

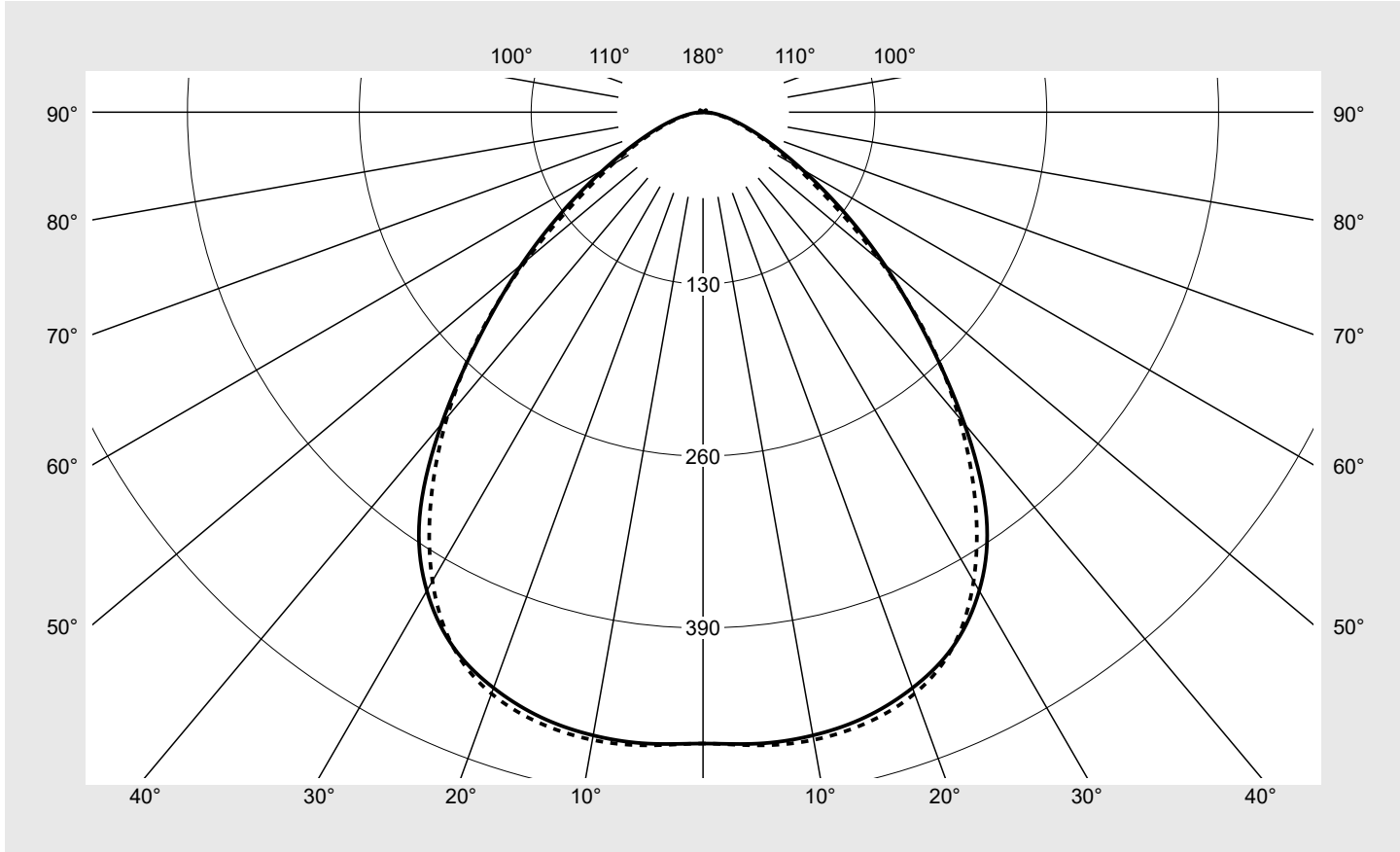


Photometric test report

Family Trunking Flex 31	Order number: 51RF12DA46XG4 EAN: 4069025516015	LP number 59302_99
	Version primary light control with lens, transparent, PMMA, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 6000 lm Power consumption = 33.6 W Luminous efficacy = 178.6 lm/W	serial documentation 12.06.2025
		

