

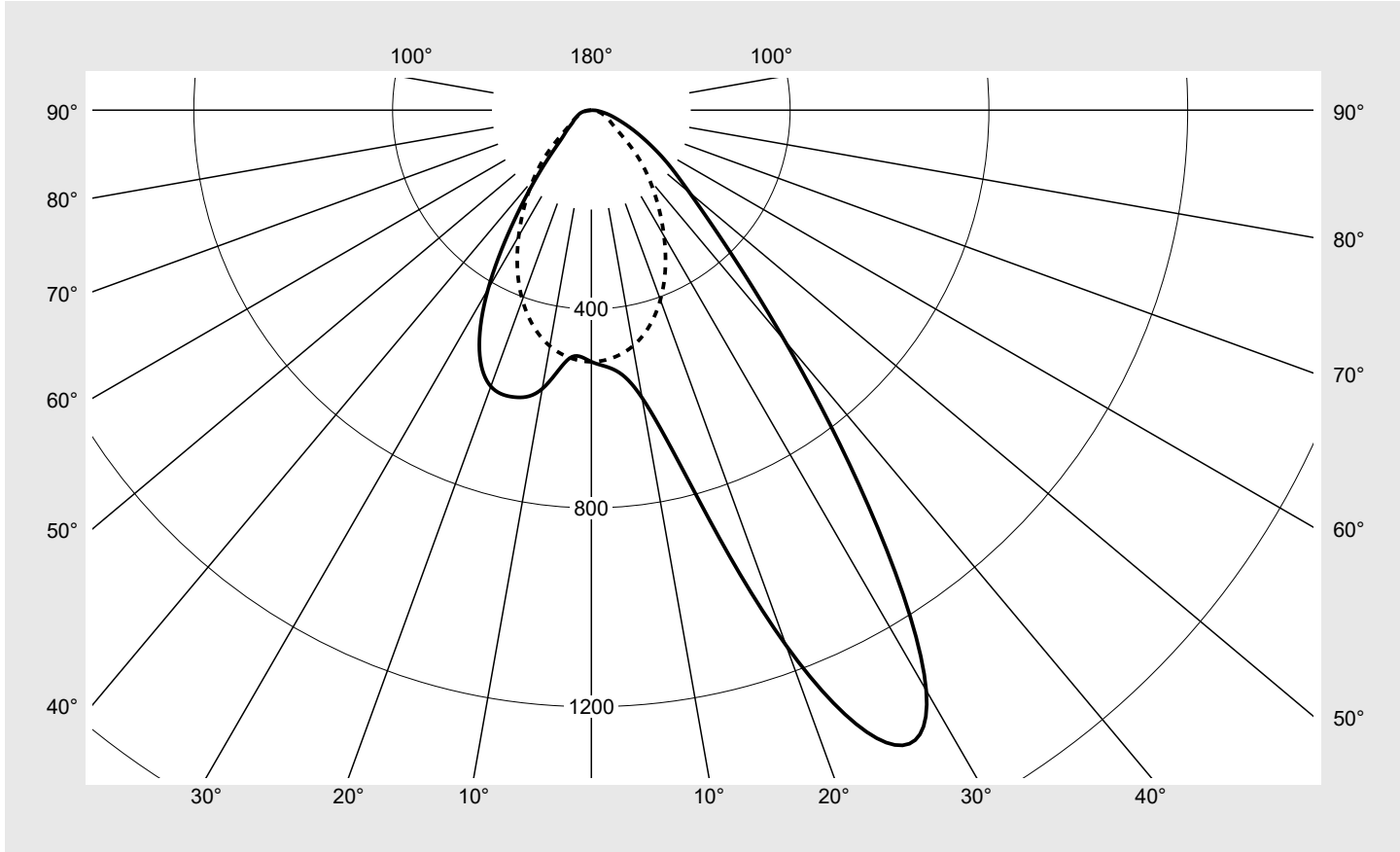


Photometric test report

Family Trunking Flex 31	Order number: 51RE14MB68B EAN: 4058352581971	LP number 59300_6
	Version primary light control with lens, transparent, PMMA, asymmetric distribution	serial documentation 27.03.2024
	Lamps LED 6500 K CRI ≥ 80	
	Controlgear ECG Multilumen	
Rated values	Net luminous flux = 8000 lm Power consumption = 50.0 W Luminous efficacy = 160 lm/W	

