
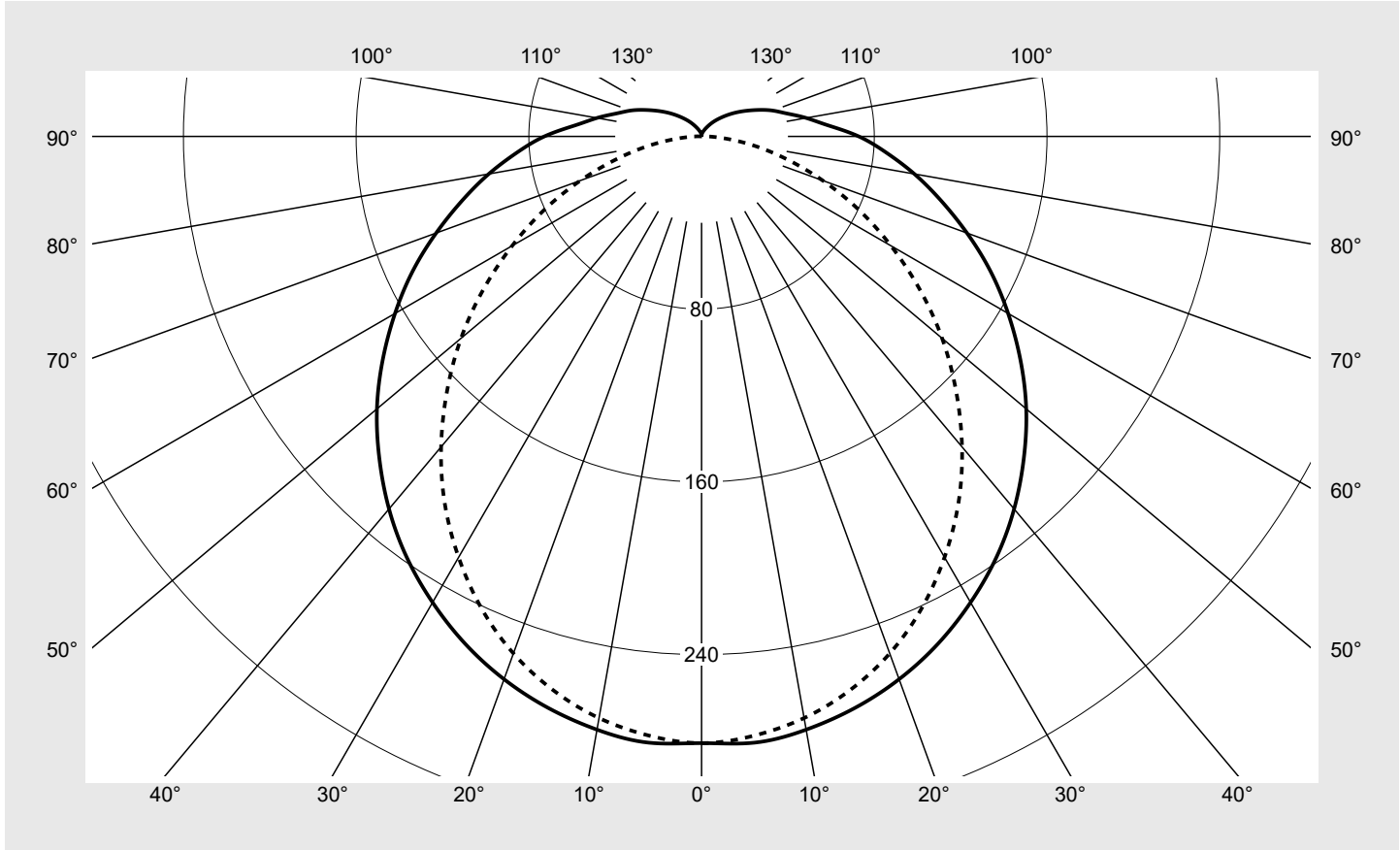


Photometric test report

Family Monsun® 31 tube	Order number: 51FT10DN480A EAN: 4058352701362	LP number 59361_2
	Version tubular luminaire, diffuser, opal, PMMA, diffuse beam	serial documentation 16.12.2022
	Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 8000 lm Power consumption = 50.0 W Luminous efficacy = 160 lm/W	
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 282 cd/klm**



