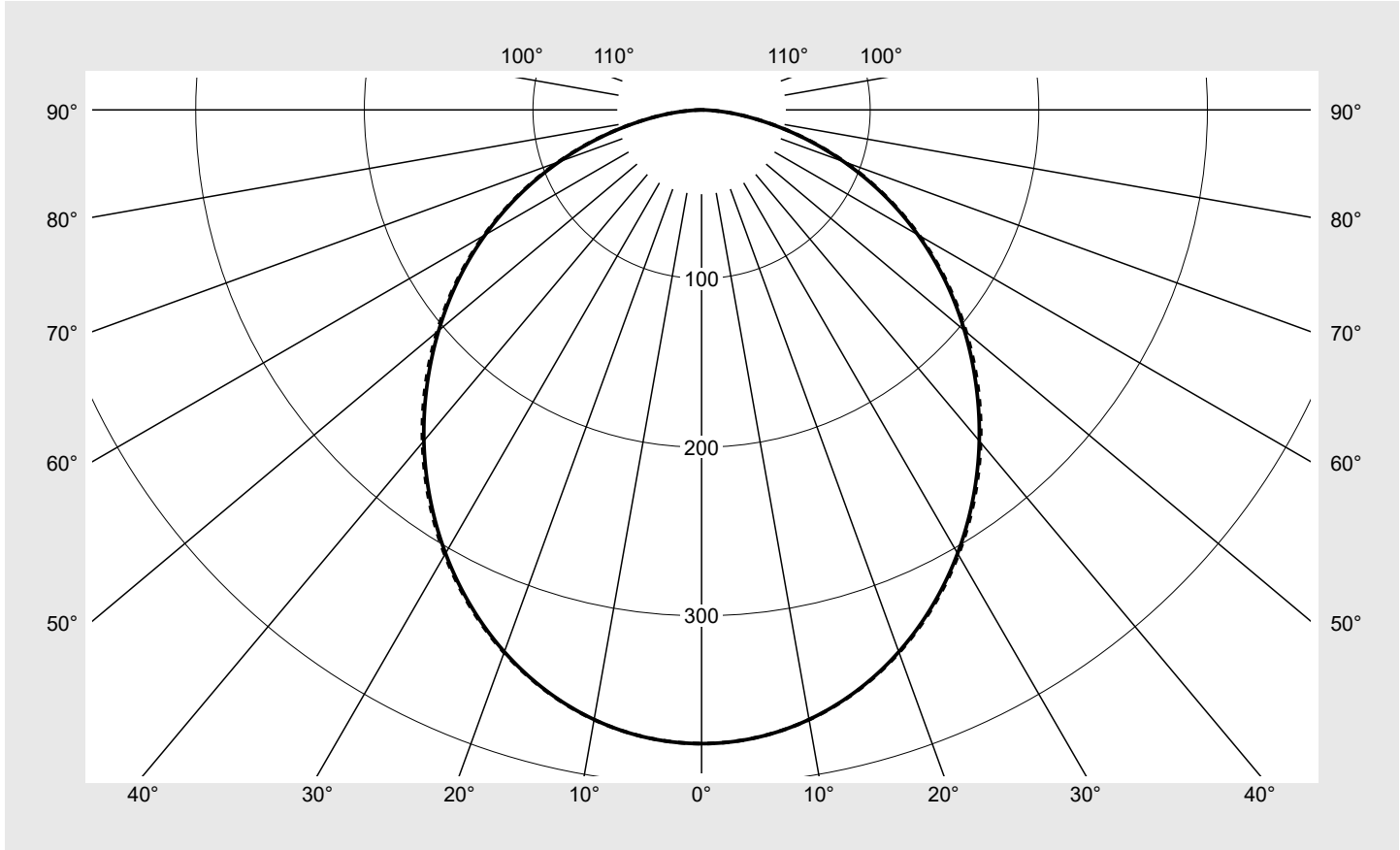


Photometric test report

Family Round 21 L	Order number: 51MR38FD0321B EAN: 4058352829974	LP number 59511_5
	Version surface-mounted and suspended luminaire, cover, opal, PMMA, symmetric extremely wide distribution, direct distribution, aluminium housing, black	serial documentation 08.11.2023
	Lamps LED 3000 K CRI ≥ 80	Controlgear ECG-DALI
Rated values Net luminous flux = 12490 lm Power consumption = 98.3 W Luminous efficacy = 127.1 lm/W		



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 376 cd/klm**



Classifications	
DIN 5040	A 4 0
CIE	N1=49 N2=80 N3=96 N4=100 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	100.0%
ϕ_o	0.0%

