

Photometric test report

Family
Monsun® 21

Order number: 51FB10DL447K3H
EAN: 4069025131560

LP number
59393_61



Version prismatic diffuser, opal, PMMA, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Setting AC-mode
Rated values Net luminous flux = 4330 lm
 Power consumption = 28.1 W
 Luminous efficacy = 154.1 lm/W

serial
documentation
05.02.2026

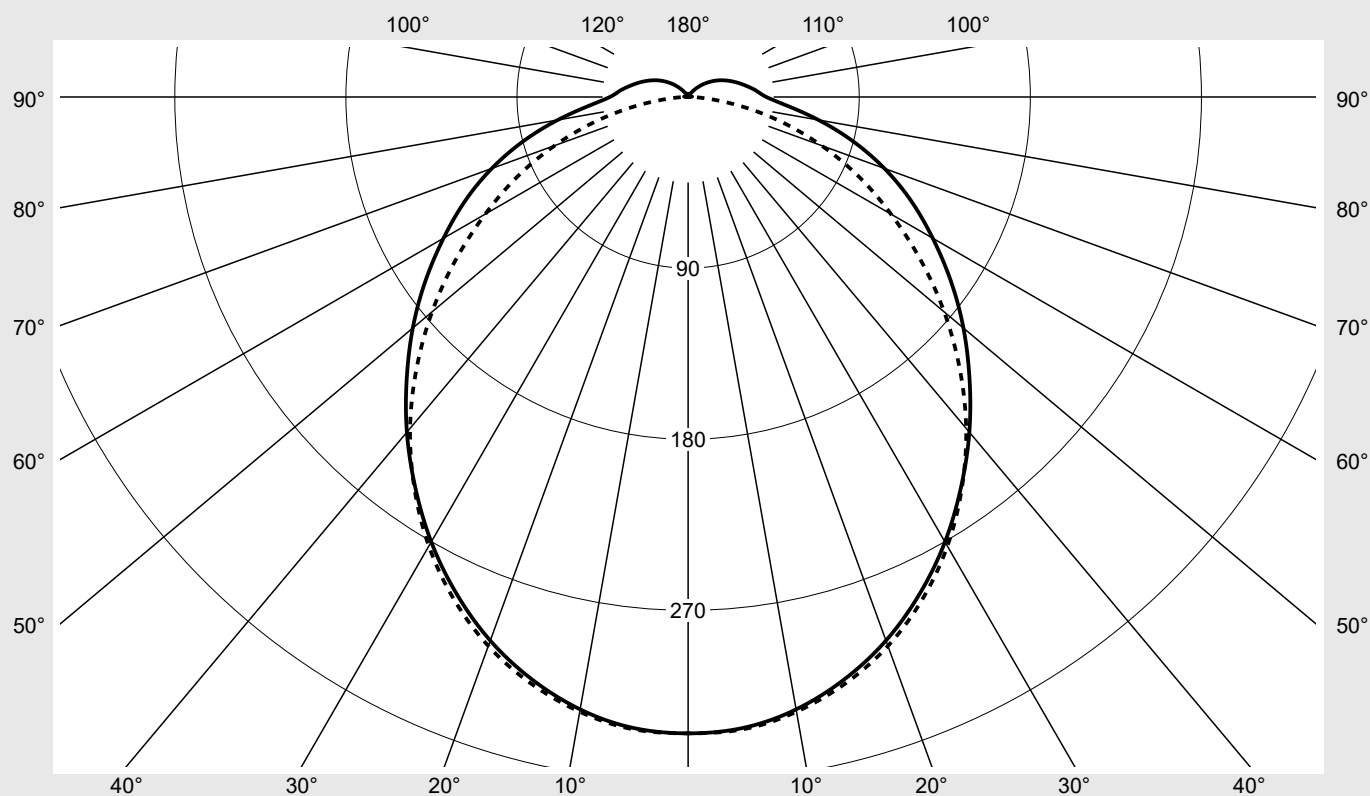
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Luminous intensity in cd/klm

