

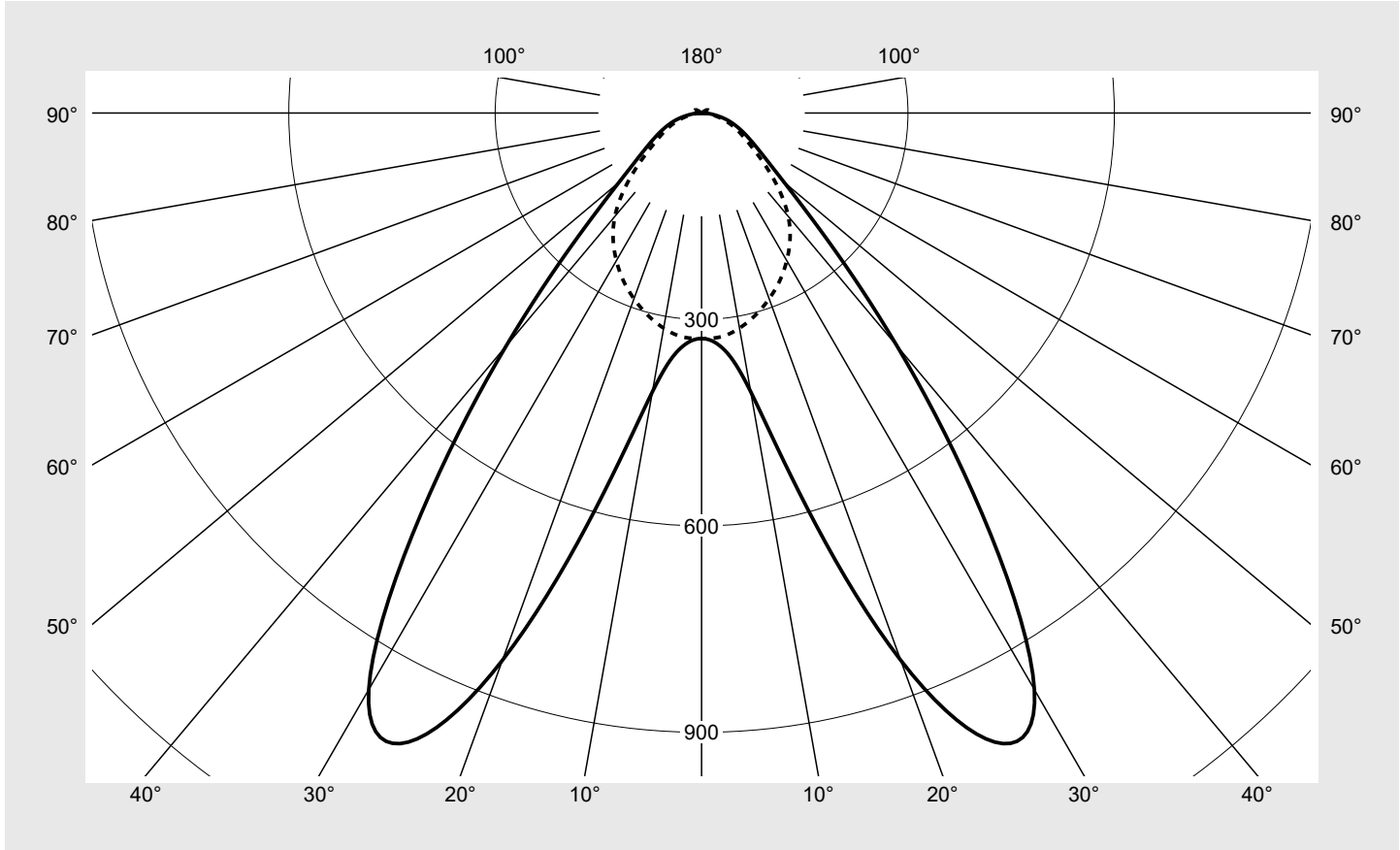


Photometric test report

Family Trunking Flex 31	Order number: 51RE19MB4CB EAN: 4058352701485	LP number 59301_6
	Version primary light control with lens, transparent, PMMA, double asymmetric distribution	serial documentation 27.03.2024
	Lamps LED 4000 K CRI ≥ 80	
Controlgear ECG Multilumen		
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: 1009 cd/klm



Classifications	
DIN 5040	A 5 1
CIE	N1=66 N2=89 N3=98 N4=99 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	98.7%
ϕ_o	1.3%

