
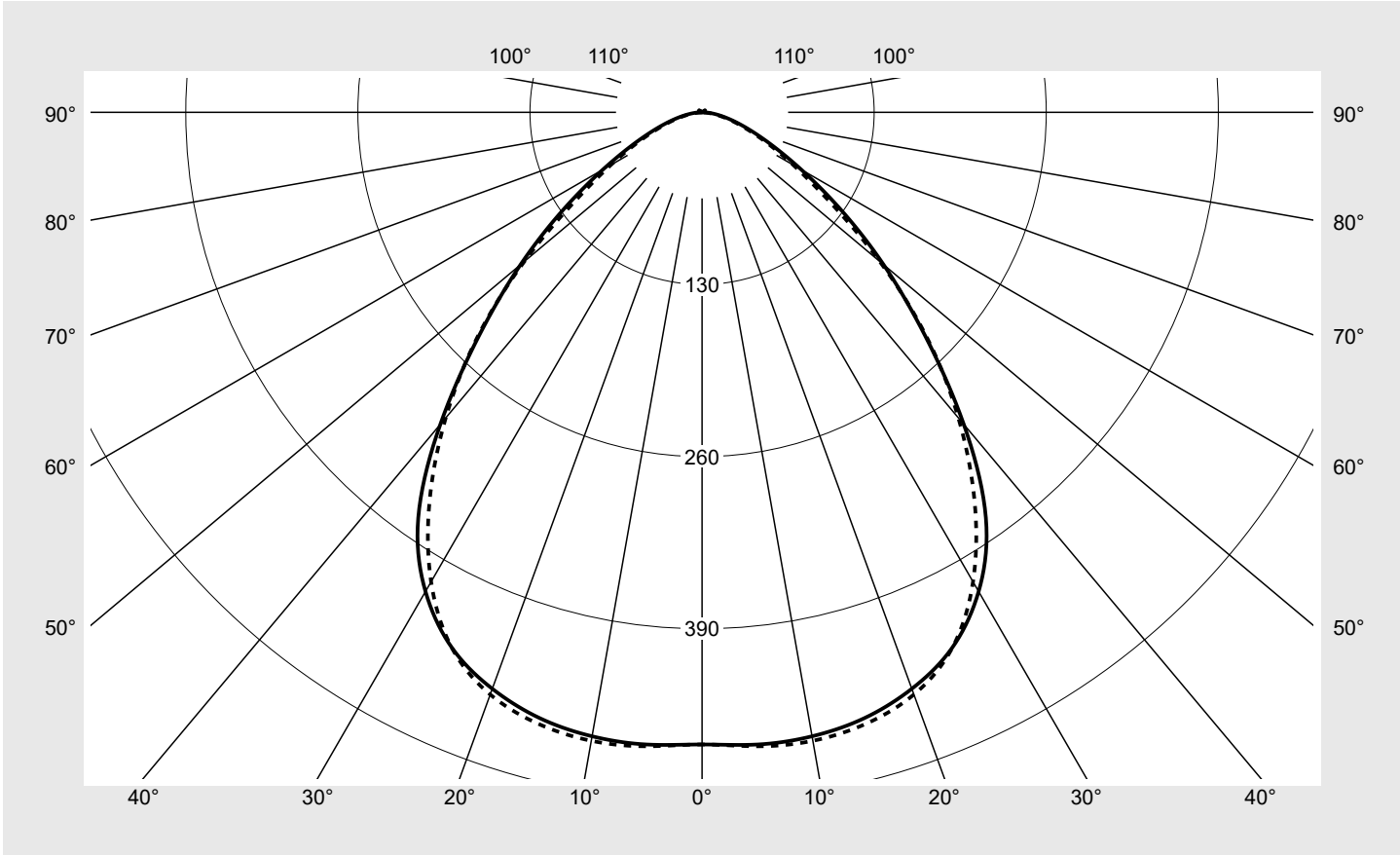


Photometric test report

Family Trunking Flex 31	Order number: 51RE12DB4CB EAN: 4058352913574	LP number 59302_54
	Version primary light control with lens, transparent, PMMA, wide distribution	serial documentation 27.03.2024
	Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 11500 lm Power consumption = 66.0 W Luminous efficacy = 174.2 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	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	23.3	24.8	23.6	25.1	25.4	23.3	24.8	23.7	25.1	25.5
	3H	23.7	25.1	24.1	25.4	25.8	23.8	25.2	24.2	25.5	25.8
	4H	23.9	25.1	24.3	25.5	25.9	24.0	25.2	24.4	25.6	25.9
	6H	24.0	25.1	24.4	25.5	25.9	24.1	25.2	24.5	25.6	26.0
	8H	24.1	25.1	24.5	25.5	25.9	24.1	25.2	24.6	25.6	26.0
12H	24.1	25.0	24.5	25.4	25.8	24.1	25.1	24.6	25.5	25.9	
4H	2H	23.5	24.8	23.9	25.1	25.5	23.6	24.8	24.0	25.2	25.6
	3H	24.1	25.1	24.5	25.5	25.9	24.2	25.2	24.6	25.6	26.0
	4H	24.3	25.2	24.8	25.7	26.1	24.4	25.4	24.9	25.8	26.2
	6H	24.5	25.3	24.9	25.7	26.2	24.6	25.4	25.0	25.8	26.3
	8H	24.5	25.2	25.0	25.7	26.2	24.6	25.3	25.1	25.8	26.3
12H	24.6	25.2	25.1	25.7	26.1	24.7	25.3	25.1	25.7	26.2	
8H	4H	24.4	25.1	24.9	25.6	26.0	24.5	25.2	25.0	25.7	26.1
	6H	24.6	25.2	25.1	25.7	26.2	24.7	25.3	25.2	25.8	26.3
	8H	24.7	25.2	25.2	25.7	26.2	24.7	25.3	25.2	25.8	26.3
	12H	24.7	25.1	25.2	25.6	26.2	24.8	25.2	25.3	25.7	26.3
12H	4H	24.4	25.0	24.9	25.5	26.0	24.5	25.1	25.0	25.6	26.1
	6H	24.6	25.1	25.1	25.6	26.1	24.7	25.2	25.2	25.7	26.2
	8H	24.7	25.1	25.2	25.6	26.2	24.8	25.2	25.3	25.7	26.2

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° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		40920.7	40006.0	41830.5	40233.9	41415.7	41181.8	44481.3	
50°		33382.2	32773.0	33040.6	32880.6	33759.6	34011.7	35722.3	
55°		26205.5	26142.2	24911.1	26265.0	26632.6	27320.7	26883.4	
60°		19938.1	20180.0	19029.6	20343.3	20563.3	21377.4	20824.7	
65°		15200.8	15452.6	14712.1	15772.0	15923.6	16784.0	16443.5	
70°		11801.1	11930.2	11516.9	12352.6	12565.6	13238.7	13148.4	
75°		9237.0	9295.0	9137.6	9751.2	10000.0	10592.1	10700.8	
80°		7067.5	7034.7	7020.1	7434.0	7742.5	8158.5	8379.4	
85°		5025.1	4899.7	4894.5	5060.5	5238.5	5432.2	5755.5	

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

