

Photometric test report

Family
Monsun® 21

Order number: 51FB10DP487C3H
EAN: 4069025178145

LP number
58939_271



Version prismatic diffuser, opal, PMMA, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Setting AC-mode
Rated values Net luminous flux = 8000 lm
 Power consumption = 49.4 W
 Luminous efficacy = 161.9 lm/W

serial
documentation
06.02.2026

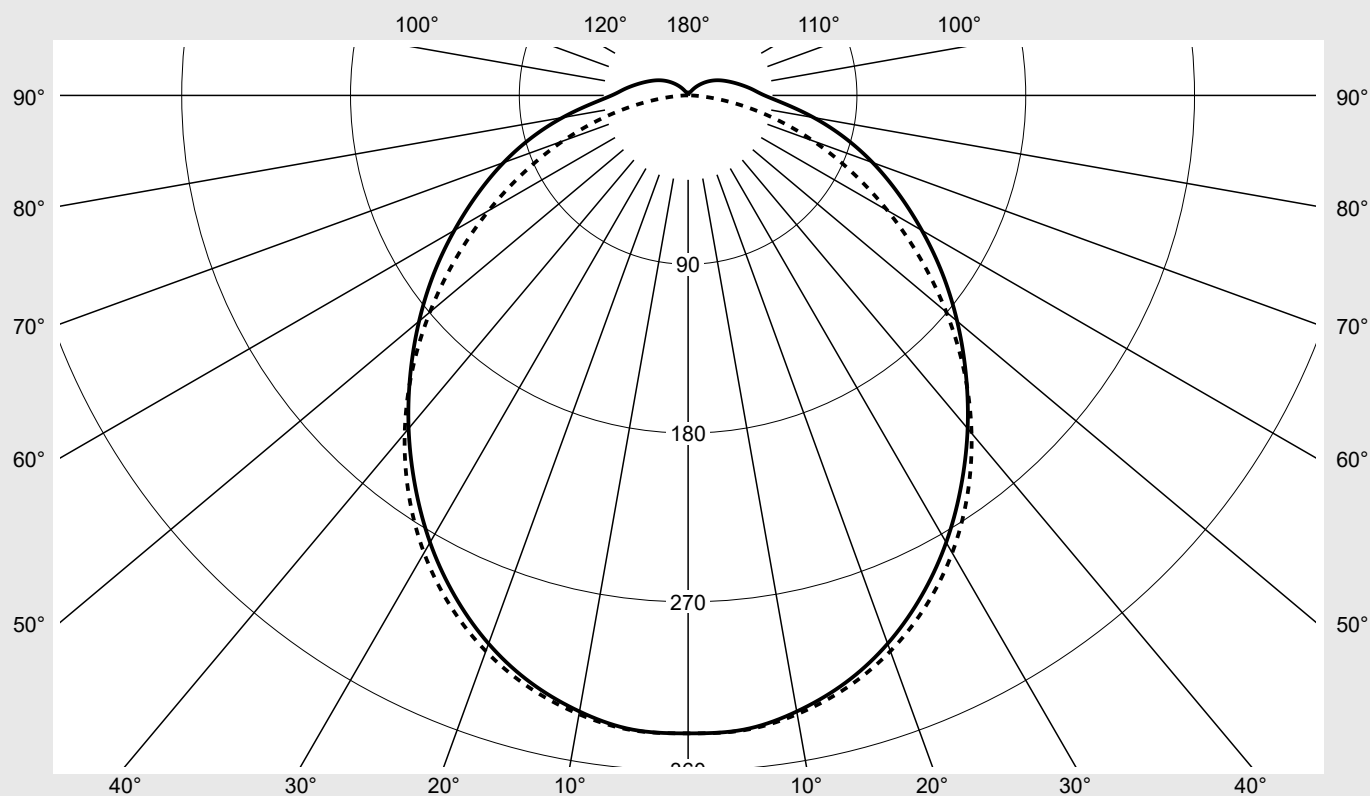
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Luminous intensity in cd/klm

C180-0

C270-90

Imax: 340 cd/klm



Classifications

DIN 5040 A 4 1
 CIE N1=47 N2=77 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

