

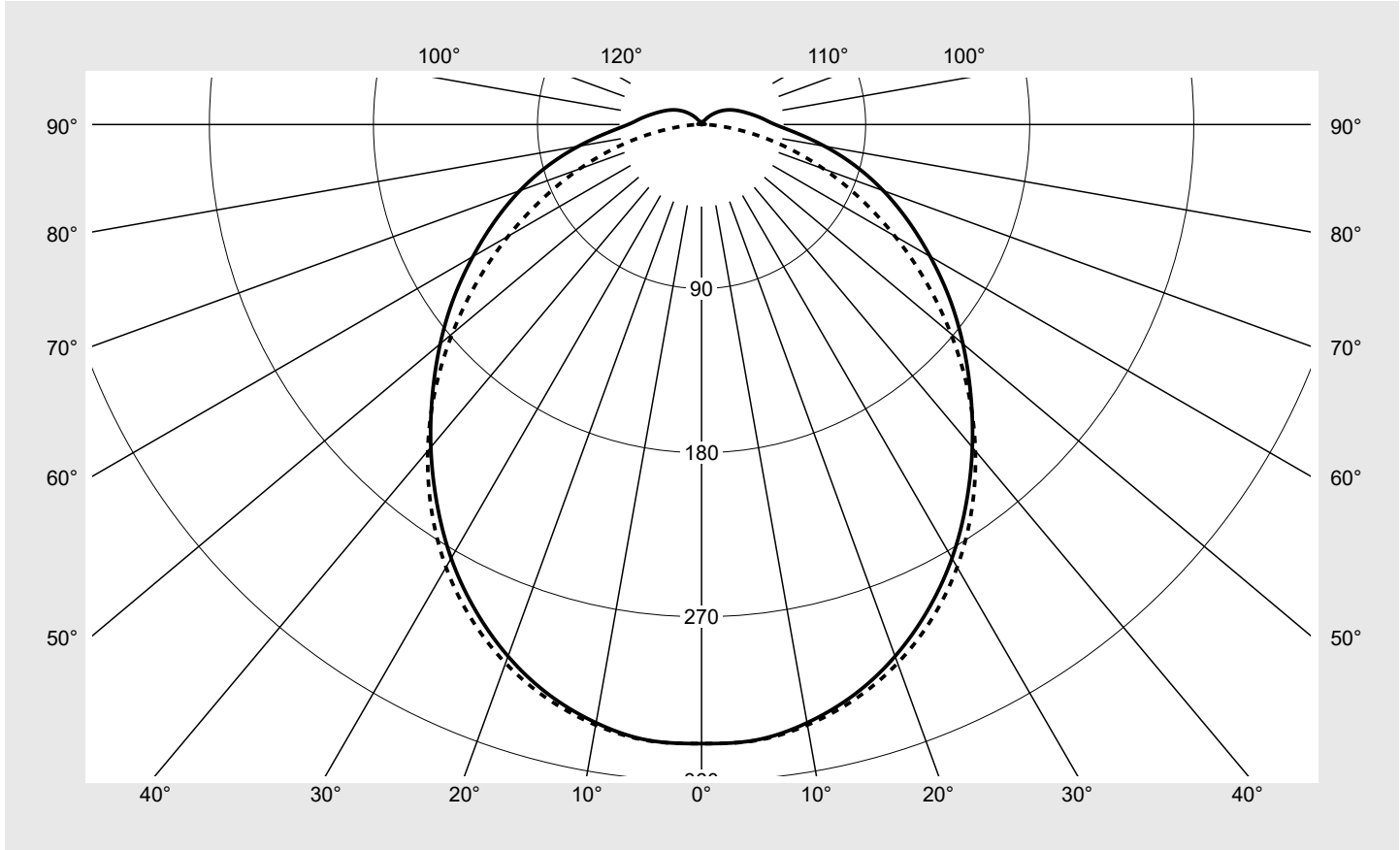


Photometric test report

Family Monsun® 12	Order number: 51FP10TP960X EAN: 4058352376430	LP number 59049_2
	Version prismatic diffuser, opal, PMMA, wide distribution Lamps LED 2700 K ... 6500 K CRI ≥ 80 Controlgear ECG-DALI Setting individual position Rated values at 2700 K Net luminous flux = 6010 lm Power consumption = 39.8 W Luminous efficacy = 151 lm/W	serial documentation 03.07.2020
		