C180-0

C270-90

Imax: 335 cd/klm



Classifications

DIN 5040 A 4 1
 CIE N1=46 N2=76 N3=93
 N4=94 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 93.9%
 ϕ_o 6.1%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
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C- planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0°	334.7	334.7	334.7	334.7	334.7	334.7	334.7	2.0	2.0
5°	333.1	333.6	331.1	331.9	332.7	333.2	333.8	15.9	17.9
10°	327.1	327.9	325.6	326.0	327.2	327.9	328.3	31.1	49.0
15°	317.2	318.4	316.4	316.9	317.9	318.6	319.4	45.1	94.1
20°	304.3	305.5	304.0	304.0	305.5	306.0	307.3	57.2	151.3
25°	288.3	289.5	288.3	288.0	289.4	289.8	291.5	67.0	218.3
30°	270.2	271.6	270.4	269.7	270.4	271.0	272.7	74.2	292.5
35°	250.3	251.6	250.4	249.2	249.0	249.3	251.0	78.6	371.1
40°	230.1	230.9	229.3	227.2	226.1	225.6	227.5	80.3	451.4
45°	209.3	209.8	207.4	204.4	202.0	200.5	202.0	79.4	530.9
50°	189.0	188.7	186.0	181.6	177.7	174.7	175.8	76.4	607.2
55°	168.7	168.2	164.8	159.1	153.5	149.2	149.2	71.4	678.6
60°	148.6	147.7	143.7	136.7	130.2	124.3	123.2	64.8	743.4
65°	129.5	127.8	123.0	114.9	108.3	100.8	99.1	57.1	800.4
70°	109.9	108.0	102.2	93.4	85.8	77.4	74.6	48.0	848.4
75°	89.7	87.9	81.7	72.5	63.8	55.3	51.1	38.1	886.5
80°	69.6	67.6	61.9	52.4	43.1	34.0	28.9	27.7	914.2
85°	52.2	49.9	44.6	35.4	25.7	16.3	10.6	18.5	932.7
90°	41.2	39.2	34.0	25.7	16.3	7.4	2.3	13.2	945.9
95°	36.2	34.5	30.1	22.6	13.9	5.6	2.0	11.4	957.3
100°	31.8	30.4	26.2	19.4	11.5	4.0	1.7	9.7	967.1
105°	27.9	26.5	22.5	16.5	9.2	2.5	1.5	8.1	975.2
110°	24.2	22.6	19.2	13.5	6.9	1.5	1.3	6.6	981.8
115°	20.8	19.1	16.0	10.8	4.9	1.4	1.2	5.2	987.0
120°	17.3	15.9	12.9	8.1	3.1	1.3	1.2	4.0	991.0
125°	13.9	12.5	9.8	5.6	1.6	1.3	1.1	2.9	993.8
130°	10.5	9.4	7.0	3.5	1.5	1.3	1.1	2.0	995.8
135°	7.3	6.4	4.4	1.9	1.5	1.2	1.0	1.3	997.1
140°	4.5	3.8	2.3	1.7	1.5	1.2	1.1	0.8	997.9
145°	2.3	2.1	1.9	1.7	1.5	1.3	1.2	0.5	998.4
150°	2.0	2.0	1.9	1.7	1.5	1.4	1.3	0.5	998.9
155°	1.9	1.9	1.8	1.7	1.5	1.4	1.4	0.4	999.3
160°	1.8	1.8	1.7	1.6	1.5	1.5	1.4	0.3	999.6
165°	1.7	1.7	1.6	1.5	1.5	1.5	1.4	0.2	999.8
170°	1.5	1.5	1.5	1.5	1.5	1.5	1.4	0.1	999.9
175°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.1	1000.0
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0	1000.0

