

Photometric test report

Family
Monsun® 12

Order number: **51FP30DP460H**
EAN: **4058352405727**

LP number
59013_6



Version prismatic diffuser, opal, PA, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 5730 lm
Power consumption = 34.6 W
Luminous efficacy = 165.6 lm/W

serial
documentation
08.04.2020

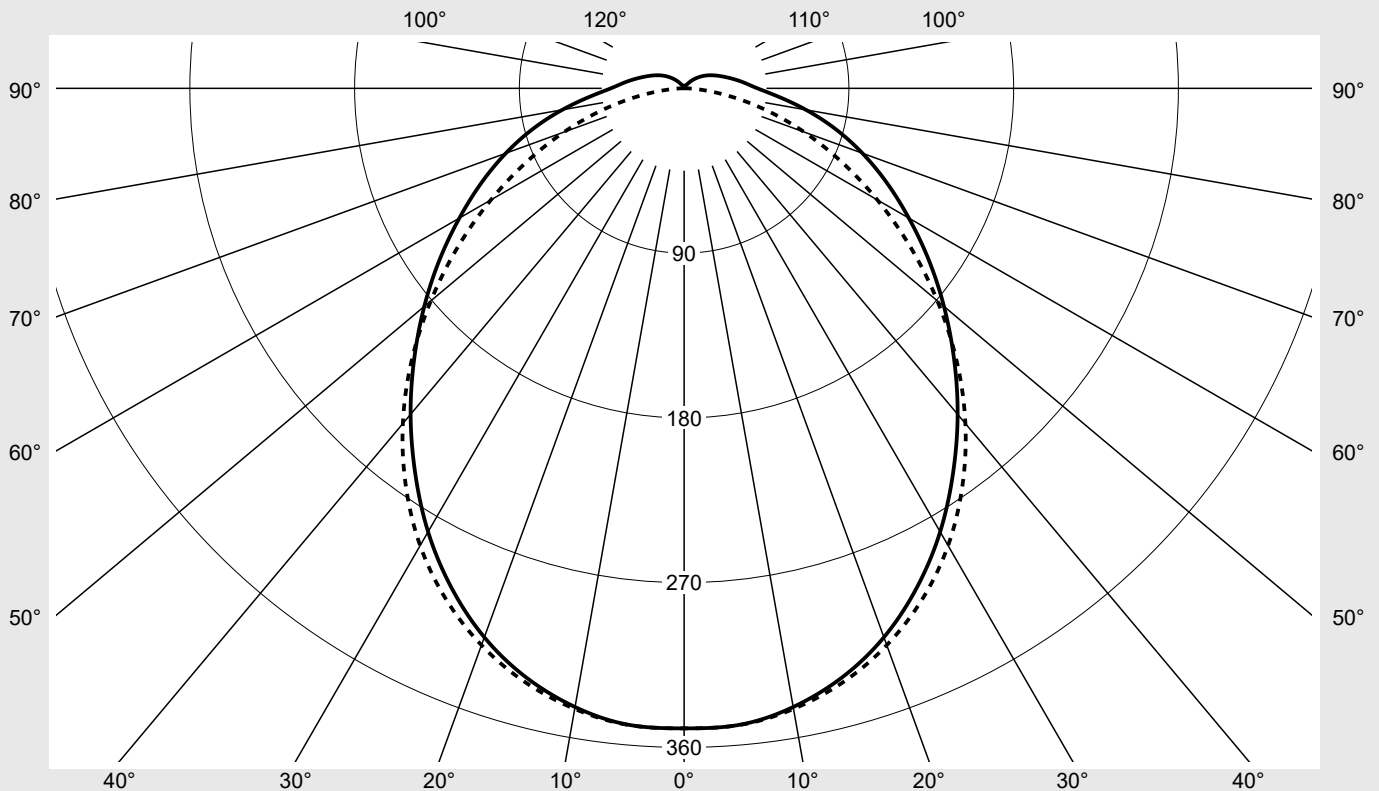
sitEco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 350 cd/klm



Classifications

DIN 5040 A 4 1
CIE N1=48 N2=77 N3=93
N4=95 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 94.6%
 ϕ_o 5.4%

