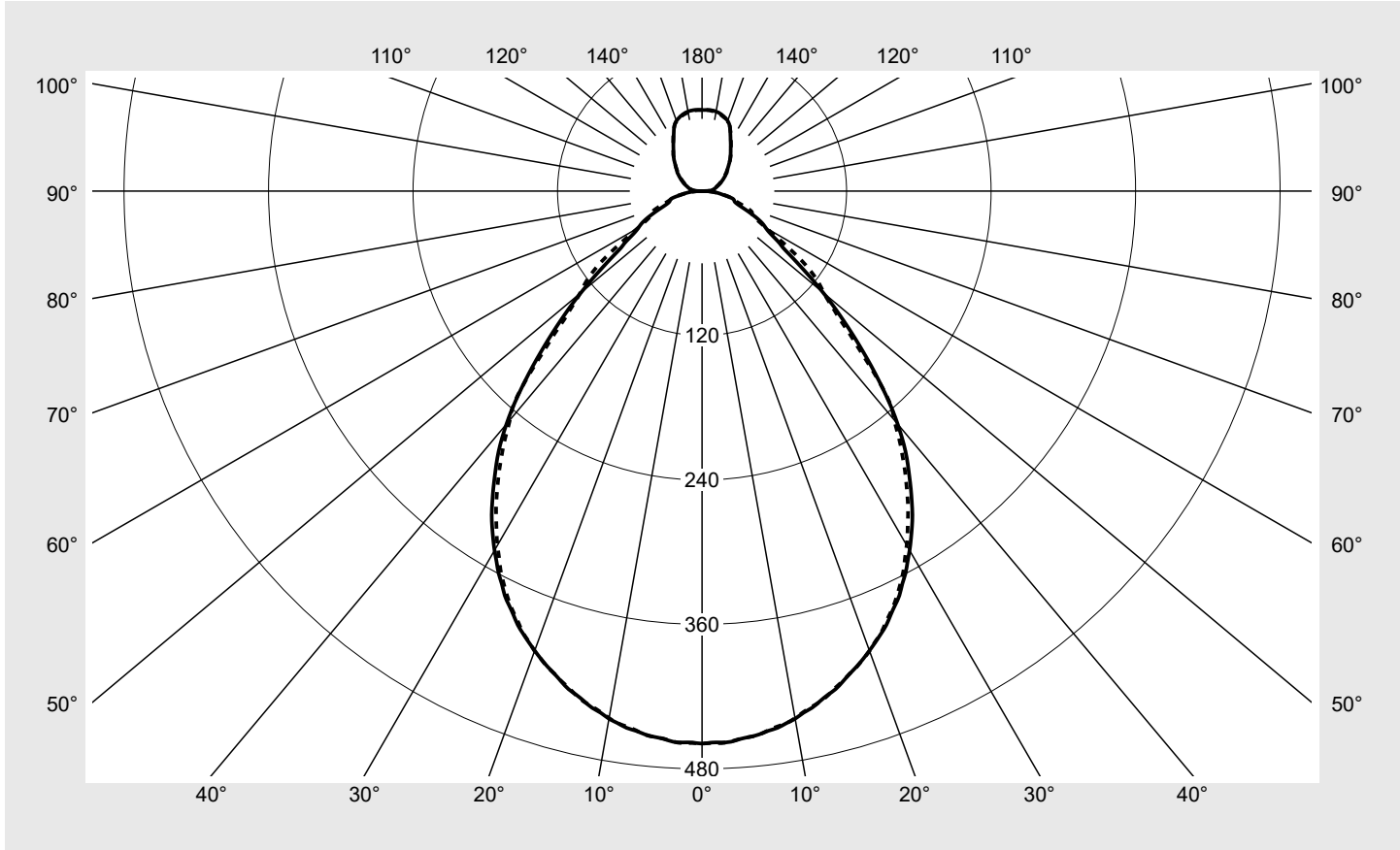


# Photometric test report

<b>Family</b> <b>Round 21 M</b>	<b>Order number: 51MR36ND0321W</b> <b>EAN: 4058352829943</b>	<b>LP number</b> <b>59653_10</b>
	<b>Version</b> Suspended luminaire, micro prismatic cover, PMMA, wide distribution, direct-/ indirect distribution, aluminium housing, white, UGR≤22  <b>Lamps</b> LED 3000 K   CRI ≥ 80  <b>Controlgear</b> ECG-DALI  <b>Rated values</b> Net luminous flux = 7170 lm Power consumption = 54.6 W Luminous efficacy = 131.3 lm/W	<b>serial documentation</b> <b>31.07.2024</b>  

