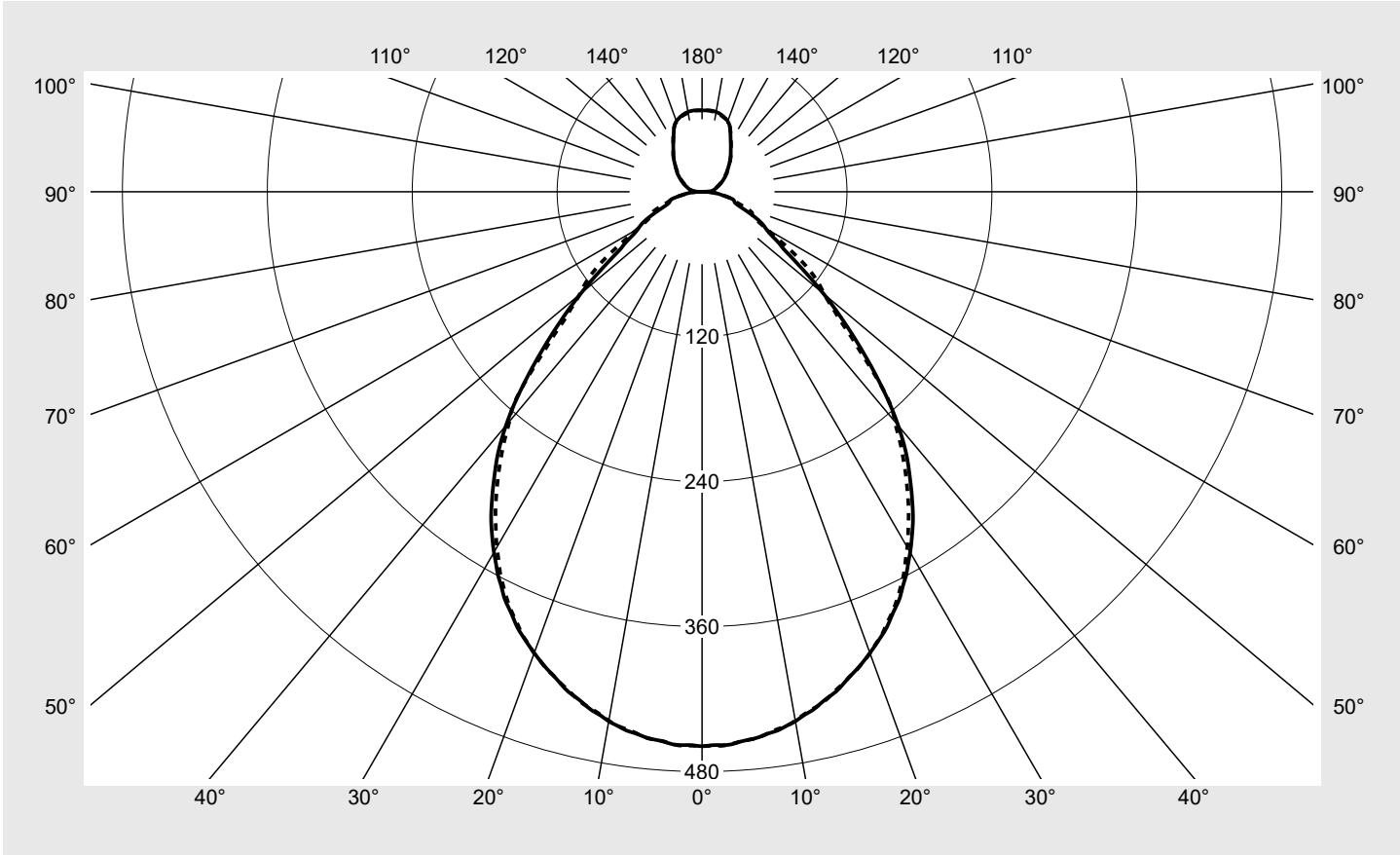


# Photometric test report

<b>Family</b> Round 21 M	<b>Order number: 51MR36ND0421S</b> <b>EAN: 4058352881774</b>	<b>LP number</b> 59653_9
<b>Version</b>	Suspended luminaire, micro prismatic cover, PMMA, wide distribution, direct-/ indirect distribution, aluminium housing, silver, UGR≤19	<b>serial documentation</b> 31.07.2024
<b>Lamps</b>	LED 4000 K   CRI ≥ 80	
<b>Controlgear</b>	ECG-DALI	
<b>Rated values</b>	Net luminous flux = 7470 lm Power consumption = 54.6 W Luminous efficacy = 136.8 lm/W	



