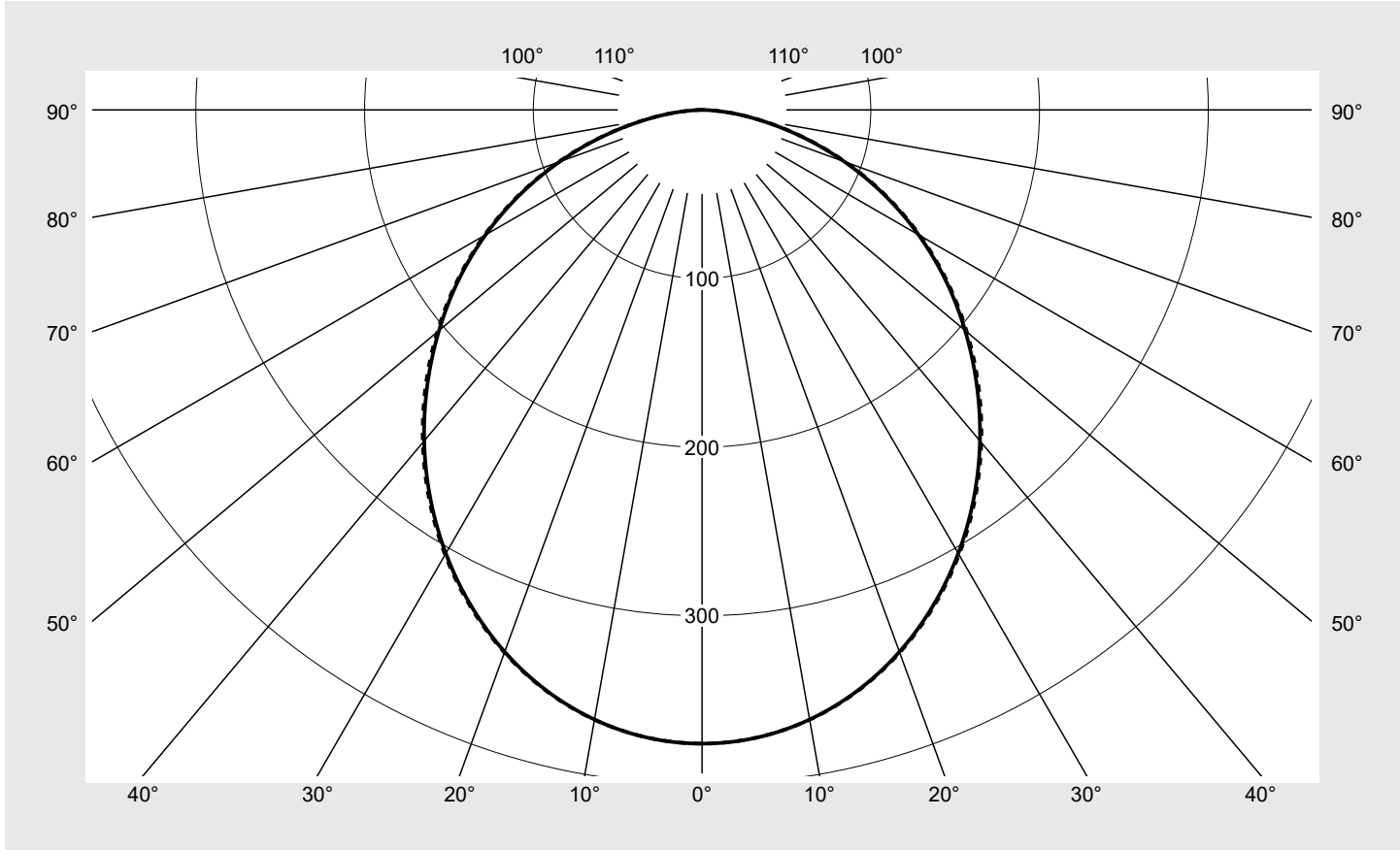


# Photometric test report

<b>Family</b> <b>Round 21 L</b>	<b>Order number: 51MR38FD0321W</b> <b>EAN: 4058352829981</b>	<b>LP number</b> <b>59511_4</b>
	<b>Version</b> surface-mounted and suspended luminaire, cover, opal, PMMA, symmetric extremely wide distribution, direct distribution, aluminium housing, white	<b>serial documentation</b> 08.11.2023
	<b>Lamps</b> LED 3000 K   CRI ≥ 80	<b>Controlgear</b> ECG-DALI
<b>Rated values</b>	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	
$\eta_{LB}$	100.0%
$\phi_u$	100.0%
$\phi_o$	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 $\gamma$	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	19.0	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	$0^\circ$ $180^\circ$	$15^\circ$	$30^\circ$	$45^\circ$	$60^\circ$	$75^\circ$	$90^\circ$ $270^\circ$
		$165^\circ$ $195^\circ$ $345^\circ$	$150^\circ$ $210^\circ$ $330^\circ$	$135^\circ$ $225^\circ$ $315^\circ$	$120^\circ$ $240^\circ$ $300^\circ$	$105^\circ$ $255^\circ$ $285^\circ$	
$\gamma$	Luminance in cd/m <sup>2</sup>						
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

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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°

**siteco**

