


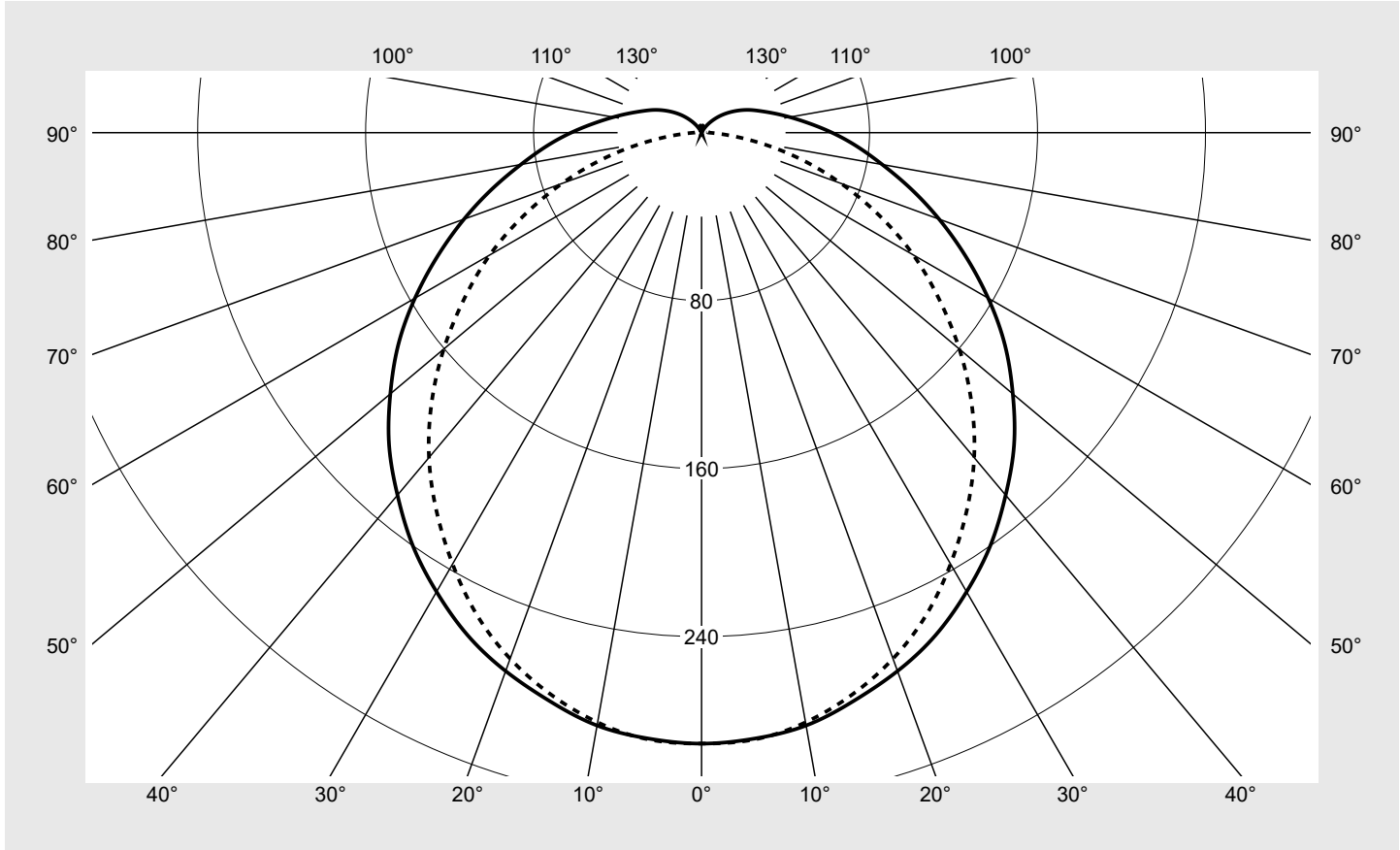
Photometric test report

Family Monsun® Ex	Order number: 51FXB27L480A EAN: 4058352933558	LP number 59499_2
	Version prismatic diffuser, opal, polycarbonate, diffuse beam Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 8720 lm Power consumption = 58.4 W Luminous efficacy = 149.3 lm/W	serial documentation 06.11.2023





Luminous intensity in cd/klm C180-0 C270-90 **Imax: 291 cd/klm**



Classifications	
DIN 5040	A 3 1
CIE	N1=43 N2=72 N3=91 N4=92 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	91.7%
ϕ_o	8.3%

