

Photometric test report

Family
Monsun® 21



Order number: 51FB10DL447K3H
EAN: 4069025131560

Version

Lamps

Controlgear

Rated values

prismatic diffuser, opal, PMMA, extremely wide distribution, emergence lighting 3h

LED 4000 K | CRI ≥ 80

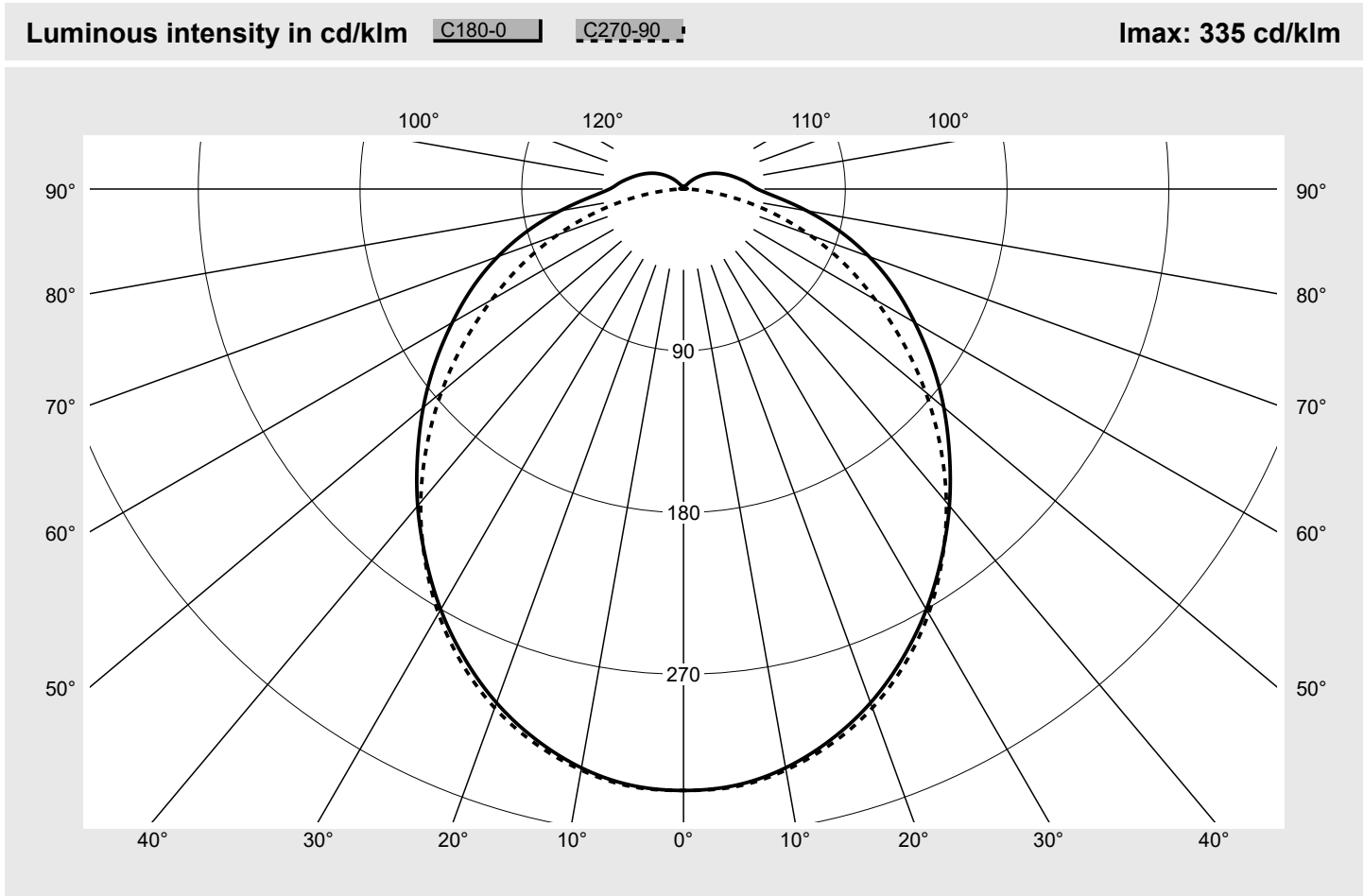
ECG-DALI

Net luminous flux = 4330 lm
Power consumption = 28.1 W
Luminous efficacy = 154.1 lm/W

