

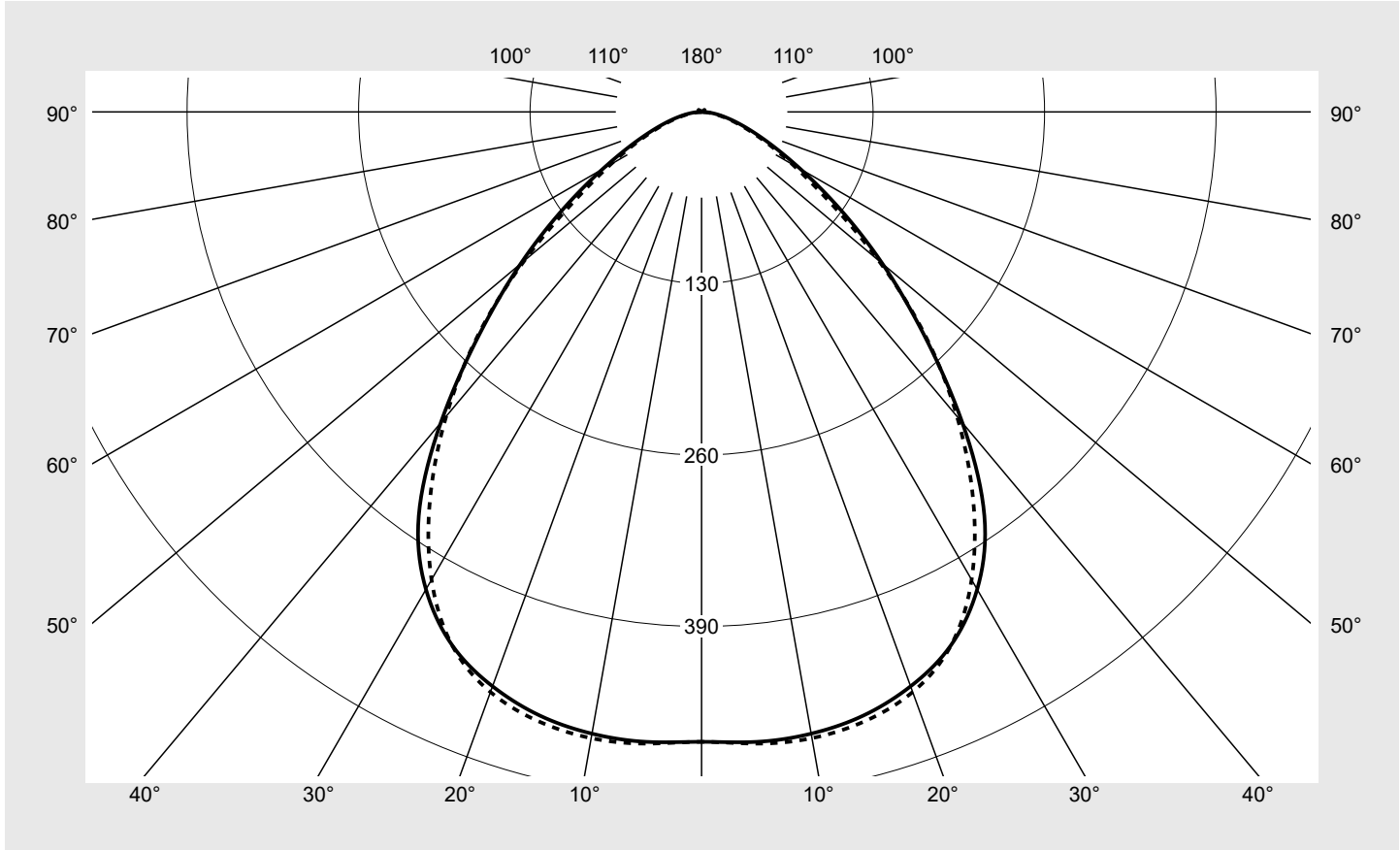


Photometric test report

Family Trunking Flex 31	Order number: 51RF12DA47XG4D EAN: 4069025603036	LP number 59302_120
	Version primary light control with lens, transparent, PMMA, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Setting AC-mode Rated values Net luminous flux = 7200 lm Power consumption = 40.5 W Luminous efficacy = 177.8 lm/W	serial documentation 01.07.2025
		

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									
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	24.3	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	24.3	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

