

Photometric test report

Family
Monsun® 21

Order number: **51FB107P430K**
EAN: **4069025177728**

LP number
58939_123



Version prismatic diffuser, opal, PMMA, extremely wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG
Rated values Net luminous flux = 3940 lm
Power consumption = 22.1 W
Luminous efficacy = 178.3 lm/W

serial
documentation
08.05.2024

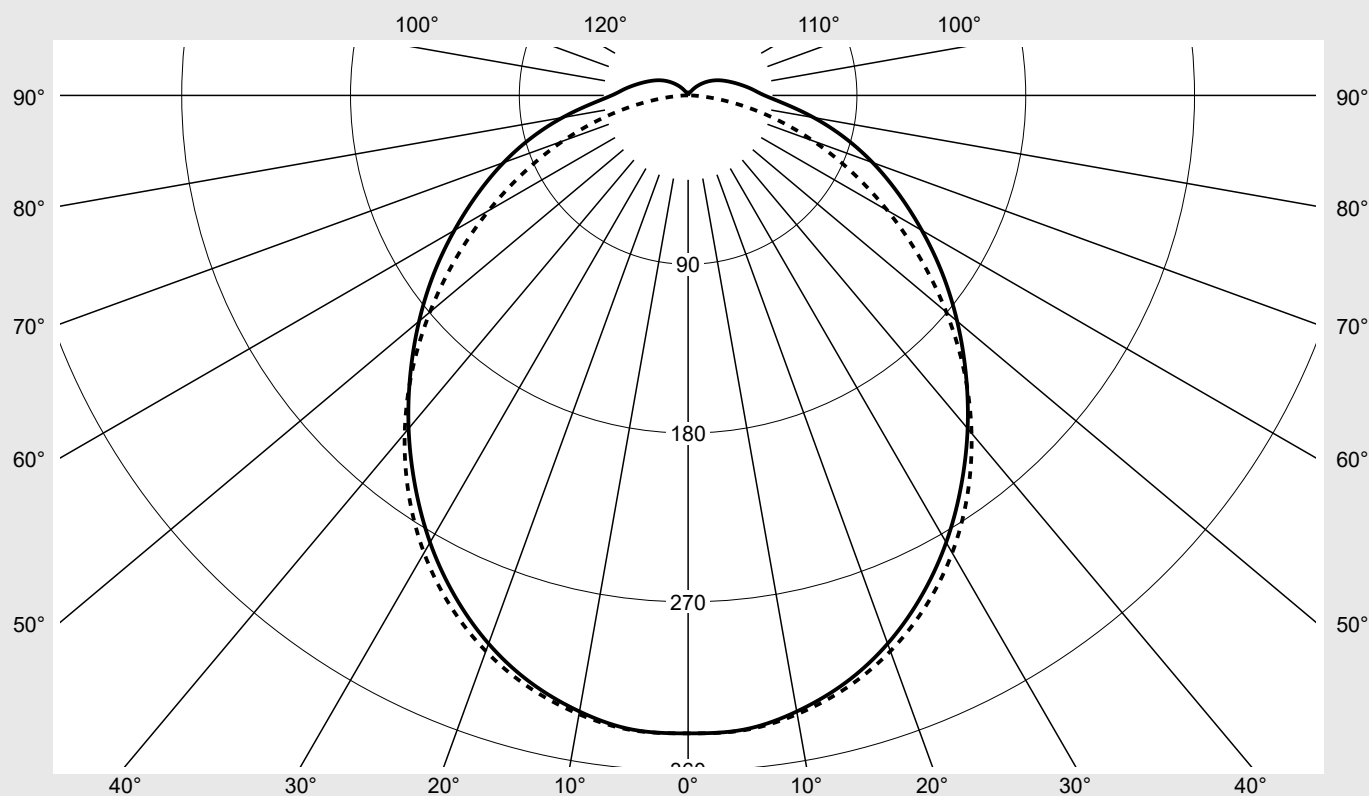
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Luminous intensity in cd/klm

C180-0

C270-90

Imax: 340 cd/klm



Classifications

DIN 5040 A 4 1
CIE N1=47 N2=77 N3=93
N4=94 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 94.2%
 ϕ_o 5.8%