Measurement conditions
 DIN EN 13032 and DIN 5032

Photometric test report

Family Round 21 L	Order number: 51MR38FD0321B EAN: 4058352829974	LP number 59511_5
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Table of values for luminous intensities	Maximum luminous intensity	siteco
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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°	375.8	375.8	375.8	375.8	375.8	375.8	375.8	2.2	2.2
5°	373.6	373.6	373.6	373.6	373.7	373.6	373.6	17.8	20.1
10°	367.1	367.0	367.1	367.1	367.2	367.1	367.2	34.9	55.0
15°	356.4	356.5	356.5	356.7	356.7	356.7	356.7	50.6	105.6
20°	342.0	342.1	342.1	342.4	342.4	342.5	342.5	64.2	169.8
25°	324.2	324.6	324.4	324.9	324.8	325.3	324.9	75.2	245.0
30°	303.7	304.3	303.9	304.6	304.5	305.2	304.6	83.4	328.5
35°	280.8	281.7	281.1	282.4	281.8	282.9	282.0	88.6	417.1
40°	256.2	257.4	256.5	258.0	257.2	258.5	257.4	90.7	507.8
45°	230.2	231.7	230.5	232.2	231.4	232.8	231.7	89.8	597.5
50°	203.5	204.9	203.8	205.4	204.7	206.0	204.9	86.0	683.6
55°	176.3	177.6	175.5	178.1	177.3	178.7	177.4	79.6	763.2
60°	148.1	149.5	147.4	150.0	149.0	150.6	149.2	70.8	834.0
65°	119.2	120.8	118.4	121.2	120.0	121.6	120.1	59.7	893.7
70°	89.7	91.5	88.8	91.9	90.4	92.3	90.6	46.8	940.5
75°	60.9	62.5	60.0	63.4	61.5	63.0	61.6	32.8	973.3
80°	34.5	35.9	33.5	36.8	35.0	36.0	35.0	19.1	992.4
85°	13.2	14.6	12.4	14.8	13.6	14.5	13.7	7.6	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

Photometric test report

Family Round 21 L	Order number: 51MR38FD0321B EAN: 4058352829974	LP number 59511_5
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UGR-Table	Standard room	siteco								
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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	19.0	20.7	19.4	21.0	21.3	19.1	20.8	19.4	21.1	21.4
	3H	20.6	22.1	21.0	22.5	22.8	20.7	22.2	21.0	22.5	22.9
	4H	21.2	22.6	21.6	23.0	23.3	21.3	22.7	21.7	23.0	23.4
	6H	21.6	22.9	22.0	23.3	23.7	21.7	23.0	22.1	23.4	23.8
	8H	21.8	23.0	22.2	23.4	23.8	21.8	23.1	22.3	23.4	23.8
	12H	21.9	23.0	22.3	23.4	23.8	21.9	23.1	22.4	23.5	23.9
4H	2H	19.8	21.2	20.2	21.6	21.9	19.8	21.3	20.2	21.6	22.0
	3H	21.5	22.7	21.9	23.1	23.5	21.6	22.8	22.0	23.2	23.6
	4H	22.2	23.3	22.7	23.7	24.2	22.3	23.4	22.7	23.8	24.2
	6H	22.8	23.7	23.2	24.1	24.6	22.8	23.8	23.3	24.2	24.6
	8H	22.9	23.8	23.4	24.2	24.7	23.0	23.9	23.5	24.3	24.8
	12H	23.1	23.8	23.5	24.3	24.8	23.1	23.9	23.6	24.3	24.8
8H	4H	22.5	23.4	23.0	23.9	24.3	22.6	23.5	23.1	23.9	24.4
	6H	23.2	23.9	23.7	24.4	24.9	23.2	24.0	23.7	24.4	24.9
	8H	23.4	24.0	23.9	24.5	25.0	23.5	24.1	24.0	24.6	25.1
	12H	23.6	24.1	24.1	24.6	25.1	23.7	24.2	24.2	24.7	25.2
12H	4H	22.6	23.4	23.1	23.8	24.3	22.6	23.4	23.1	23.9	24.4
	6H	23.3	23.9	23.8	24.4	24.9	23.3	23.9	23.8	24.4	24.9
	8H	23.5	24.0	24.0	24.5	25.1	23.6	24.1	24.1	24.6	25.1

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 840						
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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°		7336.8	7386.4	7347.6	7400.8	7375.1	7419.1	7385.3		
50°		7134.9	7185.6	7146.4	7202.2	7176.0	7224.1	7182.8		
55°		6926.8	6979.4	6897.5	6998.5	6965.1	7021.4	6972.0		
60°		6677.0	6740.6	6642.1	6762.8	6716.8	6787.6	6724.6		
65°		6356.6	6440.0	6311.6	6461.2	6397.2	6484.9	6406.0		
70°		5912.6	6032.6	5853.7	6055.0	5958.3	6079.7	5968.0		
75°		5307.3	5444.1	5226.2	5524.6	5358.7	5487.3	5365.7		
80°		4477.3	4653.4	4349.3	4776.6	4536.4	4672.9	4546.8		
85°		3418.1	3778.1	3209.7	3820.7	3521.5	3761.2	3544.8		

Photometric test report

Family Round 21 L	Order number: 51MR38FD0321B EAN: 4058352829974	LP number 59511_5
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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**