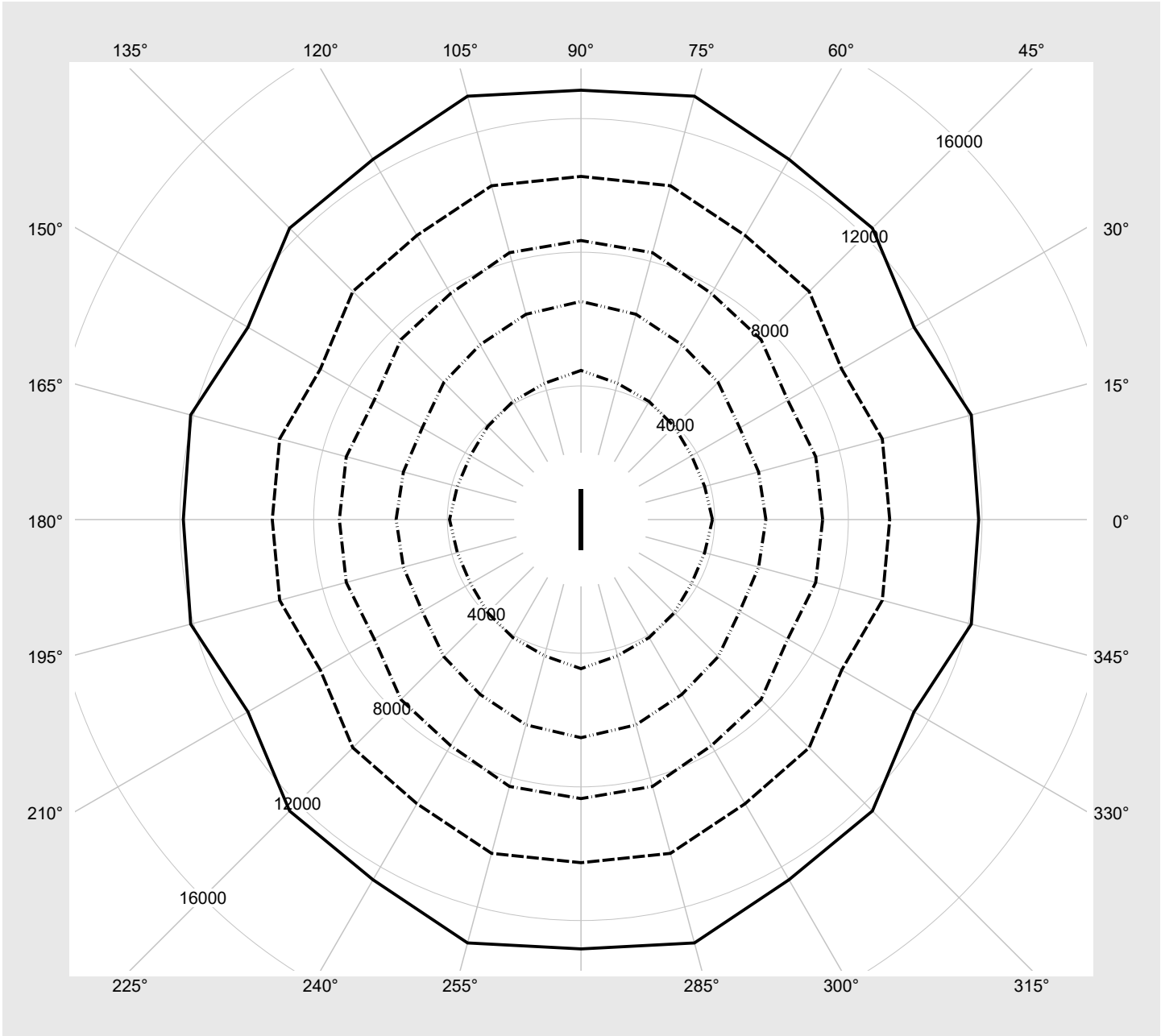
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1146	H(C0) = 5	H(C180) = 5
			B = 61	H(C90) = 5	H(C270) = 5

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°		32036.1	31313.4	32735.0	31480.1	32400.1	32213.9	34793.3	
50°		26134.3	25651.0	25854.5	25724.0	26407.2	26601.1	27937.4	
55°		20515.8	20460.3	19491.4	20545.7	20829.0	21364.0	21020.4	
60°		15609.2	15793.1	14887.9	15911.0	16079.1	16712.6	16278.8	
65°		11900.4	12092.6	11508.5	12333.1	12447.9	13117.3	12849.4	
70°		9238.9	9335.1	9007.4	9656.5	9819.2	10341.9	10269.2	
75°		7231.5	7272.1	7144.5	7619.7	7809.8	8268.5	8350.6	
80°		5533.0	5502.5	5486.3	5804.8	6040.7	6360.4	6528.3	
85°		3934.1	3830.7	3821.4	3945.3	4077.7	4221.0	4463.0	

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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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	7200	40.5
95	241	252	6852	38.5
90	227	250	6475	36.3
85	214	248	6121	34.2
80	201	245	5765	32.2
75	188	243	5407	30.1
70	175	240	5045	28.1
65	162	238	4682	26.2
60	149	234	4317	24.2
55	136	231	3951	22.2
50	124	228	3609	20.4
45	111	224	3238	18.5
40	99	219	2893	16.7
35	86	214	2518	14.7
30	74	209	2170	12.9
25	61	202	1791	10.8
20	49	194	1438	8.9
15	37	183	1085	7.1
10	25	169	729	5.3
5	13	145	374	3.6
2	6	117	165	2.7