

Photometric test report

Family
Monsun® 11



Order number: 51FP10DP4B0U007
EAN: 4069025242532

Version

Lamps

Controlgear

Rated values

prismatic diffuser, opal, PMMA, wide distribution

LED 4000 K | CRI ≥ 80

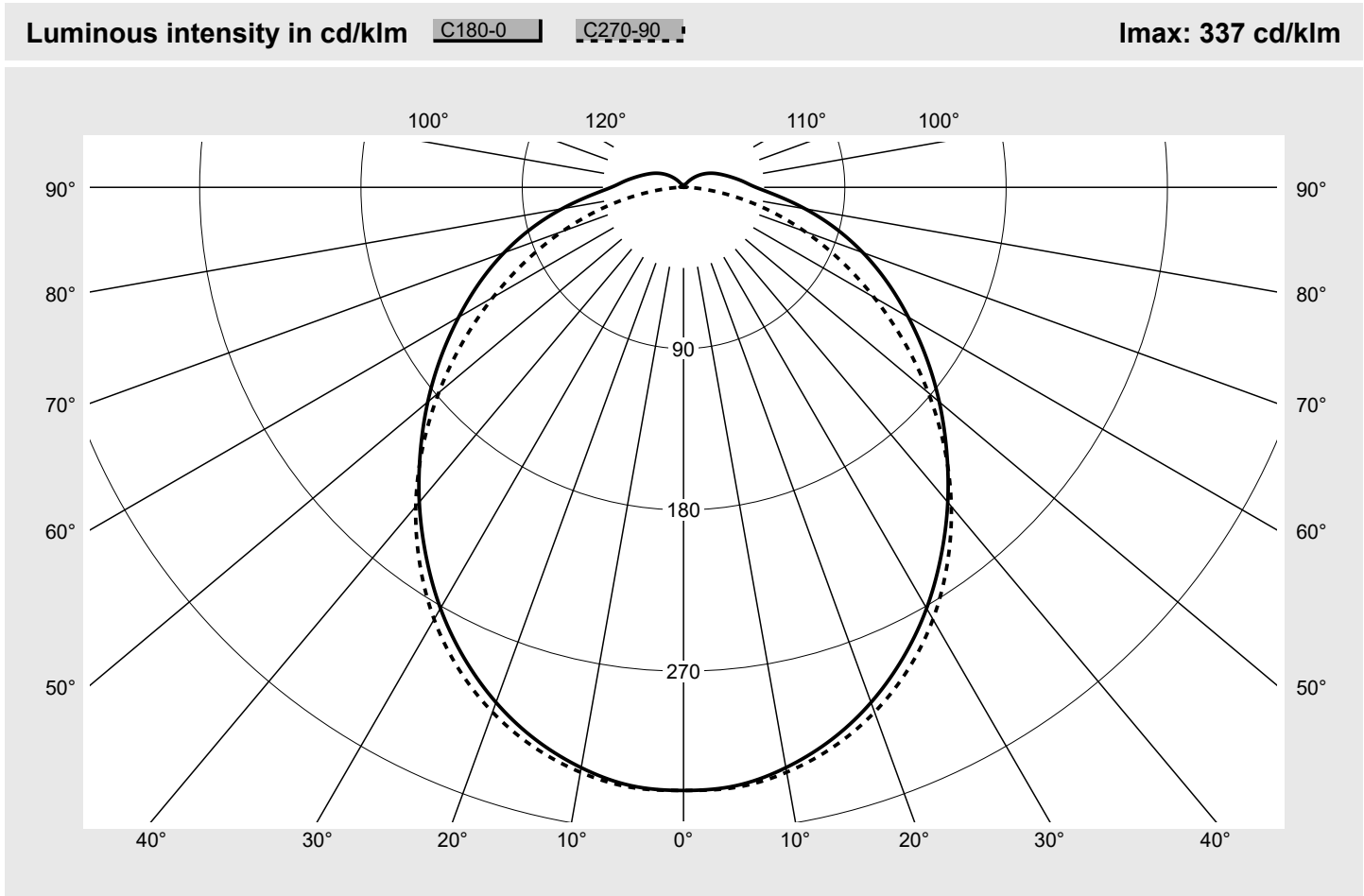
ECG-DALI

Net luminous flux = 12110 lm
Power consumption = 63.7 W
Luminous efficacy = 190.1 lm/W

LP number
59015_8

serial
documentation
20.08.2024

siteco



Classifications		Luminaire light output ratios	
DIN 5040	A 4 1	η_{LB}	100.0%
CIE	N1=47 N2=76 N3=93	ϕ_u	94.2%
	N4=94 N5=100	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
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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°	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

