

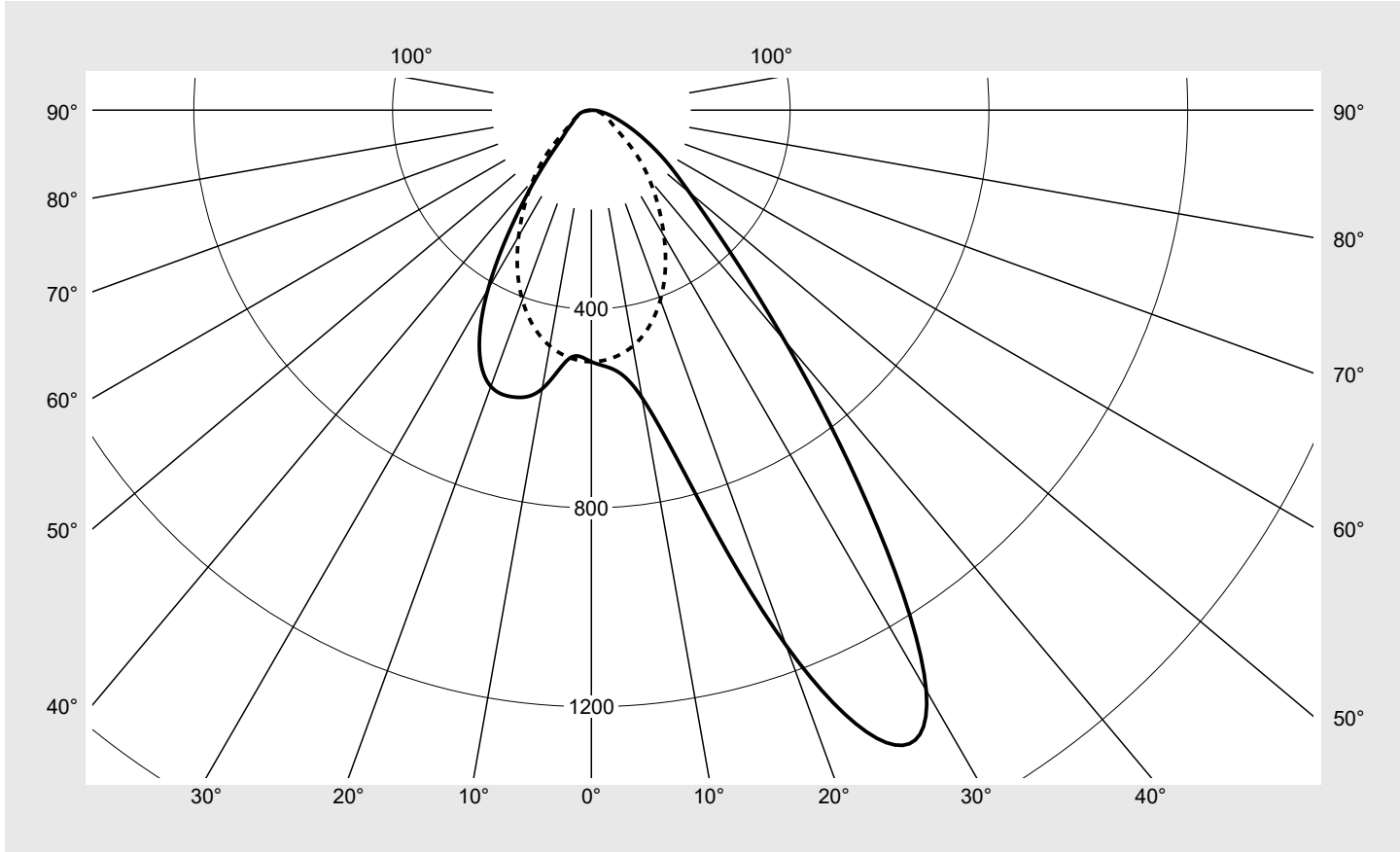


Photometric test report

Family Trunking Flex 31	Order number: 51RE14MB4CB EAN: 4058352701447	LP number 59300_5
	Version	primary light control with lens, transparent, PMMA, asymmetric distribution
	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
		serial documentation 27.03.2024
		

