
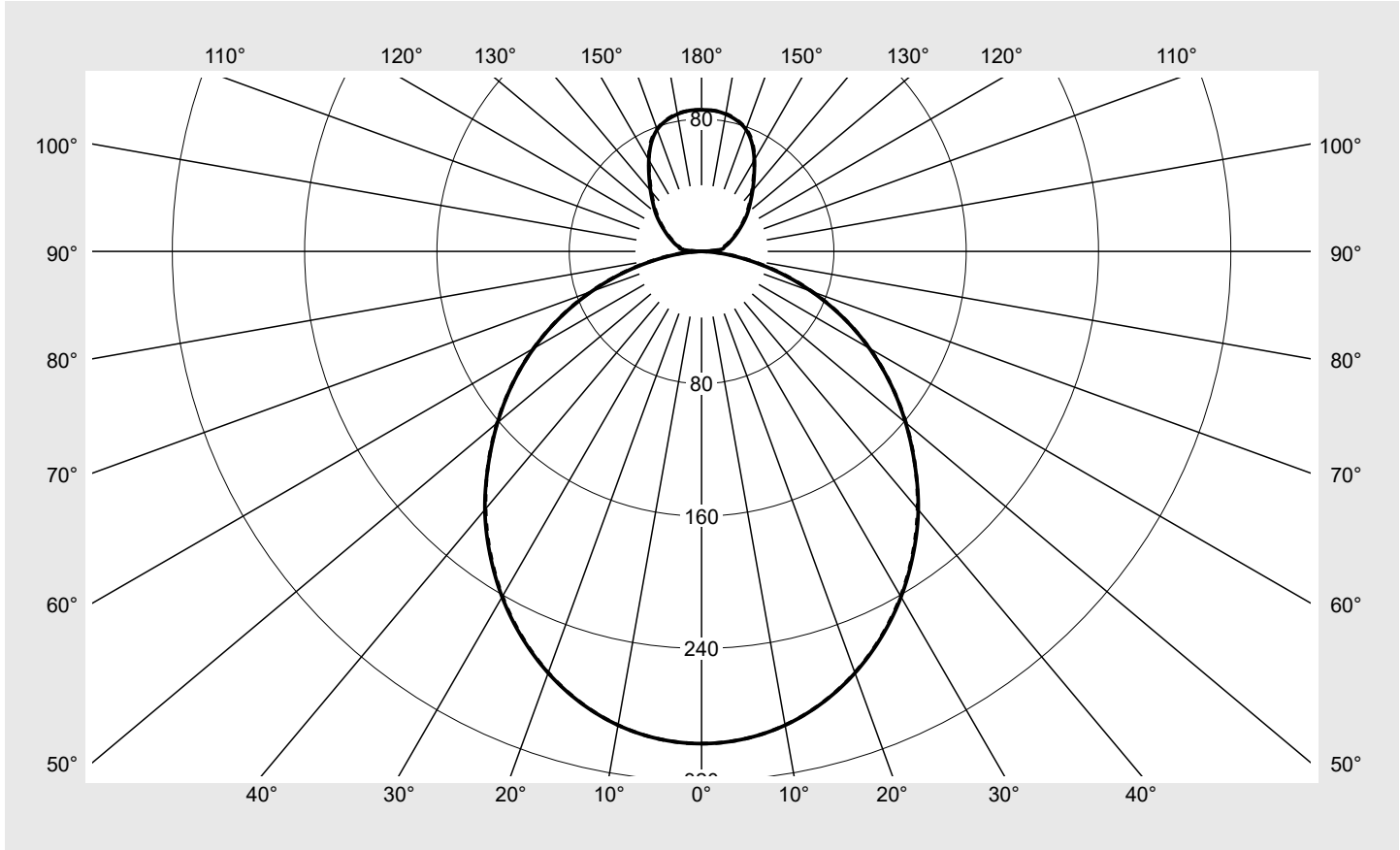


Photometric test report

Family Round 21 S	Order number: 51MR34GD0421W EAN: 4058352881521	LP number 59508_1
	Version Suspended luminaire, cover, opal, PMMA, symmetric extremely wide distribution, direct-/indirect distribution, aluminium housing, white	serial documentation 08.11.2023
	Lamps LED 4000 K CRI ≥ 80	
	Controlgear ECG-DALI	
	Rated values Net luminous flux = 3490 lm Power consumption = 28.0 W Luminous efficacy = 124.6 lm/W	

Luminous intensity in cd/klm C180-0 C270-90 Imax: 298 cd/klm



Classifications	
DIN 5040	B 4 3
CIE	N1=49 N2=80 N3=96 N4=79 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	79.2%
ϕ_o	20.8%

