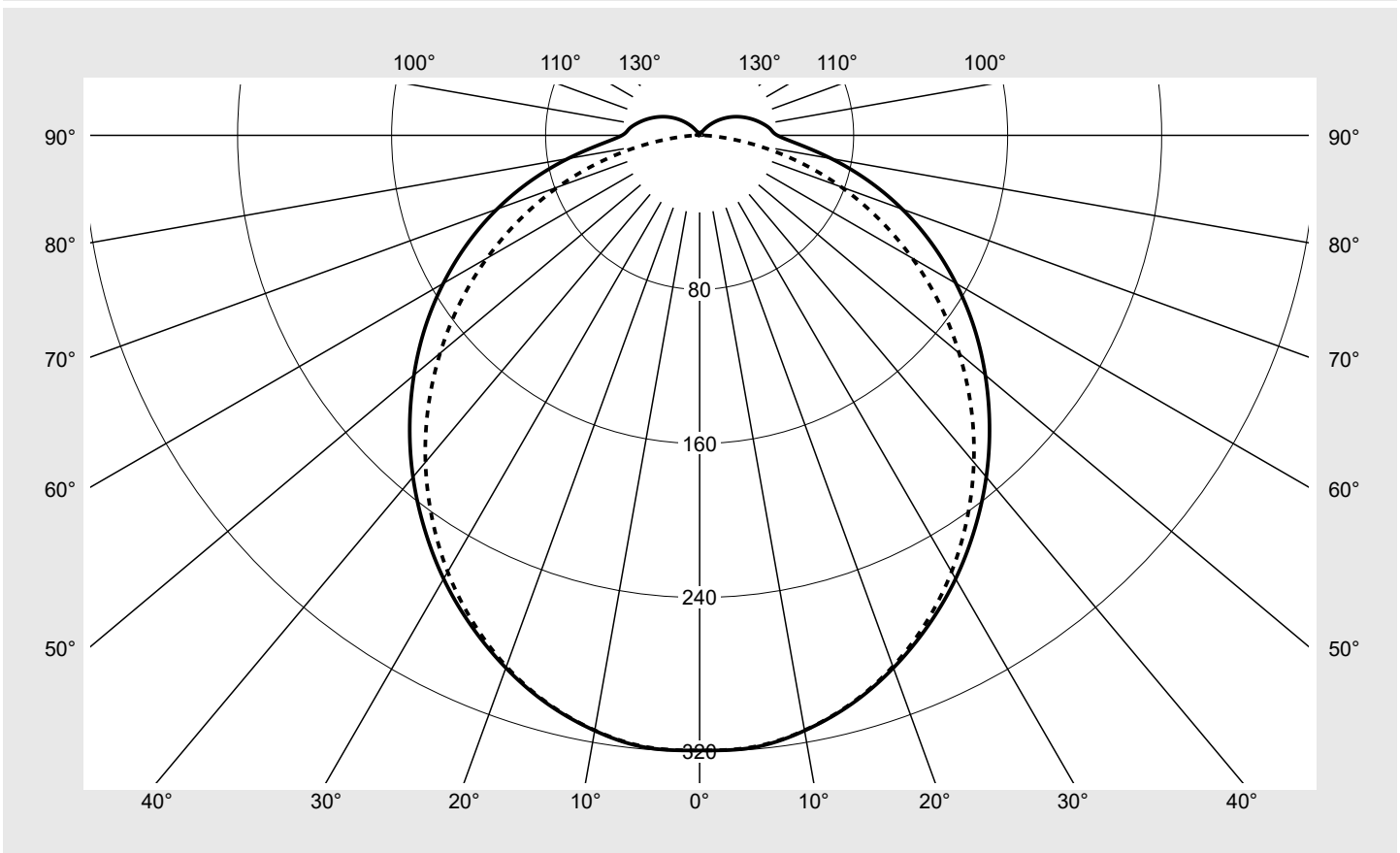
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**Lichtstärke in cd/klm**

