
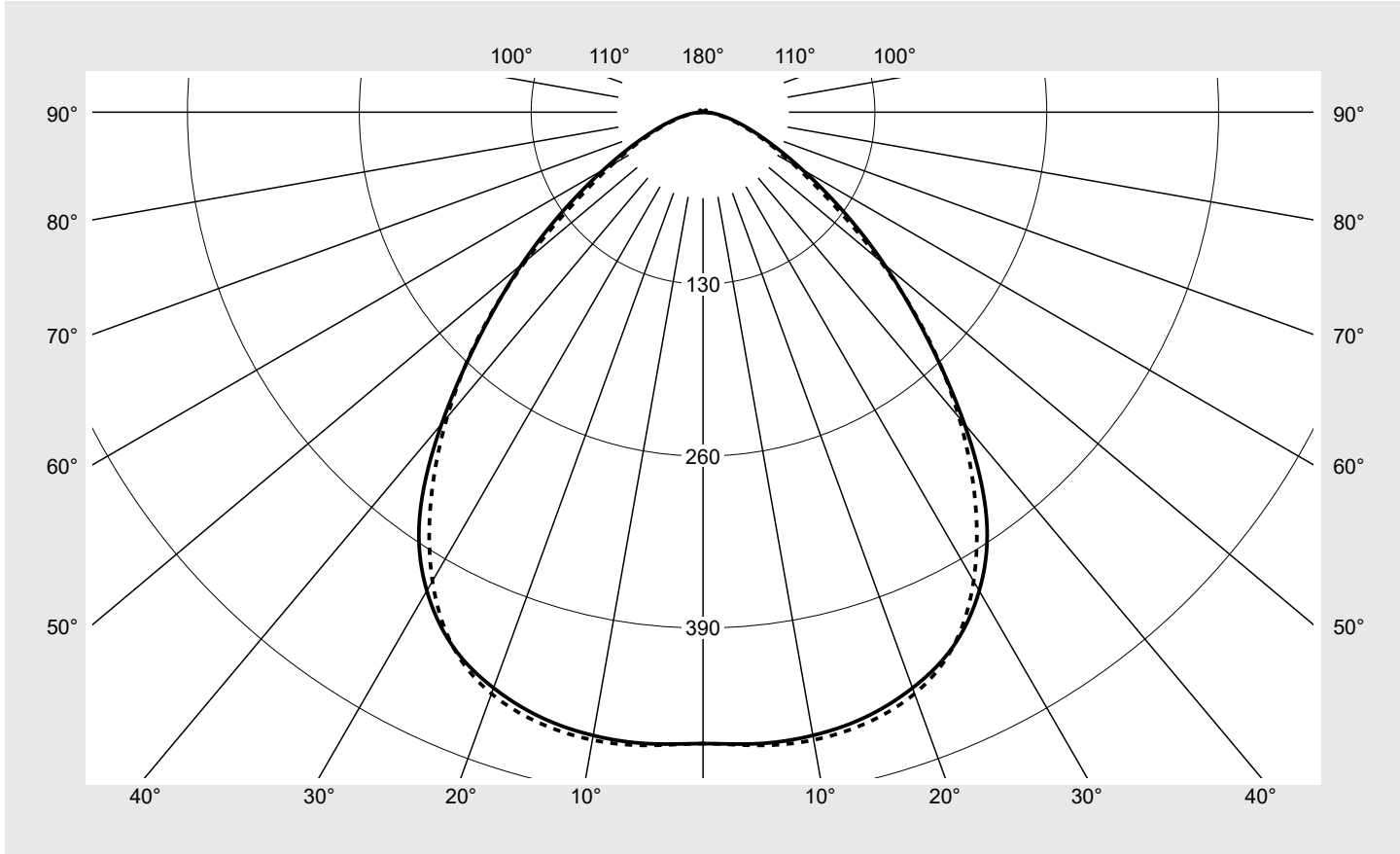


Photometric test report

Family Trunking Flex 31	Order number: 51RE12MA16B EAN: 4058352581872	LP number 59302_58
	Version primary light control with lens, transparent, PMMA, wide distribution Lamps LED 3500 K CRI ≥ 80 Controlgear ECG Multilumen Rated values Net luminous flux = 6400 lm Power consumption = 40.0 W Luminous efficacy = 160 lm/W	serial documentation 27.03.2024