**Luminous intensity in cd/klm**    C180-0    C270-90    **Imax: 459 cd/klm**



Classifications	
DIN 5040	B 5 3
CIE	N1=66 N2=90 N3=98 N4=84 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	84.0%
$\phi_o$	16.0%

**Measurement conditions**  
 DIN EN 13032 and DIN 5032

## Photometric test report

<b>Family</b> Round 21 M	<b>Order number: 51MR36ND0321W</b> <b>EAN: 4058352829943</b>	<b>LP number</b> 59653_10
<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

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°	459.1	459.1	459.1	459.1	459.1	459.1	459.1	0.1	0.1
1°	458.3	458.6	458.2	459.2	458.5	459.2	458.6	0.9	1.0
2°	458.4	458.7	458.0	458.1	458.4	458.6	459.0	1.8	2.7
3°	458.2	457.6	457.3	457.8	457.5	457.7	458.0	2.6	5.4
4°	456.3	456.8	456.8	457.2	456.0	457.0	456.1	3.5	8.9
5°	455.2	455.6	455.6	455.4	454.9	455.3	455.2	4.4	13.2
6°	453.9	454.5	454.0	454.2	453.3	454.1	454.1	5.2	18.4
7°	451.8	452.6	452.0	452.1	452.0	452.3	451.3	6.0	24.5
8°	450.4	450.9	450.4	450.6	450.1	450.9	449.2	6.9	31.3
9°	447.6	448.4	447.6	448.2	446.8	448.4	447.7	7.7	39.0
10°	445.2	446.0	445.3	445.8	444.5	445.7	444.6	8.5	47.5
11°	441.5	443.4	442.4	442.5	441.3	443.1	441.0	9.3	56.8
12°	438.9	440.2	439.2	440.1	438.0	439.8	438.0	10.0	66.8
13°	435.1	437.2	435.7	437.0	434.8	436.6	435.5	10.8	77.5
14°	431.4	434.0	432.4	433.6	431.6	433.2	431.9	11.5	89.0
15°	428.4	430.4	428.4	429.8	427.3	429.7	427.3	12.2	101.2
16°	424.0	426.2	424.9	426.4	423.8	425.9	423.6	12.9	114.0
17°	419.4	422.6	421.1	422.4	419.3	421.8	419.3	13.5	127.5
18°	415.4	418.3	416.6	418.3	414.7	417.9	415.7	14.1	141.7
19°	411.0	414.2	412.3	413.4	410.2	413.1	411.1	14.7	156.4
20°	406.3	409.4	407.5	408.9	405.8	408.8	406.7	15.3	171.7
21°	401.5	404.8	402.9	404.3	400.3	403.5	401.1	15.8	187.5
22°	396.7	399.3	397.7	399.2	395.1	397.8	396.4	16.3	203.8
23°	391.7	394.3	392.2	393.5	390.0	392.7	389.9	16.8	220.7
24°	385.3	388.8	386.1	387.8	384.1	387.0	384.1	17.2	237.9
25°	379.5	382.8	379.6	381.4	378.2	381.1	378.0	17.6	255.5
26°	373.8	376.5	373.2	375.2	371.7	374.0	371.1	18.0	273.5
27°	366.3	369.7	366.2	368.0	364.8	367.8	363.9	18.3	291.7
28°	359.8	362.2	358.8	361.2	358.0	360.2	356.5	18.5	310.3
29°	352.0	355.0	350.9	354.0	350.7	352.8	347.8	18.7	329.0
30°	344.7	347.1	342.9	346.4	342.8	345.3	339.9	18.9	347.9
31°	336.9	339.2	333.9	338.1	336.3	336.6	331.3	19.0	366.9
32°	329.0	330.7	326.0	329.7	328.4	328.6	322.6	19.1	386.0
33°	320.7	322.4	316.9	321.1	320.7	319.7	314.1	19.1	405.0
34°	311.5	313.5	308.1	312.3	312.2	311.4	304.9	19.1	424.1
35°	302.3	304.8	299.5	303.3	303.6	302.2	295.6	19.0	443.1
36°	292.9	295.6	290.2	293.8	294.5	292.6	286.5	18.9	462.0
37°	283.8	286.0	280.7	284.2	285.5	282.8	276.9	18.7	480.7
38°	274.4	275.8	271.2	274.0	276.2	272.6	267.7	18.5	499.1
39°	263.9	264.9	261.3	263.2	266.2	261.4	257.7	18.1	517.3
40°	252.7	253.5	250.1	251.9	256.2	249.6	248.3	17.8	535.0
41°	240.9	240.9	237.7	240.1	245.7	237.1	240.7	17.3	552.3
42°	228.3	228.0	225.7	227.9	233.8	224.4	229.3	16.7	569.1
43°	215.3	215.0	215.4	215.5	222.1	211.6	214.2	16.1	585.2
44°	202.5	201.9	200.4	203.2	209.7	199.8	197.9	15.4	600.6

