

Photometric test report

Family
Monsun® 11



Order number: 51FP207P437L3G
EAN: 4069025280435

Version

Lamps

Controlgear

Setting

Rated values

prismatic diffuser, opal, polycarbonate, wide distribution

LED 4000 K | CRI ≥ 80

ECG

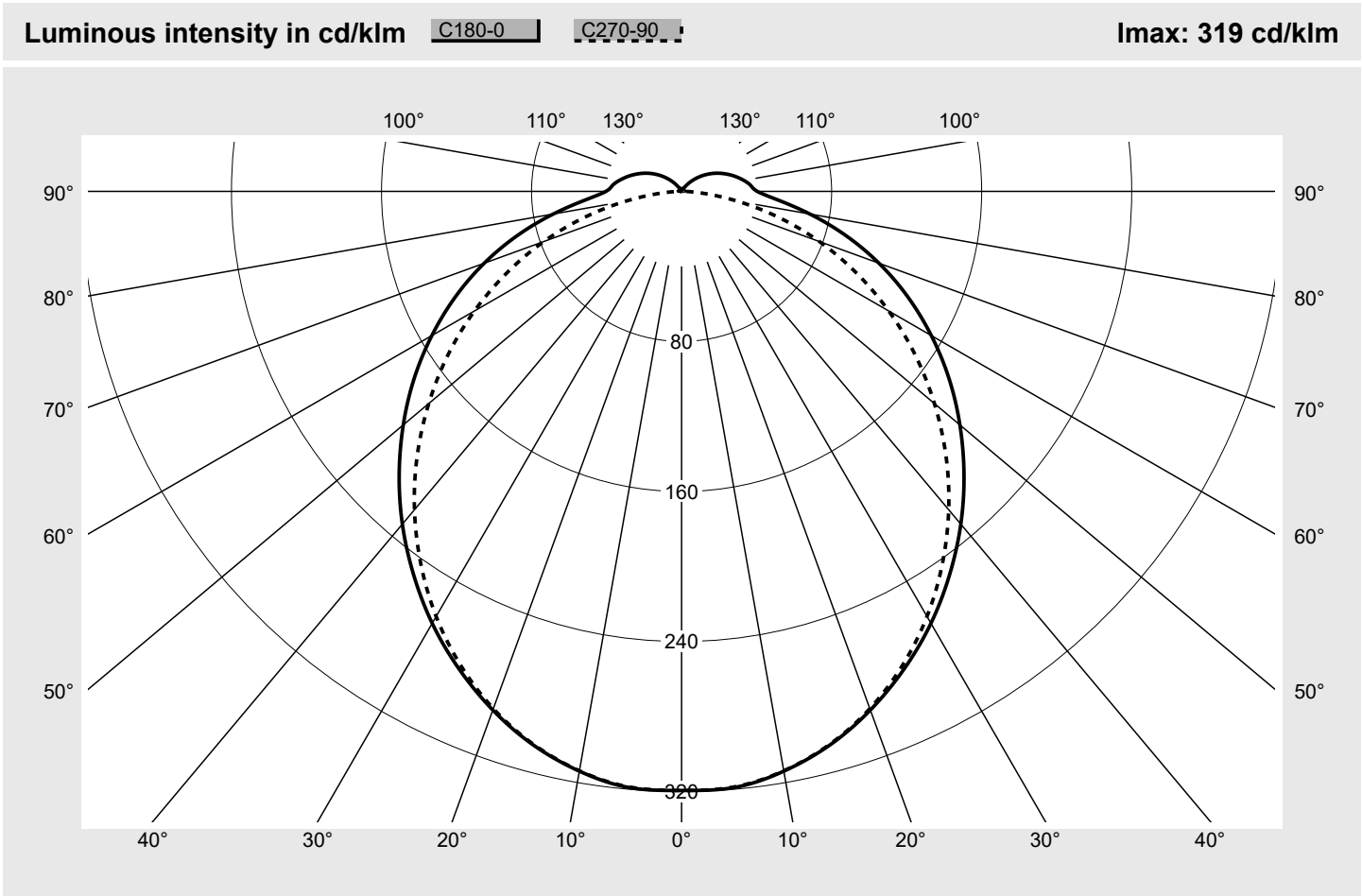
AC-mode

Net luminous flux = 3990 lm
Power consumption = 28.1 W
Luminous efficacy = 142 lm/W

LP number
59060_141

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	18.9	20.6	19.3	20.9	21.3	18.7	20.4	19.1	20.8	21.1
	3H	20.7	22.3	21.1	22.6	23.0	20.3	21.8	20.7	22.2	22.5
	4H	21.5	23.0	21.9	23.4	23.7	20.9	22.4	21.3	22.7	23.1
	6H	22.3	23.6	22.7	24.0	24.4	21.3	22.7	21.7	23.1	23.4
	8H	22.6	23.9	23.0	24.3	24.7	21.5	22.8	21.9	23.1	23.5
	12H	22.9	24.1	23.3	24.5	24.9	21.5	22.8	21.9	23.1	23.6
4H	2H	19.6	21.1	20.0	21.5	21.8	19.5	21.0	19.9	21.3	21.7
	3H	21.7	22.9	22.1	23.3	23.7	21.3	22.5	21.7	22.9	23.3
	4H	22.6	23.8	23.0	24.2	24.6	22.0	23.1	22.4	23.5	24.0
	6H	23.5	24.5	23.9	24.9	25.4	22.5	23.5	23.0	24.0	24.4
	8H	23.9	24.8	24.3	25.2	25.7	22.7	23.6	23.2	24.1	24.5
	12H	24.2	25.1	24.7	25.5	26.0	22.8	23.6	23.3	24.1	24.6
8H	4H	23.0	23.9	23.4	24.3	24.8	22.4	23.3	22.9	23.8	24.3
	6H	24.0	24.8	24.5	25.2	25.7	23.1	23.9	23.6	24.3	24.8
	8H	24.5	25.2	25.0	25.7	26.2	23.3	24.0	23.8	24.5	25.0
	12H	25.0	25.6	25.5	26.1	26.6	23.5	24.1	24.0	24.6	25.1
12H	4H	23.0	23.9	23.5	24.3	24.8	22.5	23.3	23.0	23.8	24.3
	6H	24.1	24.8	24.6	25.3	25.8	23.2	23.9	23.7	24.4	24.9
	8H	24.6	25.2	25.1	25.7	26.3	23.5	24.1	24.0	24.6	25.2

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°	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°	6997.5	6987.8	6995.7	7060.0	7251.3	7549.1	8026.2			
	50°	6750.7	6730.9	6741.5	6788.0	6955.6	7242.7	7773.9			
	55°	6511.0	6479.1	6488.8	6508.2	6650.3	6915.7	7506.2			
	60°	6254.8	6223.2	6220.6	6219.9	6333.9	6572.7	7191.2			
	65°	5985.4	5951.9	5924.6	5905.9	5997.4	6197.2	6819.7			
	70°	5679.0	5641.9	5563.1	5529.0	5580.0	5741.7	6361.9			
	75°	5304.7	5257.4	5126.6	5047.1	5023.5	5117.5	5697.1			
	80°	4868.0	4782.1	4634.7	4434.9	4298.6	4238.9	4705.0			
	85°	4511.7	4391.0	4184.2	3882.1	3514.7	3141.2	3254.4			

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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