

Photometric test report

Family
Monsun® 12

Order number: 51FP108P430H
EAN: 4058352391396

LP number
58939_106



Version prismatic diffuser, opal, PMMA, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG
Rated values Net luminous flux = 3970 lm
Power consumption = 22.2 W
Luminous efficacy = 178.8 lm/W

serial
documentation
12.12.2023

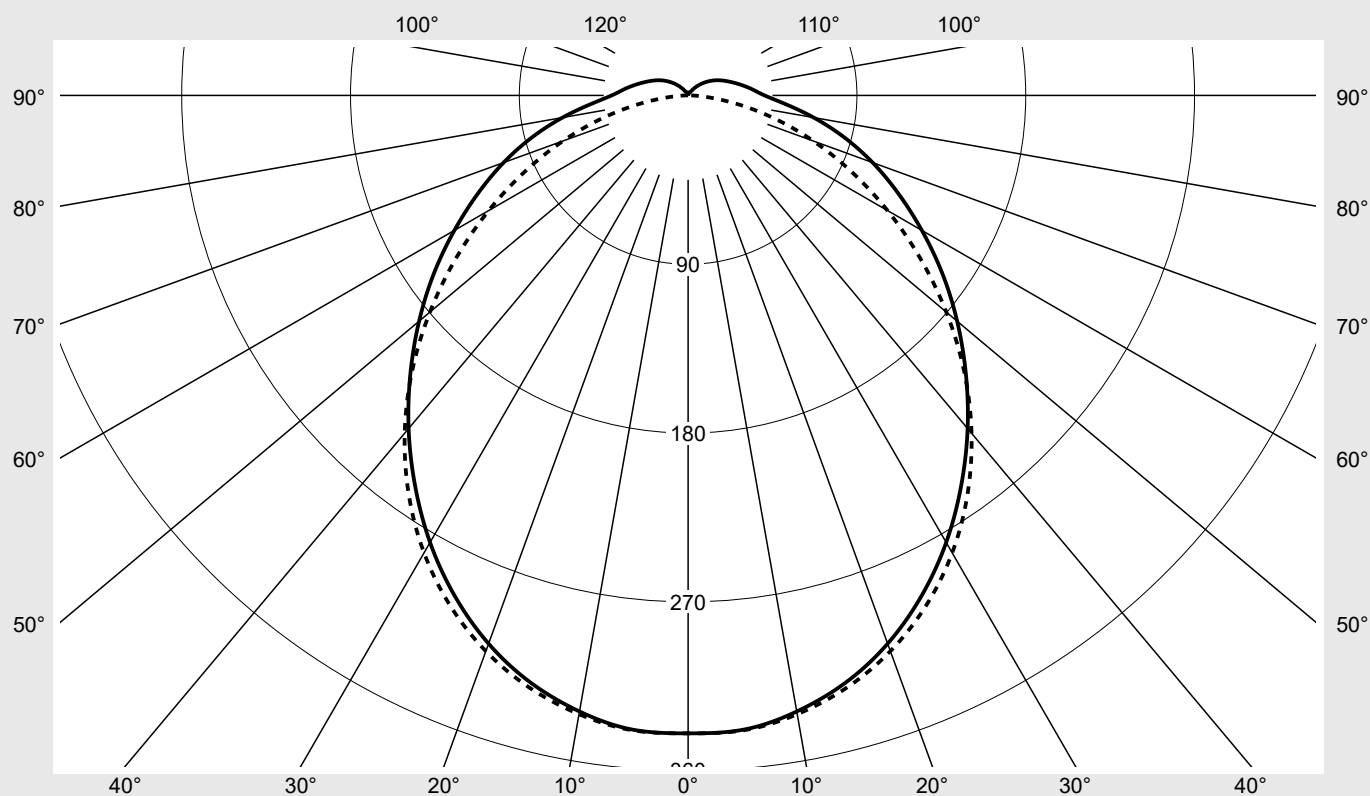
siteco

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

Photometric test report

Family Monsun® 12	Order number: 51FP108P430H EAN: 4058352391396	LP number 58939_106
Table of values for luminous intensities		Maximum luminous intensity

siteco

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

Photometric test report

Family Monsun® 12			Order number: 51FP108P430H EAN: 4058352391396							LP number 58939_106		
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	19.0	20.6	20.9	18.6	20.3	19.0	20.6	20.9	
	3H	20.3	21.9	20.7	22.2	22.6	20.0	21.5	20.3	21.9	22.2	
	4H	21.2	22.6	21.6	23.0	23.3	20.5	22.0	20.9	22.3	22.7	
	6H	21.9	23.3	22.3	23.6	24.0	20.9	22.2	21.3	22.6	23.0	
	8H	22.3	23.5	22.7	23.9	24.3	21.0	22.3	21.4	22.6	23.0	
	12H	22.6	23.8	23.0	24.2	24.6	21.0	22.3	21.5	22.6	23.1	
4H	2H	19.3	20.8	19.7	21.1	21.5	19.3	20.7	19.7	21.1	21.5	
	3H	21.2	22.5	21.7	22.9	23.3	20.9	22.1	21.3	22.5	22.9	
	4H	22.2	23.3	22.6	23.7	24.2	21.5	22.6	21.9	23.1	23.5	
	6H	23.1	24.1	23.6	24.5	25.0	22.0	23.0	22.4	23.4	23.9	
	8H	23.5	24.5	24.0	24.9	25.4	22.1	23.1	22.6	23.5	24.0	
	12H	24.0	24.8	24.4	25.2	25.7	22.2	23.1	22.7	23.5	24.0	
8H	4H	22.5	23.4	23.0	23.9	24.4	21.9	22.8	22.4	23.3	23.7	
	6H	23.6	24.4	24.1	24.8	25.3	22.5	23.3	23.0	23.8	24.3	
	8H	24.1	24.8	24.6	25.3	25.8	22.8	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	22.6	23.4	23.1	23.9	24.3	22.0	22.8	22.5	23.3	23.8	
	6H	23.7	24.4	24.2	24.9	25.4	22.7	23.4	23.2	23.8	24.4	
	8H	24.3	24.9	24.8	25.4	25.9	23.0	23.5	23.5	24.0	24.6	

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°	6845.4	6887.9	6938.2	7083.3	7389.0	7798.3	8339.3			
	50°	6492.4	6516.5	6565.2	6665.4	6917.4	7306.1	7898.8			
	55°	6156.4	6163.6	6201.3	6250.2	6445.0	6784.6	7409.3			
	60°	5824.3	5819.4	5829.5	5848.0	5976.4	6256.9	6887.0			
	65°	5532.3	5519.0	5472.3	5437.6	5513.9	5725.0	6339.9			
	70°	5281.6	5251.8	5115.5	5018.9	5027.8	5164.8	5752.3			
	75°	5020.2	4972.8	4782.0	4588.1	4474.3	4520.4	5053.6			
	80°	4743.2	4664.5	4473.3	4128.4	3840.9	3713.1	4132.7			
	85°	4541.1	4444.9	4237.1	3804.7	3234.1	2771.1	2886.2			

Photometric test report

Family Monsun® 12	Order number: 51FP108P430H EAN: 4058352391396	LP number 58939_106
Luminance values in cd/m²		siteco
		γ 65° γ 70° γ 75° γ 80° γ 85°