## Photometric test report

Family Round 21 M	Order number: 51MR36ND0321W EAN: 4058352829943	LP number 59653_10
Table of values for luminous intensities		Maximum luminous intensity
		<b>siteco</b>

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		
45°	189.7	189.3	186.2	190.9	197.2	187.7	182.5	14.7	615.3
46°	177.4	177.1	173.6	177.8	188.9	175.9	169.9	14.0	629.4
47°	165.4	165.5	159.2	165.5	176.4	164.8	156.7	13.3	642.6
48°	153.8	154.8	148.9	153.7	165.0	154.2	147.7	12.6	655.2
49°	142.7	144.6	140.1	142.4	151.9	144.2	139.0	11.9	667.1
50°	131.1	135.0	132.4	132.1	139.8	134.6	132.6	11.3	678.4
51°	120.2	125.5	126.2	122.6	127.6	125.4	127.3	10.7	689.1
52°	109.1	116.5	119.8	113.6	115.5	116.5	122.2	10.0	699.1
53°	99.0	108.0	113.7	105.3	104.2	108.0	116.1	9.4	708.6
54°	89.9	99.7	107.2	96.9	93.7	99.6	109.3	8.8	717.4
55°	82.2	92.0	100.2	89.5	84.5	91.9	101.5	8.2	725.6
56°	77.9	84.9	92.7	82.4	76.9	84.9	92.5	7.7	733.3
57°	72.6	78.3	85.2	76.3	70.6	78.3	83.7	7.2	740.5
58°	67.4	72.2	77.7	71.1	65.6	72.5	75.4	6.7	747.1
59°	63.6	66.4	70.5	66.5	61.9	67.2	68.1	6.2	753.4
60°	61.0	61.2	63.9	62.3	59.2	62.2	61.8	5.9	759.2
61°	58.8	56.8	58.3	58.6	57.1	58.0	57.0	5.5	764.8
62°	56.4	53.2	53.7	55.3	55.3	54.6	53.0	5.3	770.1
63°	53.3	50.3	50.4	52.3	53.1	51.4	49.9	5.0	775.1
64°	49.8	47.5	48.1	49.0	50.2	48.0	47.7	4.8	779.9
65°	46.0	45.1	46.6	45.6	46.6	44.7	46.0	4.5	784.4
66°	42.4	42.6	45.5	42.3	42.9	41.5	45.4	4.3	788.8
67°	38.8	40.2	44.2	39.1	39.5	38.5	45.0	4.1	792.8
68°	35.5	38.0	42.3	36.4	36.6	36.0	43.6	3.9	796.7
69°	32.8	35.8	39.8	34.2	34.1	34.1	41.0	3.7	800.4
70°	30.8	33.8	37.1	32.9	32.0	32.6	37.9	3.5	803.9
71°	29.4	32.0	34.3	32.1	30.2	31.5	34.9	3.3	807.2
72°	28.5	30.3	31.9	31.0	28.7	30.4	32.2	3.2	810.4
73°	28.0	28.6	30.0	29.4	27.6	29.0	30.0	3.0	813.4
74°	27.7	27.2	28.6	27.5	27.0	27.4	28.4	2.9	816.3
75°	27.2	25.8	27.3	25.6	26.7	25.6	27.0	2.8	819.1
76°	26.4	24.3	25.9	23.9	26.0	24.0	25.8	2.7	821.8
77°	24.7	22.9	24.4	22.4	24.4	22.3	24.3	2.5	824.3
78°	22.4	21.3	22.5	20.9	22.4	20.7	22.7	2.3	826.6
79°	19.9	19.5	20.4	19.1	20.2	19.1	20.8	2.1	828.7
80°	17.5	17.7	18.4	17.3	18.2	17.5	18.7	1.9	830.7
81°	16.1	15.9	16.4	15.6	16.4	15.6	16.6	1.7	832.4
82°	14.7	14.1	14.7	14.0	14.8	13.9	14.5	1.6	834.0
83°	13.4	12.5	13.0	12.4	13.2	12.4	12.6	1.4	835.3
84°	11.9	10.9	11.3	10.8	11.6	10.8	11.0	1.2	836.6
85°	10.4	9.2	9.8	9.2	9.9	9.1	9.5	1.0	837.6
86°	8.8	7.4	8.2	7.5	8.3	7.4	7.9	0.9	838.5
87°	7.3	5.7	6.5	5.7	6.6	5.6	6.3	0.7	839.1
88°	5.0	4.1	4.8	4.2	4.7	4.1	4.7	0.5	839.6
89°	3.1	3.0	3.1	3.2	3.0	3.2	3.0	0.3	840.0