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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°	340.1	340.1	340.1	340.1	340.1	340.1	340.1	2.0	2.0
5°	339.4	338.3	336.5	337.9	339.5	339.4	339.8	16.2	18.2
10°	333.5	333.0	331.2	332.8	334.6	334.7	335.0	31.7	49.9
15°	324.2	324.2	322.5	324.2	326.1	326.4	326.9	46.1	96.0
20°	311.0	311.6	310.1	311.9	314.1	314.7	315.3	58.6	154.6
25°	294.4	295.4	294.1	296.0	298.4	299.4	300.2	68.7	223.4
30°	275.2	276.6	275.1	276.8	279.4	280.7	281.6	76.1	299.5
35°	253.9	255.2	253.8	254.9	257.1	258.4	259.7	80.5	380.0
40°	231.8	232.9	231.3	231.1	232.5	233.8	235.1	81.9	461.9
45°	209.4	209.9	207.8	205.9	206.1	206.6	208.2	80.4	542.4
50°	187.2	187.1	184.8	181.3	179.3	178.3	179.7	76.6	619.0
55°	165.5	164.8	162.1	157.0	153.1	150.2	150.9	70.7	689.7
60°	143.9	142.9	139.5	133.7	127.9	123.2	122.7	63.3	753.0
65°	123.6	122.5	117.8	111.0	104.2	97.9	96.0	54.9	808.0
70°	104.7	103.3	97.1	89.4	81.7	74.3	71.0	45.8	853.8
75°	86.1	84.4	77.8	69.2	60.2	52.2	47.8	36.3	890.0
80°	68.0	66.1	60.2	50.5	40.7	32.1	26.9	26.7	916.7
85°	51.8	50.0	44.6	35.3	24.7	15.7	10.1	18.3	935.0
90°	40.8	39.2	34.4	26.0	15.9	6.9	1.8	13.1	948.2
95°	34.8	33.5	29.7	22.7	13.6	5.1	1.6	11.2	959.3
100°	29.9	28.8	25.4	19.2	11.3	3.7	1.4	9.4	968.7
105°	25.7	24.7	21.4	16.1	8.8	2.4	1.2	7.7	976.4
110°	22.1	20.9	18.0	13.0	6.6	1.4	1.1	6.1	982.5
115°	19.0	17.8	15.0	10.4	4.7	1.2	1.1	4.9	987.4
120°	16.0	14.8	12.2	7.9	3.1	1.2	1.0	3.8	991.2
125°	13.0	11.9	9.4	5.6	1.7	1.1	0.9	2.7	993.9
130°	10.1	9.1	6.9	3.7	1.4	1.1	1.0	1.9	995.9
135°	7.3	6.5	4.6	2.1	1.4	1.1	1.1	1.3	997.1
140°	4.8	4.1	2.7	1.7	1.4	1.1	1.1	0.8	998.0
145°	2.6	2.3	1.9	1.7	1.4	1.2	1.2	0.5	998.5
150°	2.0	2.0	1.9	1.6	1.3	1.3	1.3	0.4	998.9
155°	1.9	1.9	1.7	1.6	1.4	1.4	1.4	0.4	999.3
160°	1.7	1.7	1.6	1.4	1.4	1.4	1.4	0.3	999.6
165°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.2	999.8
170°	1.3	1.4	1.4	1.4	1.4	1.4	1.4	0.1	999.9
175°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.1	1000.0
180°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	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
Reflection factor of walls		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3
Reflection factor of floor		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	21.0	22.7	21.4	23.1	23.4	21.0	22.7	21.4	23.0
	3H	22.8	24.3	23.2	24.7	25.0	22.4	24.0	22.8	24.3
	4H	23.6	25.1	24.0	25.4	25.8	22.9	24.4	23.3	24.7
	6H	24.4	25.7	24.8	26.1	26.5	23.3	24.6	23.7	25.0
	8H	24.7	26.0	25.1	26.4	26.8	23.4	24.7	23.8	25.1
	12H	25.0	26.2	25.5	26.6	27.0	23.5	24.7	23.9	25.1
4H	2H	21.7	23.2	22.1	23.5	23.9	21.7	23.2	22.1	23.5
	3H	23.7	24.9	24.1	25.3	25.7	23.3	24.5	23.7	24.9
	4H	24.6	25.8	25.1	26.2	26.6	23.9	25.1	24.4	25.5
	6H	25.6	26.5	26.0	27.0	27.4	24.4	25.4	24.9	25.8
	8H	26.0	26.9	26.4	27.3	27.8	24.6	25.5	25.0	25.9
	12H	26.4	27.2	26.9	27.7	28.1	24.7	25.5	25.1	26.0
8H	4H	25.0	25.9	25.4	26.3	26.8	24.4	25.3	24.8	25.7
	6H	26.0	26.8	26.5	27.3	27.8	25.0	25.7	25.5	26.2
	8H	26.6	27.3	27.1	27.8	28.3	25.2	25.9	25.7	26.4
	12H	27.1	27.7	27.6	28.2	28.7	25.3	25.9	25.9	26.4
12H	4H	25.0	25.8	25.5	26.3	26.8	24.5	25.3	24.9	25.7
	6H	26.1	26.8	26.6	27.3	27.8	25.1	25.8	25.6	26.3
	8H	26.7	27.3	27.2	27.8	28.3	25.4	26.0	25.9	26.5

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	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°		13794.3	13879.8	13981.3	14273.7	14889.8	15714.4	16804.6
50°		13083.0	13131.5	13229.6	13431.5	13939.4	14722.5	15917.0
55°		12405.8	12420.3	12496.3	12594.8	12987.4	13671.8	14930.5
60°		11736.6	11726.7	11747.1	11784.4	12043.2	12608.3	13878.0
65°		11148.2	11121.4	11027.3	10957.3	11111.2	11536.5	12775.7
70°		10643.0	10582.9	10308.3	10113.6	10131.6	10407.7	11591.5
75°		10116.3	10020.8	9636.4	9245.5	9016.2	9109.2	10183.6
80°		9558.1	9399.4	9014.2	8319.3	7739.9	7482.4	8327.8
85°		9150.7	8957.0	8538.2	7667.0	6517.1	5584.2	5816.0