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°	340.1	340.1	340.1	340.1	340.1	340.1	340.1	2.0	2.0
5°	339.4	338.3	336.5	337.9	339.5	339.4	339.8	16.2	18.2
10°	333.5	333.0	331.2	332.8	334.6	334.7	335.0	31.7	49.9
15°	324.2	324.2	322.5	324.2	326.1	326.4	326.9	46.1	96.0
20°	311.0	311.6	310.1	311.9	314.1	314.7	315.3	58.6	154.6
25°	294.4	295.4	294.1	296.0	298.4	299.4	300.2	68.7	223.4
30°	275.2	276.6	275.1	276.8	279.4	280.7	281.6	76.1	299.5
35°	253.9	255.2	253.8	254.9	257.1	258.4	259.7	80.5	380.0
40°	231.8	232.9	231.3	231.1	232.5	233.8	235.1	81.9	461.9
45°	209.4	209.9	207.8	205.9	206.1	206.6	208.2	80.4	542.4
50°	187.2	187.1	184.8	181.3	179.3	178.3	179.7	76.6	619.0
55°	165.5	164.8	162.1	157.0	153.1	150.2	150.9	70.7	689.7
60°	143.9	142.9	139.5	133.7	127.9	123.2	122.7	63.3	753.0
65°	123.6	122.5	117.8	111.0	104.2	97.9	96.0	54.9	808.0
70°	104.7	103.3	97.1	89.4	81.7	74.3	71.0	45.8	853.8
75°	86.1	84.4	77.8	69.2	60.2	52.2	47.8	36.3	890.0
80°	68.0	66.1	60.2	50.5	40.7	32.1	26.9	26.7	916.7
85°	51.8	50.0	44.6	35.3	24.7	15.7	10.1	18.3	935.0
90°	40.8	39.2	34.4	26.0	15.9	6.9	1.8	13.1	948.2
95°	34.8	33.5	29.7	22.7	13.6	5.1	1.6	11.2	959.3
100°	29.9	28.8	25.4	19.2	11.3	3.7	1.4	9.4	968.7
105°	25.7	24.7	21.4	16.1	8.8	2.4	1.2	7.7	976.4
110°	22.1	20.9	18.0	13.0	6.6	1.4	1.1	6.1	982.5
115°	19.0	17.8	15.0	10.4	4.7	1.2	1.1	4.9	987.4
120°	16.0	14.8	12.2	7.9	3.1	1.2	1.0	3.8	991.2
125°	13.0	11.9	9.4	5.6	1.7	1.1	0.9	2.7	993.9
130°	10.1	9.1	6.9	3.7	1.4	1.1	1.0	1.9	995.9
135°	7.3	6.5	4.6	2.1	1.4	1.1	1.1	1.3	997.1
140°	4.8	4.1	2.7	1.7	1.4	1.1	1.1	0.8	998.0
145°	2.6	2.3	1.9	1.7	1.4	1.2	1.2	0.5	998.5
150°	2.0	2.0	1.9	1.6	1.3	1.3	1.3	0.4	998.9
155°	1.9	1.9	1.7	1.6	1.4	1.4	1.4	0.4	999.3
160°	1.7	1.7	1.6	1.4	1.4	1.4	1.4	0.3	999.6
165°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.2	999.8
170°	1.3	1.4	1.4	1.4	1.4	1.4	1.4	0.1	999.9
175°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.1	1000.0
180°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	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	18.6	20.3	18.9	20.6	20.9	18.6	20.3	18.9	20.6	20.9
	3H	20.3	21.9	20.7	22.2	22.6	19.9	21.5	20.3	21.8	22.2
	4H	21.1	22.6	21.5	22.9	23.3	20.5	21.9	20.9	22.3	22.6
	6H	21.9	23.2	22.3	23.6	24.0	20.8	22.2	21.2	22.6	22.9
	8H	22.3	23.5	22.7	23.9	24.3	21.0	22.2	21.4	22.6	23.0
	12H	22.6	23.8	23.0	24.2	24.6	21.0	22.2	21.4	22.6	23.0
4H	2H	19.3	20.7	19.7	21.1	21.5	19.3	20.7	19.7	21.1	21.4
	3H	21.2	22.5	21.6	22.9	23.3	20.8	22.1	21.3	22.5	22.9
	4H	22.2	23.3	22.6	23.7	24.1	21.5	22.6	21.9	23.0	23.5
	6H	23.1	24.1	23.5	24.5	25.0	22.0	23.0	22.4	23.4	23.8
	8H	23.5	24.4	24.0	24.9	25.3	22.1	23.0	22.6	23.5	23.9
	12H	23.9	24.7	24.4	25.2	25.7	22.2	23.0	22.7	23.5	24.0
8H	4H	22.5	23.4	23.0	23.9	24.3	21.9	22.8	22.4	23.2	23.7
	6H	23.6	24.4	24.1	24.8	25.3	22.5	23.3	23.0	23.7	24.2
	8H	24.1	24.8	24.6	25.3	25.8	22.7	23.4	23.2	23.9	24.4
	12H	24.7	25.3	25.2	25.8	26.3	22.9	23.5	23.4	24.0	24.5
12H	4H	22.5	23.4	23.0	23.8	24.3	22.0	22.8	22.5	23.3	23.7
	6H	23.7	24.4	24.2	24.8	25.3	22.7	23.3	23.2	23.8	24.3
	8H	24.3	24.9	24.8	25.4	25.9	22.9	23.5	23.4	24.0	24.5

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°				
		180°							90° 270°		
Luminance in cd/m²											
45°		6793.7	6835.8	6885.8	7029.8	7333.2	7739.3	8276.2			
50°		6443.4	6467.2	6515.6	6615.0	6865.2	7250.8	7839.1			
55°		6109.9	6117.0	6154.4	6202.9	6396.3	6733.3	7353.3			
60°		5780.3	5775.4	5785.5	5803.8	5931.3	6209.6	6834.9			
65°		5490.5	5477.3	5431.0	5396.5	5472.3	5681.7	6292.0			
70°		5241.7	5212.1	5076.8	4980.9	4989.8	5125.8	5708.8			
75°		4982.3	4935.3	4745.9	4553.4	4440.5	4486.3	5015.4			
80°		4707.4	4629.2	4439.5	4097.2	3811.9	3685.1	4101.4			
85°		4506.7	4411.3	4205.1	3776.0	3209.7	2750.2	2864.4			

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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