

Photometric test report

Family
Monsun® 21



Order number: 51FB20DP467C3H
EAN: 4069025178442

Version

Lamps

Controlgear

Setting

Rated values

prismatic diffuser, opal, polycarbonate,
extremely wide distribution

LED 4000 K | CRI ≥ 80

ECG-DALI

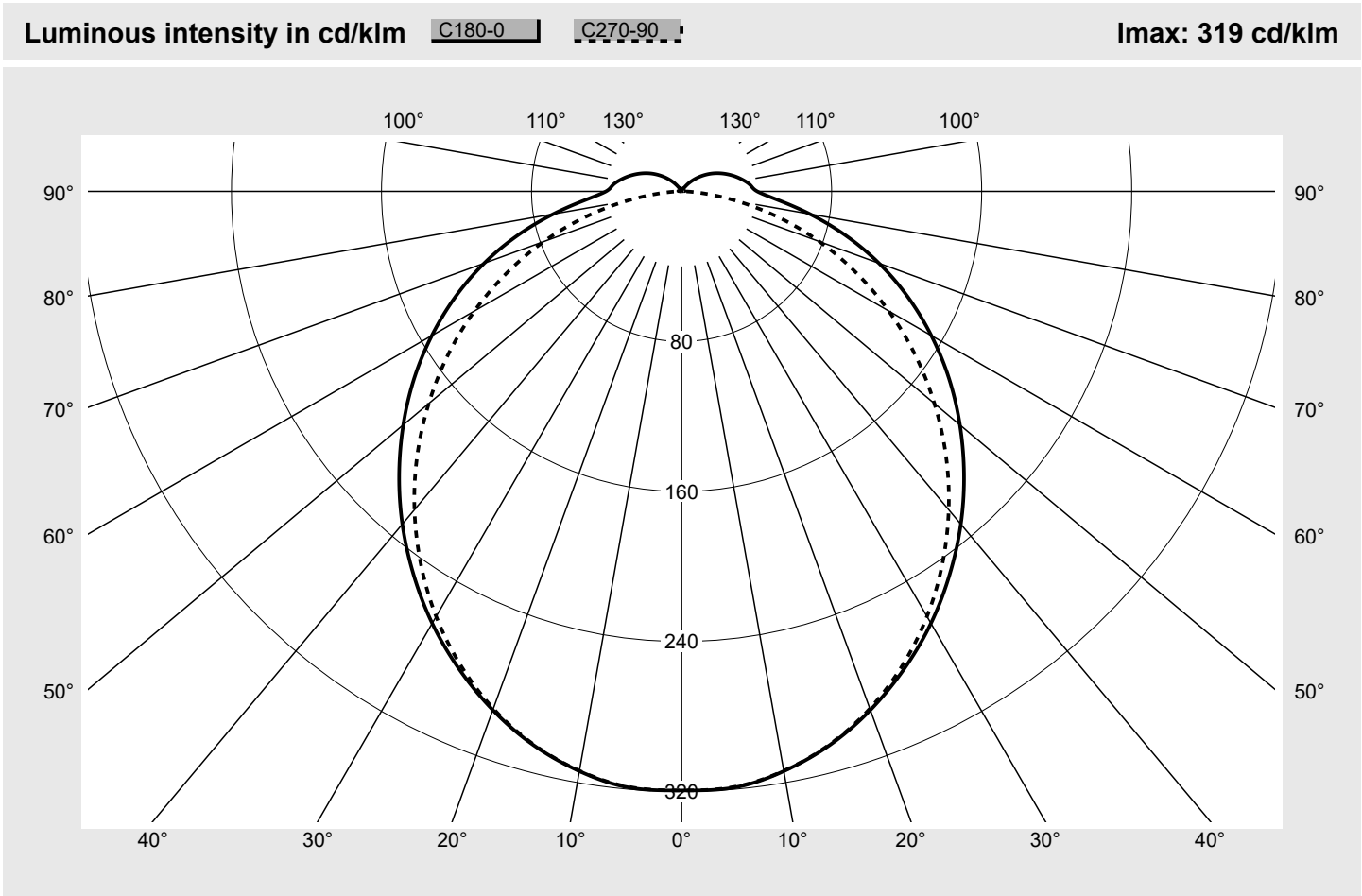
emergency light operation: 3 h

Net luminous flux = 840 lm
Power consumption = 6.2 W
Luminous efficacy = 135.5 lm/W

LP number
59060_126

serial
documentation
08.05.2024

siteco



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		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	13.5	15.2	13.8	15.5	15.9	13.3	15.0	13.7	15.3	15.7	
	3H	15.3	16.9	15.7	17.2	17.6	14.9	16.4	15.2	16.8	17.1	
	4H	16.1	17.6	16.5	18.0	18.3	15.5	17.0	15.9	17.3	17.7	
	6H	16.9	18.2	17.3	18.6	19.0	15.9	17.3	16.3	17.6	18.0	
	8H	17.2	18.5	17.6	18.9	19.3	16.0	17.3	16.5	17.7	18.1	
	12H	17.5	18.7	17.9	19.1	19.5	16.1	17.3	16.5	17.7	18.1	
4H	2H	14.2	15.7	14.6	16.1	16.4	14.1	15.6	14.5	15.9	16.3	
	3H	16.2	17.5	16.7	17.9	18.3	15.8	17.1	16.3	17.5	17.9	
	4H	17.2	18.4	17.6	18.8	19.2	16.6	17.7	17.0	18.1	18.6	
	6H	18.1	19.1	18.5	19.5	20.0	17.1	18.1	17.6	18.6	19.0	
	8H	18.5	19.4	18.9	19.8	20.3	17.3	18.2	17.7	18.7	19.1	
	12H	18.8	19.7	19.3	20.1	20.6	17.4	18.2	17.9	18.7	19.2	
8H	4H	17.5	18.5	18.0	18.9	19.4	17.0	17.9	17.5	18.4	18.8	
	6H	18.6	19.4	19.1	19.8	20.3	17.7	18.5	18.2	18.9	19.4	
	8H	19.1	19.8	19.6	20.2	20.8	17.9	18.6	18.4	19.1	19.6	
	12H	19.6	20.2	20.1	20.7	21.2	18.1	18.7	18.6	19.2	19.7	
12H	4H	17.6	18.4	18.1	18.9	19.4	17.1	17.9	17.6	18.4	18.9	
	6H	18.7	19.4	19.2	19.8	20.4	17.8	18.5	18.3	19.0	19.5	
	8H	19.2	19.8	19.7	20.3	20.8	18.1	18.7	18.6	19.2	19.7	

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°			1473.2	1471.1	1472.8	1486.3	1526.6	1589.3
			1421.2	1417.0	1419.3	1429.1	1464.3	1524.8
			1370.7	1364.0	1366.1	1370.1	1400.1	1455.9
			1316.8	1310.1	1309.6	1309.5	1333.5	1383.7
65° 70° 75° 80°			1260.1	1253.0	1247.3	1243.4	1262.6	1304.7
			1195.6	1187.8	1171.2	1164.0	1174.7	1208.8
			1116.8	1106.8	1079.3	1062.5	1057.6	1077.4
			1024.8	1006.8	975.7	933.7	905.0	892.4
85°			949.8	924.4	880.9	817.3	739.9	661.3

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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