

Photometric test report

Family
Monsun® 12

Order number: **51FP12MP480H**
EAN: **4058352376461**

LP number
59014_3



Version prismatic diffuser, opal, PMMA, medium distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG Multilumen
Rated values Net luminous flux = 7990 lm
Power consumption = 45.4 W
Luminous efficacy = 176 lm/W

serial
documentation
08.04.2020

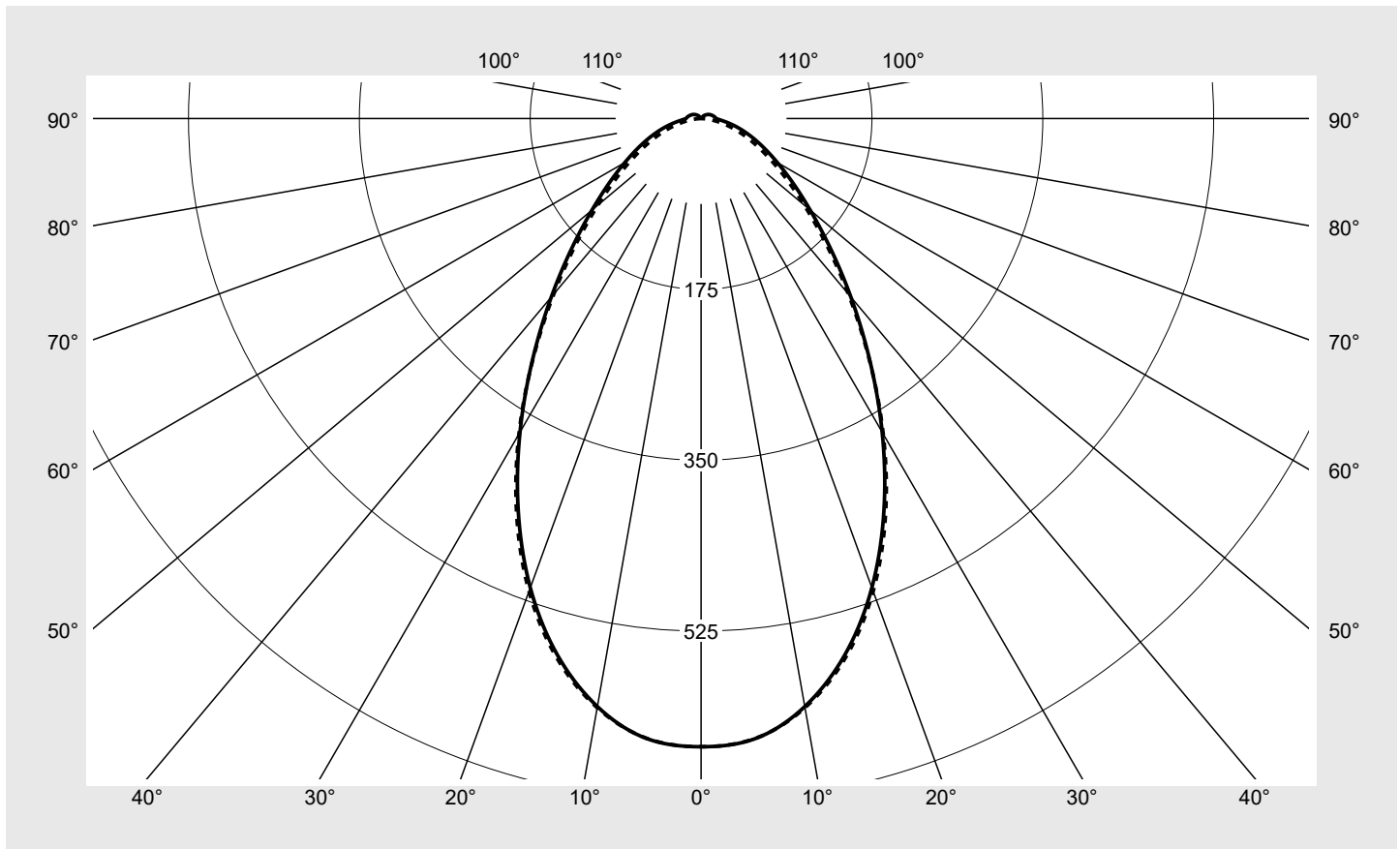
sitEco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 643 cd/klm



Classifications

DIN 5040 A 5 1
CIE N1=65 N2=88 N3=97
N4=97 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 97.2%
 ϕ_o 2.8%