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	22.0	23.5	22.4	23.8	24.1	22.1	23.6	22.4	23.9	24.2
	3H	22.5	23.8	22.9	24.1	24.5	22.6	23.9	22.9	24.2	24.6
	4H	22.6	23.9	23.0	24.2	24.6	22.7	24.0	23.1	24.3	24.7
	6H	22.7	23.9	23.1	24.2	24.6	22.8	23.9	23.2	24.3	24.7
	8H	22.8	23.8	23.2	24.2	24.6	22.9	23.9	23.3	24.3	24.7
	12H	22.8	23.8	23.2	24.2	24.6	22.9	23.8	23.3	24.2	24.7
4H	2H	22.3	23.5	22.7	23.9	24.2	22.3	23.6	22.7	23.9	24.3
	3H	22.8	23.9	23.3	24.3	24.7	22.9	24.0	23.4	24.4	24.8
	4H	23.1	24.0	23.5	24.4	24.8	23.2	24.1	23.6	24.5	24.9
	6H	23.2	24.0	23.7	24.4	24.9	23.3	24.1	23.8	24.5	25.0
	8H	23.3	24.0	23.7	24.4	24.9	23.4	24.1	23.8	24.5	25.0
	12H	23.3	23.9	23.8	24.4	24.9	23.4	24.0	23.9	24.5	25.0
8H	4H	23.1	23.9	23.6	24.3	24.8	23.2	23.9	23.7	24.4	24.9
	6H	23.3	23.9	23.8	24.4	24.9	23.4	24.0	23.9	24.5	25.0
	8H	23.4	23.9	23.9	24.4	24.9	23.5	24.0	24.0	24.5	25.0
	12H	23.5	23.9	24.0	24.4	24.9	23.5	24.0	24.0	24.5	25.0
12H	4H	23.1	23.8	23.6	24.2	24.7	23.2	23.9	23.7	24.3	24.8
	6H	23.3	23.8	23.9	24.3	24.9	23.4	23.9	23.9	24.4	25.0
	8H	23.4	23.9	23.9	24.4	24.9	23.5	23.9	24.0	24.4	25.0

