



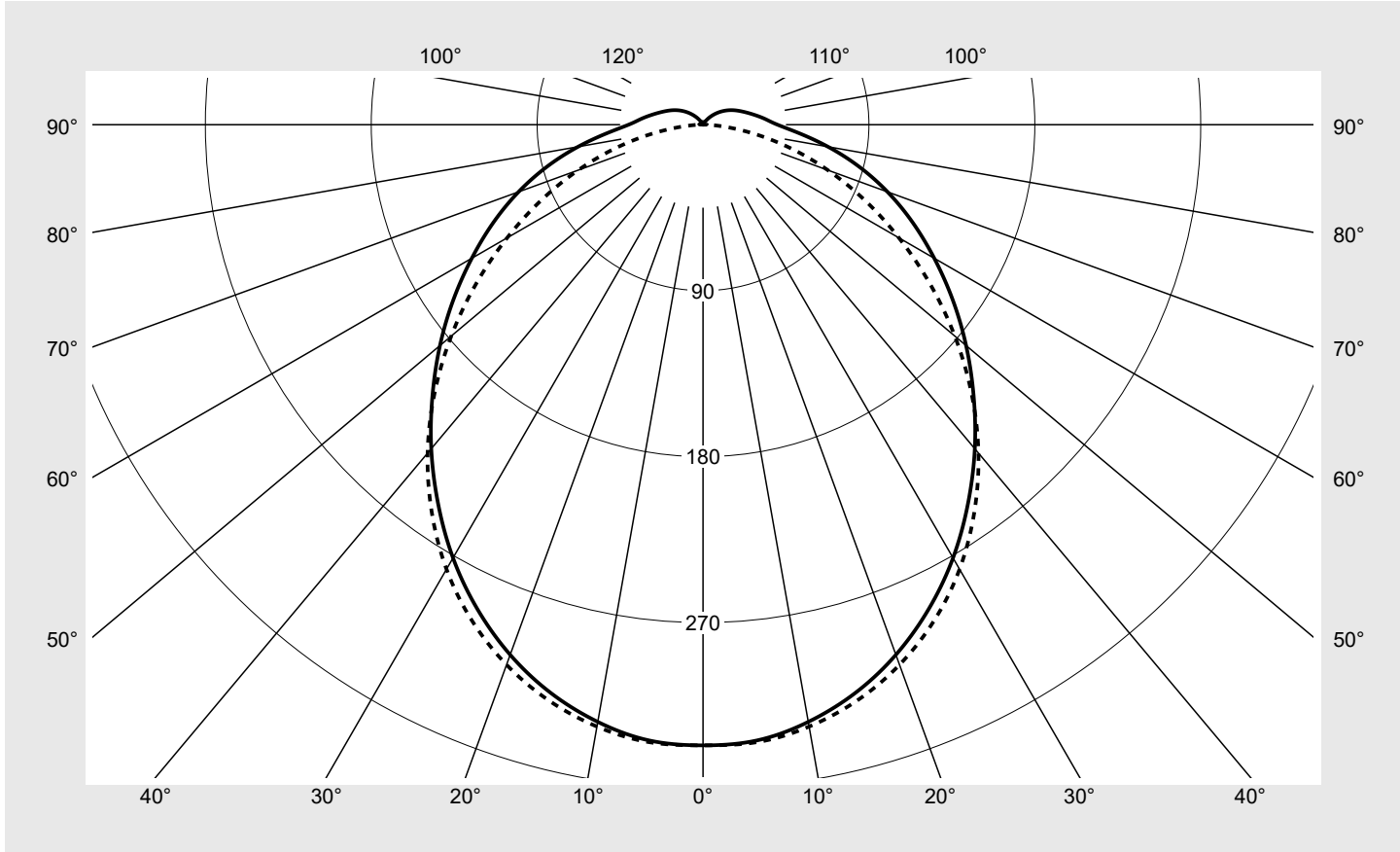
Photometric test report

Family Monsun® 12	Order number: 51FP10DP4B0Q EAN: 4058352376409	LP number 59015_1
	Version prismatic diffuser, opal, PMMA, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 12110 lm Power consumption = 67.6 W Luminous efficacy = 179.1 lm/W	serial documentation 08.04.2020





