

Photometric test report

Family

Monsun® 21



Order number: 51FB207P467C3G

EAN: 4069025178343

LP number

59060_125

Version

prismatic diffuser, opal, polycarbonate,
extremely wide distribution

Lamps

LED 4000 K | CRI ≥ 80

Controlgear

ECG

Setting

emergency light operation: 3 h

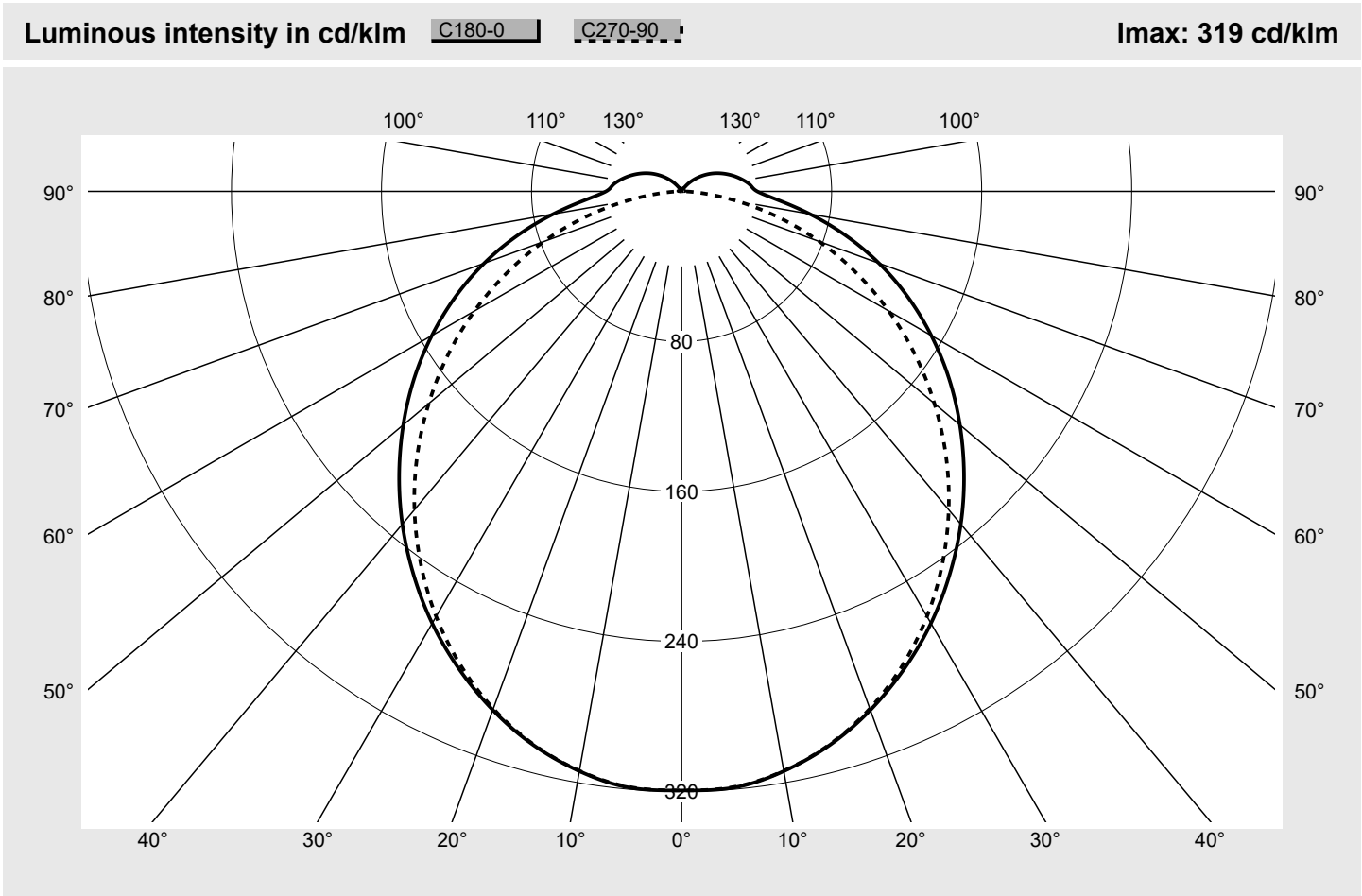
Rated values

Net luminous flux = 820 lm
Power consumption = 7.1 W
Luminous efficacy = 115.5 lm/W

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	13.4	15.1	13.8	15.4	15.8	13.2	15.0	13.6	15.3	15.6
	3H	15.2	16.8	15.6	17.1	17.5	14.8	16.4	15.2	16.7	17.0
	4H	16.1	17.5	16.4	17.9	18.2	15.4	16.9	15.8	17.2	17.6
	6H	16.8	18.1	17.2	18.5	18.9	15.8	17.2	16.2	17.6	17.9
	8H	17.1	18.4	17.5	18.8	19.2	16.0	17.3	16.4	17.6	18.0
	12H	17.4	18.6	17.8	19.0	19.4	16.0	17.3	16.4	17.6	18.1
4H	2H	14.1	15.6	14.5	16.0	16.4	14.0	15.5	14.4	15.8	16.2
	3H	16.2	17.4	16.6	17.8	18.2	15.8	17.0	16.2	17.4	17.8
	4H	17.1	18.3	17.6	18.7	19.1	16.5	17.6	16.9	18.0	18.5
	6H	18.0	19.0	18.4	19.4	19.9	17.0	18.0	17.5	18.5	18.9
	8H	18.4	19.3	18.8	19.7	20.2	17.2	18.1	17.7	18.6	19.0
	12H	18.8	19.6	19.2	20.0	20.5	17.3	18.2	17.8	18.6	19.1
8H	4H	17.5	18.4	17.9	18.8	19.3	16.9	17.8	17.4	18.3	18.8
	6H	18.5	19.3	19.0	19.7	20.2	17.6	18.4	18.1	18.8	19.3
	8H	19.0	19.7	19.5	20.2	20.7	17.8	18.5	18.3	19.0	19.5
	12H	19.5	20.1	20.0	20.6	21.1	18.0	18.6	18.5	19.1	19.6
12H	4H	17.5	18.4	18.0	18.8	19.3	17.0	17.8	17.5	18.3	18.8
	6H	18.6	19.3	19.1	19.8	20.3	17.8	18.4	18.2	18.9	19.4
	8H	19.1	19.7	19.6	20.2	20.8	18.0	18.6	18.5	19.1	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	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°	1438.1	1436.1	1437.7	1450.9	1490.3	1551.4	1649.5
50°	1387.4	1383.3	1385.5	1395.0	1429.5	1488.5	1597.6
55°	1338.1	1331.5	1333.5	1337.5	1366.7	1421.3	1542.6
60°	1285.5	1279.0	1278.4	1278.3	1301.7	1350.8	1477.9
65°	1230.1	1223.2	1217.6	1213.8	1232.6	1273.6	1401.5
70°	1167.1	1159.5	1143.3	1136.3	1146.8	1180.0	1307.5
75°	1090.2	1080.5	1053.6	1037.2	1032.4	1051.7	1170.8
80°	1000.4	982.8	952.5	911.4	883.4	871.1	966.9
85°	927.2	902.4	859.9	797.8	722.3	645.6	668.8

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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