Classifications	
DIN 5040	A 3 1
CIE	N1=42 N2=71 N3=89 N4=91 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	90.6%
ϕ_o	9.4%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Monsun® 31 tube	Order number: 51FT10DN480A EAN: 4058352701362	LP number 59361_2
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°	281.0	281.0	281.0	281.0	281.0	281.0	281.0	1.7	1.7
5°	281.8	280.3	279.8	279.3	279.1	278.9	278.6	13.4	15.0
10°	279.0	277.2	276.5	275.1	274.6	273.8	273.5	26.2	41.3
15°	274.1	272.2	270.7	268.8	267.4	266.1	265.5	38.2	79.5
20°	267.5	265.5	263.4	260.5	258.0	255.8	254.8	48.9	128.3
25°	259.2	256.5	254.0	249.4	245.8	242.3	241.2	57.8	186.2
30°	249.2	246.5	242.7	237.1	231.5	227.1	225.1	65.0	251.1
35°	238.0	235.1	230.2	223.1	215.8	210.0	207.4	70.1	321.2
40°	225.2	221.8	216.1	206.9	198.3	190.3	187.7	72.8	394.0
45°	211.1	207.8	200.9	190.6	179.5	170.5	166.7	73.5	467.5
50°	196.3	192.9	185.2	173.5	160.6	150.1	145.4	72.3	539.8
55°	180.3	176.5	168.5	155.2	141.1	128.2	123.3	69.0	608.8
60°	164.0	160.3	151.5	137.7	121.9	107.5	101.3	64.2	673.0
65°	147.6	143.9	135.0	120.6	103.6	87.5	80.3	58.3	731.3
70°	130.8	126.9	118.3	103.1	85.8	67.5	59.7	51.2	782.6
75°	114.8	111.4	102.4	87.5	69.0	50.4	40.9	44.0	826.6
80°	100.1	96.8	88.0	73.4	54.4	35.2	24.8	36.9	863.5
85°	85.9	83.2	74.7	60.6	41.8	22.9	11.0	30.2	893.7
90°	72.8	70.3	62.5	49.5	32.5	13.8	2.9	24.3	918.0
95°	58.8	55.3	48.7	37.2	24.0	8.5	1.1	18.5	936.5
100°	49.2	46.8	38.4	28.3	15.7	4.9	0.9	14.3	950.8
105°	41.0	38.9	33.0	23.4	12.6	3.8	0.9	11.7	962.5
110°	35.0	32.8	27.4	19.2	9.9	3.0	1.0	9.5	972.0
115°	29.0	27.2	22.5	15.4	7.6	2.3	1.0	7.5	979.5
120°	23.7	22.1	18.1	11.8	5.8	2.0	1.0	5.7	985.2
125°	19.2	17.9	14.3	9.1	4.6	1.8	1.1	4.3	989.5
130°	15.2	14.2	10.9	7.1	3.8	1.7	1.1	3.2	992.7
135°	11.9	11.0	8.2	5.6	3.1	1.6	1.2	2.3	995.1
140°	9.2	8.4	6.3	4.4	2.6	1.5	1.2	1.7	996.7
145°	6.8	6.2	4.7	3.5	2.2	1.5	1.3	1.2	997.9
150°	5.0	4.4	3.6	2.7	1.9	1.4	1.3	0.8	998.7
155°	3.7	3.1	2.7	2.2	1.7	1.4	1.3	0.5	999.2
160°	2.7	2.3	2.2	1.8	1.6	1.4	1.4	0.4	999.5
165°	2.1	1.8	1.8	1.6	1.5	1.4	1.4	0.2	999.8
170°	1.7	1.6	1.6	1.5	1.5	1.4	1.4	0.1	999.9
175°	1.6	1.5	1.5	1.5	1.5	1.4	1.4	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® 31 tube	Order number: 51FT10DN480A EAN: 4058352701362	LP number 59361_2
----------------------------------	--	-----------------------------

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	21.9	23.7	22.2	24.0	24.3	21.0	22.8	21.4	23.1	23.4
	3H	23.9	25.5	24.2	25.8	26.2	22.4	24.0	22.8	24.4	24.7
	4H	24.8	26.4	25.2	26.7	27.1	23.0	24.5	23.3	24.8	25.2
	6H	25.8	27.2	26.2	27.6	27.9	23.4	24.8	23.8	25.2	25.6
	8H	26.3	27.6	26.7	28.0	28.4	23.5	24.9	23.9	25.3	25.7
	12H	26.7	27.9	27.1	28.3	28.7	23.6	24.9	24.0	25.3	25.7
4H	2H	22.6	24.1	23.0	24.5	24.8	21.9	23.4	22.3	23.8	24.1
	3H	24.8	26.1	25.2	26.5	26.9	23.5	24.9	24.0	25.2	25.7
	4H	25.9	27.1	26.3	27.5	28.0	24.2	25.4	24.7	25.8	26.3
	6H	27.0	28.1	27.5	28.5	29.0	24.8	25.9	25.2	26.3	26.7
	8H	27.6	28.6	28.1	29.0	29.5	25.0	26.0	25.4	26.4	26.9
	12H	28.1	29.0	28.6	29.5	30.0	25.1	26.0	25.6	26.5	27.0
8H	4H	26.3	27.3	26.7	27.7	28.2	24.9	25.9	25.3	26.3	26.8
	6H	27.6	28.5	28.1	28.9	29.4	25.6	26.5	26.1	26.9	27.4
	8H	28.3	29.1	28.8	29.5	30.1	25.9	26.7	26.4	27.2	27.7
	12H	29.0	29.7	29.5	30.2	30.7	26.2	26.9	26.7	27.3	27.9
12H	4H	26.3	27.3	26.8	27.7	28.2	25.0	25.9	25.5	26.4	26.9
	6H	27.7	28.5	28.2	29.0	29.5	25.9	26.6	26.4	27.1	27.6
	8H	28.5	29.2	29.0	29.7	30.2	26.3	27.0	26.8	27.4	28.0

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1420	H(C0) = 35	H(C180) = 35
			B = 70	H(C90) = 0	H(C270) = 0

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°		16015.2	15951.5	15958.9	16030.9	16347.2	17182.2	18975.6	
50°		15400.9	15332.9	15292.2	15286.0	15496.1	16279.9	18211.0	
55°		14758.0	14656.8	14612.9	14471.1	14593.9	15183.0	17297.2	
60°		14143.7	14052.9	13932.8	13750.5	13692.2	14139.7	16303.6	
65°		13568.7	13463.3	13331.4	13059.5	12840.9	13047.1	15293.4	
70°		12969.6	12830.6	12715.0	12312.4	11975.0	11722.0	14050.7	
75°		12457.3	12362.2	12174.4	11732.6	11101.9	10558.9	12718.7	
80°		12093.7	11999.5	11806.2	11314.9	10431.8	9404.5	11506.0	
85°		11806.8	11789.4	11590.3	11096.3	10017.1	8526.4	10164.3	

Photometric test report

Family Monsun® 31 tube	Order number: 51FT10DN480A EAN: 4058352701362	LP number 59361_2
---	--	------------------------------------

Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

