

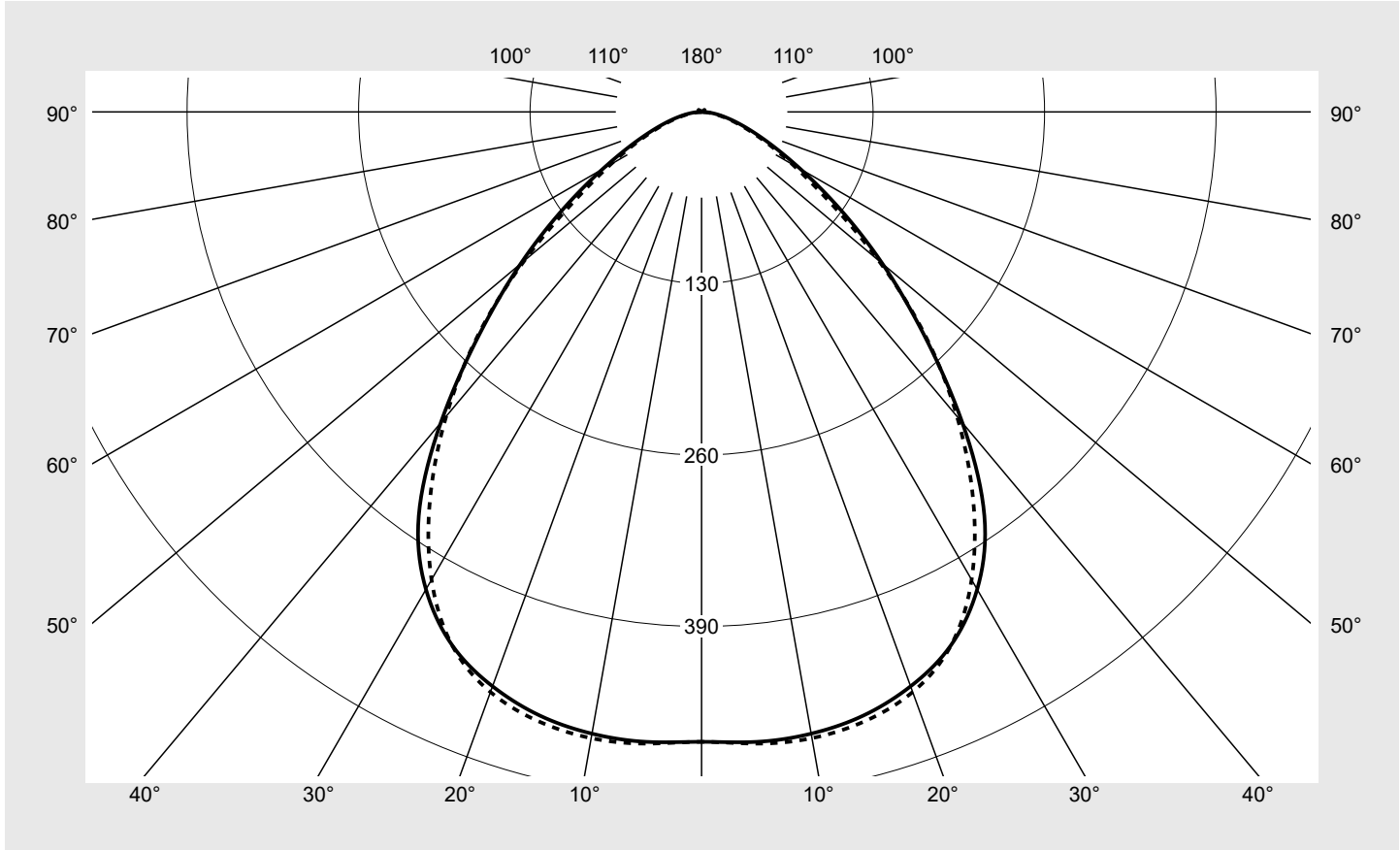


# Photometric test report

<b>Family</b> <b>Trunking Flex 31</b>	<b>Order number: 51RF12MB58XG5</b> <b>EAN: 4069025595638</b>	<b>LP number</b> <b>59302_394</b>
	<b>Version</b> primary light control with lens, transparent, PMMA, wide distribution <b>Lamps</b> LED 5000 K   CRI ≥ 80 <b>Controlgear</b> ECG Multilumen <b>Rated values</b> Net luminous flux = 8030 lm Power consumption = 45.4 W Luminous efficacy = 176.9 lm/W	<b>serial documentation</b> <b>13.11.2025</b>