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°	297.6	297.6	297.6	297.6	297.6	297.6	297.6	1.8	1.8
5°	295.9	295.9	295.9	295.9	295.9	295.9	295.9	14.1	15.9
10°	290.8	290.9	290.9	290.8	290.8	290.7	290.8	27.7	43.6
15°	282.5	282.6	282.5	282.5	282.4	282.4	282.4	40.1	83.7
20°	271.2	271.3	271.2	271.1	271.0	271.0	271.0	50.8	134.5
25°	257.3	257.5	257.3	257.3	257.0	257.1	256.9	59.6	194.1
30°	241.2	241.5	241.2	241.1	240.8	240.8	240.8	66.1	260.2
35°	223.2	223.6	223.2	223.3	222.8	222.9	222.7	70.1	330.3
40°	203.8	204.3	203.8	203.9	203.3	203.7	203.2	71.8	402.1
45°	182.4	184.1	183.3	183.7	182.8	183.4	182.5	71.0	473.1
50°	161.1	162.9	162.1	162.4	161.6	162.2	161.3	68.1	541.2
55°	139.5	141.2	140.4	140.9	139.9	140.4	139.6	63.0	604.2
60°	117.2	118.9	118.0	118.6	117.6	117.9	117.4	56.0	660.3
65°	94.2	96.0	95.1	95.8	94.7	95.4	94.5	47.3	707.6
70°	70.7	72.8	71.7	72.5	71.4	72.3	71.3	37.1	744.6
75°	47.7	49.5	48.8	49.4	48.6	49.4	48.5	25.9	770.5
80°	26.4	28.1	27.8	28.2	27.7	28.0	27.6	15.0	785.6
85°	9.8	11.6	11.5	12.0	11.6	11.6	11.4	6.3	791.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	791.8
95°	10.6	11.0	10.6	10.8	10.4	10.4	9.8	5.8	797.6
100°	13.8	13.9	13.9	13.8	13.6	13.6	13.1	7.4	805.0
105°	16.2	16.5	16.4	16.5	16.3	16.3	15.6	8.6	813.6
110°	19.0	19.3	19.4	19.4	19.3	19.0	18.4	9.9	823.5
115°	22.4	22.8	22.7	22.8	22.6	22.4	21.8	11.2	834.7
120°	26.3	26.6	26.7	26.9	26.4	26.2	25.8	12.6	847.3
125°	31.1	31.2	31.0	31.4	30.8	30.8	30.4	13.9	861.2
130°	36.4	36.3	36.1	36.5	35.9	36.0	35.5	15.2	876.3
135°	41.6	41.8	41.8	41.9	41.8	41.8	41.1	16.2	892.5
140°	48.0	48.0	48.2	48.1	48.2	48.1	47.4	16.9	909.5
145°	55.3	55.0	55.3	55.3	55.2	55.2	54.9	17.3	926.8
150°	63.8	62.9	63.6	63.3	64.0	63.8	63.7	17.4	944.2
155°	72.1	72.2	71.9	72.9	72.4	72.8	72.7	16.8	961.0
160°	78.4	78.6	78.5	78.7	78.6	78.6	78.7	14.7	975.7
165°	82.0	82.0	82.1	82.0	82.1	82.2	82.3	11.6	987.4
170°	84.2	84.1	84.2	84.3	84.4	84.5	84.5	8.0	995.4
175°	85.4	85.3	85.3	85.4	85.4	85.4	85.4	4.1	999.5
180°	85.6	85.6	85.6	85.6	85.6	85.6	85.6	0.5	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	19.3	18.6	19.9	20.6	17.9	19.2	18.5	19.9	20.6
	3H	19.4	20.5	20.0	21.2	22.0	19.4	20.5	20.0	21.2	22.0
	4H	20.0	21.1	20.7	21.7	22.5	20.0	21.1	20.6	21.7	22.5
	6H	20.4	21.4	21.1	22.1	22.9	20.4	21.4	21.1	22.1	22.9
	8H	20.5	21.4	21.1	22.1	22.9	20.5	21.4	21.2	22.1	22.9
	12H	20.5	21.4	21.2	22.1	22.9	20.6	21.5	21.3	22.2	23.0
4H	2H	18.6	19.7	19.3	20.3	21.1	18.6	19.7	19.2	20.3	21.1
	3H	20.3	21.2	20.9	21.9	22.7	20.2	21.2	20.9	21.8	22.7
	4H	20.9	21.8	21.6	22.5	23.3	20.9	21.7	21.6	22.5	23.3
	6H	21.5	22.2	22.2	22.9	23.8	21.5	22.2	22.2	22.9	23.8
	8H	21.5	22.2	22.3	22.9	23.8	21.5	22.2	22.3	22.9	23.8
	12H	21.7	22.2	22.4	23.0	23.9	21.7	22.3	22.4	23.0	23.9
8H	4H	21.2	21.8	21.9	22.6	23.4	21.1	21.8	21.9	22.5	23.4
	6H	21.7	22.2	22.5	23.0	23.9	21.7	22.2	22.5	23.0	23.9
	8H	21.9	22.4	22.7	23.2	24.1	22.0	22.4	22.7	23.2	24.1
	12H	22.2	22.6	22.9	23.3	24.3	22.2	22.6	23.0	23.4	24.3
12H	4H	21.2	21.8	22.0	22.6	23.5	21.2	21.8	22.0	22.6	23.4
	6H	21.9	22.3	22.6	23.1	24.0	21.9	22.3	22.6	23.1	24.0
	8H	22.1	22.5	22.9	23.3	24.2	22.1	22.5	22.9	23.3	24.2

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 390
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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°	7534.9	7606.0	7572.6	7587.7	7551.8	7577.2	7540.8	
50°	50°	7319.8	7403.6	7367.5	7382.3	7345.7	7370.4	7333.3	
55°	55°	7103.0	7192.6	7149.1	7175.7	7126.2	7151.0	7112.8	
60°	60°	6847.1	6948.7	6897.4	6932.3	6871.3	6891.5	6859.1	
65°	65°	6509.3	6633.2	6571.4	6625.6	6546.1	6597.6	6533.7	
70°	70°	6037.7	6214.9	6123.4	6190.1	6097.8	6179.0	6086.1	
75°	75°	5383.4	5591.9	5507.2	5579.1	5488.5	5572.7	5480.1	
80°	80°	4448.3	4735.7	4670.6	4742.1	4664.5	4704.1	4645.9	
85°	85°	3283.3	3891.7	3838.1	4034.2	3887.4	3872.6	3815.3	

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco

