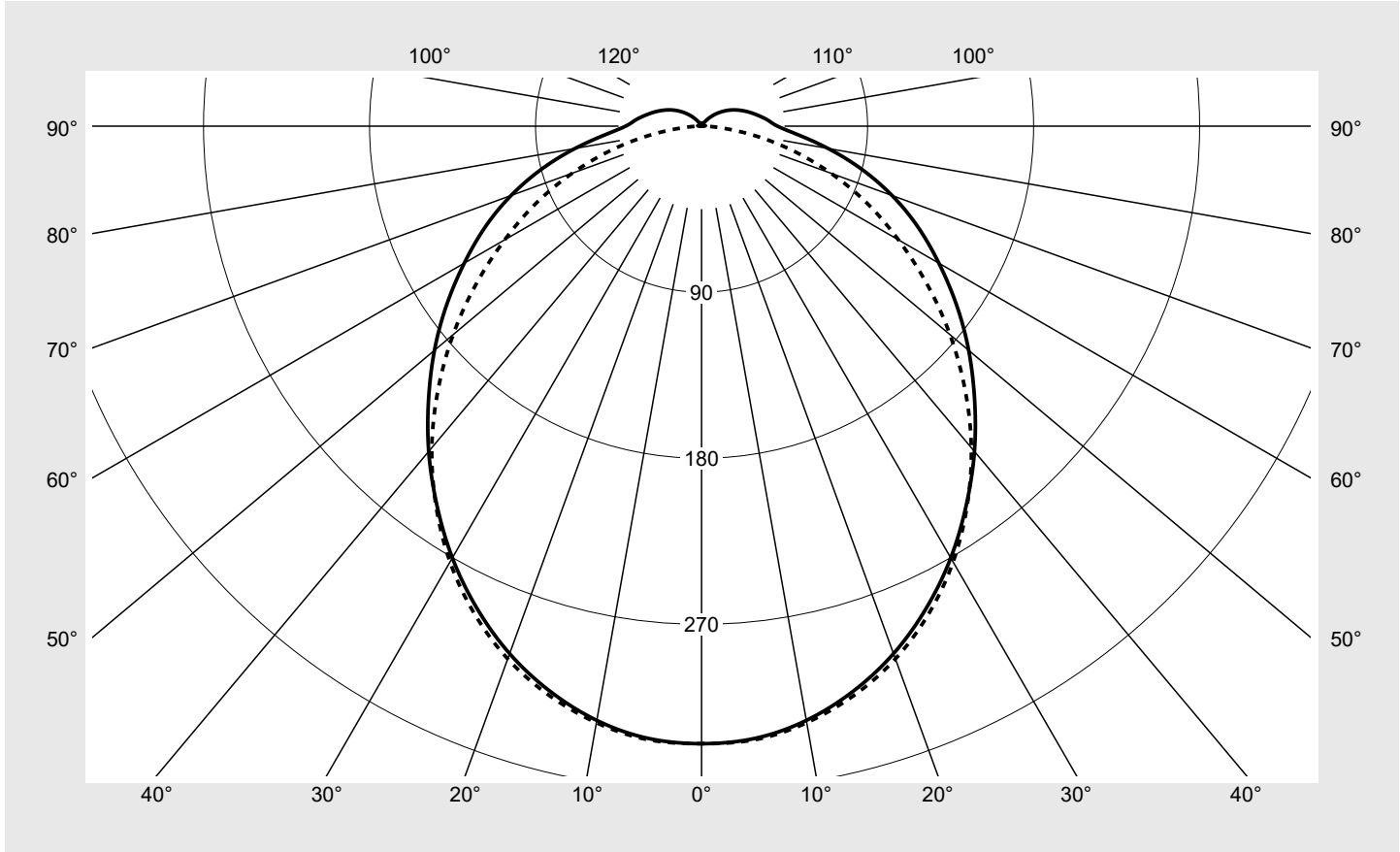


Photometric test report

Family Monsun® 21	Order number: 51FB10DL447K3H EAN: 4069025131560	LP number 59393_23
	Version	prismatic diffuser, opal, PMMA, extremely wide distribution, emergence lighting 3h
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Setting	3 h
	Rated values	Net luminous flux = 930 lm Power consumption = 6.7 W Luminous efficacy = 138.8 lm/W
		serial documentation 08.05.2024
		

Luminous intensity in cd/klm
C180-0
C270-90
Imax: 335 cd/klm



Classifications	
DIN 5040	A 4 1
CIE	N1=46 N2=76 N3=93 N4=94 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	93.9%
ϕ_o	6.1%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Monsun® 21	Order number: 51FB10DL447K3H EAN: 4069025131560	LP number 59393_23
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°	334.7	334.7	334.7	334.7	334.7	334.7	334.7	2.0	2.0
5°	333.1	333.6	331.1	331.9	332.7	333.2	333.8	15.9	17.9
10°	327.1	327.9	325.6	326.0	327.2	327.9	328.3	31.1	49.0
15°	317.2	318.4	316.4	316.9	317.9	318.6	319.4	45.1	94.1
20°	304.3	305.5	304.0	304.0	305.5	306.0	307.3	57.2	151.3
25°	288.3	289.5	288.3	288.0	289.4	289.8	291.5	67.0	218.3
30°	270.2	271.6	270.4	269.7	270.4	271.0	272.7	74.2	292.5
35°	250.3	251.6	250.4	249.2	249.0	249.3	251.0	78.6	371.1
40°	230.1	230.9	229.3	227.2	226.1	225.6	227.5	80.3	451.4
45°	209.3	209.8	207.4	204.4	202.0	200.5	202.0	79.4	530.9
50°	189.0	188.7	186.0	181.6	177.7	174.7	175.8	76.4	607.2
55°	168.7	168.2	164.8	159.1	153.5	149.2	149.2	71.4	678.6
60°	148.6	147.7	143.7	136.7	130.2	124.3	123.2	64.8	743.4
65°	129.5	127.8	123.0	114.9	108.3	100.8	99.1	57.1	800.4
70°	109.9	108.0	102.2	93.4	85.8	77.4	74.6	48.0	848.4
75°	89.7	87.9	81.7	72.5	63.8	55.3	51.1	38.1	886.5
80°	69.6	67.6	61.9	52.4	43.1	34.0	28.9	27.7	914.2
85°	52.2	49.9	44.6	35.4	25.7	16.3	10.6	18.5	932.7
90°	41.2	39.2	34.0	25.7	16.3	7.4	2.3	13.2	945.9
95°	36.2	34.5	30.1	22.6	13.9	5.6	2.0	11.4	957.3
100°	31.8	30.4	26.2	19.4	11.5	4.0	1.7	9.7	967.1
105°	27.9	26.5	22.5	16.5	9.2	2.5	1.5	8.1	975.2
110°	24.2	22.6	19.2	13.5	6.9	1.5	1.3	6.6	981.8
115°	20.8	19.1	16.0	10.8	4.9	1.4	1.2	5.2	987.0
120°	17.3	15.9	12.9	8.1	3.1	1.3	1.2	4.0	991.0
125°	13.9	12.5	9.8	5.6	1.6	1.3	1.1	2.9	993.8
130°	10.5	9.4	7.0	3.5	1.5	1.3	1.1	2.0	995.8
135°	7.3	6.4	4.4	1.9	1.5	1.2	1.0	1.3	997.1
140°	4.5	3.8	2.3	1.7	1.5	1.2	1.1	0.8	997.9
145°	2.3	2.1	1.9	1.7	1.5	1.3	1.2	0.5	998.4
150°	2.0	2.0	1.9	1.7	1.5	1.4	1.3	0.5	998.9
155°	1.9	1.9	1.8	1.7	1.5	1.4	1.4	0.4	999.3
160°	1.8	1.8	1.7	1.6	1.5	1.5	1.4	0.3	999.6
165°	1.7	1.7	1.6	1.5	1.5	1.5	1.4	0.2	999.8
170°	1.5	1.5	1.5	1.5	1.5	1.5	1.4	0.1	999.9
175°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.1	1000.0
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0	1000.0

Photometric test report

Family Monsun® 21	Order number: 51FB10DL447K3H EAN: 4069025131560	LP number 59393_23
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UGR-Table		Standard room									
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	14.4	16.1	14.8	16.4	16.7	14.2	15.9	14.6	16.2	16.6
	3H	16.2	17.8	16.6	18.1	18.5	15.7	17.3	16.1	17.6	17.9
	4H	17.1	18.5	17.4	18.9	19.2	16.3	17.7	16.7	18.1	18.5
	6H	17.8	19.2	18.2	19.5	19.9	16.7	18.0	17.1	18.4	18.8
	8H	18.2	19.4	18.6	19.8	20.2	16.8	18.1	17.2	18.5	18.9
	12H	18.5	19.7	18.9	20.0	20.5	16.9	18.1	17.3	18.5	18.9
4H	2H	15.1	16.6	15.5	16.9	17.3	15.0	16.4	15.4	16.8	17.2
	3H	17.1	18.4	17.5	18.8	19.2	16.6	17.9	17.1	18.3	18.7
	4H	18.1	19.2	18.5	19.7	20.1	17.3	18.5	17.8	18.9	19.3
	6H	19.0	20.0	19.5	20.4	20.9	17.8	18.9	18.3	19.3	19.7
	8H	19.4	20.3	19.9	20.8	21.2	18.0	18.9	18.5	19.4	19.8
	12H	19.8	20.6	20.3	21.1	21.6	18.1	18.9	18.6	19.4	19.9
8H	4H	18.4	19.4	18.9	19.8	20.3	17.8	18.7	18.2	19.1	19.6
	6H	19.5	20.3	20.0	20.7	21.2	18.4	19.2	18.9	19.7	20.2
	8H	20.0	20.7	20.5	21.2	21.7	18.7	19.3	19.1	19.8	20.3
	12H	20.5	21.1	21.1	21.6	22.2	18.8	19.4	19.3	19.9	20.4
12H	4H	18.5	19.3	19.0	19.8	20.3	17.9	18.7	18.4	19.1	19.6
	6H	19.6	20.3	20.1	20.8	21.3	18.6	19.3	19.1	19.7	20.2
	8H	20.2	20.8	20.7	21.3	21.8	18.9	19.4	19.4	19.9	20.5

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1299	H(C0) = 21	H(C180) = 21
						B = 87	H(C90) = 21	H(C270) = 21
C-planes	γ	0°	15°	30°	45°	60°	75°	90°
		180°	165°	150°	135°	120°	105°	270°
		195°	195°	210°	225°	240°	255°	
		345°	345°	330°	315°	300°	285°	
Luminance in cd/m ²								
45°		1962.2	1973.1	1983.5	2011.9	2071.6	2164.5	2313.7
50°		1879.4	1883.3	1891.6	1910.6	1960.8	2046.1	2208.2
55°		1799.7	1802.8	1804.3	1811.5	1846.7	1926.3	2092.3
60°		1724.3	1722.7	1718.2	1710.7	1738.0	1801.5	1972.8
65°		1661.3	1649.6	1634.5	1608.3	1635.5	1681.6	1864.7
70°		1589.8	1572.6	1539.4	1497.3	1506.0	1532.5	1719.1
75°		1499.8	1481.4	1434.6	1372.3	1350.7	1361.7	1532.8
80°		1393.0	1366.5	1313.9	1221.2	1158.0	1115.3	1254.5
85°		1310.7	1269.4	1210.3	1083.4	956.3	813.1	847.6

Photometric test report

Family
Monsun® 21

Order number: 51FB10DL447K3H
EAN: 4069025131560

LP number
59393_23

Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**

