

Photometric test report

Family
Round 21 M

Order number: 51MR36GD0321B
EAN: 4058352881606

LP number
59510_5



Version Suspended luminaire, cover, opal, PMMA, symmetric extremely wide distribution, direct-/indirect distribution, aluminium housing, black

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 6840 lm
Power consumption = 54.5 W
Luminous efficacy = 125.5 lm/W

serial
documentation
08.11.2023

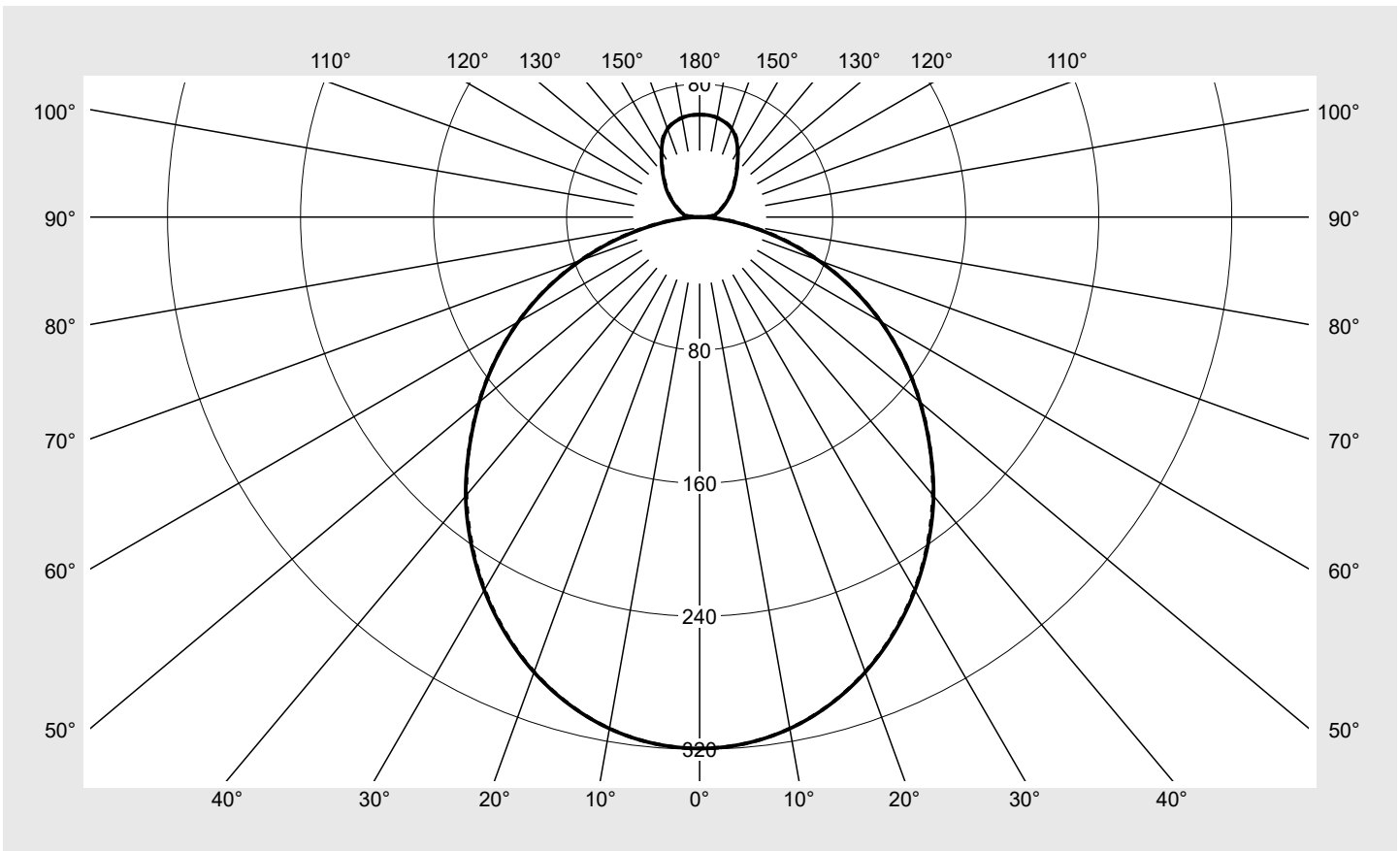
sitEco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 320 cd/klm



Classifications

DIN 5040 B 4 3
CIE N1=49 N2=80 N3=96
N4=85 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 85.0%
 ϕ_o 15.0%

