



Photometric test report

Family Monsun® 21	Order number: 51FB10DP437B3H EAN: 4058352519936	LP number 58939_57
	Version prismatic diffuser, opal, PMMA, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Setting emergency light operation: 3 h Rated values Net luminous flux = 840 lm Power consumption = 4.5 W Luminous efficacy = 186.7 lm/W	serial documentation 01.07.2021
		

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® 21	Order number: 51FB10DP437B3H EAN: 4058352519936	LP number 58939_57
Table of values for luminous intensities		Maximum luminous intensity
		siteco

C-planes γ	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
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® 21	Order number: 51FB10DP437B3H EAN: 4058352519936	LP number 58939_57
------------------------------------	--	-------------------------------------

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	13.2	14.9	13.6	15.2	15.5	13.2	14.9	13.6	15.2	15.5
	3H	15.0	16.5	15.3	16.8	17.2	14.6	16.1	15.0	16.5	16.8
	4H	15.8	17.2	16.2	17.6	17.9	15.1	16.6	15.5	16.9	17.3
	6H	16.5	17.9	16.9	18.2	18.6	15.5	16.8	15.9	17.2	17.6
	8H	16.9	18.1	17.3	18.5	18.9	15.6	16.9	16.0	17.2	17.7
	12H	17.2	18.4	17.6	18.8	19.2	15.6	16.9	16.1	17.2	17.7
4H	2H	13.9	15.4	14.3	15.7	16.1	13.9	15.3	14.3	15.7	16.1
	3H	15.8	17.1	16.3	17.5	17.9	15.5	16.7	15.9	17.1	17.5
	4H	16.8	17.9	17.2	18.3	18.8	16.1	17.3	16.6	17.7	18.1
	6H	17.7	18.7	18.2	19.1	19.6	16.6	17.6	17.0	18.0	18.5
	8H	18.1	19.1	18.6	19.5	20.0	16.7	17.7	17.2	18.1	18.6
	12H	18.6	19.4	19.0	19.8	20.3	16.8	17.7	17.3	18.1	18.6
8H	4H	17.1	18.1	17.6	18.5	19.0	16.5	17.4	17.0	17.9	18.3
	6H	18.2	19.0	18.7	19.5	19.9	17.1	17.9	17.6	18.4	18.9
	8H	18.8	19.4	19.2	19.9	20.4	17.4	18.0	17.9	18.5	19.0
	12H	19.3	19.9	19.8	20.4	20.9	17.5	18.1	18.0	18.6	19.1
12H	4H	17.2	18.0	17.7	18.5	18.9	16.6	17.4	17.1	17.9	18.4
	6H	18.3	19.0	18.8	19.5	20.0	17.3	18.0	17.8	18.4	19.0
	8H	18.9	19.5	19.4	20.0	20.5	17.6	18.2	18.1	18.6	19.2

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1590	H(C0) = 21	H(C180) = 21
			B = 87	H(C90) = 21	H(C270) = 21

C-planes	γ	Luminance in cd/m ²								
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°		
45°		1448.4	1457.4	1468.0	1498.7	1563.4	1650.0	1764.5		
50°		1373.7	1378.8	1389.1	1410.3	1463.6	1545.9	1671.3		
55°		1302.6	1304.1	1312.1	1322.5	1363.7	1435.5	1567.7		
60°		1232.3	1231.3	1233.4	1237.4	1264.5	1323.9	1457.2		
65°		1170.6	1167.7	1157.9	1150.5	1166.7	1211.3	1341.4		
70°		1117.5	1111.2	1082.4	1061.9	1063.8	1092.8	1217.1		
75°		1062.2	1052.2	1011.8	970.8	946.7	956.5	1069.3		
80°		1003.6	986.9	946.5	873.5	812.7	785.6	874.4		
85°		960.8	940.5	896.5	805.0	684.3	586.3	610.7		

Photometric test report

Family Monsun® 21	Order number: 51FB10DP437B3H EAN: 4058352519936	LP number 58939_57
------------------------------------	--	-------------------------------------

Luminance values in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°