LP number
59393_30

serial
documentation
04.09.2024

siteco



Classifications		Luminaire light output ratios	
DIN 5040	A 4 1	η_{LB}	100.0%
CIE	N1=46 N2=76 N3=93	ϕ_u	93.9%
	N4=94 N5=100	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° 180°	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°

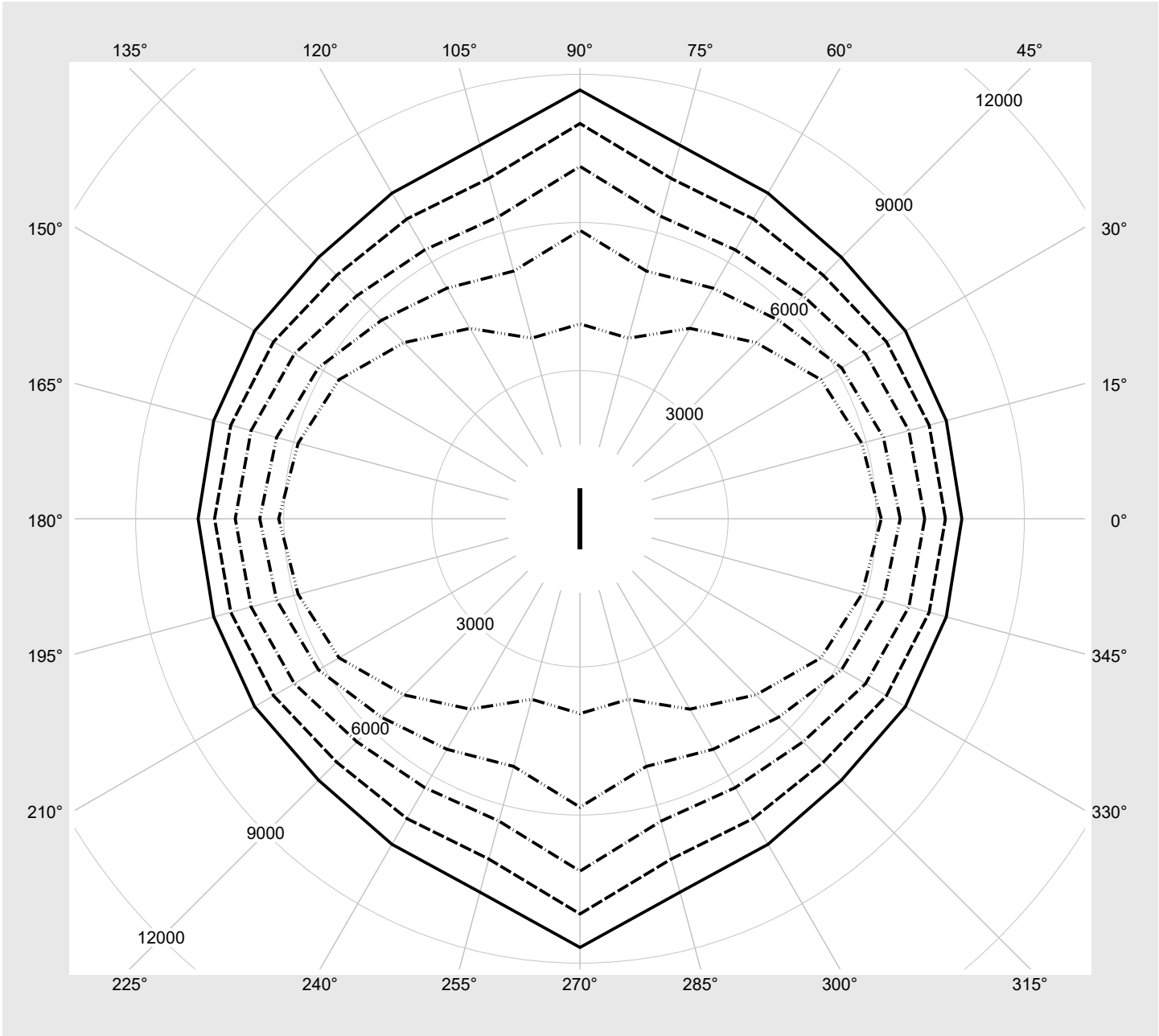
γ 70°

γ 75°

γ 80°

γ 85°

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Family Monsun® 21	Order number: 51FB10DL447K3H EAN: 4069025131560	LP number 59393_30
Dimming levels table environmental temperature: 25°C		

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