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°	327.7	327.7	327.7	327.7	327.7	327.7	327.7	2.0	2.0
5°	342.4	341.3	335.6	331.6	328.2	326.3	326.4	15.9	17.9
10°	411.3	401.6	373.5	346.7	328.7	319.3	317.4	33.9	51.7
15°	595.8	553.7	454.4	370.9	325.6	307.7	303.7	58.2	109.9
20°	846.3	755.0	551.3	388.9	314.8	291.7	287.2	89.6	199.6
25°	1008.8	871.2	594.9	385.6	296.6	272.5	268.9	118.1	317.7
30°	967.5	821.3	553.3	358.4	273.4	250.9	247.6	130.9	448.6
35°	710.7	620.8	451.5	314.6	246.6	227.0	224.1	122.0	570.5
40°	441.9	408.3	334.0	259.3	213.1	197.7	195.9	101.7	672.2
45°	253.2	247.8	230.5	199.3	172.2	161.6	160.8	78.7	750.9
50°	156.7	156.7	155.2	146.3	131.4	124.6	124.0	59.8	810.7
55°	111.4	111.5	110.9	106.5	98.8	93.8	93.0	46.7	857.4
60°	85.6	86.0	85.3	81.8	76.4	72.6	71.7	38.0	895.4
65°	67.4	67.9	67.2	64.7	60.3	57.3	56.3	31.4	926.8
70°	52.1	52.1	51.3	49.4	45.9	43.4	42.1	24.8	951.6
75°	38.0	37.3	36.4	34.9	32.3	30.2	29.0	18.1	969.7
80°	23.3	22.8	22.3	21.0	19.4	17.5	16.3	11.0	980.7
85°	11.7	11.0	10.5	9.6	8.4	7.0	6.0	5.1	985.8
90°	4.4	4.0	3.7	3.2	2.5	1.6	0.8	1.6	987.4
95°	3.5	3.3	3.1	2.6	2.0	1.2	0.6	1.3	988.7
100°	4.3	4.1	3.8	3.0	2.1	1.2	0.6	1.5	990.2
105°	3.9	3.9	3.7	3.1	2.2	1.1	0.6	1.4	991.6
110°	4.2	4.1	3.6	2.9	1.8	0.8	0.4	1.3	992.9
115°	4.4	3.9	3.1	2.4	1.6	0.7	0.4	1.2	994.1
120°	9.1	3.9	2.8	2.1	1.4	0.6	0.5	1.2	995.3
125°	4.2	3.0	2.5	2.0	1.3	0.6	0.6	0.9	996.2
130°	3.1	2.7	2.4	1.9	1.2	0.8	0.8	0.8	997.0
135°	2.8	2.6	2.3	1.9	1.2	1.1	1.1	0.7	997.7
140°	2.8	2.6	2.4	1.9	1.3	1.3	1.4	0.7	998.4
145°	2.8	2.7	2.3	1.7	1.6	1.7	1.6	0.6	999.0
150°	2.5	2.3	1.9	1.7	1.8	1.9	1.9	0.5	999.6
155°	1.9	1.8	1.7	1.8	1.9	1.9	2.0	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	23.8	25.4	24.2	25.7	26.0	21.6	23.1	22.0	23.4	23.7
	3H	24.6	25.9	24.9	26.2	26.6	22.6	24.0	23.0	24.3	24.7
	4H	24.9	26.1	25.3	26.5	26.9	23.1	24.3	23.4	24.7	25.1
	6H	25.2	26.3	25.6	26.6	27.0	23.3	24.5	23.8	24.9	25.3
	8H	25.3	26.3	25.7	26.7	27.1	23.5	24.6	23.9	25.0	25.4
	12H	25.4	26.3	25.8	26.7	27.1	23.5	24.6	23.9	25.0	25.4
4H	2H	24.0	25.3	24.4	25.7	26.1	22.2	23.4	22.6	23.8	24.2
	3H	25.0	26.0	25.4	26.4	26.8	23.4	24.5	23.9	24.9	25.3
	4H	25.4	26.4	25.9	26.8	27.2	24.0	24.9	24.4	25.3	25.8
	6H	25.8	26.6	26.3	27.0	27.5	24.4	25.2	24.8	25.6	26.1
	8H	25.9	26.7	26.4	27.1	27.6	24.5	25.2	24.9	25.7	26.2
	12H	26.0	26.7	26.5	27.1	27.6	24.6	25.2	25.0	25.7	26.2
8H	4H	25.5	26.3	26.0	26.8	27.2	24.3	25.0	24.7	25.4	25.9
	6H	26.0	26.6	26.5	27.1	27.6	24.8	25.4	25.3	25.9	26.4
	8H	26.2	26.7	26.7	27.2	27.7	24.9	25.5	25.4	26.0	26.5
	12H	26.4	26.8	26.9	27.3	27.8	25.0	25.5	25.6	26.0	26.5
12H	4H	25.6	26.2	26.1	26.7	27.2	24.3	24.9	24.8	25.4	25.9
	6H	26.0	26.6	26.6	27.1	27.6	24.9	25.4	25.4	25.8	26.4
	8H	26.2	26.7	26.8	27.2	27.7	25.0	25.5	25.6	26.0	26.5

