


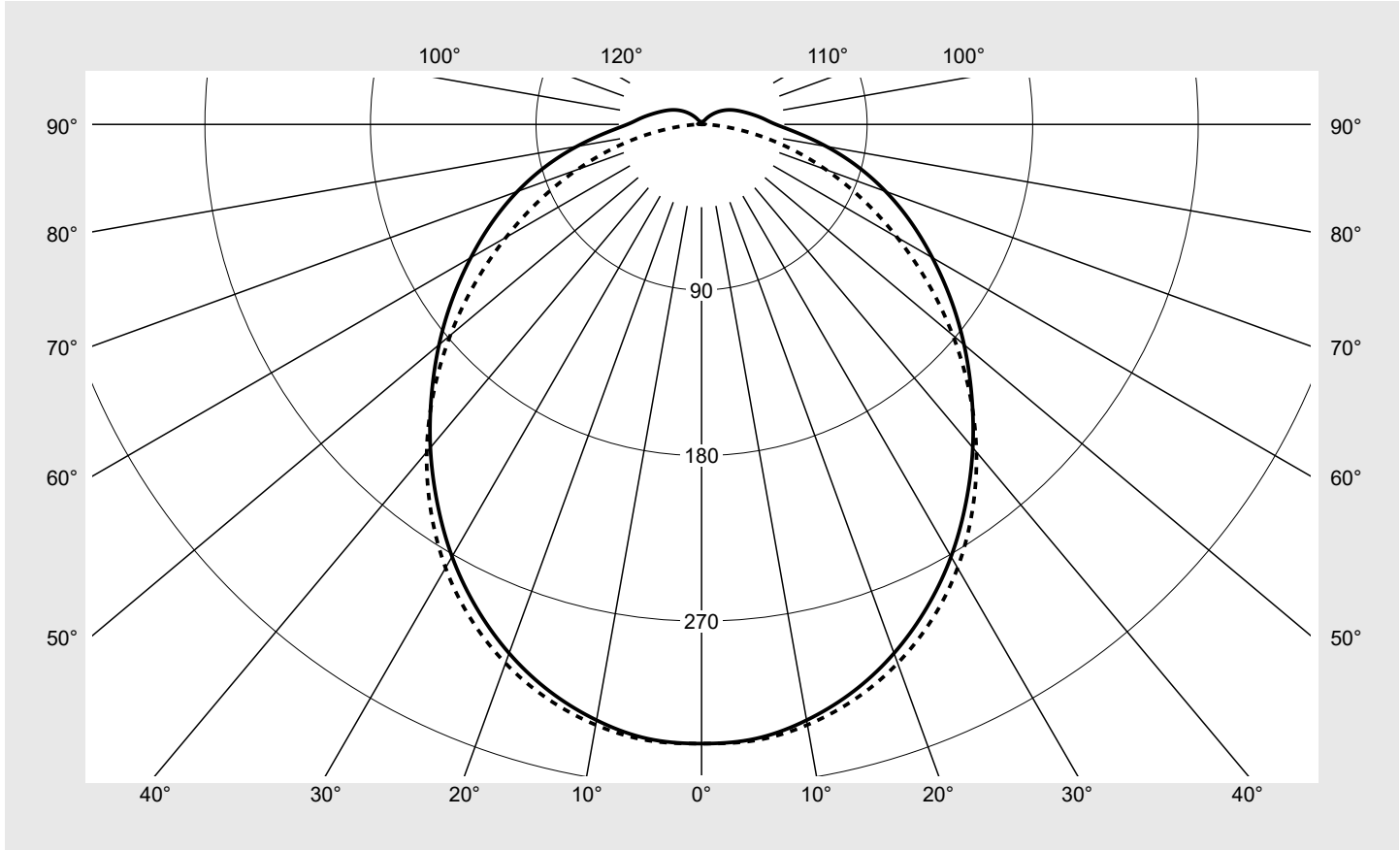
Photometric test report

Family Monsun® 12	Order number: 51FE10DP480R EAN: 4058352539514	LP number 59015_4
	Version prismatic diffuser, opal, PMMA, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 8000 lm Power consumption = 44.3 W Luminous efficacy = 180.6 lm/W	serial documentation 28.07.2021