## Photometric test report

Family Round 21 M	Order number: 51MR36ND0321W EAN: 4058352829943	LP number 59653_10
Table of values for luminous intensities		Maximum luminous intensity
		<b>siteco</b>

C-planes $\gamma$	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
		Luminous intensity in cd/klm							
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	840.0
91°	5.3	4.7	4.9	4.5	4.6	4.4	4.5	0.5	840.5
92°	6.2	5.5	5.9	5.2	5.6	5.0	5.4	0.6	841.1
93°	6.8	6.2	6.5	6.0	6.3	6.0	6.1	0.7	841.8
94°	7.4	6.9	7.0	6.8	7.0	6.7	6.8	0.8	842.5
95°	7.8	7.4	7.6	7.2	7.6	7.3	7.3	0.8	843.3
96°	8.5	8.2	8.3	7.9	8.3	7.9	7.8	0.9	844.2
97°	9.0	8.7	8.8	8.6	8.8	8.6	8.3	0.9	845.2
98°	9.3	9.2	9.1	9.0	9.2	9.0	8.8	1.0	846.1
99°	9.8	9.7	9.7	9.5	9.6	9.4	9.3	1.0	847.2
100°	10.1	10.2	10.0	9.9	10.0	10.0	9.8	1.1	848.3
101°	10.6	10.5	10.6	10.4	10.5	10.5	10.4	1.1	849.4
102°	11.0	10.9	10.9	10.7	10.9	10.9	10.6	1.2	850.6
103°	11.4	11.3	11.3	11.1	11.4	11.3	11.1	1.2	851.8
104°	11.7	11.7	11.8	11.6	11.7	11.7	11.4	1.2	853.0
105°	12.2	12.1	12.1	12.0	12.2	12.0	11.8	1.3	854.3
106°	12.6	12.4	12.5	12.5	12.6	12.5	12.2	1.3	855.6
107°	12.9	12.8	13.0	12.9	13.0	13.0	12.7	1.4	857.0
108°	13.5	13.3	13.4	13.4	13.4	13.5	13.1	1.4	858.3
109°	14.0	13.8	13.8	13.8	14.0	13.9	13.5	1.4	859.8
110°	14.6	14.3	14.4	14.2	14.5	14.5	14.2	1.5	861.3
111°	15.2	14.8	15.0	14.8	15.0	15.0	14.6	1.5	862.8
112°	15.8	15.5	15.5	15.2	15.4	15.5	15.1	1.6	864.4
113°	16.3	16.0	16.0	15.7	16.0	16.0	15.6	1.6	866.0
114°	17.0	16.5	16.5	16.3	16.6	16.5	16.2	1.7	867.6
115°	17.5	17.1	17.1	17.0	17.2	17.1	16.8	1.7	869.3
116°	18.1	17.5	17.7	17.5	17.8	17.7	17.3	1.7	871.1
117°	18.5	18.1	18.3	18.2	18.3	18.2	18.1	1.8	872.8
118°	19.3	18.7	18.9	18.7	19.0	18.9	18.7	1.8	874.7
119°	20.0	19.3	19.6	19.5	19.7	19.4	19.2	1.9	876.5
120°	20.6	20.0	20.2	20.0	20.1	20.2	20.0	1.9	878.5
121°	21.2	20.7	20.9	20.8	20.9	20.8	20.6	2.0	880.4
122°	22.0	21.3	21.6	21.3	21.6	21.4	21.3	2.0	882.4
123°	22.7	22.1	22.3	22.1	22.3	22.0	21.9	2.0	884.5
124°	23.4	22.8	23.0	22.7	23.2	22.7	22.9	2.1	886.5
125°	24.1	23.5	23.7	23.5	24.0	23.5	23.5	2.1	888.7
126°	25.0	24.3	24.4	24.2	24.8	24.2	24.2	2.2	890.8
127°	25.7	24.9	25.2	25.0	25.6	25.0	25.0	2.2	893.0
128°	26.1	25.8	25.8	25.9	26.5	25.8	26.0	2.2	895.3
129°	26.5	26.6	26.6	26.6	27.3	26.6	26.8	2.3	897.5
130°	27.2	27.4	27.3	27.6	28.1	27.4	27.6	2.3	899.9
131°	28.1	28.4	28.0	28.3	28.8	28.3	28.3	2.3	902.2
132°	28.9	29.2	28.9	29.3	29.5	29.2	29.1	2.4	904.6
133°	29.8	30.2	29.9	30.3	30.3	30.1	30.0	2.4	907.0
134°	30.7	31.1	30.8	31.1	31.2	31.0	30.8	2.4	909.4

