

Photometric test report

Family
Monsun® 11



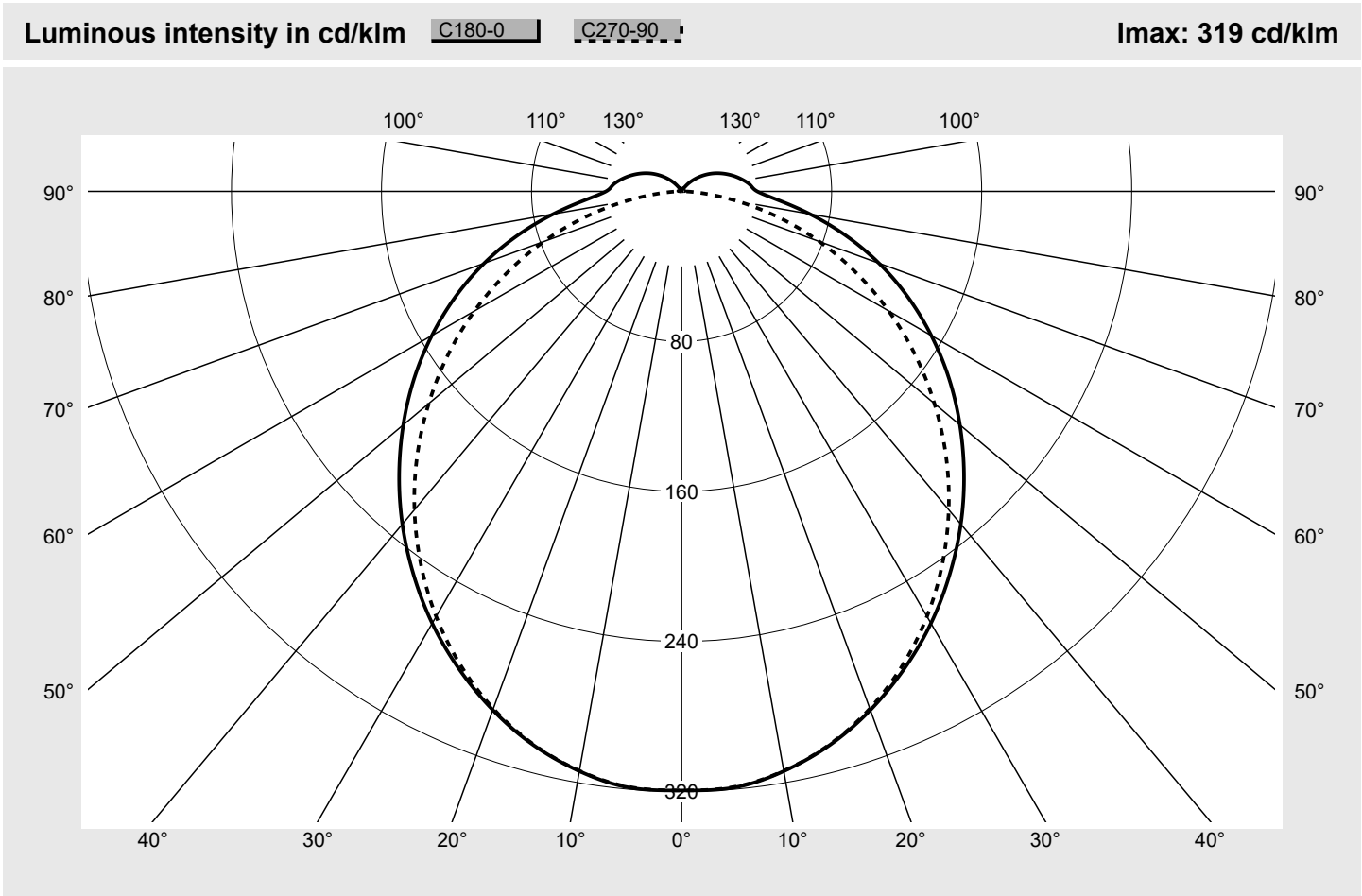
Order number: 51FE207P450M
EAN: 4069025280244

Version
prismatic diffuser, opal, polycarbonate, wide distribution
Lamps
LED 4000 K | CRI ≥ 80
Controlgear
ECG
Rated values
Net luminous flux = 5740 lm
Power consumption = 33.5 W
Luminous efficacy = 171.3 lm/W

LP number
59060_159

serial
documentation
30.09.2024

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	20.2	21.9	20.5	22.2	22.5	20.0	21.7	20.3	22.0	22.3	
	3H	22.0	23.6	22.4	23.9	24.2	21.5	23.1	21.9	23.4	23.8	
	4H	22.8	24.3	23.2	24.6	25.0	22.1	23.6	22.5	24.0	24.4	
	6H	23.5	24.9	23.9	25.3	25.7	22.6	24.0	23.0	24.3	24.7	
	8H	23.9	25.2	24.3	25.5	25.9	22.7	24.0	23.1	24.4	24.8	
	12H	24.2	25.4	24.6	25.8	26.2	22.8	24.0	23.2	24.4	24.8	
4H	2H	20.9	22.4	21.3	22.7	23.1	20.8	22.2	21.2	22.6	23.0	
	3H	22.9	24.2	23.3	24.6	25.0	22.5	23.8	22.9	24.2	24.6	
	4H	23.9	25.0	24.3	25.4	25.9	23.2	24.4	23.7	24.8	25.2	
	6H	24.7	25.8	25.2	26.2	26.6	23.8	24.8	24.2	25.2	25.7	
	8H	25.1	26.1	25.6	26.5	27.0	24.0	24.9	24.4	25.3	25.8	
	12H	25.5	26.3	26.0	26.8	27.3	24.1	24.9	24.5	25.4	25.9	
8H	4H	24.2	25.2	24.7	25.6	26.1	23.7	24.6	24.1	25.0	25.5	
	6H	25.3	26.0	25.7	26.5	27.0	24.4	25.1	24.8	25.6	26.1	
	8H	25.7	26.4	26.2	26.9	27.4	24.6	25.3	25.1	25.8	26.3	
	12H	26.2	26.8	26.8	27.3	27.9	24.8	25.4	25.3	25.9	26.4	
12H	4H	24.3	25.1	24.7	25.6	26.1	23.8	24.6	24.3	25.1	25.5	
	6H	25.3	26.0	25.8	26.5	27.0	24.5	25.2	25.0	25.7	26.2	
	8H	25.9	26.5	26.4	27.0	27.5	24.8	25.4	25.3	25.9	26.4	

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°		10066.6	10052.7	10064.0	10156.5	10431.8	10860.1	11546.5
50°		9711.5	9683.0	9698.3	9765.2	10006.3	10419.4	11183.5
55°		9366.7	9320.8	9334.7	9362.6	9567.1	9948.9	10798.4
60°		8998.2	8952.7	8949.0	8947.9	9112.0	9455.4	10345.3
65°		8610.6	8562.4	8523.1	8496.3	8627.9	8915.3	9810.8
70°		8169.8	8116.5	8003.0	7953.9	8027.3	8260.0	9152.2
75°		7631.3	7563.2	7375.1	7260.7	7226.7	7362.0	8195.8
80°		7003.1	6879.5	6667.5	6380.0	6183.9	6098.0	6768.6
85°		6490.5	6316.9	6019.4	5584.8	5056.3	4518.9	4681.7

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

siteco

