

Photometric test report

Family
Monsun® 11



Order number: **51FP20DP467L3H**
EAN: **4069025268938**

Version prismatic diffuser, opal, polycarbonate, wide distribution

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

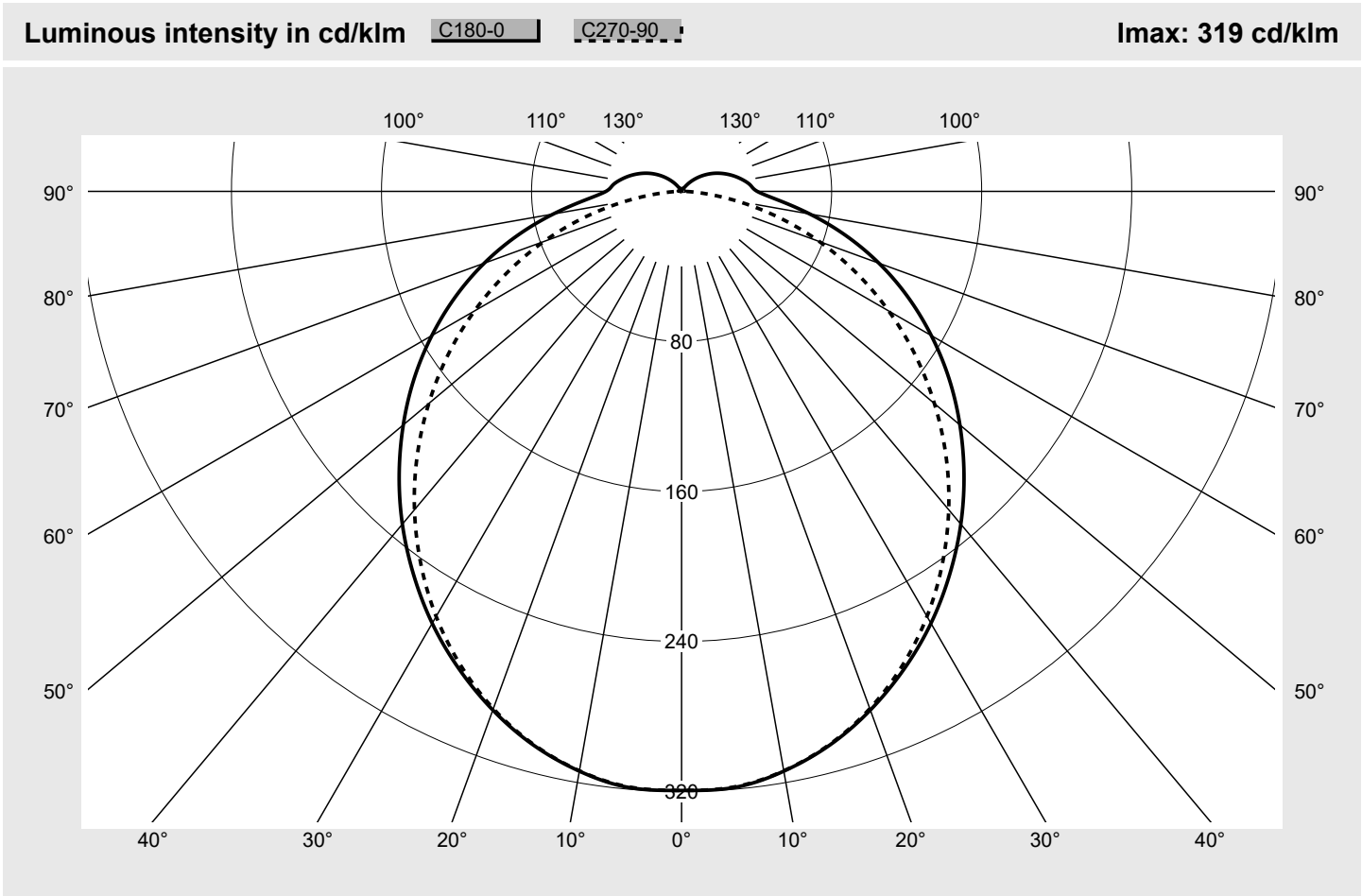
Setting AC-mode

Rated values Net luminous flux = 5450 lm
Power consumption = 35.3 W
Luminous efficacy = 154.4 lm/W