**C180-0**

**C270-90**

**Imax: 319 cd/klm**



**Klassifizierungen**

DIN 5040 A 4 1  
 CIE N1=45 N2=75 N3=93  
 N4=94 N5=100

**Leuchtenbetriebswirkungsgrade**

$\eta_{LB}$  100,0%  
 $\phi_u$  93,7%  
 $\phi_o$  6,3%

**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°	319.4	319.4	319.4	319.4	319.4	319.4	319.4	1.9	1.9	1.9
5°	319.1	317.8	316.0	317.2	318.6	318.6	318.8	15.2	17.1	17.1
10°	313.9	312.8	311.0	312.1	313.5	313.5	313.7	29.8	46.9	46.9
15°	305.6	304.7	302.7	303.7	305.0	304.9	305.2	43.2	90.1	90.1
20°	294.3	293.5	291.4	292.2	293.3	293.1	293.5	54.9	145.0	145.0
25°	280.9	280.2	277.7	277.9	278.8	278.5	278.8	64.6	209.6	209.6
30°	265.9	265.3	262.4	261.6	261.9	261.4	261.7	72.0	281.6	281.6
35°	249.2	248.5	245.6	243.7	242.9	242.2	242.4	77.0	358.5	358.5
40°	231.6	230.8	227.5	224.6	222.7	221.4	221.6	79.5	438.0	438.0
45°	212.9	211.8	208.5	204.2	201.3	199.0	199.4	79.5	517.5	517.5
50°	193.7	192.3	188.8	183.7	179.4	175.9	176.0	77.3	594.9	594.9
55°	174.1	172.4	168.8	162.7	157.2	152.3	152.1	73.1	667.9	667.9
60°	153.8	152.1	148.1	141.4	134.9	128.8	127.5	66.9	734.9	734.9
65°	133.1	131.4	127.0	119.9	112.8	105.5	102.8	59.2	794.0	794.0
70°	112.0	110.4	105.0	98.0	90.2	82.2	78.2	49.9	843.9	843.9
75°	90.5	88.8	83.0	75.7	67.3	58.8	53.6	39.3	883.2	883.2
80°	69.4	67.4	62.0	54.0	45.3	36.4	30.4	28.3	911.6	911.6
85°	51.2	49.1	43.8	35.9	26.7	17.7	11.3	18.6	930.2	930.2
90°	40.3	38.3	33.0	25.3	16.4	7.5	1.9	12.9	943.1	943.1
95°	36.9	35.1	30.2	22.8	14.1	5.6	1.6	11.6	954.7	954.7
100°	33.7	31.9	27.1	20.1	11.9	4.0	1.5	10.1	964.8	964.8
105°	30.1	28.5	23.8	17.3	9.5	2.6	1.3	8.6	973.4	973.4
110°	26.5	24.6	20.5	14.4	7.3	1.5	1.2	7.1	980.4	980.4
115°	22.8	21.1	17.3	11.6	5.2	1.3	1.2	5.7	986.1	986.1
120°	19.1	17.5	14.1	8.9	3.4	1.3	1.1	4.4	990.5	990.5
125°	15.4	13.9	10.8	6.2	1.7	1.2	1.0	3.2	993.6	993.6
130°	11.8	10.5	7.7	3.9	1.4	1.2	1.0	2.2	995.8	995.8
135°	8.3	7.2	5.0	2.0	1.4	1.2	1.1	1.4	997.2	997.2
140°	5.1	4.3	2.5	1.6	1.3	1.1	1.0	0.8	998.0	998.0
145°	2.4	2.0	1.8	1.6	1.4	1.2	1.2	0.5	998.5	998.5
150°	1.9	1.9	1.8	1.5	1.4	1.3	1.2	0.4	999.0	999.0
155°	1.8	1.8	1.6	1.5	1.4	1.3	1.3	0.4	999.3	999.3
160°	1.6	1.6	1.5	1.5	1.4	1.4	1.3	0.3	999.6	999.6
165°	1.5	1.5	1.4	1.4	1.4	1.4	1.3	0.2	999.8	999.8
170°	1.4	1.4	1.4	1.4	1.4	1.4	1.3	0.1	999.9	999.9
175°	1.3	1.3	1.3	1.4	1.4	1.4	1.3	0.1	1000.0	1000.0
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	1000.0	1000.0

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

<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°		6997.5	6987.8	6995.7	7060.0	7251.3	7549.1	8026.2	
50°		6750.7	6730.9	6741.5	6788.0	6955.6	7242.7	7773.9	
55°		6511.0	6479.1	6488.8	6508.2	6650.3	6915.7	7506.2	
60°		6254.8	6223.2	6220.6	6219.9	6333.9	6572.7	7191.2	
65°		5985.4	5951.9	5924.6	5905.9	5997.4	6197.2	6819.7	
70°		5679.0	5641.9	5563.1	5529.0	5580.0	5741.7	6361.9	
75°		5304.7	5257.4	5126.6	5047.1	5023.5	5117.5	5697.1	
80°		4868.0	4782.1	4634.7	4434.9	4298.6	4238.9	4705.0	
85°		4511.7	4391.0	4184.2	3882.1	3514.7	3141.2	3254.4	

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**Leuchtdichten in cd/m²**

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