

Photometric test report

Family
Monsun® 12

Order number: **51FP10DP660H**
EAN: **4058352392928**

LP number
58939_26



Version prismatic diffuser, opal, PMMA, wide distribution
Lamps LED 6500 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 5970 lm
Power consumption = 34.6 W
Luminous efficacy = 172.5 lm/W

serial
documentation
08.04.2020

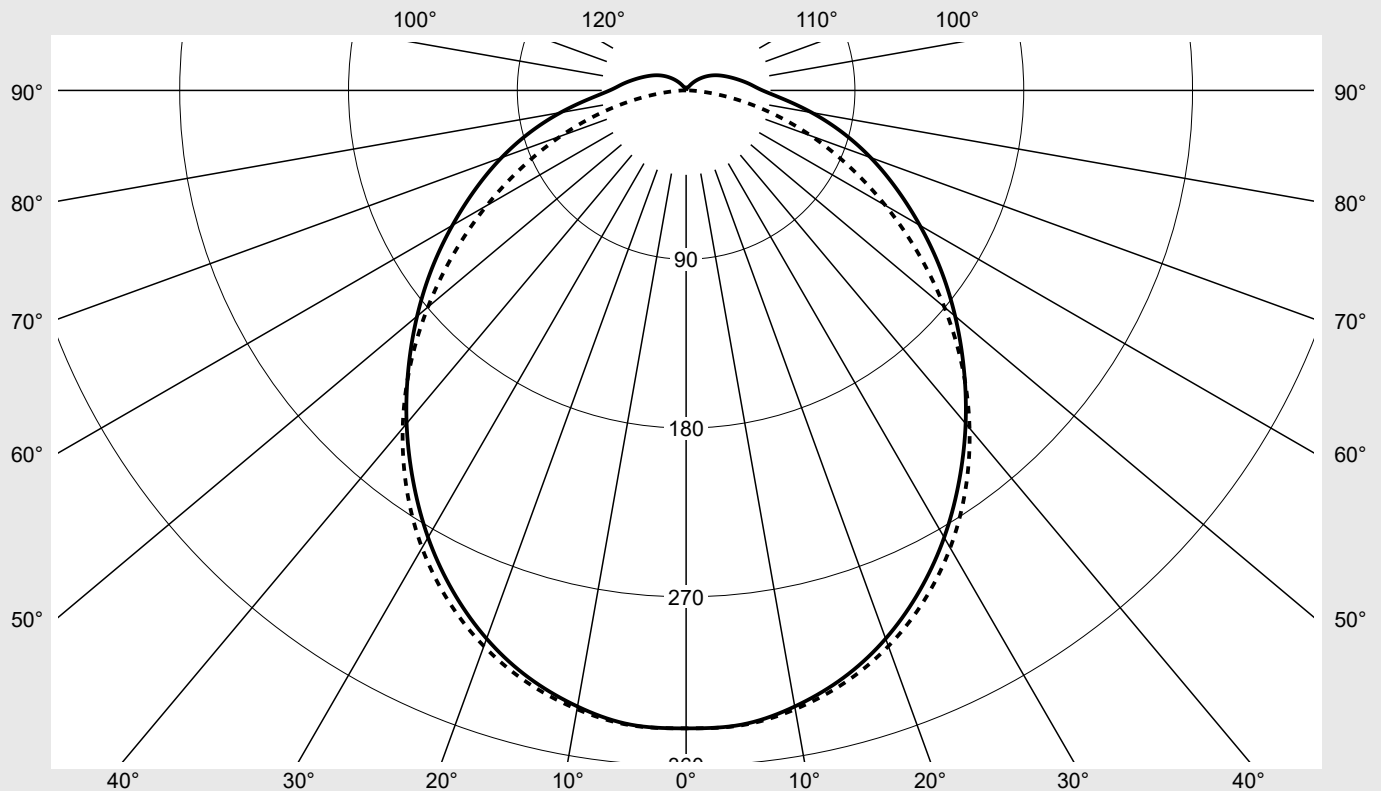
sitEco

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	20.0	21.7	20.4	22.0	22.4	20.0	21.7	20.4	22.0	22.3
	3H	21.8	23.3	22.1	23.6	24.0	21.4	22.9	21.8	23.3	23.6
	4H	22.6	24.0	23.0	24.4	24.8	21.9	23.4	22.3	23.7	24.1
	6H	23.3	24.7	23.7	25.0	25.4	22.3	23.6	22.7	24.0	24.4
	8H	23.7	25.0	24.1	25.3	25.7	22.4	23.7	22.8	24.1	24.5
	12H	24.0	25.2	24.5	25.6	26.0	22.5	23.7	22.9	24.1	24.5
4H	2H	20.7	22.2	21.1	22.5	22.9	20.7	22.2	21.1	22.5	22.9
	3H	22.7	23.9	23.1	24.3	24.7	22.3	23.5	22.7	23.9	24.3
	4H	23.6	24.8	24.1	25.2	25.6	22.9	24.1	23.4	24.5	24.9
	6H	24.5	25.5	25.0	26.0	26.4	23.4	24.4	23.9	24.8	25.3
	8H	25.0	25.9	25.4	26.3	26.8	23.6	24.5	24.0	24.9	25.4