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
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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	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	21.8	23.3	22.1	23.6	23.9	21.8	23.3	22.2	23.7	24.0
	3H	22.2	23.6	22.6	23.9	24.3	22.3	23.7	22.7	24.0	24.4
	4H	22.4	23.6	22.8	24.0	24.4	22.5	23.7	22.9	24.1	24.5
	6H	22.5	23.6	22.9	24.0	24.4	22.6	23.7	23.0	24.1	24.5
	8H	22.6	23.6	23.0	24.0	24.4	22.6	23.7	23.1	24.1	24.5
	12H	22.6	23.5	23.0	23.9	24.4	22.6	23.6	23.1	24.0	24.4
4H	2H	22.0	23.3	22.4	23.6	24.0	22.1	23.3	22.5	23.7	24.1
	3H	22.6	23.7	23.0	24.0	24.5	22.7	23.7	23.1	24.1	24.5
	4H	22.8	23.8	23.3	24.2	24.6	22.9	23.9	23.4	24.3	24.7
	6H	23.0	23.8	23.4	24.2	24.7	23.1	23.9	23.5	24.3	24.8
	8H	23.0	23.8	23.5	24.2	24.7	23.1	23.9	23.6	24.3	24.8
	12H	23.1	23.7	23.6	24.2	24.7	23.2	23.8	23.6	24.2	24.7
8H	4H	22.9	23.6	23.4	24.1	24.6	23.0	23.7	23.5	24.2	24.6
	6H	23.1	23.7	23.6	24.2	24.7	23.2	23.8	23.7	24.3	24.8
	8H	23.2	23.7	23.7	24.2	24.7	23.3	23.8	23.8	24.3	24.8
	12H	23.2	23.7	23.7	24.2	24.7	23.3	23.7	23.8	24.2	24.8
12H	4H	22.9	23.5	23.4	24.0	24.5	23.0	23.6	23.5	24.1	24.6
	6H	23.1	23.6	23.6	24.1	24.6	23.2	23.7	23.7	24.2	24.7
	8H	23.2	23.6	23.7	24.1	24.7	23.3	23.7	23.8	24.2	24.8

