

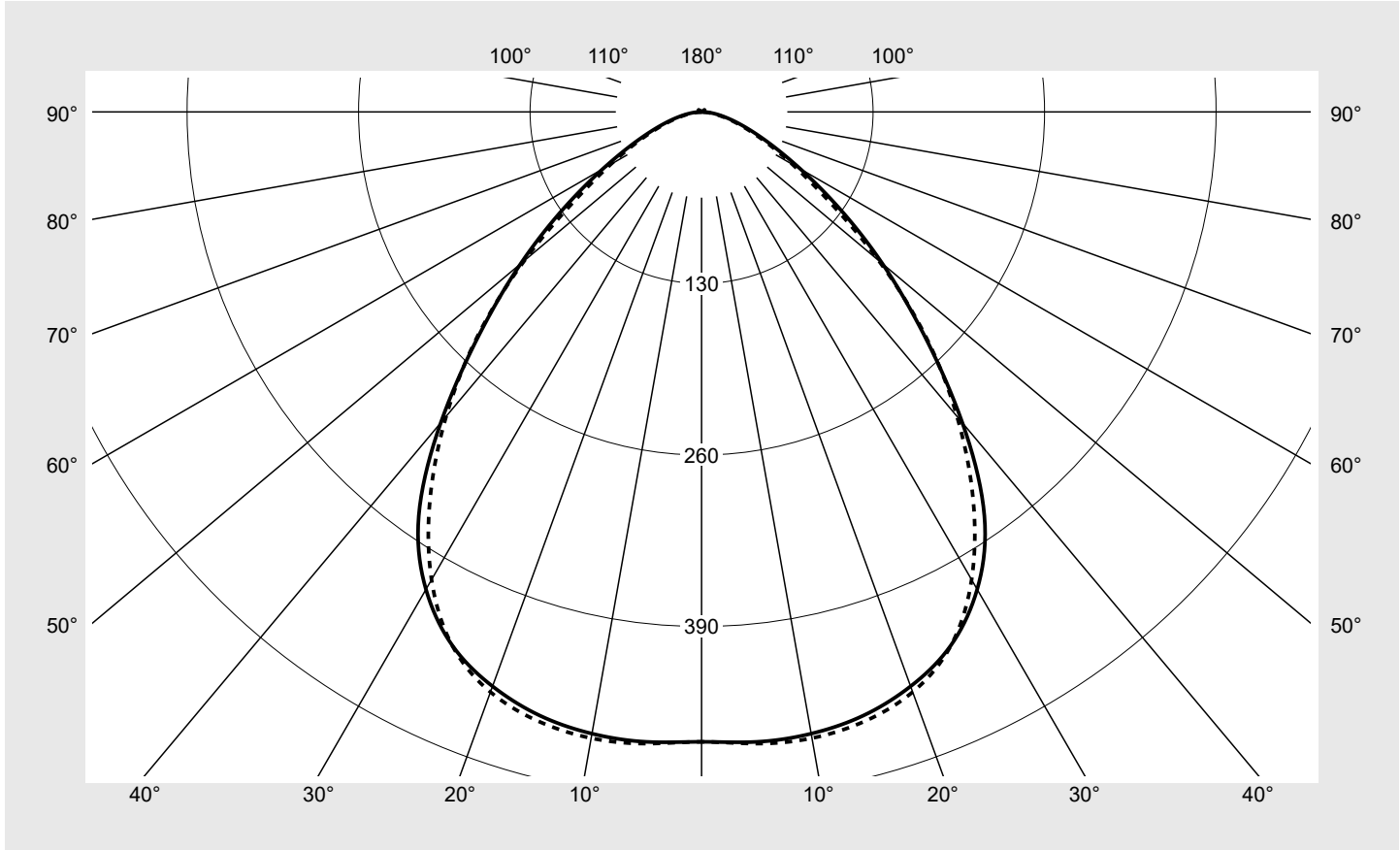


# Photometric test report

<b>Family</b> <b>Trunking Flex 31</b>	<b>Order number: 51RF12DB685G5</b> <b>EAN: 4069025584199</b>	<b>LP number</b> <b>59302_377</b>
	<b>Version</b> primary light control with lens, transparent, PMMA, wide distribution <b>Lamps</b> LED 6500 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 8870 lm Power consumption = 49.3 W Luminous efficacy = 179.9 lm/W	<b>serial documentation</b> <b>27.10.2025</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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<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	22.4	23.9	22.7	24.2	24.5	22.4	23.9	22.8	24.2	24.6
	3H	22.8	24.2	23.2	24.5	24.9	22.9	24.3	23.3	24.6	24.9
	4H	23.0	24.2	23.4	24.6	24.9	23.1	24.3	23.5	24.7	25.0
	6H	23.1	24.2	23.5	24.6	25.0	23.2	24.3	23.6	24.7	25.1