LP number
59060_149

serial
documentation
30.09.2024





Classifications		Luminaire light output ratios	
DIN 5040	A 4 1	η_{LB}	100.0%
CIE	N1=45 N2=75 N3=93	ϕ_u	93.7%
	N4=94 N5=100	ϕ_o	6.3%

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°	319.4	319.4	319.4	319.4	319.4	319.4	319.4	1.9	1.9
5°	319.1	317.8	316.0	317.2	318.6	318.6	318.8	15.2	17.1
10°	313.9	312.8	311.0	312.1	313.5	313.5	313.7	29.8	46.9
15°	305.6	304.7	302.7	303.7	305.0	304.9	305.2	43.2	90.1
20°	294.3	293.5	291.4	292.2	293.3	293.1	293.5	54.9	145.0
25°	280.9	280.2	277.7	277.9	278.8	278.5	278.8	64.6	209.6
30°	265.9	265.3	262.4	261.6	261.9	261.4	261.7	72.0	281.6
35°	249.2	248.5	245.6	243.7	242.9	242.2	242.4	77.0	358.5
40°	231.6	230.8	227.5	224.6	222.7	221.4	221.6	79.5	438.0
45°	212.9	211.8	208.5	204.2	201.3	199.0	199.4	79.5	517.5
50°	193.7	192.3	188.8	183.7	179.4	175.9	176.0	77.3	594.9
55°	174.1	172.4	168.8	162.7	157.2	152.3	152.1	73.1	667.9
60°	153.8	152.1	148.1	141.4	134.9	128.8	127.5	66.9	734.9
65°	133.1	131.4	127.0	119.9	112.8	105.5	102.8	59.2	794.0
70°	112.0	110.4	105.0	98.0	90.2	82.2	78.2	49.9	843.9
75°	90.5	88.8	83.0	75.7	67.3	58.8	53.6	39.3	883.2
80°	69.4	67.4	62.0	54.0	45.3	36.4	30.4	28.3	911.6
85°	51.2	49.1	43.8	35.9	26.7	17.7	11.3	18.6	930.2
90°	40.3	38.3	33.0	25.3	16.4	7.5	1.9	12.9	943.1
95°	36.9	35.1	30.2	22.8	14.1	5.6	1.6	11.6	954.7
100°	33.7	31.9	27.1	20.1	11.9	4.0	1.5	10.1	964.8
105°	30.1	28.5	23.8	17.3	9.5	2.6	1.3	8.6	973.4
110°	26.5	24.6	20.5	14.4	7.3	1.5	1.2	7.1	980.4
115°	22.8	21.1	17.3	11.6	5.2	1.3	1.2	5.7	986.1