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	21.1	22.8	21.4	23.1	23.4	21.0	22.7	21.4	23.0	23.4
	3H	22.9	24.4	23.2	24.8	25.1	22.4	24.0	22.8	24.3	24.7
	4H	23.7	25.2	24.1	25.5	25.9	23.0	24.4	23.4	24.8	25.2
	6H	24.4	25.8	24.9	26.2	26.6	23.4	24.7	23.8	25.1	25.5
	8H	24.8	26.1	25.2	26.5	26.9	23.5	24.8	23.9	25.2	25.6
	12H	25.1	26.3	25.6	26.7	27.1	23.6	24.8	24.0	25.2	25.6
4H	2H	21.8	23.3	22.2	23.6	24.0	21.7	23.2	22.1	23.5	23.9
	3H	23.8	25.0	24.2	25.4	25.8	23.3	24.6	23.8	25.0	25.4
	4H	24.8	25.9	25.2	26.3	26.7	24.0	25.2	24.5	25.6	26.0
	6H	25.7	26.7	26.1	27.1	27.5	24.5	25.5	25.0	25.9	26.4
	8H	26.1	27.0	26.5	27.4	27.9	24.7	25.6	25.1	26.0	26.5
	12H	26.5	27.3	27.0	27.8	28.2	24.8	25.6	25.3	26.1	26.6
8H	4H	25.1	26.0	25.5	26.5	26.9	24.4	25.4	24.9	25.8	26.3
	6H	26.2	26.9	26.7	27.4	27.9	25.1	25.9	25.6	26.3	26.8
	8H	26.7	27.4	27.2	27.9	28.4	25.3	26.0	25.8	26.5	27.0
	12H	27.2	27.8	27.8	28.3	28.9	25.5	26.1	26.0	26.6	27.1
12H	4H	25.1	26.0	25.6	26.4	26.9	24.5	25.4	25.0	25.8	26.3
	6H	26.3	26.9	26.8	27.4	27.9	25.3	25.9	25.8	26.4	26.9
	8H	26.9	27.4	27.4	27.9	28.5	25.5	26.1	26.0	26.6	27.2

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°		13676.5	13914.5	13969.6	14221.5	14800.8	15570.9	16628.4	
50°		13017.4	13226.9	13241.3	13407.8	13902.7	14628.3	15793.6	
55°		12394.4	12578.8	12539.3	12638.8	13006.2	13644.9	14867.0	
60°		11814.7	11963.6	11851.0	11873.2	12118.0	12652.2	13875.7	
65°		11316.4	11400.0	11222.2	11125.8	11234.7	11669.3	12878.0	
70°		10827.5	10836.3	10614.2	10326.2	10302.5	10581.2	11755.6	
75°		10285.4	10211.5	9998.0	9516.2	9251.6	9365.1	10448.7	
80°		9677.9	9520.7	9290.1	8690.9	8051.5	7797.1	8656.5	
85°		9208.1	9011.1	8668.2	7960.4	6932.6	5974.5	6243.2	

