
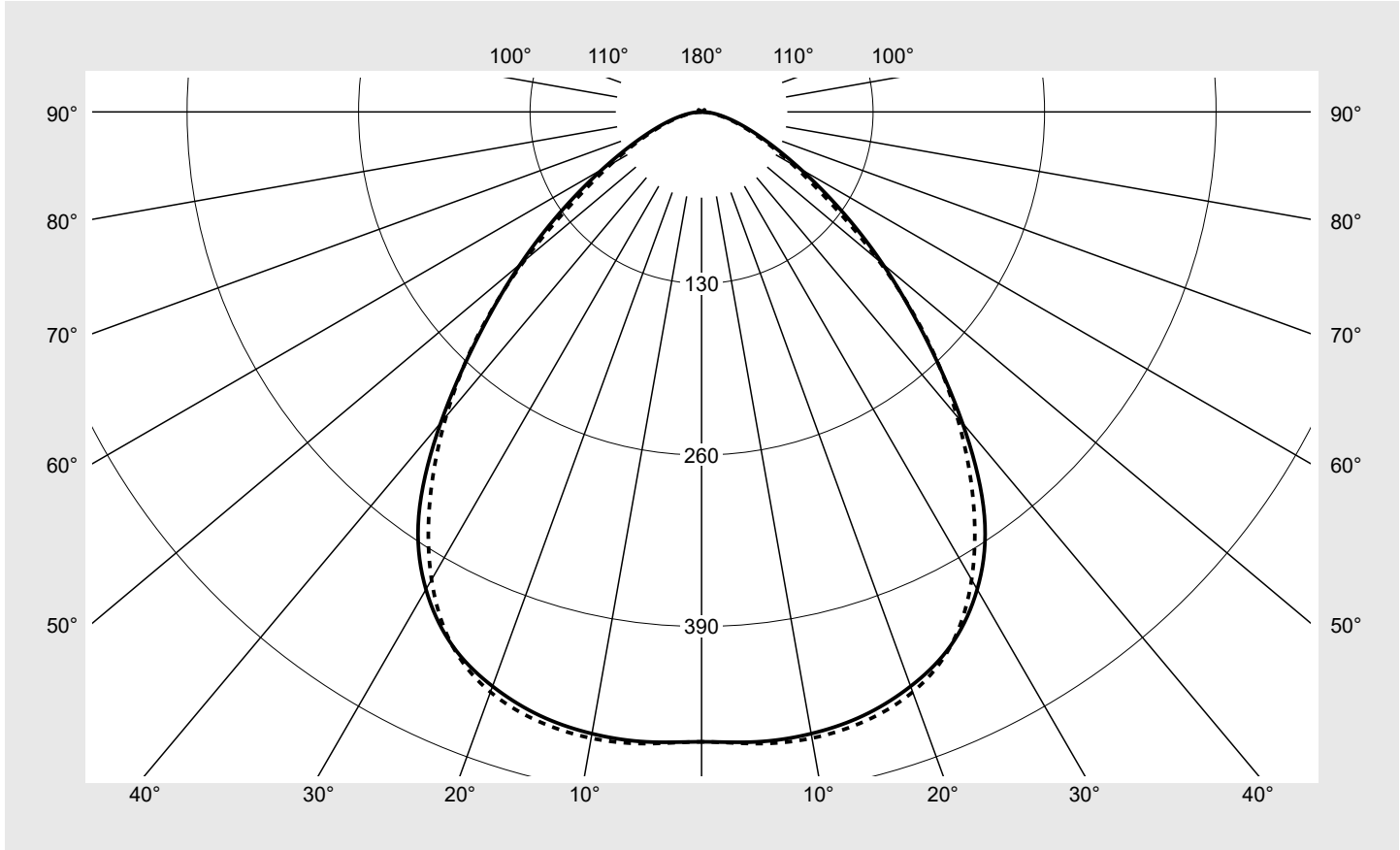


Photometric test report

Family Trunking Flex 31	Order number: 51RF12DB49XG5 EAN: 4069025516060	LP number 59302_356
	Version primary light control with lens, transparent, PMMA, wide distribution	serial documentation 15.10.2025
	Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 9000 lm Power consumption = 49.3 W Luminous efficacy = 182.6 lm/W	