## Photometric test report

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Table of values for luminous intensities		Maximum luminous intensity
		<b>siteco</b>

C-planes $\gamma$	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
	Luminous intensity in cd/klm							Luminous flux in lm/klm	
135°	31.6	32.1	31.6	32.1	32.0	32.0	32.0	2.5	911.9
136°	32.6	32.9	32.5	33.0	32.8	32.9	32.9	2.5	914.4
137°	33.6	33.9	33.4	34.0	33.6	33.8	33.7	2.5	916.9
138°	34.7	34.9	34.5	35.0	34.4	34.9	34.6	2.5	919.5
139°	35.7	35.9	35.4	36.0	35.4	35.8	35.7	2.6	922.1
140°	36.6	36.9	36.4	37.1	36.5	36.9	36.7	2.6	924.6
141°	37.5	37.9	37.4	37.9	37.5	38.0	37.7	2.6	927.3
142°	38.5	39.0	38.4	39.1	38.4	39.0	38.8	2.6	929.9
143°	39.4	40.0	39.4	40.3	39.5	40.1	39.6	2.6	932.5
144°	40.5	41.1	40.5	41.3	40.5	41.2	40.6	2.6	935.1
145°	41.4	42.2	41.5	42.5	41.8	42.4	41.7	2.6	937.8
146°	42.5	43.3	42.7	43.5	42.9	43.6	42.9	2.6	940.4
147°	43.7	44.6	43.8	44.9	44.1	44.9	44.0	2.6	943.1
148°	45.0	45.8	45.0	46.1	45.4	46.1	45.3	2.7	945.7
149°	46.2	47.1	46.3	47.4	46.6	47.5	46.5	2.6	948.4
150°	47.6	48.5	47.7	48.8	47.9	48.8	47.9	2.6	951.0
151°	48.8	50.0	49.3	50.4	49.5	50.3	49.5	2.6	953.7
152°	50.3	51.3	50.7	51.9	51.1	51.8	51.0	2.6	956.3
153°	51.9	52.9	52.3	53.5	52.7	53.3	52.7	2.6	958.9
154°	53.6	54.6	53.9	55.0	54.2	54.9	54.2	2.6	961.5
155°	55.4	56.1	55.7	56.6	55.9	56.3	55.5	2.6	964.1
156°	57.3	57.5	57.2	57.8	57.3	57.8	57.1	2.6	966.7
157°	58.8	59.0	58.5	59.1	58.8	59.1	58.7	2.5	969.2
158°	60.1	60.2	59.9	60.3	60.0	60.1	60.1	2.5	971.7
159°	61.1	61.3	60.9	61.3	61.0	61.1	61.1	2.4	974.1
160°	62.1	62.2	61.9	62.0	61.9	61.9	62.0	2.3	976.4
161°	62.8	63.0	62.9	63.0	62.7	62.7	62.7	2.2	978.7
162°	63.5	63.8	63.4	63.7	63.3	63.4	63.3	2.2	980.8
163°	64.1	64.3	64.1	64.1	64.0	64.0	63.7	2.1	982.9
164°	64.7	64.8	64.6	64.7	64.5	64.4	64.1	2.0	984.8
165°	65.2	65.3	65.2	65.2	64.9	65.0	64.7	1.8	986.7
166°	65.7	65.8	65.6	65.7	65.4	65.3	65.1	1.7	988.4
167°	66.1	66.1	66.1	66.0	65.9	65.7	65.5	1.6	990.0
168°	66.6	66.5	66.4	66.4	66.2	66.0	65.8	1.5	991.5
169°	66.8	66.9	66.7	66.7	66.5	66.3	66.1	1.4	992.9
170°	67.1	67.0	66.8	66.9	66.7	66.6	66.4	1.3	994.2
171°	67.3	67.2	67.1	67.2	67.0	66.8	66.6	1.1	995.4
172°	67.5	67.4	67.2	67.3	67.1	66.9	67.0	1.0	996.4
173°	67.5	67.5	67.3	67.4	67.3	66.9	67.0	0.9	997.3
174°	67.7	67.5	67.4	67.6	67.4	67.1	67.3	0.8	998.1
175°	67.6	67.6	67.5	67.5	67.5	67.1	67.4	0.6	998.7
176°	67.5	67.6	67.5	67.5	67.5	67.1	67.4	0.5	999.2
177°	67.5	67.4	67.5	67.3	67.5	67.0	67.4	0.4	999.6
178°	67.4	67.3	67.5	67.4	67.4	67.1	67.5	0.3	999.9
179°	67.4	67.3	67.4	67.4	67.4	67.0	67.4	0.1	1000.0
180°	67.4	67.4	67.4	67.4	67.4	67.4	67.4	0.0	1000.0