Luminous intensity in cd/klm C180-0 C270-90 **Imax: 337 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°	336.6	336.6	336.6	336.6	336.6	336.6	336.6	2.0	2.0
5°	335.2	335.1	333.2	334.3	335.7	335.7	336.1	16.0	18.0
10°	328.8	330.1	328.0	329.4	330.8	330.9	331.4	31.4	49.4
15°	319.0	321.3	319.3	320.8	322.3	322.7	323.3	45.6	95.0
20°	305.9	308.9	307.1	308.7	310.4	311.0	311.7	58.0	152.9
25°	289.8	293.4	291.5	293.1	295.0	295.9	296.7	68.0	221.0
30°	271.3	275.1	273.1	274.3	276.2	277.4	278.4	75.4	296.4
35°	250.7	254.3	252.4	252.9	254.4	255.5	256.6	79.8	376.2
40°	229.4	232.7	230.3	229.8	230.5	231.3	232.4	81.4	457.6
45°	207.6	210.4	207.6	205.2	204.9	204.7	206.0	80.1	537.6
50°	186.3	188.5	185.0	181.0	178.9	177.2	178.3	76.5	614.1
55°	165.3	166.9	162.7	157.6	153.3	149.9	150.2	71.0	685.1
60°	144.9	145.8	140.7	134.7	128.7	123.6	122.7	63.9	748.9
65°	125.5	125.6	119.9	112.7	105.4	99.0	96.8	55.8	804.7
70°	106.5	105.7	100.0	91.3	83.0	75.5	72.0	46.8	851.5
75°	87.5	86.0	80.8	71.2	61.8	53.7	49.1	37.2	888.7
80°	68.8	66.9	62.0	52.7	42.3	33.4	27.9	27.5	916.2
85°	52.2	50.3	45.3	36.7	26.2	16.7	10.8	18.8	935.0
90°	40.4	38.9	34.5	26.5	16.4	7.3	2.2	13.2	948.3
95°	34.1	32.8	29.3	22.8	14.2	5.7	1.9	11.2	959.5
100°	29.1	28.1	25.5	19.6	11.7	4.0	1.6	9.4	968.8
105°	25.0	24.3	21.6	16.3	9.2	2.6	1.4	7.7	976.5
110°	21.5	21.0	18.2	13.2	6.8	1.5	1.2	6.2	982.7
115°	18.5	17.9	15.1	10.5	4.8	1.3	1.2	4.9	987.6
120°	15.6	14.8	12.2	7.9	3.1	1.3	1.1	3.8	991.4
125°	12.7	11.9	9.4	5.6	1.7	1.1	1.0	2.7	994.1
130°	9.8	9.0	6.8	3.5	1.4	1.1	1.0	1.9	996.0
135°	7.0	6.3	4.4	1.9	1.4	1.1	1.0	1.2	997.3
140°	4.5	3.9	2.4	1.7	1.3	1.1	1.0	0.8	998.1
145°	2.3	2.1	1.9	1.6	1.4	1.2	1.2	0.5	998.6
150°	1.9	1.9	1.8	1.5	1.4	1.3	1.2	0.4	999.0
155°	1.8	1.7	1.6	1.5	1.4	1.3	1.3	0.3	999.3
160°	1.6	1.6	1.5	1.4	1.3	1.3	1.3	0.3	999.6
165°	1.4	1.4	1.4	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	1.3	1.3	1.3	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	22.5	24.2	22.9	24.5	24.9	22.5	24.2	22.8	24.5	24.8
	3H	24.3	25.9	24.7	26.2	26.5	23.9	25.4	24.2	25.8	26.1
	4H	25.1	26.6	25.5	26.9	27.3	24.4	25.9	24.8	26.2	26.6
	6H	25.9	27.2	26.3	27.6	28.0	24.8	26.2	25.2	26.5	26.9
	8H	26.3	27.5	26.7	27.9	28.3	24.9	26.2	25.4	26.6	27.0
	12H	26.6	27.8	27.0	28.1	28.6	25.0	26.2	25.4	26.6	27.0
4H	2H	23.2	24.7	23.6	25.1	25.4	23.2	24.6	23.6	25.0	25.4
	3H	25.2	26.5	25.6	26.9	27.3	24.8	26.0	25.2	26.4	26.8
	4H	26.2	27.3	26.6	27.7	28.2	25.5	26.6	25.9	27.0	27.4
	6H	27.1	28.1	27.6	28.5	29.0	26.0	27.0	26.4	27.4	27.8
	8H	27.5	28.4	28.0	28.9	29.3	26.1	27.0	26.6	27.5	28.0
	12H	27.9	28.7	28.4	29.2	29.7	26.2	27.1	26.7	27.5	28.0
8H	4H	26.5	27.5	27.0	27.9	28.4	25.9	26.8	26.3	27.2	27.7
	6H	27.6	28.4	28.1	28.9	29.3	26.5	27.3	27.0	27.8	28.3
	8H	28.1	28.8	28.6	29.3	29.8	26.8	27.5	27.3	27.9	28.4
	12H	28.7	29.3	29.2	29.8	30.3	26.9	27.5	27.4	28.0	28.6
12H	4H	26.6	27.4	27.1	27.9	28.3	26.0	26.8	26.5	27.3	27.7
	6H	27.7	28.4	28.2	28.9	29.4	26.7	27.4	27.2	27.8	28.4
	8H	28.3	28.9	28.8	29.4	29.9	27.0	27.6	27.5	28.1	28.6