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UGR-Table		Standard room							siTeco		
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	19.7	21.5	20.1	21.8	22.1	19.6	21.3	19.9	21.6	21.9
	3H	21.6	23.1	21.9	23.4	23.8	21.0	22.6	21.4	22.9	23.3
	4H	22.4	23.9	22.8	24.2	24.6	21.6	23.1	22.0	23.4	23.8
	6H	23.1	24.5	23.6	24.9	25.3	22.0	23.4	22.4	23.8	24.1
	8H	23.5	24.8	23.9	25.1	25.5	22.2	23.4	22.6	23.8	24.2
	12H	23.8	25.0	24.2	25.4	25.8	22.2	23.4	22.6	23.8	24.2
4H	2H	20.5	21.9	20.8	22.3	22.6	20.3	21.8	20.7	22.1	22.5
	3H	22.5	23.7	22.9	24.1	24.5	22.0	23.2	22.4	23.6	24.0
	4H	23.4	24.6	23.9	25.0	25.4	22.7	23.8	23.1	24.2	24.7
	6H	24.3	25.4	24.8	25.8	26.2	23.2	24.2	23.6	24.6	25.1
	8H	24.8	25.7	25.2	26.1	26.6	23.3	24.3	23.8	24.7	25.2
	12H	25.2	26.0	25.6	26.4	26.9	23.5	24.3	23.9	24.7	25.2
8H	4H	23.8	24.7	24.2	25.1	25.6	23.1	24.0	23.6	24.5	24.9
	6H	24.8	25.6	25.3	26.1	26.6	23.8	24.5	24.3	25.0	25.5
	8H	25.4	26.1	25.9	26.5	27.1	24.0	24.7	24.5	25.2	25.7
	12H	25.9	26.5	26.4	27.0	27.5	24.2	24.8	24.7	25.2	25.8
12H	4H	23.8	24.7	24.3	25.1	25.6	23.2	24.0	23.7	24.5	25.0
	6H	24.9	25.6	25.4	26.1	26.6	23.9	24.6	24.4	25.1	25.6
	8H	25.5	26.1	26.0	26.6	27.1	24.2	24.8	24.7	25.3	25.8

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1299 B = 87		H(C0) = 21 H(C90) = 21		H(C180) = 21 H(C270) = 21	
C-planes	γ	0°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°			
		Luminance in cd/m²									
	45°	9136.0	9186.6	9235.2	9367.1	9645.2	10077.9	10772.3			
	50°	8750.4	8768.5	8807.0	8895.6	9129.5	9526.6	10281.2			
	55°	8379.2	8393.6	8400.8	8434.1	8598.1	8968.8	9741.5			
	60°	8028.0	8020.5	7999.7	7964.8	8091.8	8387.5	9185.3			
	65°	7734.8	7680.4	7610.0	7488.1	7614.7	7829.5	8682.0			
	70°	7402.0	7322.1	7167.5	6971.4	7012.0	7135.3	8004.1			
	75°	6982.7	6897.2	6679.5	6389.1	6288.6	6339.9	7136.8			
	80°	6485.7	6362.2	6117.4	5685.6	5391.5	5192.8	5840.6			
	85°	6102.4	5910.1	5634.9	5044.4	4452.6	3785.7	3946.4			