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Luminance values in cd/m²

γ 65°

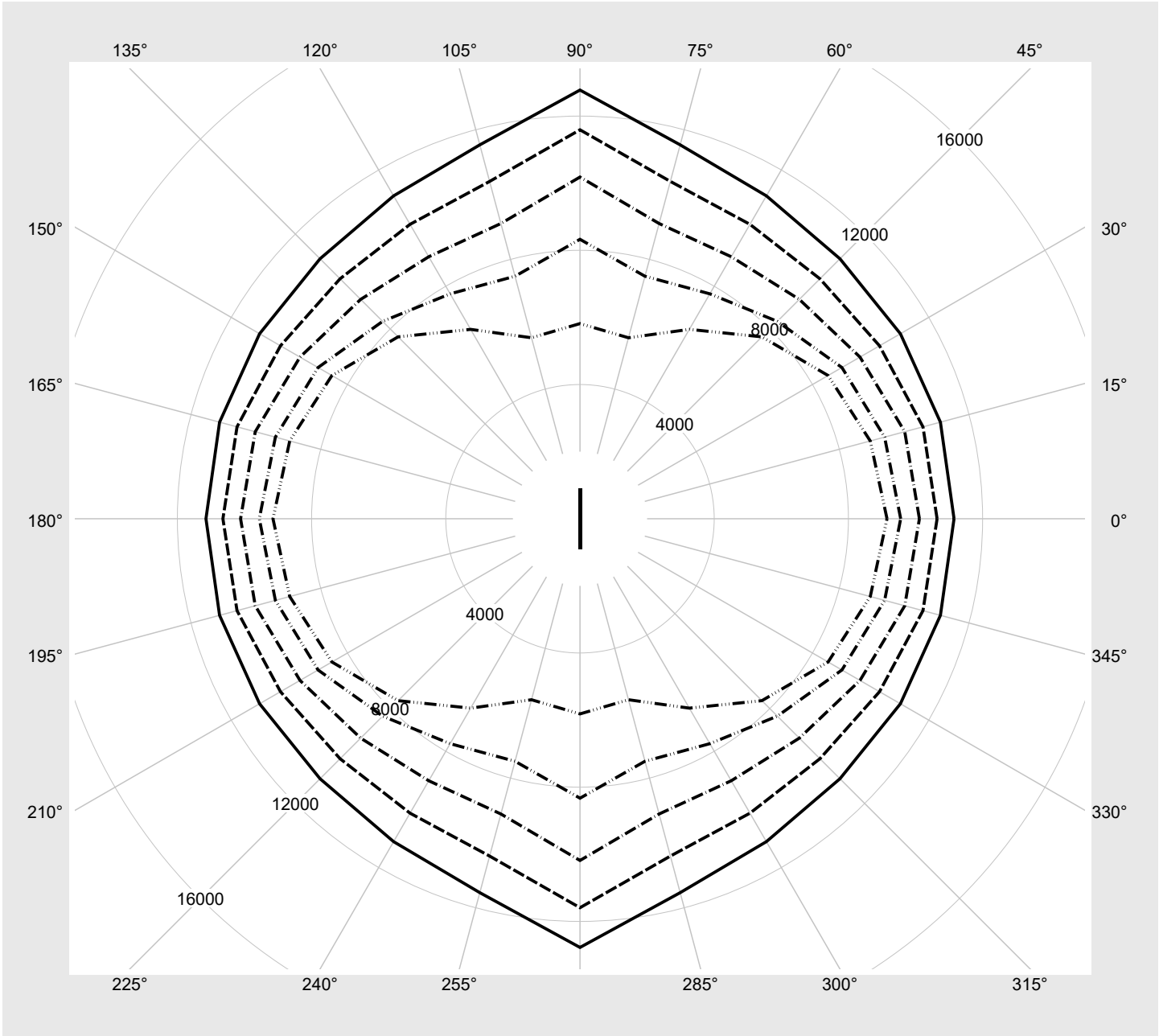
γ 70°

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	8000	49.4
95	240	252	7586	47.0
90	227	250	7198	44.7
85	214	248	6807	42.5
80	201	245	6413	40.2
75	187	243	5985	37.7
70	174	240	5587	35.4
65	162	238	5215	33.4
60	149	234	4809	31.3
55	136	231	4401	29.2
50	123	227	3990	27.0
45	111	224	3609	24.9
40	98	219	3192	22.6
35	86	214	2807	20.5
30	73	208	2386	18.2
25	61	202	1997	16.0
20	49	194	1606	13.8
15	37	183	1211	11.7
10	25	169	815	9.7
5	12	142	384	7.5
2	6	117	185	6.6