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



Classifications	
DIN 5040	A 4 1
CIE	N1=47 N2=76 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°	339.6	339.6	339.6	339.6	339.6	339.6	339.6	2.0	2.0
5°	339.0	338.0	336.1	337.3	338.8	338.8	339.2	16.1	18.2
10°	333.2	332.8	330.8	332.2	333.8	333.9	334.5	31.7	49.9
15°	323.7	323.8	321.9	323.5	325.3	325.6	326.1	46.0	95.9
20°	310.4	310.9	309.4	311.1	313.1	313.6	314.4	58.4	154.3
25°	293.8	294.8	293.3	295.1	297.3	298.2	299.1	68.5	222.8
30°	274.7	275.9	274.4	275.8	278.3	279.3	280.4	75.9	298.7
35°	253.2	254.6	253.1	253.9	255.9	257.2	258.3	80.2	378.9
40°	231.1	232.1	230.5	230.3	231.4	232.5	233.6	81.6	460.5
45°	208.7	209.2	207.1	205.2	205.2	205.4	206.8	80.1	540.6
50°	187.1	187.0	184.4	180.8	178.8	177.4	178.6	76.4	617.0
55°	166.0	165.3	162.2	157.0	152.8	149.8	150.2	70.7	687.7
60°	144.8	143.9	140.1	134.0	127.9	123.2	122.4	63.5	751.2
65°	125.0	123.8	118.9	111.6	104.5	98.2	96.0	55.3	806.5
70°	106.0	104.7	98.3	90.2	82.2	74.7	71.4	46.3	852.7
75°	87.2	85.6	79.0	70.2	60.9	52.8	48.3	36.7	889.5
80°	68.5	66.8	61.1	51.5	41.4	32.6	27.4	27.1	916.6
85°	51.9	50.2	45.2	36.2	25.4	16.2	10.5	18.6	935.2
90°	40.3	38.9	34.5	26.5	16.4	7.3	2.2	13.2	948.4
95°	34.2	33.0	29.6	22.9	13.9	5.5	1.9	11.2	959.6
100°	29.3	28.3	25.1	19.3	11.5	4.0	1.6	9.3	968.9
105°	25.2	24.2	21.2	16.0	9.0	2.6	1.4	7.6	976.5
110°	21.8	20.6	17.9	13.0	6.7	1.5	1.2	6.1	982.7
115°	18.8	17.6	14.9	10.3	4.8	1.3	1.2	4.9	987.5
120°	15.9	14.7	12.1	7.9	3.1	1.3	1.1	3.8	991.3
125°	12.9	11.8	9.3	5.5	1.6	1.1	1.0	2.7	994.0
130°	10.0	9.0	6.7	3.6	1.4	1.2	1.0	1.9	995.9
135°	7.1	6.3	4.4	1.9	1.4	1.2	1.1	1.2	997.2
140°	4.5	3.9	2.4	1.7	1.4	1.2	1.1	0.8	998.0
145°	2.4	2.1	1.9	1.7	1.4	1.3	1.2	0.5	998.5
150°	2.0	1.9	1.8	1.6	1.4	1.3	1.3	0.4	999.0
155°	1.9	1.8	1.7	1.5	1.4	1.4	1.3	0.4	999.3
160°	1.6	1.6	1.5	1.5	1.4	1.4	1.4	0.3	999.6
165°	1.5	1.5	1.4	1.4	1.4	1.4	1.4	0.2	999.8
170°	1.4	1.4	1.4	1.4	1.4	1.4	1.3	0.1	999.9
175°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.1	1000.0
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	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	20.1	21.8	20.4	22.1	22.4	20.0	21.7	20.4	22.0	22.4
	3H	21.8	23.4	22.2	23.7	24.1	21.4	23.0	21.8	23.3	23.6
	4H	22.7	24.1	23.1	24.5	24.8	21.9	23.4	22.3	23.8	24.1
	6H	23.4	24.8	23.8	25.1	25.5	22.3	23.7	22.7	24.0	24.4
	8H	23.8	25.0	24.2	25.4	25.8	22.5	23.7	22.9	24.1	24.5
	12H	24.1	25.3	24.5	25.7	26.1	22.5	23.7	22.9	24.1	24.5
4H	2H	20.8	22.2	21.2	22.6	22.9	20.7	22.2	21.1	22.5	22.9
	3H	22.7	24.0	23.1	24.4	24.8	22.3	23.6	22.7	23.9	24.4
	4H	23.7	24.8	24.1	25.2	25.7	23.0	24.1	23.4	24.5	24.9
	6H	24.6	25.6	25.1	26.0	26.5	23.5	24.5	23.9	24.9	25.3
	8H	25.0	26.0	25.5	26.4	26.9	23.6	24.5	24.1	25.0	25.4
	12H	25.5	26.3	25.9	26.7	27.2	23.7	24.5	24.2	25.0	25.5
8H	4H	24.0	25.0	24.5	25.4	25.9	23.4	24.3	23.9	24.7	25.2
	6H	25.1	25.9	25.6	26.4	26.9	24.0	24.8	24.5	25.3	25.8
	8H	25.7	26.3	26.1	26.8	27.3	24.2	24.9	24.7	25.4	25.9
	12H	26.2	26.8	26.7	27.3	27.8	24.4	25.0	24.9	25.5	26.0
12H	4H	24.1	24.9	24.6	25.4	25.8	23.5	24.3	24.0	24.8	25.2
	6H	25.2	25.9	25.7	26.4	26.9	24.2	24.8	24.7	25.3	25.8
	8H	25.8	26.4	26.3	26.9	27.4	24.5	25.0	25.0	25.5	26.1

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°		10331.3	10394.2	10467.9	10686.3	11138.3	11739.6	12541.6	
50°		9823.7	9858.8	9917.8	10060.4	10439.7	11006.7	11882.5	
55°		9349.8	9360.0	9395.3	9459.3	9738.1	10244.6	11169.3	
60°		8873.9	8869.8	8864.1	8873.4	9046.4	9469.6	10401.9	
65°		8467.2	8444.1	8355.1	8280.4	8374.0	8693.2	9599.7	
70°		8099.1	8060.0	7844.2	7669.1	7661.7	7864.8	8746.5	
75°		7697.8	7633.0	7348.7	7045.9	6844.3	6915.3	7723.7	
80°		7235.9	7136.7	6881.4	6373.8	5916.6	5724.8	6367.5	
85°		6882.0	6759.4	6506.7	5895.8	5040.3	4343.9	4550.7	

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco