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 482 cd/klm**



Classifications	
DIN 5040	A 5 2
CIE	N1=64 N2=91 N3=98 N4=99 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	99.1%
$\phi_o$	0.9%

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

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<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		
0°	477.4	477.4	477.4	477.4	477.4	477.4	477.4	2.9	2.9
5°	479.2	479.4	476.1	476.9	477.7	479.1	480.6	22.8	25.7
10°	478.5	478.8	475.9	476.7	478.1	479.7	481.9	45.5	71.2
15°	473.7	474.6	472.3	472.8	474.3	476.3	478.1	67.3	138.5
20°	463.3	464.4	462.2	462.5	463.5	465.9	467.9	87.0	225.5
25°	446.5	446.1	441.7	442.3	444.6	445.0	446.7	102.9	328.5
30°	417.9	412.9	407.0	410.2	413.2	410.4	409.4	112.7	441.2
35°	373.8	365.6	358.8	365.1	368.4	362.5	359.0	114.6	555.7
40°	307.6	307.1	302.9	303.0	299.1	300.3	301.2	106.7	662.4
45°	238.0	232.2	241.2	229.3	232.4	226.8	239.9	90.5	752.9
50°	179.0	175.4	175.4	172.2	173.6	171.0	175.3	73.1	826.0
55°	127.6	127.0	119.9	124.4	123.4	123.3	117.8	55.4	881.5
60°	86.5	87.3	81.4	85.4	84.1	84.7	79.6	40.0	921.5
65°	57.4	58.2	54.6	57.2	56.0	56.8	53.2	28.0	949.5
70°	37.6	37.8	35.9	37.4	36.6	36.7	34.5	18.9	968.4
75°	23.7	23.8	22.9	23.5	22.9	22.8	21.3	12.2	980.6
80°	13.7	13.5	13.1	13.2	12.8	12.3	11.3	7.0	987.6
85°	6.4	6.2	5.9	5.7	5.2	4.6	4.0	3.0	990.6
90°	2.2	2.1	2.0	1.7	1.4	1.0	0.6	0.9	991.5
95°	1.8	1.7	1.7	1.5	1.2	0.8	0.5	0.7	992.2
100°	2.3	2.3	2.1	1.7	1.3	0.8	0.5	0.9	993.0
105°	2.1	2.1	2.0	1.7	1.3	0.7	0.5	0.8	993.9
110°	2.3	2.3	2.0	1.7	1.2	0.6	0.4	0.8	994.6
115°	2.2	2.1	1.9	1.7	1.1	0.7	0.5	0.7	995.4
120°	2.3	2.0	1.7	1.5	1.1	0.7	0.7	0.7	996.0
125°	2.7	2.1	1.8	1.4	1.0	0.7	0.7	0.7	996.7
130°	2.0	1.9	2.0	1.4	1.1	0.9	0.9	0.6	997.3
135°	2.0	1.9	1.8	1.5	1.2	1.2	1.2	0.6	997.9
140°	2.0	2.0	1.8	1.6	1.4	1.4	1.4	0.6	998.5
145°	2.1	2.0	1.9	1.7	1.6	1.6	1.6	0.6	999.1
150°	2.1	2.1	1.9	1.8	1.8	1.8	1.8	0.5	999.6
155°	1.9	1.9	1.8	1.8	1.8	1.8	1.8	0.4	1000.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
180°	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	
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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	22.0	23.5	22.4	23.8	24.1	22.1	23.6	22.4	23.9	24.2
	3H	22.5	23.8	22.9	24.2	24.5	22.6	23.9	22.9	24.2	24.6
	4H	22.6	23.9	23.0	24.2	24.6	22.7	24.0	23.1	24.3	24.7
	6H	22.7	23.9	23.1	24.2	24.6	22.8	24.0	23.2	24.3	24.7
	8H	22.8	23.8	23.2	24.2	24.6	22.9	23.9	23.3	24.3	24.7
	12H	22.8	23.8	23.2	24.2	24.6	22.9	23.9	23.3	24.3	24.7
4H	2H	22.3	23.5	22.7	23.9	24.2	22.3	23.6	22.7	23.9	24.3
	3H	22.9	23.9	23.3	24.3	24.7	22.9	24.0	23.4	24.4	24.8
	4H	23.1	24.0	23.5	24.4	24.8	23.2	24.1	23.6	24.5	24.9
	6H	23.2	24.0	23.7	24.5	24.9	23.3	24.1	23.8	24.6	25.0
	8H	23.3	24.0	23.7	24.4	24.9	23.4	24.1	23.8	24.5	25.0
	12H	23.3	23.9	23.8	24.4	24.9	23.4	24.0	23.9	24.5	25.0
8H	4H	23.1	23.9	23.6	24.3	24.8	23.2	24.0	23.7	24.4	24.9
	6H	23.3	23.9	23.8	24.4	24.9	23.4	24.0	23.9	24.5	25.0
	8H	23.4	23.9	23.9	24.4	24.9	23.5	24.0	24.0	24.5	25.0
	12H	23.5	23.9	24.0	24.4	24.9	23.5	24.0	24.1	24.5	25.0
12H	4H	23.2	23.8	23.6	24.2	24.7	23.3	23.9	23.7	24.3	24.8
	6H	23.4	23.9	23.9	24.3	24.9	23.5	24.0	24.0	24.4	25.0
	8H	23.4	23.9	24.0	24.4	24.9	23.5	24.0	24.0	24.5	25.0