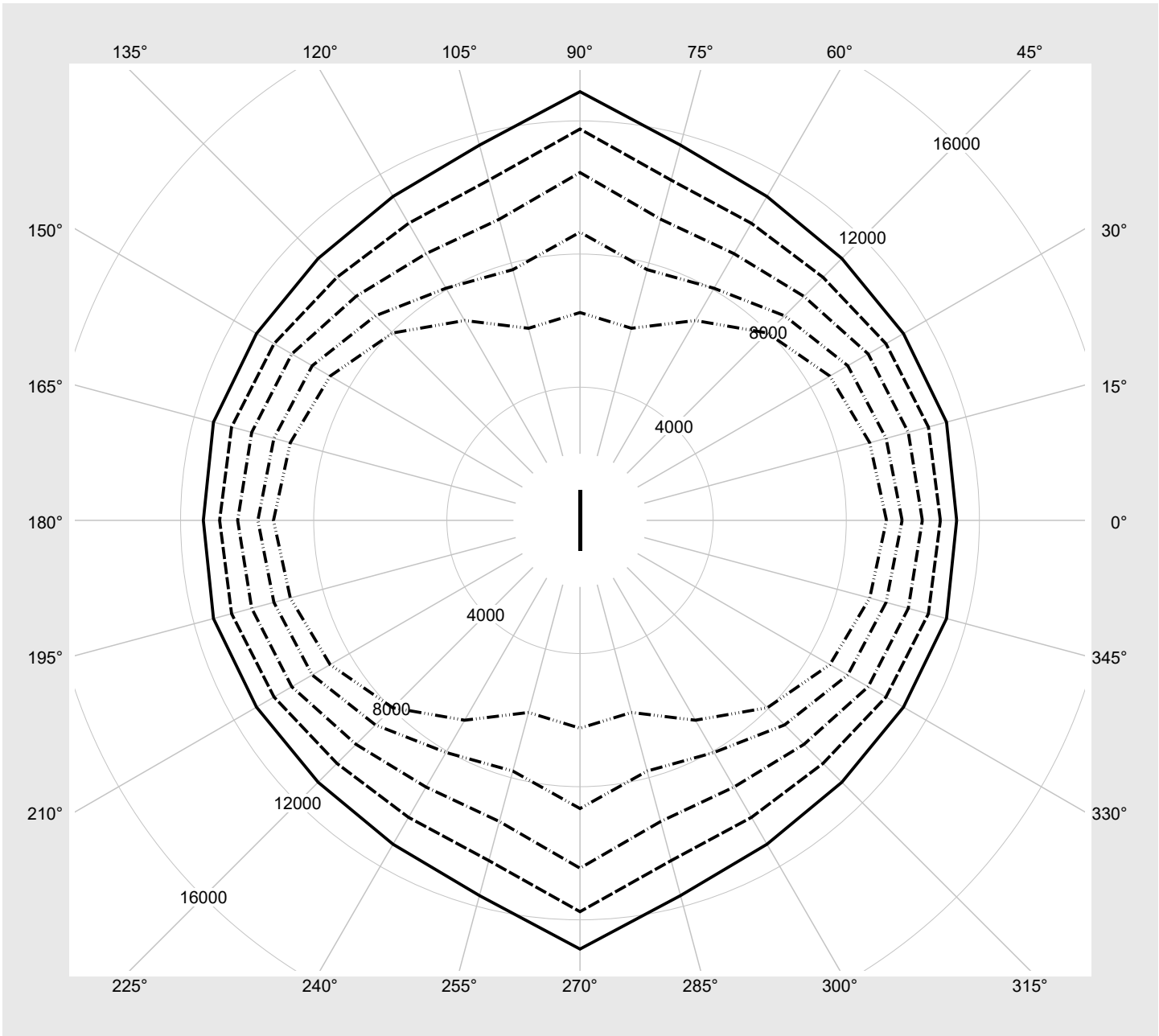
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Luminance values in cd/m²

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	8000	44.3
95	241	252	7599	42.0
90	228	250	7196	39.9
85	215	248	6792	37.7
80	202	246	6385	35.5
75	190	243	6012	33.5
70	177	241	5602	31.3
65	164	238	5191	29.2
60	152	235	4809	27.2
55	139	232	4394	25.1
50	127	229	4010	23.0
45	114	225	3591	20.8
40	102	221	3203	18.9
35	90	216	2814	17.0
30	77	210	2391	14.8
25	65	204	1999	12.9
20	53	197	1605	10.9
15	41	187	1211	8.9
10	29	175	814	6.8
5	17	155	416	4.7
1	7	122	84	3.1