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	
η_{LB}	100.0%
ϕ_u	99.1%
ϕ_o	0.9%

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°	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									
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	22.4	23.9	22.8	24.2	24.5	22.5	24.0	22.8	24.3	24.6
	3H	22.9	24.2	23.3	24.6	24.9	23.0	24.3	23.3	24.6	25.0
	4H	23.0	24.3	23.4	24.6	25.0	23.1	24.4	23.5	24.7	25.1
	6H	23.1	24.3	23.5	24.6	25.0	23.2	24.4	23.6	24.7	25.1
	8H	23.2	24.2	23.6	24.6	25.0	23.3	24.3	23.7	24.7	25.1
	12H	23.2	24.2	23.6	24.6	25.0	23.3	24.3	23.7	24.6	25.1
4H	2H	22.7	23.9	23.1	24.3	24.6	22.7	24.0	23.1	24.3	24.7
	3H	23.3	24.3	23.7	24.7	25.1	23.3	24.4	23.8	24.8	25.2
	4H	23.5	24.4	23.9	24.8	25.2	23.6	24.5	24.0	24.9	25.3
	6H	23.6	24.4	24.1	24.9	25.3	23.7	24.5	24.2	25.0	25.4
	8H	23.7	24.4	24.1	24.8	25.3	23.8	24.5	24.2	24.9	25.4
	12H	23.7	24.3	24.2	24.8	25.3	23.8	24.4	24.3	24.9	25.4
8H	4H	23.5	24.3	24.0	24.7	25.2	23.6	24.4	24.1	24.8	25.3
	6H	23.7	24.3	24.2	24.8	25.3	23.8	24.4	24.3	24.9	25.4
	8H	23.8	24.3	24.3	24.8	25.3	23.9	24.4	24.4	24.9	25.4
	12H	23.9	24.3	24.4	24.8	25.3	23.9	24.4	24.5	24.9	25.4
12H	4H	23.6	24.2	24.0	24.6	25.1	23.6	24.3	24.1	24.7	25.2
	6H	23.8	24.3	24.3	24.7	25.3	23.9	24.4	24.4	24.8	25.4
	8H	23.8	24.3	24.3	24.8	25.3	23.9	24.4	24.4	24.9	25.4

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

C-planes	γ	Luminance in cd/m ²							
		0°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		32024.9	31309.0	32736.9	31487.4	32412.3	32229.2	34811.5	
50°		26125.2	25648.4	25857.9	25732.7	26420.6	26617.8	27956.6	
55°		20508.7	20459.1	19495.6	20555.2	20842.9	21381.5	21039.2	
60°		15603.7	15793.1	14892.7	15920.8	16093.0	16730.2	16297.6	
65°		11896.3	12093.3	11513.8	12343.3	12462.0	13135.3	12868.8	
70°		9235.7	9336.6	9013.3	9667.2	9834.0	10360.7	10290.0	
75°		7228.9	7274.3	7151.2	7631.4	7826.1	8289.5	8374.5	
80°		5531.1	5505.4	5494.0	5817.9	6059.4	6384.9	6557.8	
85°		3932.7	3834.6	3830.4	3960.4	4099.7	4251.3	4504.3	