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1433 B = 61	H(C0) = 5 H(C90) = 5	H(C180) = 5 H(C270) = 5
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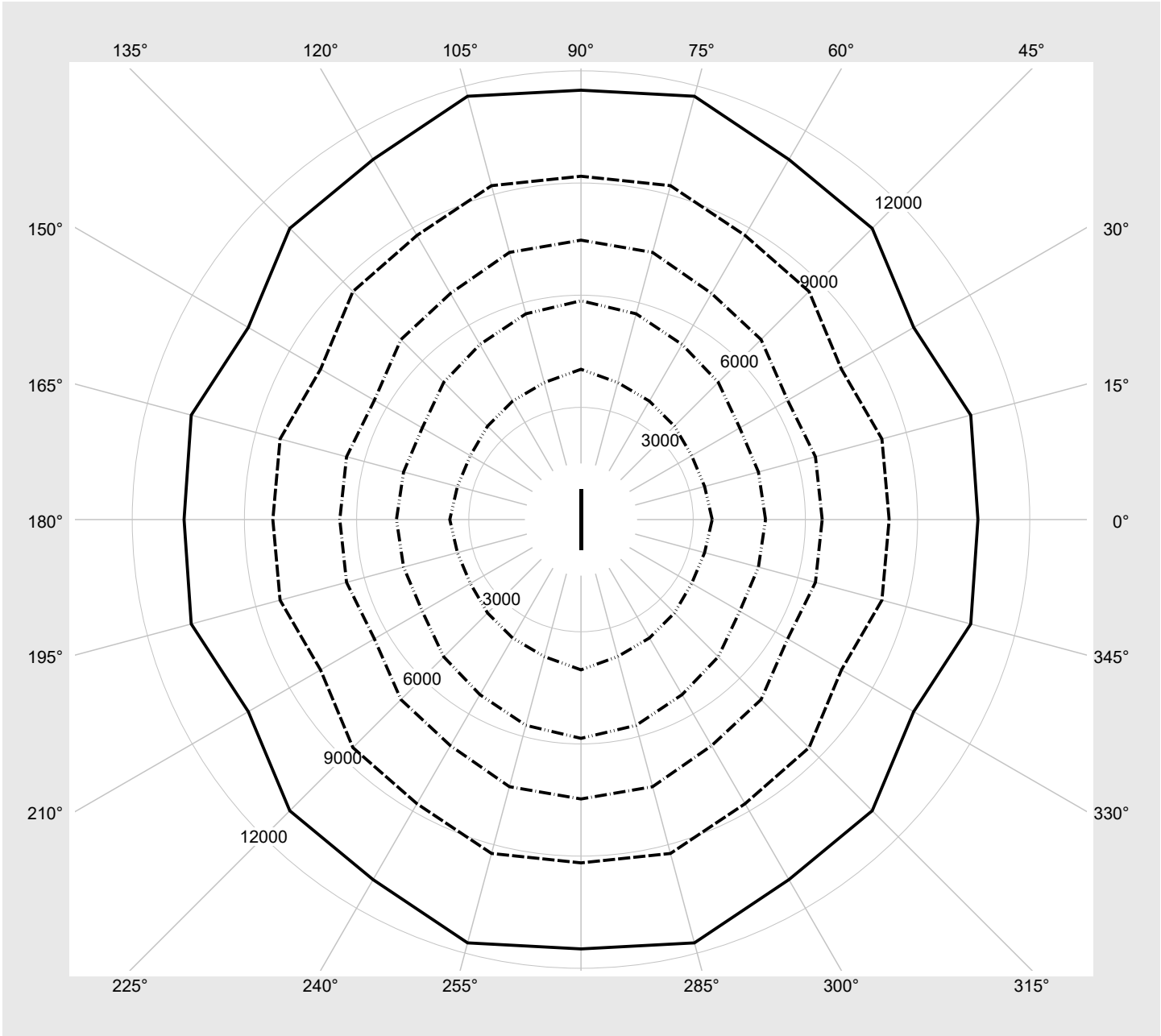
C-planes	$\gamma$	0° 180°	15°	30°	45°	60°	75°	90° 270°
			165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	
Luminance in cd/m²								
45°		28573.3	27934.6	29208.6	28093.8	28918.9	28755.6	31059.6
50°		23309.5	22884.1	23071.0	22959.3	23573.0	23749.0	24943.5
55°		18298.3	18254.1	17394.4	18339.8	18596.5	19077.0	18771.6
60°		13922.0	14090.9	13287.6	14204.9	14358.6	14927.0	14541.1
65°		10614.1	10789.9	10272.9	11012.9	11118.9	11719.6	11481.9
70°		8240.3	8330.4	8041.8	8625.3	8774.1	9244.1	9181.0
75°		6449.8	6490.3	6380.4	6808.9	6982.6	7396.1	7471.9
80°		4935.0	4912.0	4901.9	5190.9	5406.3	5696.7	5851.0
85°		3508.8	3421.3	3417.6	3533.6	3657.9	3793.1	4018.9

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Luminance values in cd/m<sup>2</sup>       $\gamma$  65°      $\gamma$  70°      $\gamma$  75°      $\gamma$  80°      $\gamma$  85°

**siteco**



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<b>Multilumen Table</b>	environmental temperature: 25°C	<b>sITeco</b>
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DIP-Step	Switch Setting				Luminous flux [lm]	Power consumption [W]
	1	2	3	4		
11	ON	OFF	ON	ON	8030	45.4
9	ON	OFF	OFF	ON	6970	40.0
7	OFF	ON	ON	ON	6080	34.8
5	OFF	ON	OFF	ON	5180	29.7
3	OFF	OFF	ON	ON	4250	24.4
1	OFF	OFF	OFF	ON	3330	19.4