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Luminance values in cd/m²

γ 65°

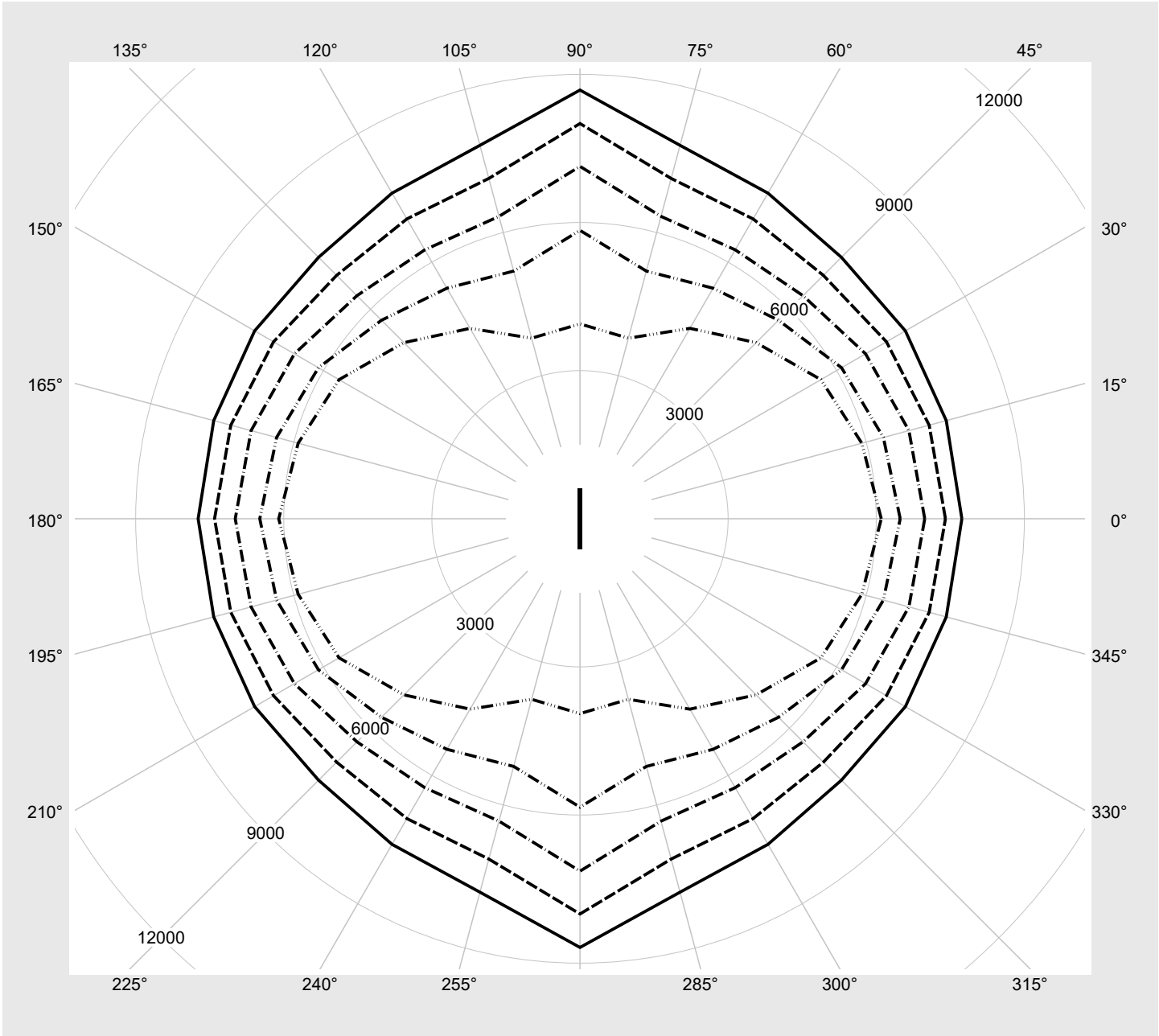
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C

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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	4330	28.1
95	241	252	4117	27.0
90	228	250	3902	25.9
85	215	248	3686	24.8
80	202	246	3471	23.7
75	189	243	3252	22.5
70	176	241	3033	21.3
65	163	238	2813	20.2
60	150	235	2592	19.0
55	138	232	2387	17.8
50	125	228	2165	16.5
45	112	224	1942	15.3
40	100	220	1734	14.2
35	87	215	1509	13.0
30	75	209	1301	11.9
25	62	202	1075	10.8
20	50	194	865	9.7
15	38	184	655	8.8
10	25	169	426	7.7
5	13	145	215	6.9
5	12	142	197	6.8