



Photometric test report

Family Monsun® 12	Order number: 51FP108P430H EAN: 4058352391396	LP number 58939_106
	Version prismatic diffuser, opal, PMMA, wide distribution	serial documentation 12.12.2023
	Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Rated values Net luminous flux = 3970 lm Power consumption = 22.2 W Luminous efficacy = 178.8 lm/W	
		

Luminous intensity in cd/klm C180-0 C270-90 Imax: 340 cd/klm



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

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	94.2%
ϕ_o	5.8%

Measurement conditions
 DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
		siteco

C-planes γ	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Luminous intensity in cd/klm								Luminous flux 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-Table	Standard room	siteco
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Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	View crosswise (C0)					View endwise (C90)					
x	y										
2H	2H	18.6	20.3	19.0	20.6	20.9	18.6	20.3	19.0	20.6	20.9
	3H	20.3	21.9	20.7	22.2	22.6	20.0	21.5	20.3	21.9	22.2
	4H	21.2	22.6	21.6	23.0	23.3	20.5	22.0	20.9	22.3	22.7
	6H	21.9	23.3	22.3	23.6	24.0	20.9	22.2	21.3	22.6	23.0
	8H	22.3	23.5	22.7	23.9	24.3	21.0	22.3	21.4	22.6	23.0
	12H	22.6	23.8	23.0	24.2	24.6	21.0	22.3	21.5	22.6	23.1
4H	2H	19.3	20.8	19.7	21.1	21.5	19.3	20.7	19.7	21.1	21.5
	3H	21.2	22.5	21.7	22.9	23.3	20.9	22.1	21.3	22.5	22.9
	4H	22.2	23.3	22.6	23.7	24.2	21.5	22.6	21.9	23.1	23.5
	6H	23.1	24.1	23.6	24.5	25.0	22.0	23.0	22.4	23.4	23.9
	8H	23.5	24.5	24.0	24.9	25.4	22.1	23.1	22.6	23.5	24.0
	12H	24.0	24.8	24.4	25.2	25.7	22.2	23.1	22.7	23.5	24.0
8H	4H	22.5	23.4	23.0	23.9	24.4	21.9	22.8	22.4	23.3	23.7
	6H	23.6	24.4	24.1	24.8	25.3	22.5	23.3	23.0	23.8	24.3
	8H	24.1	24.8	24.6	25.3	25.8	22.8	23.4	23.2	23.9	24.4
	12H	24.7	25.3	25.2	25.8	26.3	22.9	23.5	23.4	24.0	24.5
12H	4H	22.6	23.4	23.1	23.9	24.3	22.0	22.8	22.5	23.3	23.8
	6H	23.7	24.4	24.2	24.9	25.4	22.7	23.4	23.2	23.8	24.4
	8H	24.3	24.9	24.8	25.4	25.9	23.0	23.5	23.5	24.0	24.6

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1590	H(C0) = 21	H(C180) = 21
			B = 87	H(C90) = 21	H(C270) = 21

C-planes	γ	Luminance in cd/m ²							
		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°		6845.4	6887.9	6938.2	7083.3	7389.0	7798.3	8339.3	
50°		6492.4	6516.5	6565.2	6665.4	6917.4	7306.1	7898.8	
55°		6156.4	6163.6	6201.3	6250.2	6445.0	6784.6	7409.3	
60°		5824.3	5819.4	5829.5	5848.0	5976.4	6256.9	6887.0	
65°		5532.3	5519.0	5472.3	5437.6	5513.9	5725.0	6339.9	
70°		5281.6	5251.8	5115.5	5018.9	5027.8	5164.8	5752.3	
75°		5020.2	4972.8	4782.0	4588.1	4474.3	4520.4	5053.6	
80°		4743.2	4664.5	4473.3	4128.4	3840.9	3713.1	4132.7	
85°		4541.1	4444.9	4237.1	3804.7	3234.1	2771.1	2886.2	

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Family
Monsun® 12

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