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°	643.5	643.5	643.5	643.5	643.5	643.5	643.5	3.8	3.8
5°	637.6	635.4	631.6	634.4	637.3	637.0	637.4	30.4	34.2
10°	611.6	610.1	606.4	609.4	612.4	612.4	612.8	58.1	92.3
15°	568.8	568.0	564.7	567.5	570.7	571.1	571.7	80.7	173.0
20°	511.5	511.1	508.3	510.7	513.9	514.6	515.3	96.0	269.0
25°	443.2	443.1	440.7	442.6	445.5	446.1	447.1	102.8	371.8
30°	371.0	371.1	368.7	369.7	371.9	372.2	373.1	101.7	473.5
35°	300.7	300.7	298.6	298.4	299.2	299.0	299.8	94.1	567.6
40°	238.7	238.3	236.6	235.1	234.9	234.3	234.7	83.1	650.7
45°	186.7	186.0	184.5	182.3	181.1	179.9	180.6	70.9	721.6
50°	145.8	145.0	143.8	141.4	139.3	137.5	137.9	59.4	781.0
55°	114.7	113.7	112.7	110.1	107.4	105.2	105.3	49.3	830.4
60°	90.2	89.4	88.3	85.7	82.9	80.3	79.9	40.5	870.8
65°	71.0	70.3	69.1	66.5	63.6	60.7	59.7	32.8	903.6
70°	55.2	54.7	53.0	50.5	47.5	44.4	43.0	25.7	929.3
75°	41.7	41.3	39.3	36.7	33.4	30.3	28.5	19.1	948.3
80°	30.0	29.4	27.6	24.6	21.1	17.9	15.8	12.9	961.2
85°	20.6	20.0	18.3	15.2	11.4	8.0	5.8	7.8	969.1
90°	15.7	15.1	13.3	10.2	6.4	3.0	0.9	5.1	974.2
95°	14.4	13.8	12.1	9.2	5.6	2.3	0.8	4.6	978.8
100°	13.2	12.6	10.9	8.1	4.8	1.7	0.7	4.1	982.9
105°	12.0	11.4	9.7	7.0	3.9	1.1	0.7	3.5	986.3
110°	10.8	10.1	8.4	5.9	3.0	0.8	0.6	2.9	989.2
115°	9.6	8.9	7.3	4.9	2.3	0.8	0.7	2.4	991.7
120°	8.3	7.6	6.1	3.9	1.6	0.8	0.7	1.9	993.6
125°	6.9	6.2	4.8	2.9	1.1	0.8	0.8	1.5	995.1
130°	5.5	4.9	3.7	2.2	1.1	1.0	0.9	1.1	996.2
135°	4.3	3.8	2.8	1.6	1.3	1.1	1.1	0.9	997.1
140°	3.1	2.8	2.1	1.6	1.5	1.3	1.3	0.7	997.7
145°	2.3	2.1	1.9	1.8	1.6	1.5	1.5	0.6	998.3
150°	2.1	2.0	2.0	1.8	1.6	1.6	1.6	0.5	998.8
155°	2.1	2.0	1.9	1.8	1.7	1.6	1.6	0.4	999.2
160°	1.9	1.9	1.8	1.7	1.6	1.6	1.6	0.3	999.5
165°	1.6	1.7	1.7	1.6	1.6	1.6	1.6	0.2	999.8
170°	1.5	1.6	1.6	1.6	1.6	1.6	1.6	0.1	999.9
175°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.1	1000.0
180°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	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	19.1	20.6	19.5	20.9	21.2	19.2	20.7	19.6	21.0	21.4
	3H	20.1	21.4	20.5	21.8	22.1	20.1	21.5	20.5	21.8	22.2
	4H	20.5	21.8	20.9	22.2	22.5	20.5	21.8	20.9	22.1	22.5
	6H	20.9	22.1	21.3	22.4	22.8	20.7	21.9	21.2	22.3	22.7
	8H	21.2	22.2	21.6	22.6	23.0	20.9	21.9	21.3	22.3	22.7
	12H	21.3	22.3	21.7	22.6	23.1	20.9	21.9	21.3	22.3	22.7
4H	2H	19.5	20.8	19.9	21.1	21.5	19.7	20.9	20.1	21.3	21.6
	3H	20.7	21.8	21.2	22.2	22.6	20.7	21.8	21.2	22.2	22.6
	4H	21.3	22.3	21.7	22.7	23.1	21.2	22.2	21.6	22.6	23.0
	6H	21.8	22.6	22.3	23.1	23.5	21.5	22.4	22.0	22.8	23.3
	8H	22.0	22.8	22.5	23.2	23.7	21.6	22.4	22.1	22.8	23.3
	12H	22.3	22.9	22.7	23.4	23.8	21.7	22.4	22.2	22.8	23.3
8H	4H	21.5	22.3	22.0	22.7	23.2	21.4	22.2	21.9	22.6	23.1
	6H	22.1	22.8	22.6	23.2	23.7	21.9	22.5	22.3	22.9	23.4
	8H	22.4	23.0	22.9	23.5	24.0	22.0	22.5	22.5	23.0	23.6
	12H	22.7	23.2	23.2	23.7	24.2	22.1	22.6	22.6	23.1	23.6
12H	4H	21.5	22.2	22.0	22.6	23.1	21.5	22.1	22.0	22.6	23.1
	6H	22.2	22.7	22.7	23.2	23.7	21.9	22.4	22.4	22.9	23.5
	8H	22.5	23.0	23.0	23.5	24.0	22.1	22.6	22.6	23.1	23.6