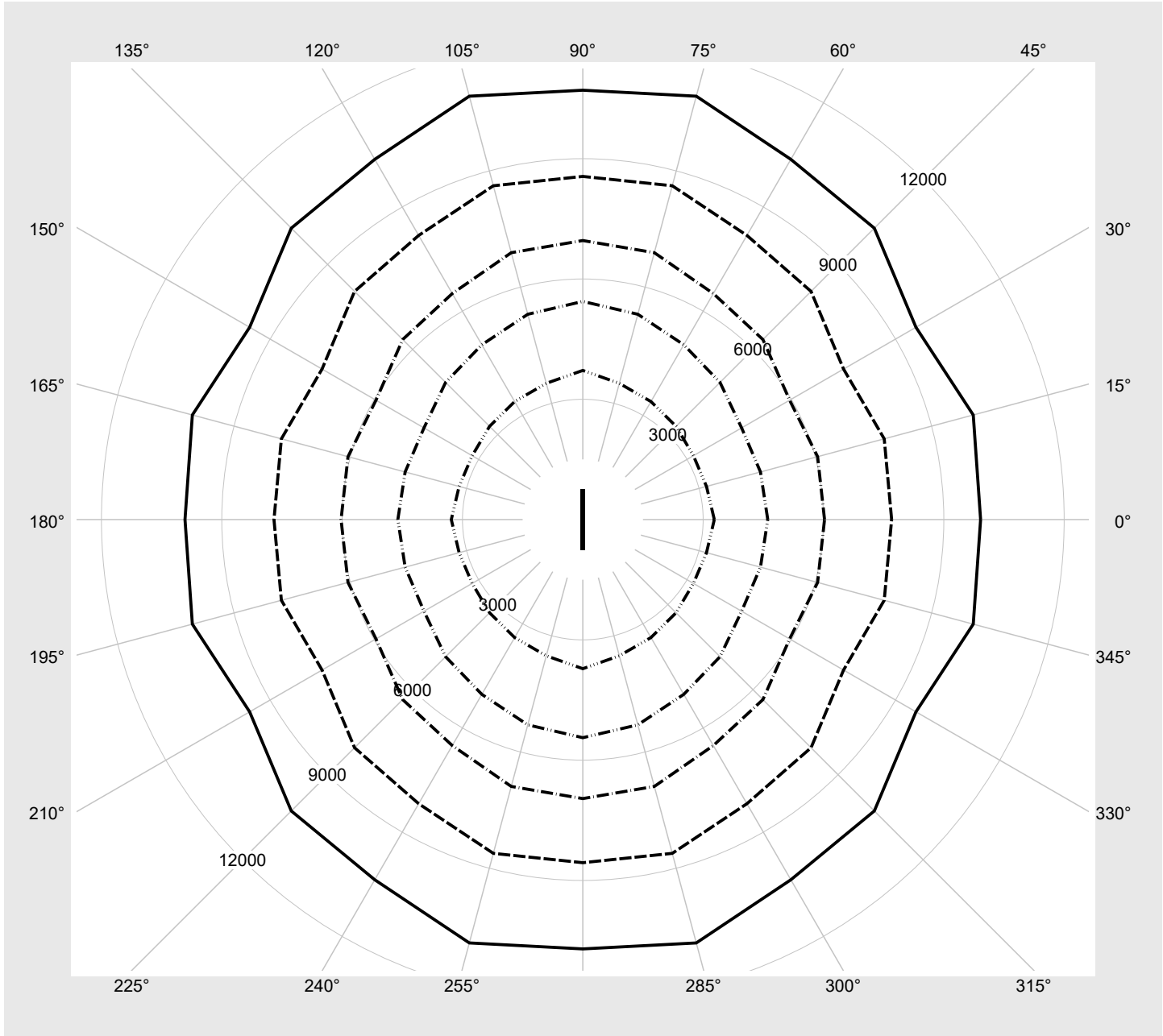
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1146	H(C0) = 5	H(C180) = 5
			B = 61	H(C90) = 5	H(C270) = 5

C-planes	γ	Luminance in cd/m ²							
		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°	26696.7	26094.5	27279.2	26233.4	27000.1	26844.9	28994.4	
	50°	21778.6	21375.9	21545.4	21436.6	22006.0	22167.6	23281.2	
	55°	17096.5	17050.3	16242.8	17121.4	17357.5	17803.4	17517.0	
	60°	13007.6	13161.0	12406.6	13259.1	13399.2	13927.1	13565.7	
	65°	9917.0	10077.1	9590.4	10277.6	10373.2	10931.1	10707.9	
	70°	7699.1	7779.3	7506.2	8047.1	8182.7	8618.2	8557.7	
	75°	6026.2	6060.1	5953.8	6349.8	6508.2	6890.4	6958.8	
	80°	4610.8	4585.4	4571.9	4837.3	5034.0	5300.3	5440.3	
	85°	3278.4	3192.3	3184.5	3287.7	3398.1	3517.5	3719.2	

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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	6000	33.6
95	241	252	5707	31.8
90	228	250	5411	30.1
85	214	248	5089	28.4
80	201	245	4790	26.8
75	188	243	4489	25.2
70	176	241	4211	23.7
65	163	238	3908	22.0
60	150	235	3603	20.3
55	137	231	3297	18.8
50	124	228	2989	17.3
45	112	224	2704	15.7
40	99	219	2393	14.1
35	87	215	2106	12.5
30	74	209	1792	10.8
25	62	202	1501	9.3
20	50	194	1210	7.7
15	37	183	893	6.1
10	25	169	600	4.7
5	13	145	306	3.3
3	8	127	183	2.8