	12H	25.4	26.2	25.9	26.6	27.1	23.7	24.5	24.1	24.9	25.4
8H	4H	23.9	24.9	24.4	25.3	25.8	23.3	24.3	23.8	24.7	25.2
	6H	25.0	25.8	25.5	26.3	26.8	24.0	24.7	24.4	25.2	25.7
	8H	25.6	26.3	26.1	26.7	27.2	24.2	24.9	24.7	25.3	25.9
	12H	26.1	26.7	26.6	27.2	27.7	24.3	24.9	24.8	25.4	25.9
12H	4H	24.0	24.8	24.5	25.3	25.8	23.4	24.2	23.9	24.7	25.2
	6H	25.1	25.8	25.6	26.3	26.8	24.1	24.8	24.6	25.3	25.8
	8H	25.7	26.3	26.2	26.8	27.3	24.4	25.0	24.9	25.5	26.0

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°		10294.0	10357.8	10433.6	10651.7	11111.5	11726.9	12540.4	
50°		9763.2	9799.4	9872.6	10023.2	10402.3	10986.7	11878.1	
55°		9257.9	9268.6	9325.4	9398.9	9691.9	10202.6	11141.9	
60°		8758.4	8751.1	8766.3	8794.1	8987.2	9409.0	10356.5	
65°		8319.4	8299.3	8229.1	8176.9	8291.7	8609.1	9533.9	
70°		7942.4	7897.5	7692.6	7547.3	7560.7	7766.8	8650.1	
75°		7549.3	7478.0	7191.1	6899.5	6728.3	6797.7	7599.5	
80°		7132.7	7014.3	6726.8	6208.3	5775.9	5583.7	6214.6	
85°		6828.7	6684.2	6371.6	5721.5	4863.4	4167.2	4340.2	