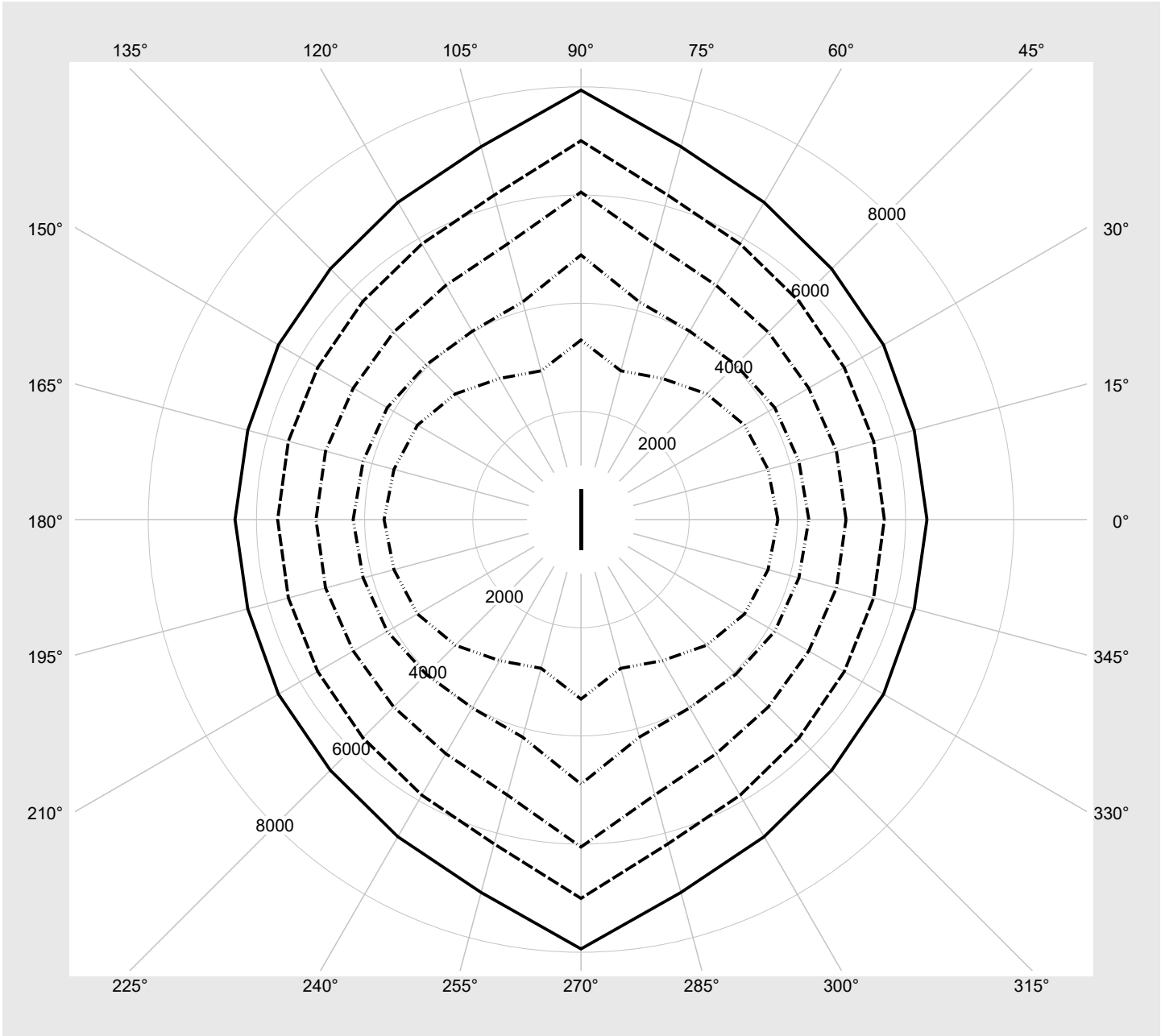
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1590	H(C0) = 21	H(C180) = 21
			B = 87	H(C90) = 21	H(C270) = 21

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°		12285.6	12290.0	12397.8	12619.7	13068.9	13669.3	14559.1	
50°		10175.9	10163.3	10283.2	10462.8	10812.3	11338.9	12196.9	
55°		8586.1	8556.9	8673.2	8815.8	9102.6	9567.7	10410.9	
60°		7349.5	7324.7	7427.1	7546.3	7792.1	8202.3	9024.0	
65°		6396.5	6378.3	6458.8	6554.9	6771.7	7137.9	7938.5	
70°		5608.5	5601.0	5620.7	5704.1	5884.6	6208.0	7004.1	
75°		4899.7	4889.1	4861.7	4899.1	4999.2	5271.5	6054.3	
80°		4212.3	4170.2	4136.7	4046.6	4020.5	4165.7	4891.2	
85°		3640.5	3580.4	3491.3	3285.6	3011.8	2847.4	3318.9	

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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Multilumen Table	environmental temperature: 25°C	sITeco
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	7990	45.4
2	A	C	F	7420	41.9
3	A	D	E	6770	38.0
4	A	D	F	6180	34.6
5	B	C	E	5590	31.2
6	B	C	F	4990	27.8
7	B	D	E	4380	24.5
8	B	D	F	4080	22.9