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°		20702.8	21063.1	21146.4	21527.9	22404.7	23570.4	25171.3	
50°		19705.1	20022.3	20044.0	20296.0	21045.2	22143.6	23907.6	
55°		18762.0	19041.2	18981.3	19131.9	19688.1	20655.0	22504.9	
60°		17884.4	18109.9	17939.4	17973.0	18343.6	19152.3	21004.3	
65°		17130.2	17256.8	16987.6	16841.6	17006.5	17664.4	19494.1	
70°		16390.1	16403.5	16067.3	15631.2	15595.5	16017.3	17795.1	
75°		15569.5	15457.7	15134.5	14405.1	14004.6	14176.4	15816.7	
80°		14649.9	14412.0	14063.0	13155.8	12188.0	11802.8	13103.8	
85°		13938.8	13640.6	13121.5	12050.0	10494.2	9043.9	9450.6	

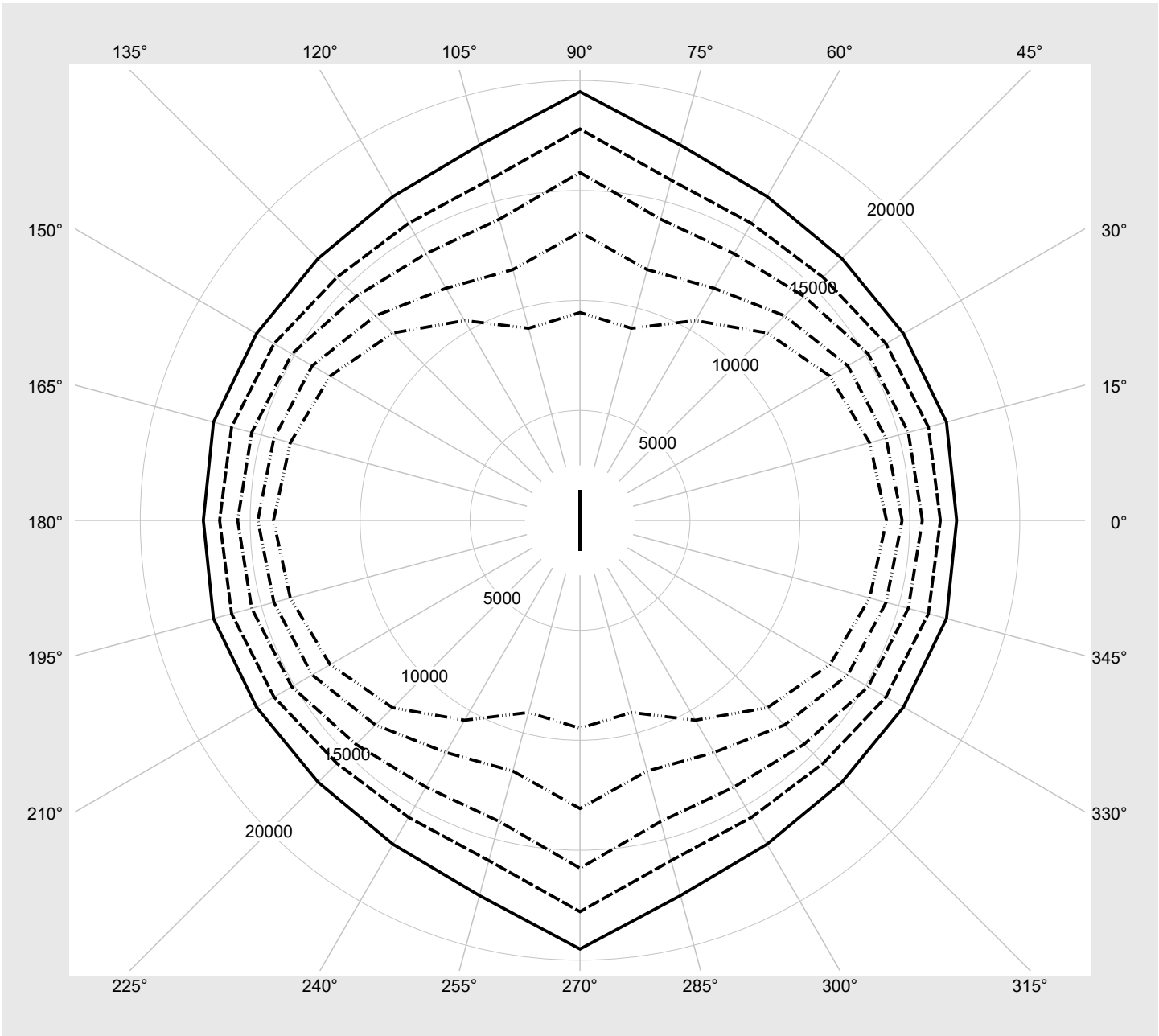
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Luminance values in cd/m²

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	12110	67.6
95	241	252	11520	64.1
90	227	250	10882	60.4
85	214	248	10283	57.0
80	201	245	9681	53.6
75	188	243	9074	50.1
70	175	240	8463	46.8
65	162	238	7849	43.3
60	150	235	7278	40.3
55	137	231	6656	37.1
50	124	228	6033	33.6
45	112	224	5451	30.5
40	100	220	4865	27.5
35	87	215	4227	24.2
30	75	209	3633	21.1
25	63	203	3037	18.1
20	51	195	2437	15.0
15	39	185	1834	12.0
10	27	172	1228	9.0
5	15	150	617	5.9
1	5	110	107	3.3