Luminous intensity in cd/klm C180-0 C270-90 Imax: 1404 cd/klm



Classifications	
DIN 5040	A 5 1
CIE	N1=72 N2=92 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	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
γ	Luminous intensity in cd/klm						
0°	506.1	506.1	506.1	506.1	506.1	506.1	506.1
5°	524.1	520.4	516.8	512.3	507.7	503.8	499.8
10°	587.5	565.6	543.8	525.4	507.1	494.4	481.7
15°	787.7	703.1	618.5	559.3	500.0	475.0	450.0
20°	1145.9	928.3	710.7	596.9	483.1	444.5	405.9
25°	1403.6	1077.6	751.7	602.0	452.3	402.2	352.1
30°	1347.7	1022.8	697.9	553.2	408.5	350.4	292.4
35°	972.0	779.1	586.1	471.8	357.5	296.0	234.4
40°	604.8	528.0	451.3	373.5	295.7	238.4	181.2
45°	377.5	347.5	317.5	268.4	219.4	175.3	131.2
50°	257.4	236.9	216.3	180.9	145.5	113.4	81.4
55°	188.6	169.5	150.4	123.0	95.6	75.2	54.7
60°	133.1	118.1	103.2	84.3	65.5	53.9	42.3
65°	90.7	82.0	73.2	60.3	47.4	40.2	33.0
70°	59.1	53.5	48.0	41.4	34.7	30.0	25.2
75°	38.4	34.3	30.1	26.9	23.6	20.8	18.0
80°	21.6	19.6	17.6	16.2	14.8	13.0	11.2
85°	10.8	9.6	8.4	8.0	7.6	6.5	5.3
90°	5.0	4.1	3.1	3.2	3.3	2.6	1.8
95°	3.7	3.0	2.2	2.4	2.5	1.9	1.3
100°	3.9	3.2	2.6	2.5	2.3	1.8	1.2
105°	3.6	3.2	2.7	2.5	2.4	1.8	1.3
110°	3.7	3.3	2.8	2.6	2.3	1.9	1.4
115°	3.7	3.2	2.7	2.5	2.4	2.0	1.6
120°	6.8	4.8	2.8	2.6	2.3	2.1	1.9
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Family Trunking Flex 31	Order number: 51RE14MB68B EAN: 4058352581971	LP number 59300_6
Table of values for luminous intensities		Maximum luminous intensity
		sITeco

C-planes	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm						Luminous flux in lm/klm	
0°	506.1	506.1	506.1	506.1	506.1	506.1	3.0	3.0
5°	496.1	492.3	494.6	496.9	498.8	500.8	24.1	27.1
10°	476.5	471.3	496.4	521.6	545.4	569.1	49.2	76.4
15°	443.9	437.7	489.6	541.4	569.5	597.6	76.6	153.0
20°	397.3	388.6	443.6	498.7	545.0	591.4	104.8	257.8
25°	336.1	320.1	377.0	434.0	483.5	533.0	126.6	384.4
30°	272.9	253.4	308.4	363.4	389.6	415.7	132.3	516.7
35°	214.6	194.8	233.7	272.6	271.5	270.3	118.8	635.5
40°	164.3	147.4	165.9	184.5	172.1	159.6	96.4	731.9
45°	118.0	104.9	104.3	103.7	97.9	92.2	71.8	803.7
50°	71.5	61.5	63.5	65.6	65.6	65.7	51.2	855.0
55°	50.7	46.7	48.2	49.8	49.2	48.7	38.6	893.6
60°	40.0	37.7	40.0	42.4	41.3	40.2	29.9	923.4
65°	31.9	30.7	33.2	35.6	34.6	33.6	23.4	946.8
70°	25.0	24.8	27.0	29.2	28.6	27.9	17.6	964.4
75°	18.3	18.7	20.9	23.0	22.9	22.7	12.7	977.1
80°	11.7	12.2	14.2	16.3	16.1	15.9	8.2	985.3
85°	5.9	6.5	8.0	9.4	9.3	9.2	4.3	989.6
90°	2.2	2.6	3.7	4.8	4.7	4.5	1.9	991.5
95°	1.6	1.9	2.7	3.5	3.3	3.2	1.4	992.8
100°	1.5	1.8	2.6	3.4	3.3	3.3	1.3	994.2
105°	1.6	2.0	2.8	3.6	3.5	3.4	1.4	995.5
110°	1.7	2.1	3.0	4.0	4.0	4.0	1.4	997.0
115°	1.9	2.2	3.1	4.0	4.1	4.3	1.4	998.4
120°	2.2	2.4	3.3	4.2	5.8	7.4	1.6	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	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	1000.0
170°	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	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

