

Photometric test report

Family
Round 21 L**Order number: 51MR38FD0321B**
EAN: 4058352829974**LP number**
59511_17**serial**
documentation
31.07.2024

siteco

Versionsurface-mounted and suspended luminaire,
cover, opal, PMMA, extremely wide distribution,
direct distribution, aluminium housing, black**Lamps**

LED 3000 K | CRI ≥ 80

Controlgear

ECG-DALI

Rated values

Net luminous flux = 13590 lm

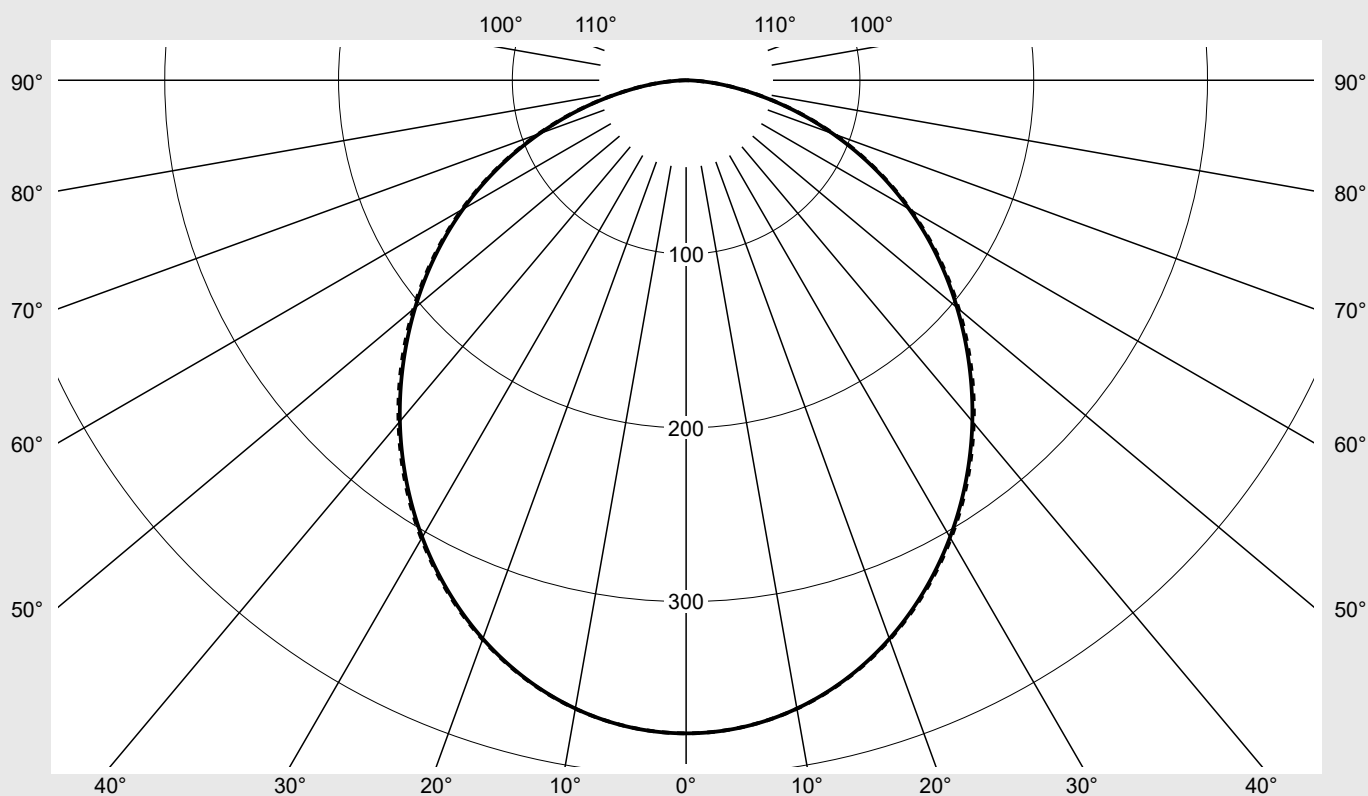
Power consumption = 97.0 W

Luminous efficacy = 140.1 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
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C- planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	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	
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	19.3	21.0	19.7	21.3	21.6	19.4	21.1	19.7	21.4	21.7
	3H	20.9	22.4	21.3	22.7	23.1	21.0	22.5	21.3	22.8	23.2
	4H	21.5	22.9	21.9	23.3	23.6	21.6	23.0	22.0	23.3	23.7
	6H	21.9	23.2	22.3	23.6	24.0	22.0	23.3	22.4	23.7	24.0
	8H	22.1	23.3	22.5	23.7	24.1	22.1	23.4	22.6	23.7	24.1
	12H	22.2	23.3	22.6	23.7	24.1	22.2	23.4	22.6	23.8	24.2
4H	2H	20.1	21.5	20.5	21.9	22.2	20.1	21.5	20.5	21.9	22.3
	3H	21.8	23.0	22.2	23.4	23.8	21.9	23.1	22.3	23.5	23.9
	4H	22.5	23.6	23.0	24.0	24.4	22.6	23.7	23.0	24.1	24.5
	6H	23.0	24.0	23.5	24.4	24.9	23.1	24.1	23.6	24.5	24.9
	8H	23.2	24.1	23.7	24.5	25.0	23.3	24.2	23.8	24.6	25.1
	12H	23.4	24.1	23.8	24.6	25.1	23.4	24.2	23.9	24.6	25.1
8H	4H	22.8	23.7	23.3	24.1	24.6	22.9	23.8	23.4	24.2	24.7
	6H	23.5	24.2	24.0	24.7	25.2	23.5	24.2	24.0	24.7	25.2
	8H	23.7	24.3	24.2	24.8	25.3	23.8	24.4	24.3	24.9	25.4
	12H	23.9	24.4	24.4	24.9	25.4	23.9	24.5	24.5	25.0	25.5
12H	4H	22.9	23.7	23.4	24.1	24.6	22.9	23.7	23.4	24.2	24.7
	6H	23.6	24.2	24.0	24.6	25.2	23.6	24.2	24.1	24.7	25.2
	8H	23.8	24.3	24.3	24.8	25.4	23.9	24.4	24.4	24.9	25.4

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		D = 840	
C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
γ	Luminance in cd/m²						
45°	7982.9	8036.9	7994.7	8052.5	8024.6	8072.5	8035.7
50°	7763.2	7818.4	7775.7	7836.5	7807.9	7860.3	7815.4
55°	7536.8	7594.1	7504.9	7614.8	7578.5	7639.8	7586.0
60°	7265.1	7334.2	7227.0	7358.4	7308.3	7385.4	7316.9
65°	6916.4	7007.2	6867.4	7030.2	6960.6	7056.0	6970.1
70°	6433.4	6563.9	6369.3	6588.2	6483.0	6615.1	6493.7
75°	5774.7	5923.6	5686.5	6011.2	5830.7	5970.6	5838.2
80°	4871.6	5063.2	4732.3	5197.2	4936.0	5084.4	4947.3
85°	3719.1	4110.8	3492.3	4157.2	3831.7	4092.5	3857.0

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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