**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: 51MR36ND0421S</b> <b>EAN: 4058352881774</b>	<b>LP number</b> 59653_9
<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: 51MR36ND0421S EAN: 4058352881774	LP number 59653_9
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: 51MR36ND0421S EAN: 4058352881774	LP number 59653_9
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
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

Family Round 21 M	Order number: 51MR36ND0421S EAN: 4058352881774	LP number 59653_9
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

<b>Family</b> Round 21 M	<b>Order number: 51MR36ND0421S</b> <b>EAN: 4058352881774</b>	<b>LP number</b> 59653_9
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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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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	15.9	17.2	16.5	17.7	18.4	15.9	17.2	16.5	17.7	18.4
	3H	16.4	17.5	17.0	18.1	18.8	16.5	17.6	17.1	18.2	18.9
	4H	16.8	17.8	17.4	18.5	19.1	16.9	17.9	17.5	18.5	19.2
	6H	17.2	18.2	17.9	18.8	19.5	17.3	18.2	17.9	18.8	19.5
	8H	17.4	18.2	18.0	18.8	19.6	17.4	18.3	18.1	18.9	19.6
	12H	17.5	18.3	18.2	19.0	19.7	17.6	18.3	18.2	19.0	19.7
4H	2H	16.1	17.1	16.7	17.7	18.4	16.1	17.2	16.7	17.8	18.5
	3H	16.9	17.8	17.6	18.4	19.2	16.9	17.8	17.6	18.4	19.1
	4H	17.4	18.2	18.1	18.8	19.6	17.4	18.2	18.1	18.8	19.6
	6H	18.0	18.6	18.6	19.3	20.1	18.0	18.6	18.6	19.3	20.0
	8H	18.1	18.7	18.8	19.4	20.2	18.1	18.7	18.8	19.4	20.2
	12H	18.4	18.9	19.1	19.6	20.4	18.3	18.8	19.0	19.5	20.3
8H	4H	17.6	18.2	18.3	18.8	19.7	17.6	18.2	18.3	18.8	19.7
	6H	18.2	18.7	18.9	19.4	20.2	18.2	18.7	18.9	19.4	20.2
	8H	18.5	18.9	19.2	19.7	20.5	18.5	18.9	19.2	19.7	20.5
	12H	18.9	19.2	19.6	20.0	20.8	18.8	19.2	19.6	19.9	20.8
12H	4H	17.6	18.2	18.4	18.9	19.7	17.6	18.2	18.4	18.9	19.7
	6H	18.3	18.8	19.1	19.5	20.3	18.3	18.7	19.1	19.5	20.3
	8H	18.7	19.0	19.4	19.8	20.6	18.7	19.0	19.4	19.8	20.6

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>D = 590</b>
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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°		7328.8	7313.0	7196.7	7374.9	7620.7	7253.1	7053.2	
50°		5574.6	5738.3	5628.5	5614.9	5944.1	5722.5	5635.8	
55°		3914.4	4383.8	4774.2	4264.2	4023.6	4378.1	4833.7	
60°		3335.9	3346.3	3493.3	3403.7	3233.7	3397.7	3379.1	
65°		2973.3	2913.1	3014.1	2950.6	3012.8	2892.4	2975.8	
70°		2463.1	2698.9	2960.3	2629.4	2553.4	2603.0	3030.6	
75°		2869.4	2728.0	2886.3	2705.8	2819.8	2706.9	2849.4	
80°		2757.8	2789.3	2888.6	2723.2	2857.1	2746.8	2937.3	
85°		3255.3	2894.8	3079.8	2885.4	3101.7	2857.2	2976.3	

**Photometric test report**

<b>Family</b> Round 21 M	<b>Order number: 51MR36ND0421S</b> <b>EAN: 4058352881774</b>	<b>LP number</b> 59653_9
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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**