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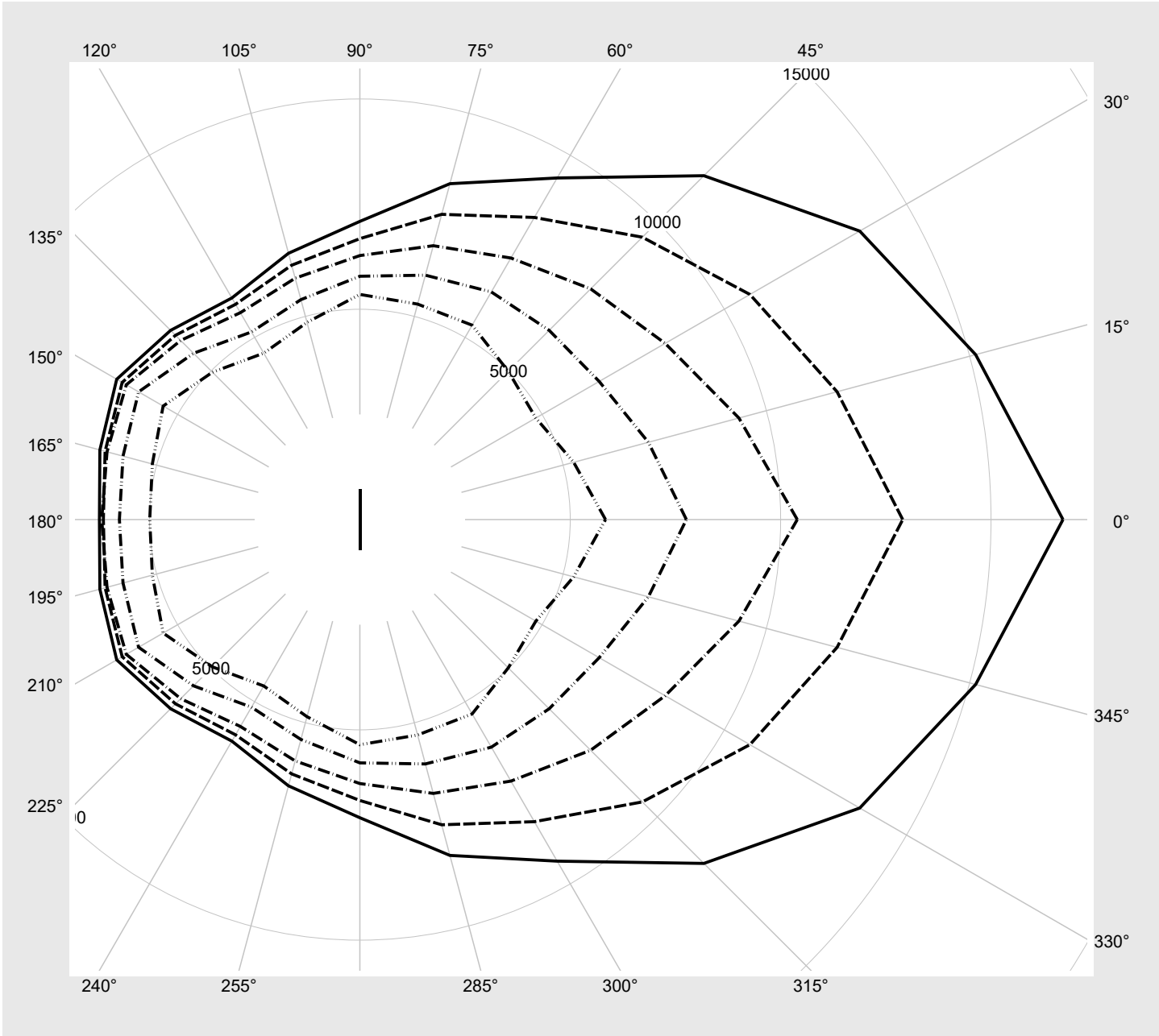
UGR-Table		Standard room									
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	24.8	26.3	25.2	26.6	26.9	19.1	20.5	19.5	20.8	21.2
	3H	25.3	26.6	25.7	26.9	27.3	19.7	21.0	20.0	21.3	21.6
	4H	25.5	26.7	25.9	27.0	27.4	19.9	21.1	20.3	21.5	21.9
	6H	25.6	26.7	26.0	27.0	27.4	20.1	21.3	20.5	21.6	22.0
	8H	25.7	26.6	26.1	27.0	27.4	20.2	21.3	20.6	21.7	22.1
	12H	25.7	26.6	26.2	27.0	27.4	20.3	21.3	20.7	21.7	22.1
4H	2H	24.8	26.1	25.2	26.4	26.8	19.6	20.8	20.0	21.2	21.5
	3H	25.4	26.4	25.9	26.8	27.2	20.4	21.4	20.8	21.7	22.2
	4H	25.7	26.5	26.1	27.0	27.4	20.7	21.6	21.2	22.0	22.5
	6H	25.8	26.6	26.3	27.0	27.5	21.0	21.8	21.5	22.2	22.7
	8H	25.9	26.6	26.4	27.0	27.5	21.1	21.9	21.6	22.3	22.8
	12H	26.0	26.5	26.4	27.0	27.5	21.2	21.9	21.7	22.3	22.8
8H	4H	25.6	26.3	26.1	26.8	27.3	21.0	21.7	21.5	22.1	22.6
	6H	25.8	26.4	26.3	26.9	27.4	21.4	22.0	21.9	22.4	22.9
	8H	25.9	26.4	26.4	26.9	27.4	21.6	22.1	22.1	22.6	23.1
	12H	26.0	26.4	26.5	26.9	27.5	21.7	22.1	22.2	22.6	23.2
12H	4H	25.6	26.3	26.1	26.7	27.2	21.0	21.6	21.5	22.1	22.6
	6H	25.8	26.3	26.3	26.8	27.4	21.5	21.9	22.0	22.4	23.0
	8H	25.9	26.4	26.4	26.9	27.4	21.7	22.1	22.2	22.6	23.1