120°	19.1	17.5	14.1	8.9	3.4	1.3	1.1	4.4	990.5
125°	15.4	13.9	10.8	6.2	1.7	1.2	1.0	3.2	993.6
130°	11.8	10.5	7.7	3.9	1.4	1.2	1.0	2.2	995.8
135°	8.3	7.2	5.0	2.0	1.4	1.2	1.1	1.4	997.2
140°	5.1	4.3	2.5	1.6	1.3	1.1	1.0	0.8	998.0
145°	2.4	2.0	1.8	1.6	1.4	1.2	1.2	0.5	998.5
150°	1.9	1.9	1.8	1.5	1.4	1.3	1.2	0.4	999.0
155°	1.8	1.8	1.6	1.5	1.4	1.3	1.3	0.4	999.3
160°	1.6	1.6	1.5	1.5	1.4	1.4	1.3	0.3	999.6
165°	1.5	1.5	1.4	1.4	1.4	1.4	1.3	0.2	999.8
170°	1.4	1.4	1.4	1.4	1.4	1.4	1.3	0.1	999.9
175°	1.3	1.3	1.3	1.4	1.4	1.4	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
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	20.0	21.7	20.3	22.0	22.3	19.8	21.5	20.2	21.8
	3H	21.8	23.4	22.2	23.7	24.1	21.4	22.9	21.7	23.3
	4H	22.6	24.1	23.0	24.5	24.8	22.0	23.5	22.4	23.8
	6H	23.4	24.7	23.8	25.1	25.5	22.4	23.8	22.8	24.1
	8H	23.7	25.0	24.1	25.4	25.8	22.5	23.8	23.0	24.2
	12H	24.0	25.2	24.4	25.6	26.0	22.6	23.8	23.0	24.2
4H	2H	20.7	22.2	21.1	22.6	22.9	20.6	22.1	21.0	22.4
	3H	22.7	24.0	23.2	24.4	24.8	22.3	23.6	22.8	24.0
	4H	23.7	24.9	24.1	25.3	25.7	23.1	24.2	23.5	24.6
	6H	24.6	25.6	25.0	26.0	26.5	23.6	24.6	24.1	25.0
	8H	25.0	25.9	25.4	26.3	26.8	23.8	24.7	24.2	25.2
	12H	25.3	26.2	25.8	26.6	27.1	23.9	24.7	24.4	25.2
8H	4H	24.0	25.0	24.5	25.4	25.9	23.5	24.4	24.0	24.9
	6H	25.1	25.9	25.6	26.3	26.8	24.2	25.0	24.7	25.4
	8H	25.6	26.3	26.1	26.7	27.3	24.4	25.1	24.9	25.6
	12H	26.1	26.7	26.6	27.2	27.7	24.6	25.2	25.1	25.7
12H	4H	24.1	24.9	24.6	25.4	25.9	23.6	24.4	24.1	24.9
	6H	25.2	25.9	25.7	26.3	26.9	24.3	25.0	24.8	25.5
	8H	25.7	26.3	26.2	26.8	27.3	24.6	25.2	25.1	25.7

