

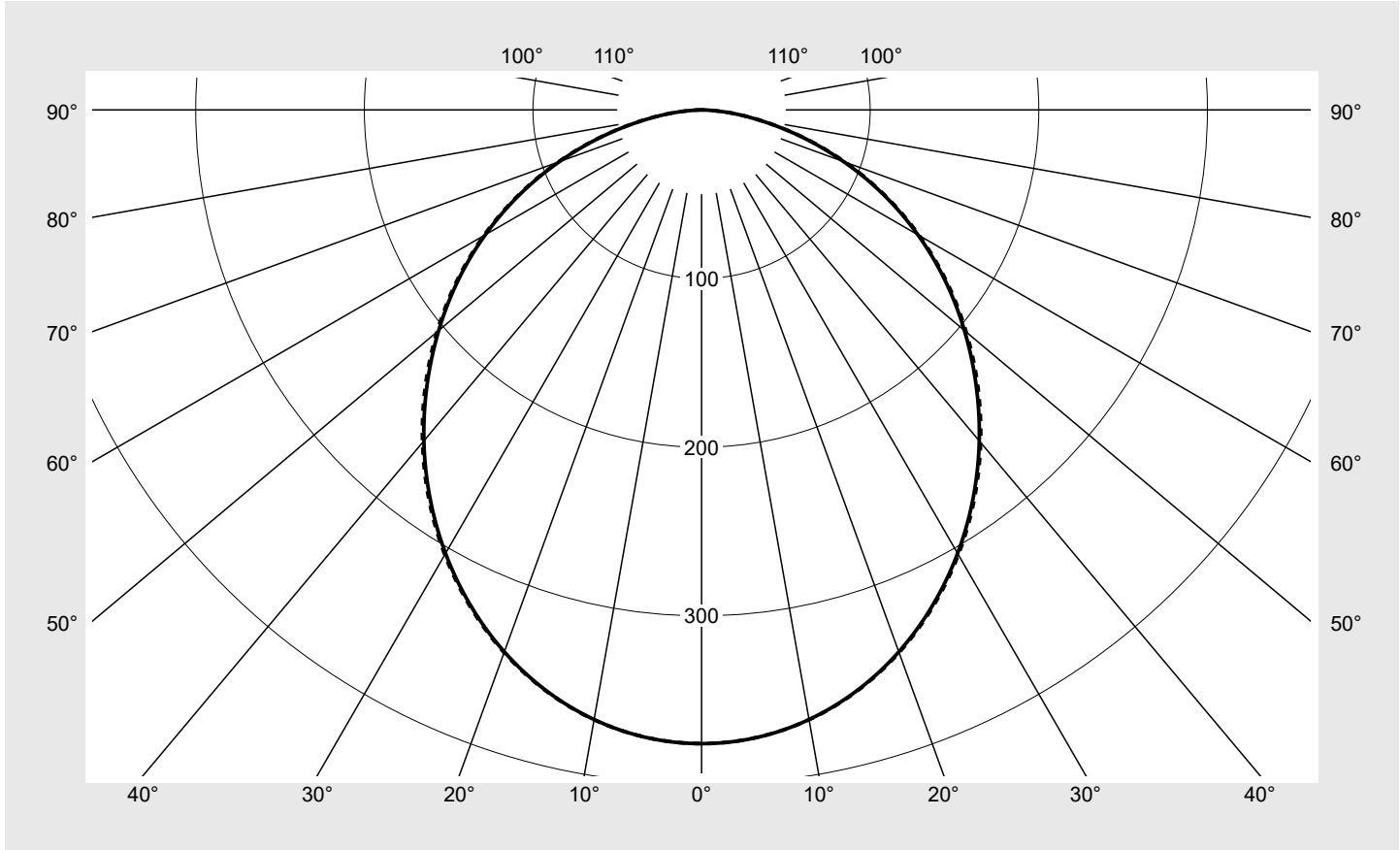


Photometric test report

Family Round 21 L	Order number: 51MR38FD0421S EAN: 4058352881798	LP number 59511_3
	Version surface-mounted and suspended luminaire, cover, opal, PMMA, symmetric extremely wide distribution, direct distribution, aluminium housing, silver	serial documentation 08.11.2023
	Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 13080 lm Power consumption = 98.3 W Luminous efficacy = 133.1 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

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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

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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	19.2	20.9	19.6	21.2	21.5	19.3	20.9	19.6	21.2	21.6
	3H	20.8	22.3	21.1	22.6	23.0	20.8	22.3	21.2	22.7	23.0
	4H	21.4	22.8	21.8	23.1	23.5	21.4	22.8	21.8	23.2	23.6
	6H	21.8	23.1	22.2	23.5	23.9	21.8	23.2	22.3	23.5	23.9
	8H	22.0	23.2	22.4	23.5	24.0	22.0	23.2	22.4	23.6	24.0
	12H	22.0	23.2	22.4	23.6	24.0	22.1	23.2	22.5	23.6	24.0
4H	2H	20.0	21.4	20.4	21.7	22.1	20.0	21.4	20.4	21.8	22.1
	3H	21.7	22.9	22.1	23.3	23.7	21.7	22.9	22.2	23.3	23.7
	4H	22.4	23.5	22.8	23.9	24.3	22.4	23.5	22.9	23.9	24.4
	6H	22.9	23.9	23.4	24.3	24.7	23.0	23.9	23.4	24.4	24.8
	8H	23.1	24.0	23.6	24.4	24.9	23.2	24.0	23.6	24.5	24.9
	12H	23.2	24.0	23.7	24.4	24.9	23.3	24.0	23.8	24.5	25.0
8H	4H	22.7	23.6	23.2	24.0	24.5	22.8	23.6	23.2	24.1	24.5
	6H	23.3	24.1	23.8	24.5	25.0	23.4	24.1	23.9	24.6	25.1
	8H	23.6	24.2	24.1	24.7	25.2	23.6	24.3	24.1	24.7	25.3
	12H	23.7	24.3	24.3	24.8	25.3	23.8	24.3	24.3	24.8	25.4
12H	4H	22.8	23.5	23.2	24.0	24.5	22.8	23.6	23.3	24.0	24.5
	6H	23.4	24.0	23.9	24.5	25.0	23.5	24.1	24.0	24.6	25.1
	8H	23.7	24.2	24.2	24.7	25.2	23.7	24.3	24.2	24.8	25.3

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°	45°	7683.3	7735.3	7694.7	7750.4	7723.5	7769.6	7734.1	
50°	50°	7471.9	7525.0	7483.9	7542.4	7514.9	7565.3	7522.1	
55°	55°	7254.0	7309.1	7223.3	7329.1	7294.1	7353.1	7301.3	
60°	60°	6992.5	7059.0	6955.8	7082.2	7034.0	7108.2	7042.3	
65°	65°	6656.9	6744.2	6609.7	6766.4	6699.4	6791.2	6708.6	
70°	70°	6191.9	6317.5	6130.2	6341.0	6239.8	6366.9	6250.0	
75°	75°	5558.0	5701.3	5473.1	5785.6	5611.9	5746.5	5619.2	
80°	80°	4688.8	4873.2	4554.7	5002.2	4750.7	4893.6	4761.6	
85°	85°	3579.6	3956.5	3361.3	4001.2	3687.9	3938.9	3712.3	

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