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 B = 87	H(C0) = 21 H(C90) = 21	H(C180) = 21 H(C270) = 21
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°
γ	Luminance in cd/m²						
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°

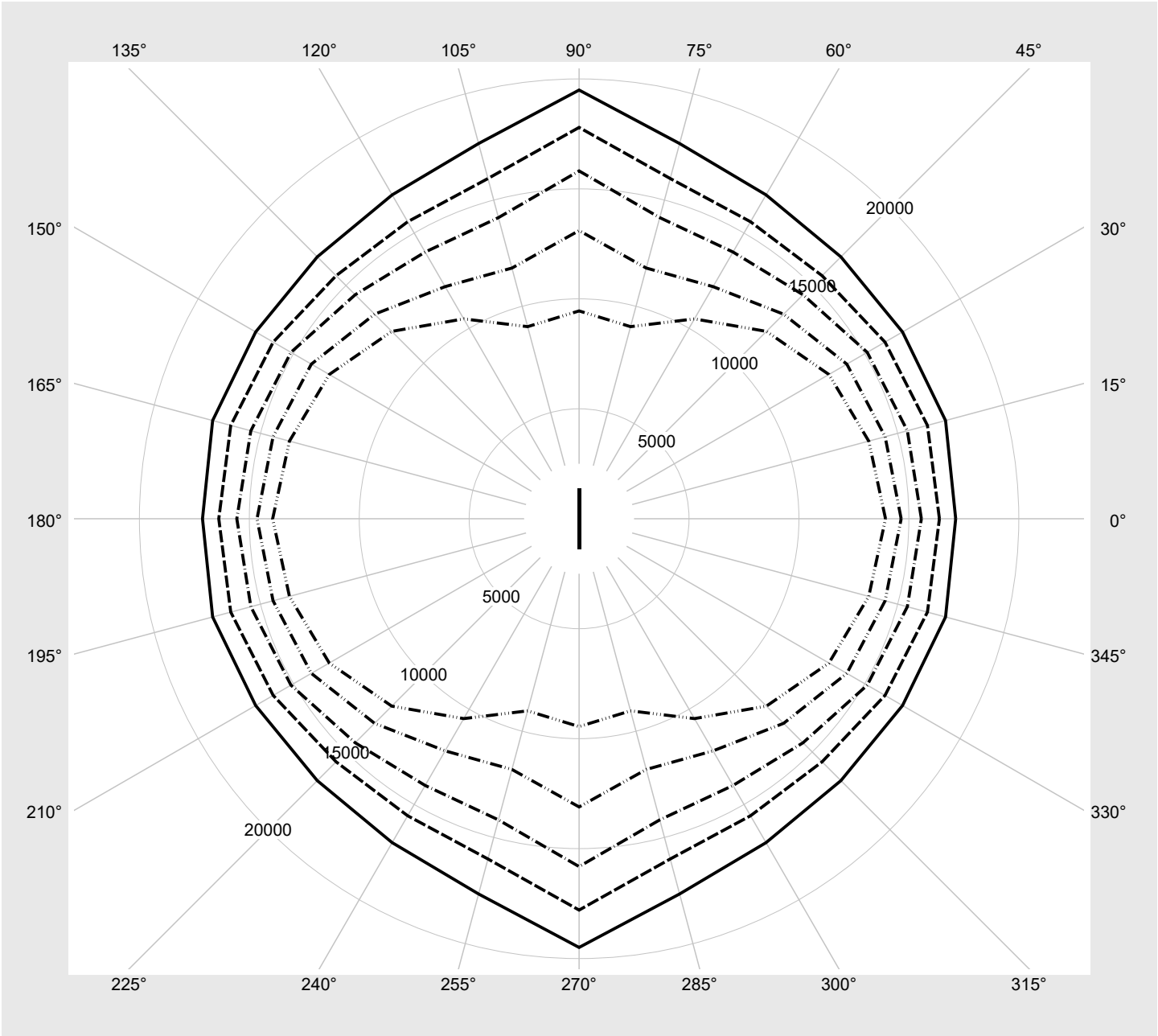
γ 70°

γ 75°

γ 80°

γ 85°

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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	12110	63.7
95	240	252	11485	60.2
90	227	250	10902	56.9
85	214	248	10312	53.6
80	200	245	9676	50.1
75	187	243	9077	46.8
70	174	240	8478	43.5
65	161	237	7874	40.4
60	148	234	7264	37.2
55	135	231	6649	34.1
50	123	227	6079	31.1
45	110	223	5454	28.0
40	97	219	4825	24.9
35	85	214	4240	21.9
30	73	208	3651	19.0
25	60	201	3007	15.8
20	48	193	2405	12.9
15	36	182	1800	9.9
10	24	168	1189	6.7
5	13	145	627	3.8
2	5	110	214	1.5