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°	349.6	349.6	349.6	349.6	349.6	349.6	349.6	2.1	2.1
5°	349.0	348.0	345.9	347.3	348.9	348.8	349.1	16.6	18.7
10°	343.1	342.7	340.7	342.3	343.9	344.0	344.2	32.6	51.4
15°	333.2	333.4	331.6	333.4	335.2	335.4	335.8	47.4	98.7
20°	319.1	319.9	318.4	320.5	322.7	323.2	323.7	60.2	158.9
25°	300.9	302.3	301.1	303.5	306.2	307.2	307.9	70.4	229.4
30°	279.7	281.4	280.3	282.7	285.9	287.4	288.4	77.7	307.1
35°	256.2	258.1	257.1	258.9	262.0	263.8	265.1	81.8	388.9
40°	232.4	233.8	232.7	233.2	235.7	237.7	239.0	82.7	471.6
45°	208.5	209.2	207.5	206.2	207.4	208.7	210.5	80.7	552.2
50°	185.3	185.4	183.1	180.1	179.1	179.0	180.6	76.3	628.5
55°	163.0	162.4	159.5	154.8	151.6	149.7	150.8	70.0	698.5
60°	141.8	140.8	136.8	130.7	125.6	121.9	121.9	62.3	760.8
65°	122.2	120.9	115.6	108.1	101.6	96.2	94.8	53.9	814.7
70°	103.6	102.2	95.5	87.0	79.2	72.5	69.8	44.9	859.6
75°	85.5	83.7	76.7	67.5	58.3	50.8	46.8	35.6	895.2
80°	67.6	65.6	59.5	49.4	39.4	31.1	26.3	26.3	921.4
85°	51.6	49.7	44.2	34.8	24.1	15.2	9.9	18.1	939.5
90°	40.0	38.5	33.8	25.4	15.4	6.7	1.8	12.9	952.4
95°	33.4	32.2	28.6	21.7	12.9	4.9	1.6	10.7	963.1
100°	28.1	27.1	23.9	18.1	10.6	3.5	1.4	8.8	971.9
105°	23.6	22.7	19.8	14.8	8.2	2.2	1.2	7.1	979.0
110°	20.0	18.9	16.3	11.8	6.0	1.3	1.1	5.6	984.5
115°	16.9	15.8	13.4	9.2	4.2	1.2	1.1	4.4	988.9
120°	14.0	13.0	10.7	6.9	2.6	1.1	1.0	3.3	992.2
125°	11.3	10.3	8.1	4.8	1.5	1.1	0.9	2.4	994.6
130°	8.7	7.8	5.8	3.1	1.3	1.0	1.0	1.7	996.2
135°	6.2	5.5	3.8	1.8	1.4	1.0	1.0	1.1	997.4
140°	4.0	3.4	2.2	1.6	1.4	1.1	1.1	0.7	998.1
145°	2.3	2.0	1.8	1.6	1.4	1.2	1.2	0.5	998.6
150°	1.9	1.9	1.8	1.6	1.3	1.2	1.2	0.4	999.0
155°	1.8	1.8	1.6	1.5	1.3	1.3	1.3	0.3	999.3
160°	1.6	1.6	1.5	1.3	1.3	1.3	1.3	0.3	999.6
165°	1.3	1.3	1.3	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	1.4	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	19.8	21.5	20.2	21.8	22.1	19.8	21.5	20.2	21.8	22.2
	3H	21.5	23.1	21.9	23.4	23.8	21.2	22.7	21.6	23.0	23.4
	4H	22.4	23.8	22.8	24.2	24.5	21.7	23.1	22.1	23.5	23.9
	6H	23.1	24.5	23.5	24.8	25.2	22.0	23.4	22.4	23.8	24.1
	8H	23.5	24.7	23.9	25.1	25.5	22.2	23.4	22.6	23.8	24.2
	12H	23.8	25.0	24.2	25.4	25.8	22.2	23.4	22.7	23.8	24.2
4H	2H	20.5	21.9	20.9	22.3	22.7	20.5	21.9	20.9	22.3	22.7
	3H	22.4	23.7	22.8	24.0	24.5	22.0	23.3	22.5	23.7	24.1
	4H	23.4	24.5	23.8	24.9	25.3	22.7	23.8	23.1	24.2	24.6
	6H	24.3	25.3	24.8	25.7	26.2	23.1	24.1	23.6	24.5	25.0
	8H	24.7	25.6	25.2	26.1	26.6	23.3	24.2	23.7	24.6	25.1
	12H	25.2	26.0	25.6	26.4	26.9	23.4	24.2	23.9	24.7	25.1
8H	4H	23.7	24.6	24.2	25.1	25.5	23.1	24.0	23.5	24.4	24.9
	6H	24.8	25.6	25.3	26.0	26.5	23.7	24.4	24.2	24.9	25.4
	8H	25.3	26.0	25.8	26.5	27.0	23.9	24.6	24.4	25.0	25.6
	12H	25.9	26.5	26.4	27.0	27.5	24.0	24.6	24.5	25.1	25.7
12H	4H	23.7	24.6	24.2	25.0	25.5	23.2	24.0	23.6	24.4	24.9
	6H	24.9	25.6	25.4	26.0	26.5	23.8	24.5	24.3	25.0	25.5
	8H	25.5	26.1	26.0	26.6	27.1	24.1	24.7	24.6	25.2	25.7

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°		9836.9	9910.3	9999.4	10237.9	10732.4	11371.5	12172.4	
50°		9273.1	9317.5	9388.3	9555.7	9970.7	10584.2	11458.0	
55°		8755.1	8767.9	8807.6	8891.1	9211.5	9761.5	10688.0	
60°		8281.8	8273.1	8249.6	8255.1	8470.1	8936.5	9870.2	
65°		7893.5	7860.6	7747.6	7647.6	7758.4	8122.4	9034.3	
70°		7546.5	7500.1	7259.7	7051.4	7038.0	7278.3	8152.7	
75°		7196.0	7117.4	6799.0	6460.1	6254.1	6344.7	7140.7	
80°		6804.9	6686.9	6382.1	5832.6	5374.1	5194.9	5832.1	
85°		6520.0	6382.7	6064.6	5405.3	4555.6	3884.4	4107.9	