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° 50° 55° 60°	γ	9558.0	9544.8	9555.5	9643.3	9904.7	10311.5	10963.1
		9220.8	9193.8	9208.3	9271.9	9500.7	9893.0	10618.5
		8893.5	8849.9	8863.1	8889.6	9083.7	9446.3	10252.9
		8543.5	8500.4	8496.8	8495.9	8651.6	8977.7	9822.6
65° 70° 75° 80° 85°	γ	8175.6	8129.8	8092.5	8067.0	8192.0	8464.9	9315.1
		7757.0	7706.4	7598.7	7552.1	7621.8	7842.7	8689.8
		7245.7	7181.1	7002.5	6893.9	6861.6	6990.0	7781.7
		6649.3	6531.9	6330.6	6057.6	5871.5	5790.0	6426.7
		6162.6	5997.7	5715.3	5302.6	4800.8	4290.6	4445.2

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Luminance values in cd/m²

γ 65°

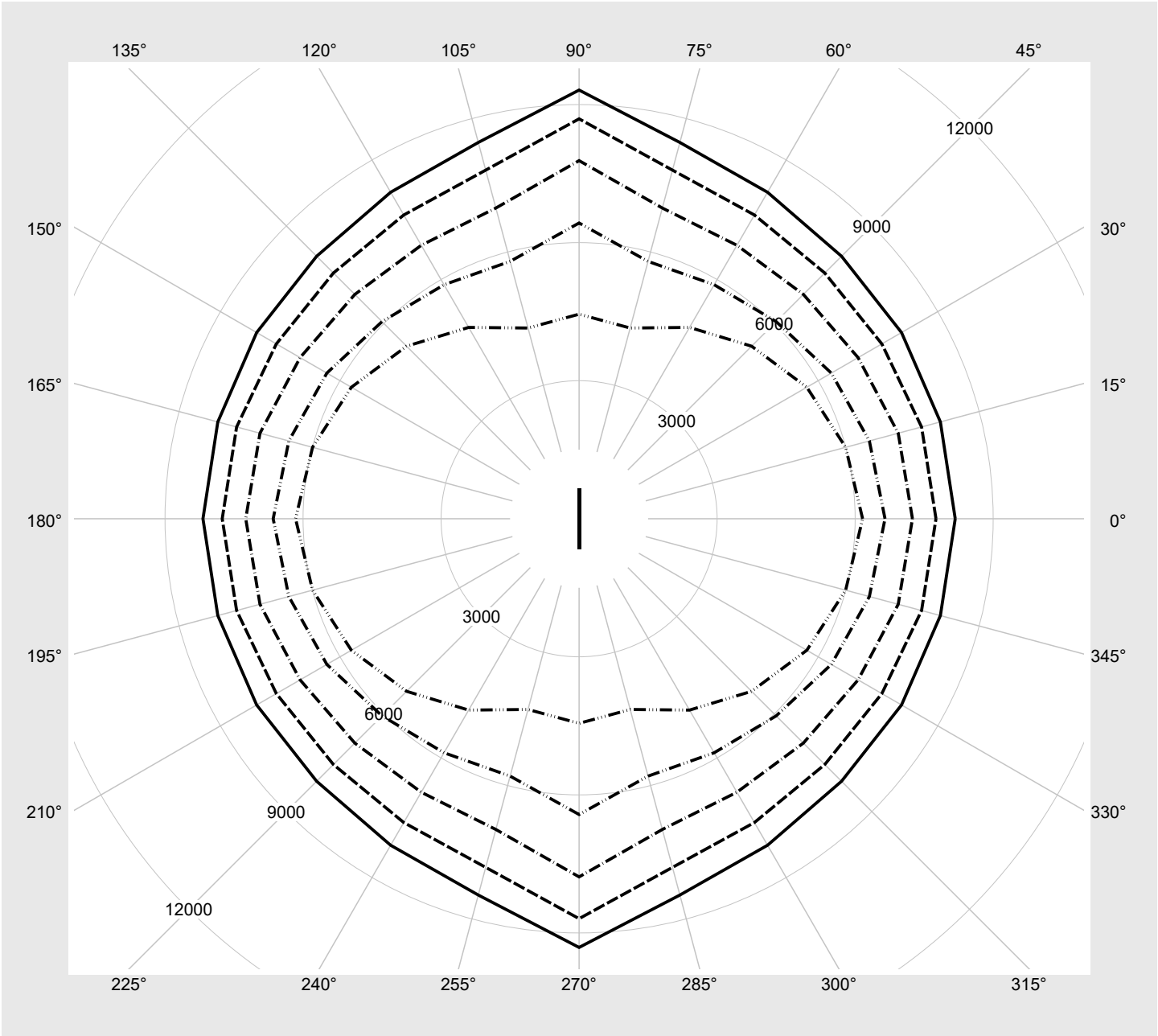
γ 70°

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	5450	35.3
95	241	252	5186	33.8
90	227	250	4900	32.2
85	214	248	4634	30.8
80	201	245	4366	29.3
75	188	243	4095	27.8
70	175	240	3824	26.3
65	162	238	3550	24.8
60	149	234	3275	23.2
55	136	231	2998	21.7
50	123	227	2720	20.1
45	111	224	2461	18.6
40	98	219	2179	17.0
35	86	214	1917	15.4
30	73	208	1632	13.8
25	61	202	1366	12.3
20	49	194	1097	11.0
15	37	183	826	9.6
10	25	169	554	8.2
5	13	145	279	7.0
3	8	127	164	6.7