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

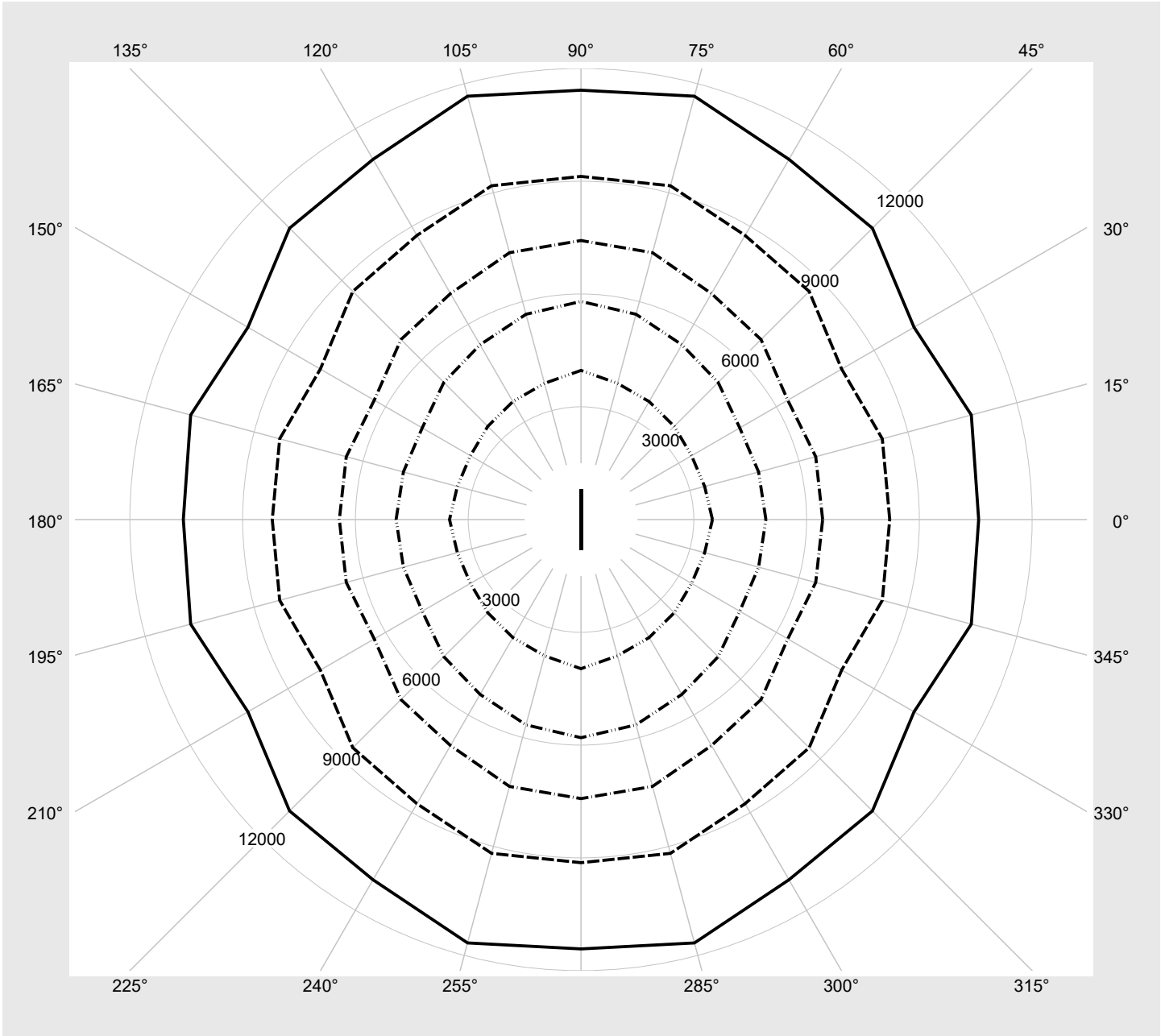
C-planes	γ	0° 180°	15°	30°	45°	60°	75°	90° 270°
			165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	
			Luminance in cd/m ²					
	45°	28476.5	27834.1	29097.8	27982.3	28800.1	28634.6	30927.4
	50°	23230.5	22800.9	22981.8	22865.8	23473.0	23645.5	24833.2
	55°	18236.3	18187.0	17325.7	18262.8	18514.7	18990.3	18684.8
	60°	13874.8	14038.3	13233.7	14143.1	14292.5	14855.6	14470.0
	65°	10578.1	10748.9	10229.8	10962.8	11064.8	11659.8	11421.7
	70°	8212.3	8297.9	8006.6	8583.6	8728.2	9192.8	9128.2
	75°	6428.0	6464.1	6350.7	6773.1	6942.1	7349.8	7422.7
	80°	4918.2	4891.1	4876.7	5159.8	5369.5	5653.7	5803.0
	85°	3497.0	3405.1	3396.8	3506.9	3624.6	3752.0	3967.1

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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Multilumen Table	environmental temperature: 25°C	siteco
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DIP-Step	Switch Setting		Luminous flux [lm]	Power consumption [W]
	1	2		
3	ON	ON	6400	40.0
2	ON	OFF	5610	34.0
1	OFF	ON	4450	27.0
0	OFF	OFF	3300	20.0