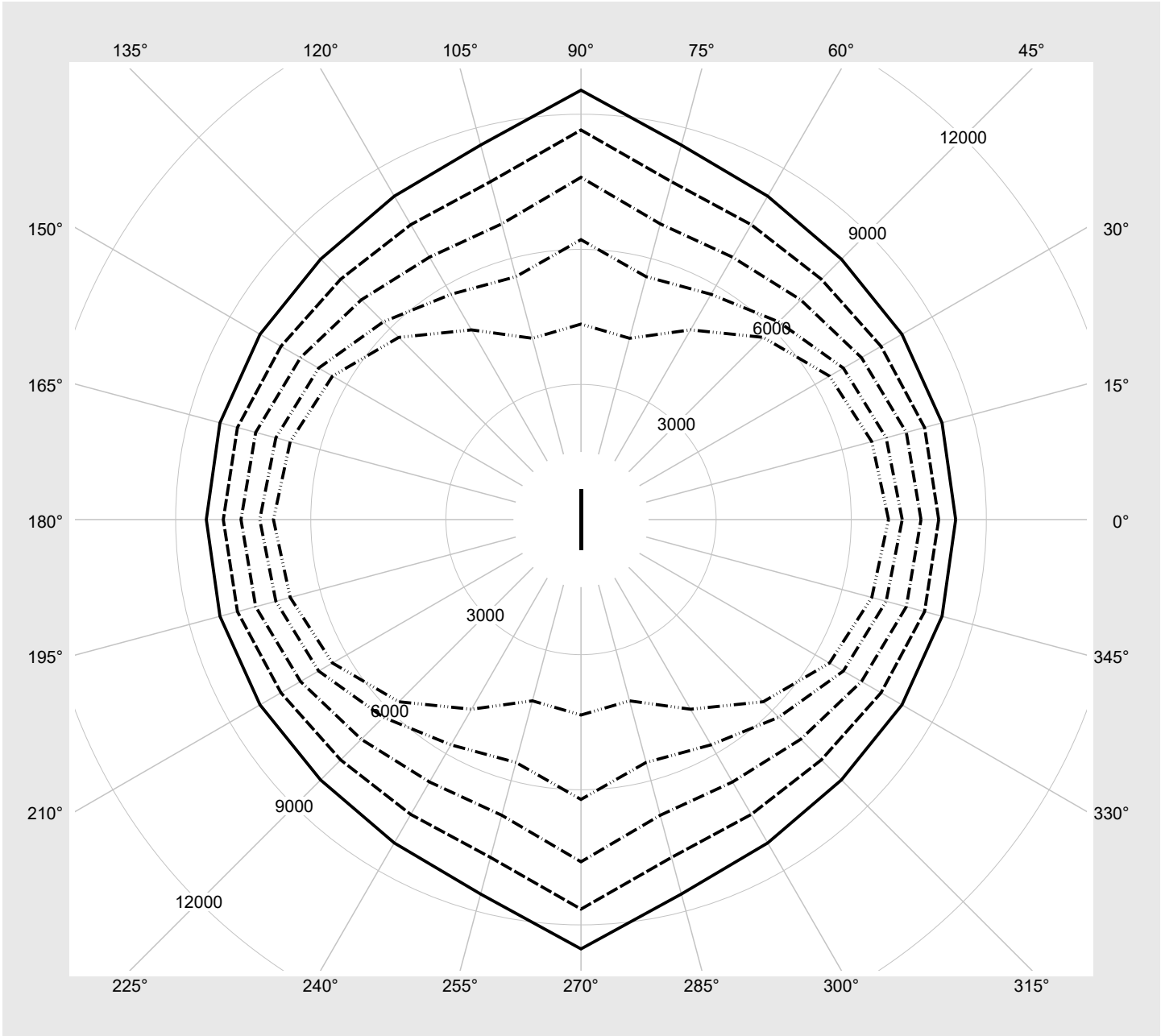
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco



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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	5970	34.6
95	241	252	5678	33.0
90	228	250	5383	31.3
85	214	248	5064	29.4
80	201	245	4765	27.7
75	189	243	4486	26.2
70	176	241	4184	24.5
65	163	238	3880	22.8
60	150	235	3574	21.2
55	138	232	3290	19.6
50	125	228	2981	18.0
45	113	224	2694	16.4
40	100	220	2382	14.8
35	88	215	2092	13.2
30	75	209	1779	11.5
25	63	203	1487	10.0
20	51	195	1193	8.4
15	39	185	897	7.0
10	27	172	600	5.5
5	15	150	301	4.1
2	8	127	127	3.2