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

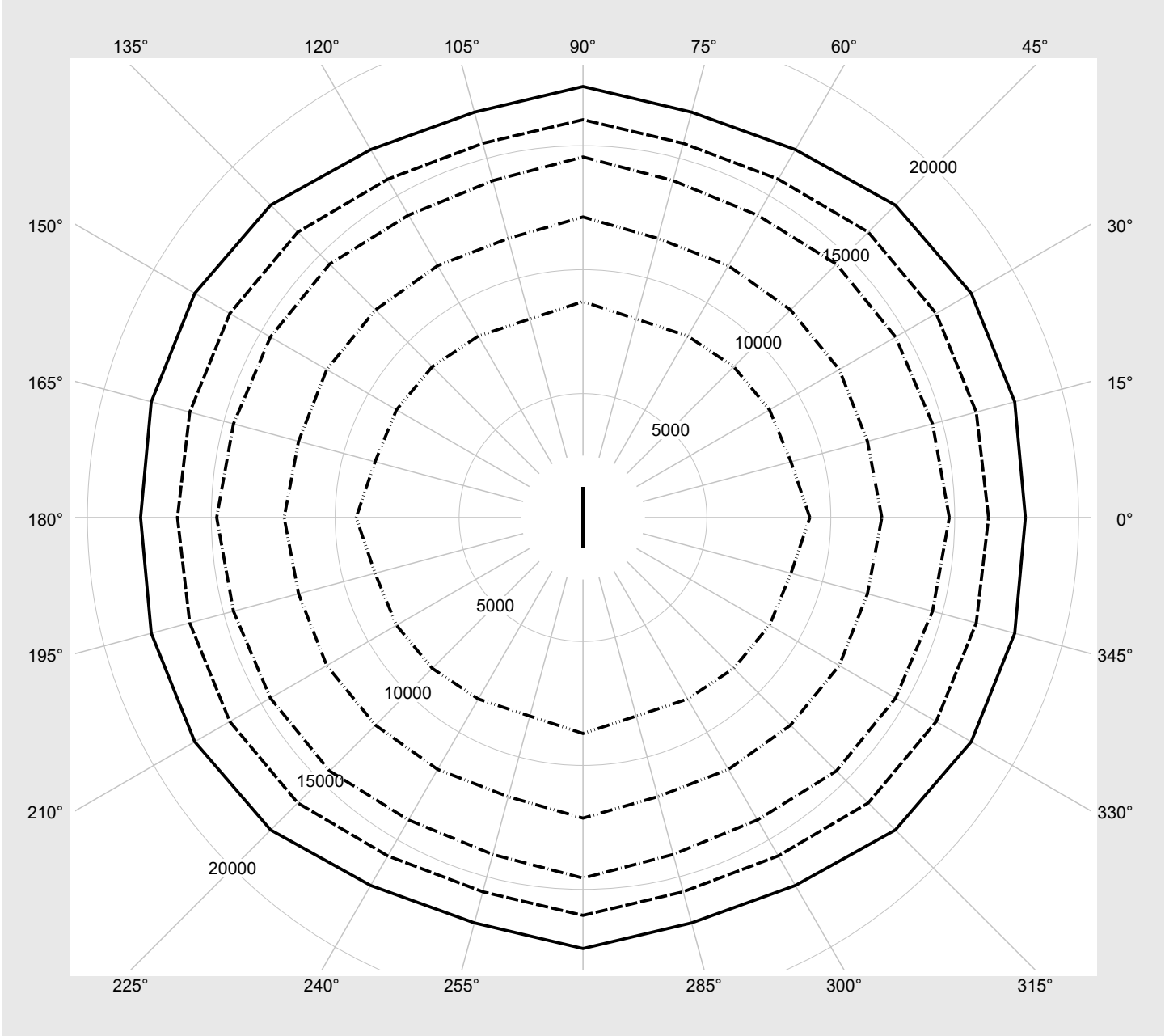
C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		43539.8	42691.8	39978.9	34959.2	30688.1	29349.6	29814.4	
50°		29210.6	29272.5	29236.0	27926.6	25557.0	24783.1	25278.1	
55°		22864.4	22953.9	23036.2	22496.7	21316.3	20787.5	21229.9	
60°		19730.3	19868.1	19935.1	19495.6	18670.5	18315.9	18751.0	
65°		17853.6	18037.3	18091.2	17824.2	17138.5	16929.4	17387.5	
70°		16366.3	16429.6	16458.5	16281.2	15759.5	15628.0	16048.5	
75°		14782.4	14602.8	14566.0	14459.3	14085.3	14069.1	14544.9	
80°		12060.5	11884.2	11941.4	11845.4	11732.6	11657.9	12125.2	
85°		9154.8	8688.2	8691.8	8603.2	8451.3	8292.0	8711.0	

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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		
7	ON	ON	ON	11500	66.0
6	OFF	ON	ON	10500	60.0
5	ON	OFF	ON	9200	52.0
4	OFF	OFF	ON	8350	47.0
3	ON	ON	OFF	6700	37.0
2	OFF	ON	OFF	5800	32.0
1	ON	OFF	OFF	4380	24.0
0	OFF	OFF	OFF	3450	19.0