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°	290.9	290.9	290.9	290.9	290.9	290.9	290.9	1.7	1.7
5°	289.6	290.0	289.7	289.7	289.8	289.4	290.1	13.8	15.6
10°	286.7	286.6	285.9	285.6	285.2	285.0	285.1	27.2	42.8
15°	280.1	280.3	279.7	279.4	277.9	277.5	277.0	39.6	82.3
20°	272.8	272.9	271.0	269.5	268.3	266.6	266.6	50.6	132.9
25°	263.9	262.0	261.1	258.5	255.8	253.0	253.3	59.8	192.7
30°	252.5	251.7	248.7	245.2	240.8	238.3	237.2	67.1	259.8
35°	239.9	239.2	235.2	230.7	225.7	221.5	220.1	72.4	332.3
40°	225.3	224.1	220.1	213.2	208.4	202.8	202.0	75.3	407.6
45°	210.5	208.6	204.0	197.1	189.2	184.2	181.8	76.2	483.8
50°	193.5	192.0	186.3	179.0	170.0	162.9	160.3	74.7	558.4
55°	176.4	173.9	167.7	159.3	150.0	141.7	138.1	71.1	629.5
60°	157.6	154.8	149.1	139.6	129.7	120.9	116.4	65.8	695.3
65°	138.6	135.9	129.2	119.9	109.3	98.7	93.5	58.7	754.0
70°	120.4	117.6	110.2	100.1	88.5	77.3	70.7	50.6	804.6
75°	103.2	100.7	93.0	81.8	68.9	56.6	49.0	42.1	846.7
80°	87.4	84.9	77.3	65.7	51.6	37.5	28.4	33.7	880.4
85°	74.2	71.5	63.6	52.1	37.6	22.0	11.8	26.4	906.8
90°	62.1	59.4	52.2	41.1	27.4	12.9	3.7	20.6	927.4
95°	51.4	49.2	42.6	32.5	20.3	8.6	3.2	16.4	943.8
100°	42.7	40.7	34.8	26.1	16.0	6.5	2.9	13.2	957.1
105°	35.6	33.8	28.9	21.6	13.0	4.7	2.5	10.7	967.7
110°	30.0	28.5	24.4	18.1	10.4	3.2	2.3	8.6	976.4
115°	25.6	24.2	20.5	14.8	7.8	2.1	2.0	6.9	983.3
120°	21.3	20.1	16.8	11.6	5.6	1.7	1.8	5.3	988.6
125°	17.3	16.2	13.2	8.7	3.6	1.5	1.5	3.9	992.5
130°	13.5	12.5	9.9	6.0	1.9	1.2	1.3	2.7	995.3
135°	9.9	9.1	6.8	3.6	1.0	1.1	1.2	1.7	997.0
140°	6.7	6.0	4.1	1.6	0.9	1.0	1.0	1.0	998.0
145°	3.9	3.3	1.9	0.8	1.0	1.1	1.2	0.6	998.6
150°	1.6	1.3	0.7	0.8	1.0	1.1	1.1	0.3	998.9
155°	0.9	0.9	0.9	0.9	1.0	1.1	1.1	0.2	999.1
160°	1.1	1.2	1.2	1.2	1.2	1.1	1.1	0.2	999.3
165°	2.2	2.2	2.2	2.0	1.8	1.6	1.6	0.3	999.6
170°	3.4	3.4	3.2	3.0	2.6	2.4	2.4	0.3	999.9
175°	2.7	2.7	2.6	2.5	2.4	2.4	2.3	0.1	1000.0
180°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	1000.0

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UGR-Table		Standard room									
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	21.9	20.5	22.2	22.5	19.5	21.3	19.9	21.6	21.9
	3H	22.0	23.6	22.4	24.0	24.3	21.0	22.7	21.4	23.0	23.3
	4H	23.0	24.5	23.4	24.8	25.2	21.6	23.2	22.0	23.5	23.9
	6H	23.9	25.3	24.3	25.6	26.0	22.0	23.5	22.4	23.8	24.2
	8H	24.3	25.7	24.8	26.0	26.4	22.2	23.5	22.6	23.9	24.3
	12H	24.8	26.0	25.2	26.4	26.8	22.2	23.5	22.7	23.9	24.3
4H	2H	20.8	22.4	21.2	22.7	23.1	20.4	21.9	20.8	22.3	22.6
	3H	23.0	24.3	23.4	24.7	25.1	22.1	23.4	22.5	23.8	24.2
	4H	24.0	25.2	24.5	25.6	26.1	22.8	24.0	23.2	24.4	24.8
	6H	25.1	26.2	25.6	26.6	27.1	23.3	24.4	23.8	24.8	25.3
	8H	25.7	26.6	26.1	27.1	27.5	23.5	24.5	24.0	24.9	25.4
	12H	26.2	27.1	26.7	27.5	28.0	23.6	24.5	24.1	25.0	25.5
8H	4H	24.4	25.4	24.9	25.8	26.3	23.4	24.3	23.8	24.8	25.2
	6H	25.7	26.5	26.2	27.0	27.5	24.1	24.9	24.6	25.4	25.9
	8H	26.3	27.1	26.8	27.6	28.1	24.4	25.1	24.8	25.6	26.1
	12H	27.1	27.7	27.6	28.2	28.7	24.6	25.2	25.1	25.7	26.2
12H	4H	24.5	25.3	24.9	25.8	26.3	23.5	24.4	24.0	24.8	25.3
	6H	25.8	26.5	26.3	27.0	27.5	24.3	25.0	24.8	25.5	26.0
	8H	26.5	27.2	27.0	27.7	28.2	24.7	25.3	25.2	25.8	26.3

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1280	H(C0) = 50	H(C180) = 50
						B = 155	H(C90) = 50	H(C270) = 50
C-planes	γ	0°	15°	30°	45°	60°	75°	90°
		180°	165°	150°	135°	120°	105°	90°
		195°	210°	225°	240°	255°	270°	
		345°	330°	315°	300°	285°	270°	
Luminance in cd/m ²								
45°		9891.7	9809.9	9760.6	9758.6	9841.5	10212.4	10876.9
50°		9557.7	9491.3	9393.6	9378.4	9431.4	9735.3	10472.4
55°		9254.2	9131.5	9008.0	8941.2	8992.1	9256.2	10020.0
60°		8888.8	8741.1	8633.8	8505.0	8521.1	8783.9	9586.7
65°		8518.8	8365.2	8190.6	8052.3	8010.7	8150.8	8971.2
70°		8202.3	8024.6	7777.1	7555.1	7407.8	7453.5	8208.2
75°		7950.2	7769.9	7466.1	7108.4	6766.2	6617.6	7265.1
80°		7817.4	7607.2	7260.3	6784.5	6200.9	5620.0	5876.3
85°		7982.0	7705.9	7258.7	6703.8	5871.3	4652.7	4103.4

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Luminance values in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°