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: 51RE14MB4CB EAN: 4058352701447	LP number 59300_5
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	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	26.1	27.6	26.5	27.9	28.2	20.4	21.8	20.7	22.1	22.4
	3H	26.6	27.9	27.0	28.2	28.5	20.9	22.2	21.3	22.6	22.9
	4H	26.8	27.9	27.2	28.3	28.6	21.2	22.4	21.6	22.8	23.1
	6H	26.9	27.9	27.3	28.3	28.7	21.4	22.5	21.8	22.9	23.3
	8H	26.9	27.9	27.3	28.3	28.7	21.5	22.5	21.9	22.9	23.3
	12H	27.0	27.8	27.4	28.2	28.7	21.6	22.5	22.0	22.9	23.4
4H	2H	26.1	27.3	26.5	27.7	28.0	20.9	22.1	21.3	22.4	22.8
	3H	26.7	27.7	27.1	28.1	28.5	21.6	22.6	22.1	23.0	23.4
	4H	26.9	27.8	27.4	28.2	28.7	22.0	22.9	22.4	23.3	23.7
	6H	27.1	27.8	27.5	28.3	28.7	22.3	23.1	22.7	23.5	24.0
	8H	27.2	27.8	27.6	28.3	28.8	22.4	23.1	22.9	23.6	24.0
	12H	27.2	27.8	27.7	28.3	28.8	22.5	23.1	23.0	23.6	24.1
8H	4H	26.9	27.6	27.4	28.1	28.5	22.2	22.9	22.7	23.4	23.8
	6H	27.1	27.7	27.6	28.2	28.7	22.7	23.2	23.1	23.7	24.2
	8H	27.2	27.7	27.7	28.2	28.7	22.8	23.3	23.3	23.8	24.3
	12H	27.3	27.7	27.8	28.2	28.7	23.0	23.4	23.5	23.9	24.4
12H	4H	26.9	27.5	27.4	28.0	28.5	22.3	22.9	22.8	23.3	23.8
	6H	27.1	27.6	27.6	28.1	28.6	22.7	23.2	23.2	23.7	24.2
	8H	27.2	27.6	27.7	28.1	28.7	22.9	23.3	23.4	23.8	24.4

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°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
	345°	330°	315°	300°	285°	270°	255°	240°	225°	210°	195°		
γ	Luminance in cd/m²												
45°	64918.0	59860.4	55063.7	47096.5	39095.9	31828.0	24319.5	21429.3	18685.4	18291.8	17978.8	16871.9	15859.4
50°	48001.6	44260.0	40745.2	34536.5	28286.6	22556.1	16594.8	14212.0	11965.4	12131.9	12347.7	12258.0	12241.6
55°	38727.6	34888.8	31250.6	25971.9	20632.8	16655.1	12487.6	11238.2	10081.9	10186.1	10340.4	10132.7	9997.7
60°	30659.6	27298.6	24118.7	20089.1	16006.1	13593.0	11050.8	10085.5	9210.2	9534.2	9904.1	9539.0	9257.8
65°	24021.2	21779.3	19719.6	16620.5	13481.0	11883.8	10190.9	9422.1	8745.2	9144.4	9592.0	9195.7	8897.4
70°	18545.4	16878.6	15387.4	13648.0	11923.2	10799.7	9601.2	9000.0	8495.0	8907.2	9376.0	9010.6	8763.0
75°	14943.6	13407.3	12043.7	11150.2	10321.7	9689.8	9022.9	8539.8	8164.9	8657.9	9214.0	8943.1	8818.9
80°	11154.9	10204.0	9441.3	9146.0	8982.4	8647.2	8316.2	7781.5	7404.8	8037.2	8729.0	8377.3	8215.2
85°	8392.6	7562.0	6941.9	7169.3	7671.0	7623.9	7694.8	6975.8	6567.2	7122.0	7760.4	7339.8	7179.2

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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