## Photometric test report

Family Round 21 M	Order number: 51MR36ND0321W EAN: 4058352829943	LP number 59653_10
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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	18.7	19.9	19.2	20.5	21.1	18.7	19.9	19.2	20.5	21.1
	3H	19.2	20.3	19.8	20.9	21.6	19.2	20.3	19.8	20.9	21.6
	4H	19.6	20.6	20.2	21.2	21.9	19.6	20.6	20.2	21.2	21.9
	6H	20.0	20.9	20.6	21.5	22.2	20.0	21.0	20.6	21.6	22.3
	8H	20.1	20.9	20.7	21.6	22.3	20.1	21.0	20.8	21.6	22.4
	12H	20.3	21.1	20.9	21.7	22.4	20.3	21.1	20.9	21.7	22.5
4H	2H	18.8	19.9	19.5	20.5	21.2	18.9	19.9	19.5	20.5	21.2
	3H	19.7	20.5	20.3	21.2	21.9	19.6	20.5	20.3	21.1	21.9
	4H	20.1	20.9	20.8	21.6	22.3	20.1	20.9	20.8	21.5	22.3
	6H	20.7	21.4	21.4	22.0	22.8	20.7	21.3	21.4	22.0	22.8
	8H	20.8	21.4	21.5	22.1	22.9	20.8	21.4	21.5	22.1	22.9
	12H	21.1	21.6	21.8	22.3	23.1	21.1	21.6	21.8	22.3	23.1
8H	4H	20.3	20.9	21.0	21.6	22.4	20.3	20.9	21.0	21.6	22.4
	6H	20.9	21.4	21.6	22.1	23.0	20.9	21.4	21.6	22.1	22.9
	8H	21.2	21.7	22.0	22.4	23.2	21.2	21.7	22.0	22.4	23.2
	12H	21.6	22.0	22.3	22.7	23.5	21.6	21.9	22.3	22.7	23.5
12H	4H	20.4	20.9	21.1	21.6	22.4	20.4	20.9	21.1	21.6	22.4
	6H	21.1	21.5	21.8	22.2	23.0	21.1	21.5	21.8	22.2	23.0
	8H	21.4	21.8	22.1	22.5	23.3	21.4	21.8	22.1	22.5	23.3

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 390
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C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		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°		16099.4	16064.6	15809.0	16200.5	16740.5	15932.9	15493.9	
50°		12245.7	12605.3	12364.3	12334.4	13057.4	12570.8	12380.2	
55°		8598.9	9630.1	10487.5	9367.3	8838.6	9617.5	10618.3	
60°		7328.0	7350.8	7673.9	7476.9	7103.4	7463.7	7422.9	
65°		6531.4	6399.3	6621.0	6481.7	6618.2	6353.9	6537.1	
70°		5410.8	5928.7	6502.9	5776.0	5609.1	5718.1	6657.3	
75°		6303.3	5992.6	6340.4	5943.9	6194.3	5946.2	6259.3	
80°		6058.1	6127.2	6345.3	5982.1	6276.2	6033.9	6452.5	
85°		7151.0	6359.1	6765.4	6338.4	6813.6	6276.4	6538.1	

**Photometric test report**

<b>Family</b> Round 21 M	<b>Order number: 51MR36ND0321W</b> <b>EAN: 4058352829943</b>	<b>LP number</b> 59653_10
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**Luminance values in cd/m<sup>2</sup>**

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