Measurement conditions

DIN EN 13032 and DIN 5032

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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°	319.5	319.5	319.5	319.5	319.5	319.5	319.5	1.9	1.9
5°	317.7	317.8	317.8	317.7	317.7	317.7	317.7	15.2	17.1
10°	312.3	312.3	312.3	312.2	312.2	312.2	312.2	29.7	46.8
15°	303.3	303.5	303.4	303.3	303.3	303.3	303.2	43.0	89.8
20°	291.2	291.3	291.2	291.2	291.0	291.0	291.0	54.6	144.4
25°	276.2	276.6	276.2	276.3	275.9	276.0	275.9	64.0	208.4
30°	259.0	259.3	259.0	258.9	258.6	258.6	258.5	70.9	279.4
35°	239.6	240.1	239.7	239.7	239.3	239.3	239.1	75.3	354.7
40°	218.9	219.3	218.8	219.0	218.3	218.8	218.1	77.1	431.8
45°	195.8	197.7	196.8	197.2	196.3	196.9	196.0	76.3	508.0
50°	172.9	174.9	174.1	174.4	173.6	174.1	173.3	73.1	581.1
55°	149.7	151.6	150.7	151.3	150.2	150.8	150.0	67.7	648.8
60°	125.8	127.7	126.8	127.4	126.3	126.7	126.1	60.2	709.0
65°	101.1	103.0	102.1	102.9	101.7	102.5	101.5	50.8	759.8
70°	75.9	78.1	77.0	77.8	76.7	77.7	76.5	39.8	799.6
75°	51.2	53.2	52.4	53.1	52.2	53.0	52.1	27.8	827.4
80°	28.4	30.2	29.8	30.3	29.8	30.0	29.7	16.1	843.5
85°	10.5	12.5	12.3	12.9	12.5	12.4	12.2	6.7	850.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	850.3
95°	7.6	7.9	7.6	7.8	7.5	7.5	7.0	4.2	854.4
100°	9.9	10.0	10.0	10.0	9.8	9.8	9.4	5.3	859.7
105°	11.7	11.8	11.8	11.8	11.7	11.7	11.2	6.2	865.9
110°	13.7	13.9	13.9	13.9	13.9	13.7	13.2	7.1	873.1
115°	16.1	16.4	16.4	16.4	16.2	16.1	15.7	8.1	881.1
120°	18.9	19.1	19.2	19.4	19.0	18.9	18.6	9.0	890.2
125°	22.3	22.4	22.3	22.6	22.2	22.1	21.9	10.0	900.2
130°	26.1	26.1	26.0	26.2	25.8	25.9	25.5	10.9	911.1
135°	30.0	30.1	30.1	30.1	30.0	30.0	29.5	11.6	922.7
140°	34.5	34.5	34.7	34.6	34.7	34.6	34.1	12.2	934.9
145°	39.8	39.6	39.8	39.8	39.7	39.7	39.5	12.5	947.4
150°	45.9	45.3	45.7	45.5	46.0	45.9	45.8	12.5	959.9
155°	51.8	51.9	51.7	52.5	52.1	52.4	52.3	12.1	972.0
160°	56.4	56.5	56.5	56.6	56.5	56.5	56.6	10.6	982.6
165°	59.0	59.0	59.0	59.0	59.1	59.1	59.2	8.4	990.9
170°	60.6	60.5	60.6	60.6	60.7	60.7	60.8	5.8	996.7
175°	61.5	61.3	61.3	61.4	61.4	61.4	61.4	2.9	999.6
180°	61.5	61.5	61.5	61.5	61.5	61.5	61.5	0.4	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	18.0	19.4	18.6	20.0	20.6	18.0	19.4	18.5	19.9	20.6
	3H	19.5	20.7	20.1	21.3	22.0	19.5	20.7	20.0	21.3	21.9
	4H	20.1	21.3	20.7	21.8	22.5	20.1	21.2	20.7	21.8	22.5
	6H	20.5	21.6	21.1	22.2	22.9	20.5	21.6	21.1	22.2	22.9
	8H	20.6	21.6	21.2	22.2	22.9	20.6	21.6	21.2	22.2	22.9
	12H	20.6	21.6	21.3	22.2	22.9	20.7	21.6	21.3	22.3	23.0
4H	2H	18.7	19.9	19.3	20.4	21.1	18.7	19.8	19.3	20.4	21.1
	3H	20.4	21.3	21.0	22.0	22.7	20.3	21.3	21.0	22.0	22.7
	4H	21.0	21.9	21.7	22.6	23.3	21.0	21.9	21.7	22.6	23.3
	6H	21.6	22.3	22.2	23.0	23.7	21.6	22.3	22.2	23.0	23.7
	8H	21.7	22.4	22.3	23.0	23.8	21.7	22.4	22.3	23.0	23.8
	12H	21.8	22.4	22.5	23.1	23.9	21.8	22.5	22.5	23.1	23.9
8H	4H	21.3	22.0	22.0	22.7	23.4	21.3	22.0	22.0	22.7	23.4
	6H	21.9	22.4	22.6	23.1	23.9	21.9	22.4	22.6	23.1	23.9
	8H	22.1	22.6	22.8	23.3	24.1	22.1	22.6	22.8	23.3	24.1
	12H	22.3	22.7	23.0	23.4	24.3	22.3	22.8	23.0	23.5	24.3
12H	4H	21.4	22.0	22.0	22.7	23.5	21.4	22.0	22.0	22.7	23.4
	6H	22.0	22.5	22.7	23.2	24.0	22.0	22.5	22.7	23.2	24.0
	8H	22.2	22.7	22.9	23.4	24.2	22.2	22.7	23.0	23.4	24.2

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 590
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C-planes	γ	0° 180°	15°	30°	45°	60°	75°	90° 270°
			165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	
Luminance in cd/m²								
45°		6928.8	6994.2	6963.6	6977.5	6944.5	6967.7	6934.3
50°		6731.1	6808.1	6775.0	6788.6	6754.9	6777.6	6743.5
55°		6531.7	6614.1	6574.1	6598.6	6553.1	6575.9	6540.8
60°		6296.4	6389.7	6342.7	6374.7	6318.6	6337.3	6307.5
65°		5985.8	6099.8	6042.9	6092.7	6019.7	6067.0	6008.2
70°		5552.0	5715.1	5630.9	5692.2	5607.4	5682.0	5596.7
75°		4950.4	5142.2	5064.3	5130.5	5047.0	5124.5	5039.4
80°		4090.5	4354.8	4294.9	4360.6	4289.4	4325.6	4272.3
85°		3019.3	3579.0	3529.3	3709.9	3574.7	3561.2	3508.7

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Luminance values in cd/m²
γ 65°
γ 70°
γ 75°
γ 80°
γ 85°
siteco