	8H	23.2	24.2	23.6	24.6	25.0	23.2	24.3	23.7	24.6	25.1
	12H	23.2	24.1	23.6	24.5	24.9	23.2	24.2	23.7	24.6	25.0
4H	2H	22.6	23.9	23.0	24.2	24.6	22.7	23.9	23.1	24.3	24.7
	3H	23.2	24.2	23.6	24.6	25.0	23.3	24.3	23.7	24.7	25.1
	4H	23.4	24.3	23.9	24.8	25.2	23.5	24.4	24.0	24.9	25.3
	6H	23.6	24.4	24.0	24.8	25.3	23.7	24.5	24.1	24.9	25.4
	8H	23.6	24.3	24.1	24.8	25.3	23.7	24.4	24.2	24.9	25.4
	12H	23.7	24.3	24.2	24.8	25.2	23.8	24.4	24.2	24.8	25.3
8H	4H	23.5	24.2	24.0	24.7	25.1	23.6	24.3	24.1	24.8	25.2
	6H	23.7	24.3	24.2	24.7	25.3	23.8	24.4	24.3	24.9	25.4
	8H	23.7	24.3	24.3	24.8	25.3	23.8	24.4	24.3	24.9	25.4
	12H	23.8	24.2	24.3	24.7	25.3	23.9	24.3	24.4	24.8	25.4
12H	4H	23.5	24.1	24.0	24.6	25.1	23.6	24.2	24.1	24.7	25.2
	6H	23.7	24.2	24.2	24.7	25.2	23.8	24.3	24.3	24.8	25.3
	8H	23.8	24.2	24.3	24.7	25.3	23.9	24.3	24.4	24.8	25.3