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Luminance values in cd/m²

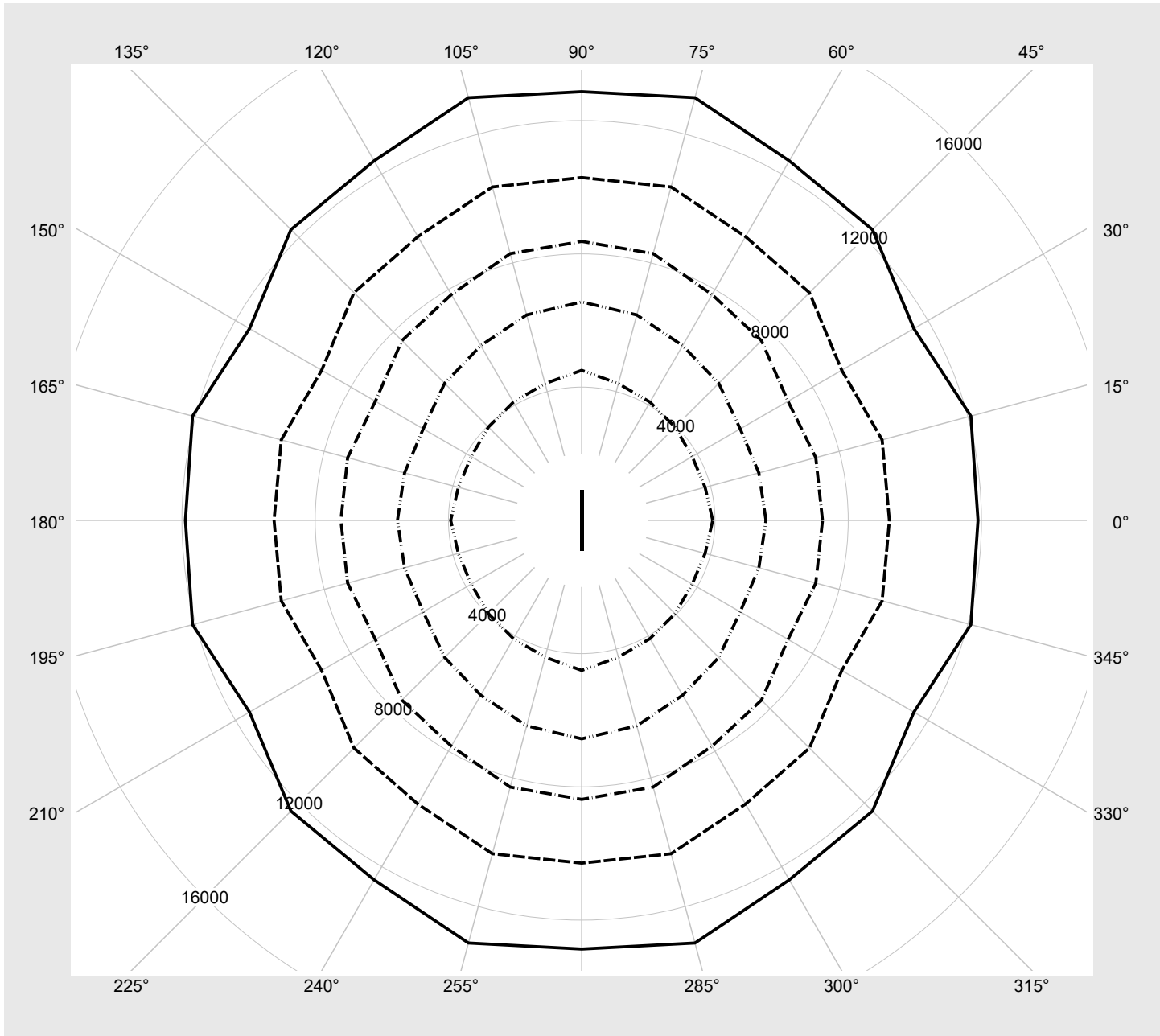
 γ 65°

 γ 70°

 γ 75°

 γ 80°

 γ 85°



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Dimming levels table	environmental temperature: 25°C	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	9000	49.3
95	241	252	8566	46.8
90	227	250	8091	44.2
85	214	248	7649	41.7
80	201	245	7205	39.3
75	188	243	6756	36.8
70	175	240	6304	34.3
65	162	238	5852	32.0
60	149	234	5394	29.7
55	136	231	4933	27.4
50	124	228	4509	25.2
45	111	224	4044	22.7
40	99	219	3612	20.4
35	86	214	3144	18.0
30	74	209	2708	15.7
25	61	202	2234	13.1
20	49	194	1797	10.8
15	37	183	1355	8.4
10	25	169	911	6.2
5	13	145	467	4.0
3	7	122	244	3.0