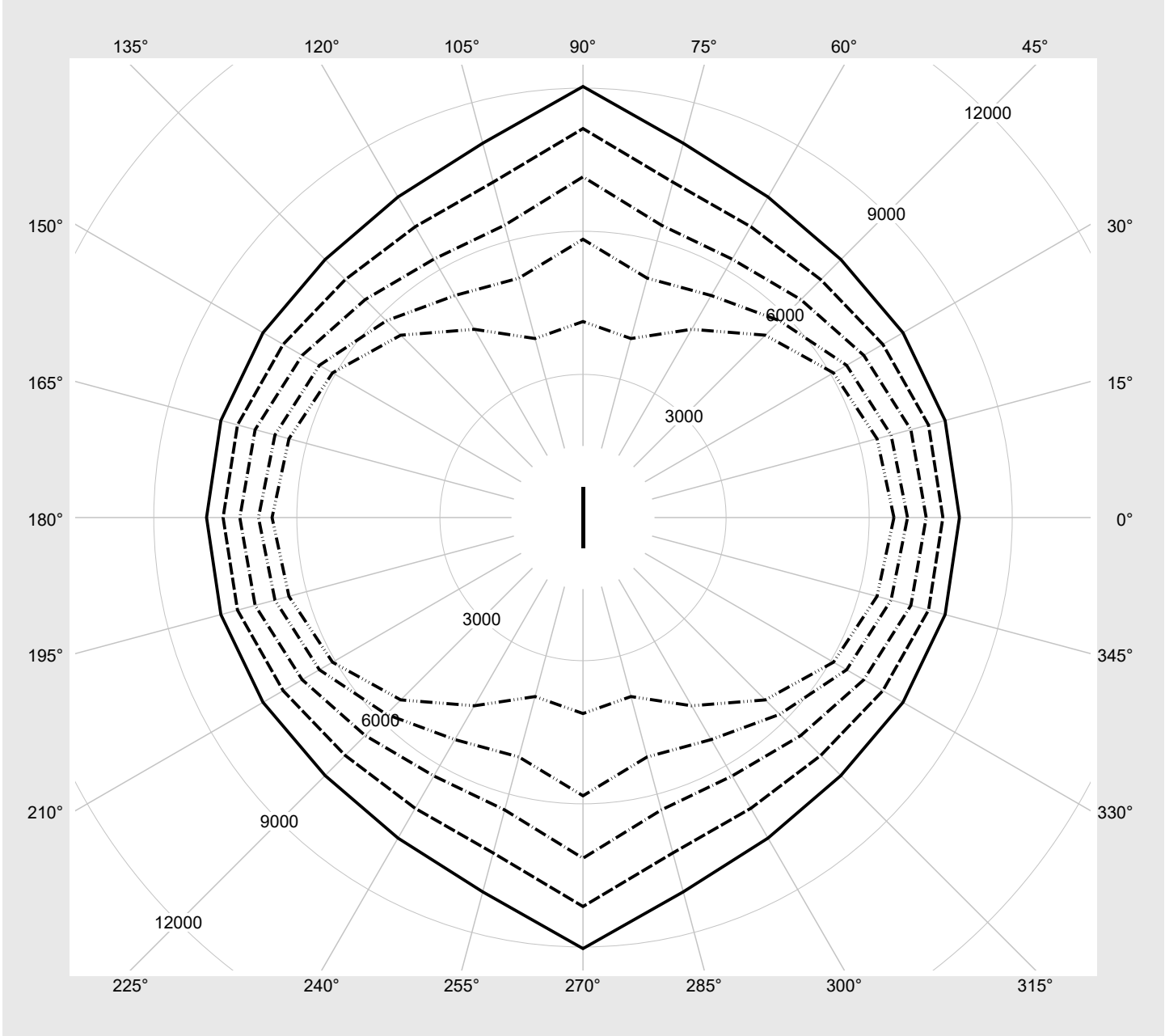
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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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Dimming levels table	environmental temperature: 25°C	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	5730	34.6
95	241	252	5451	33.0
90	227	250	5146	31.1
85	214	248	4861	29.4
80	201	245	4575	27.7
75	188	243	4287	26.1
70	176	241	4019	24.5
65	163	238	3727	22.8
60	150	235	3434	21.2
55	138	232	3162	19.6
50	125	228	2865	18.0
45	113	224	2589	16.4
40	100	220	2290	14.8
35	88	215	2011	13.2
30	75	209	1711	11.5
25	63	203	1430	10.0
20	51	195	1147	8.4
15	39	185	863	7.0
10	27	172	577	5.5
5	15	150	290	4.1
2	8	127	122	3.2