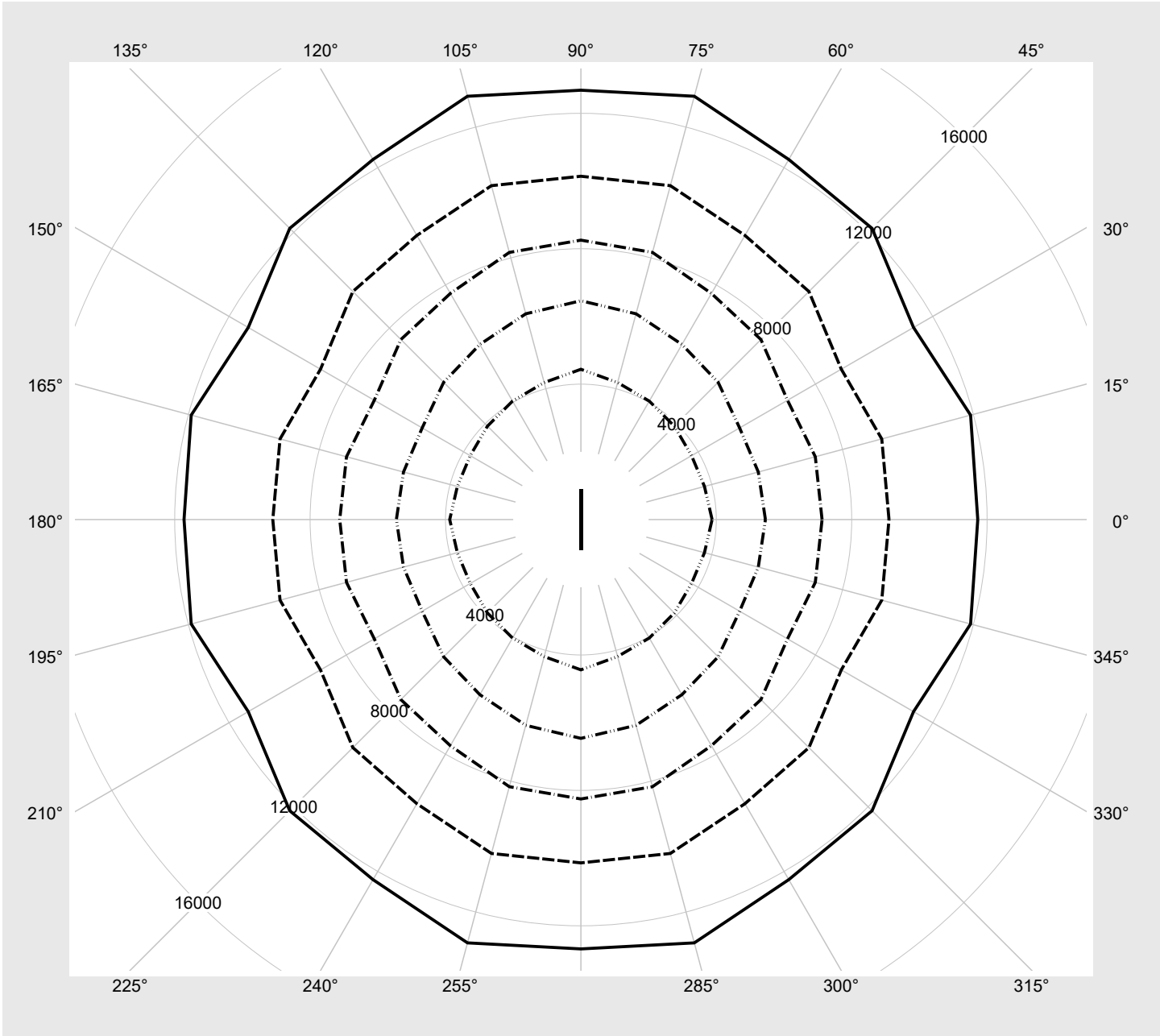
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1433</b>	<b>H(C0) = 5</b>	<b>H(C180) = 5</b>
			<b>B = 61</b>	<b>H(C90) = 5</b>	<b>H(C270) = 5</b>

C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
	45°	31562.3	30856.8	32264.0	31032.6	31944.1	31763.7	34308.7	
	50°	25747.8	25277.9	25484.4	25361.0	26039.0	26233.4	27552.8	
	55°	20212.4	20163.6	19214.0	20258.3	20541.9	21072.6	20735.3	
	60°	15378.3	15564.9	14677.6	15690.9	15860.6	16488.5	16062.2	
	65°	11724.4	11918.7	11347.5	12165.0	12282.0	12945.5	12683.0	
	70°	9102.2	9201.8	8883.1	9527.6	9691.9	10211.1	10141.4	
	75°	7124.5	7169.2	7047.9	7521.2	7713.0	8169.7	8253.6	
	80°	5451.2	5425.9	5414.6	5733.9	5971.8	6292.7	6463.1	
	85°	3875.9	3779.2	3775.1	3903.2	4040.5	4189.9	4439.3	

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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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<b>Dimming levels table</b>	environmental temperature: 25°C	<b>sITeco</b>
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	8870	49.3
95	241	252	8441	46.8
90	227	250	7973	44.2
85	214	248	7537	41.7
80	201	245	7099	39.3
75	188	243	6656	36.8
70	175	240	6209	34.3
65	162	238	5765	32.0
60	149	234	5313	29.7
55	137	231	4894	27.6
50	124	228	4441	25.2
45	111	224	3982	22.7
40	99	219	3556	20.4
35	86	214	3097	18.0
30	74	209	2667	15.7
25	62	202	2236	13.3
20	49	194	1769	10.8
15	37	183	1333	8.4
10	25	169	896	6.2
5	13	145	460	4.0
3	7	122	240	3.0