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		0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°	
γ		Luminance in cd/m ²													
45°		45160.3	41642.0	38305.2	32762.8	27197.1	22141.2	16917.9	14907.3	12998.5	12724.8	12507.0	11737.0	11032.6	
50°		33392.4	30789.6	28344.5	24025.4	19677.7	15691.2	11544.2	9886.6	8323.8	8439.6	8589.7	8527.3	8515.9	
55°		26940.9	24270.5	21739.5	18067.4	14353.3	11586.2	8687.0	7817.9	7013.5	7086.0	7193.3	7048.8	6955.0	
60°		21328.4	18990.3	16778.2	13975.0	11134.7	9456.0	7687.5	7016.0	6407.1	6632.5	6889.8	6635.8	6440.2	
65°		16710.4	15150.8	13718.0	11562.1	9378.1	8267.0	7089.3	6554.5	6083.6	6361.3	6672.7	6397.0	6189.5	
70°		12901.2	11741.6	10704.3	9494.3	8294.4	7512.9	6679.1	6260.8	5909.6	6196.3	6522.5	6268.2	6096.0	
75°		10395.5	9326.8	8378.2	7756.7	7180.3	6740.7	6276.8	5940.7	5679.9	6022.9	6409.7	6221.3	6134.9	
80°		7759.9	7098.4	6567.9	6362.4	6248.6	6015.4	5785.2	5413.2	5151.2	5591.1	6072.4	5827.7	5714.9	
85°		5838.3	5260.5	4829.2	4987.4	5336.3	5303.6	5352.9	4852.8	4568.5	4954.5	5398.5	5105.9	4994.2	

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



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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	8000	50.0
2	ON	OFF	6850	42.0
1	OFF	ON	5610	34.0
0	OFF	OFF	4130	25.0