

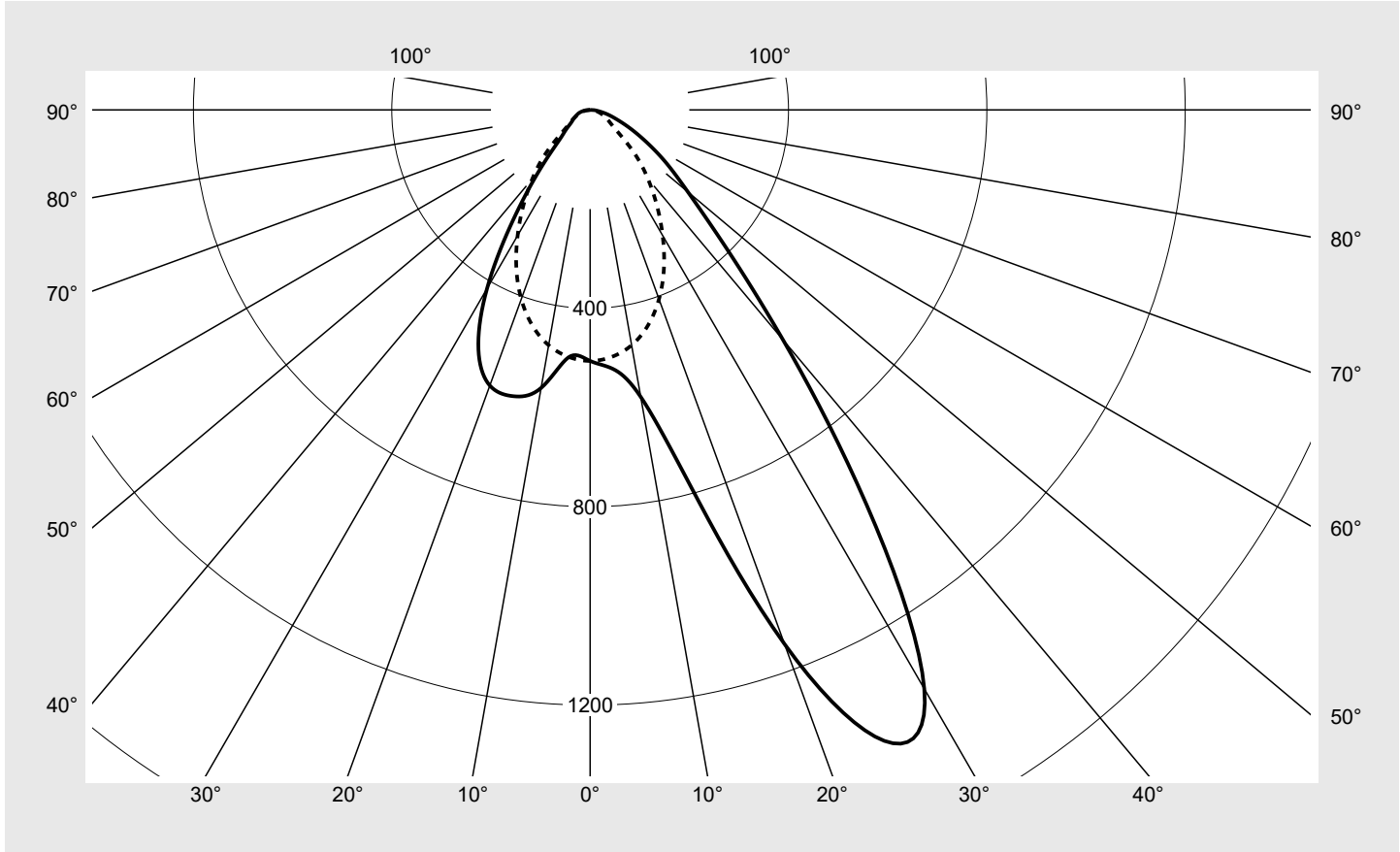


# Photometric test report

<b>Family</b> <b>Trunking Flex 31</b>	<b>Order number: 51RE14MA66B</b> <b>EAN: 4058352581957</b>	<b>LP number</b> <b>59300_4</b>
	<b>Version</b> primary light control with lens, transparent, PMMA, asymmetric distribution <b>Lamps</b> LED 6500 K   CRI ≥ 80 <b>Controlgear</b> ECG Multilumen <b>Rated values</b> Net luminous flux = 6400 lm Power consumption = 40.0 W Luminous efficacy = 160 lm/W	<b>serial documentation</b> <b>27.03.2024</b>
		

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	
$\eta_{LB}$	100.0%
$\phi_u$	99.1%
$\phi_o$	0.9%

Measurement conditions
DIN EN 13032 and DIN 5032

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
<b>sITeco</b>		

C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
$\gamma$	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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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>sITeco</b>

C-planes	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°	Phi-zone	Total Phi-zone
$\gamma$	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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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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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	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	22.5	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	22.9
	8H	25.9	26.4	26.4	26.9	27.4	21.7	22.1	22.2	22.6	23.1

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1146</b>	<b>H(C0) = 5</b>	<b>H(C180) = 5</b>
			<b>B = 61</b>	<b>H(C90) = 5</b>	<b>H(C270) = 5</b>

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°
$\gamma$	Luminance in cd/m <sup>2</sup>												
45°	45176.1	41647.8	38303.0	32755.1	27186.9	22130.7	16909.1	14900.3	12993.7	12721.8	12506.3	11738.6	11036.4
50°	33404.1	30792.8	28340.8	24017.3	19667.7	15681.3	11536.3	9880.4	8319.6	8436.7	8588.6	8528.2	8518.9
55°	26950.3	24271.9	21734.8	18059.1	14343.7	11576.7	8679.3	7811.5	7008.8	7082.7	7191.8	7049.3	6957.4
60°	21335.9	18990.4	16772.8	13966.4	11125.0	9446.1	7678.6	7008.7	6401.5	6628.4	6887.6	6635.9	6442.4
65°	16716.2	15149.9	13711.7	11552.6	9367.5	8255.7	7078.6	6545.5	6076.7	6356.1	6669.6	6396.6	6191.7
70°	12905.7	11739.7	10697.3	9483.8	8282.0	7499.2	6665.6	6249.5	5900.7	6189.5	6518.2	6267.2	6098.1
75°	10399.2	9324.0	8370.4	7744.8	7165.5	6723.7	6258.8	5925.7	5668.2	6013.7	6403.7	6219.4	6137.1
80°	7762.6	7094.6	6558.7	6348.1	6229.4	5992.4	5759.2	5392.4	5135.3	5578.5	6063.8	5824.6	5716.9
85°	5840.4	5255.3	4817.7	4968.4	5307.7	5265.8	5303.9	4818.2	4544.0	4935.6	5385.7	5100.8	4996.0

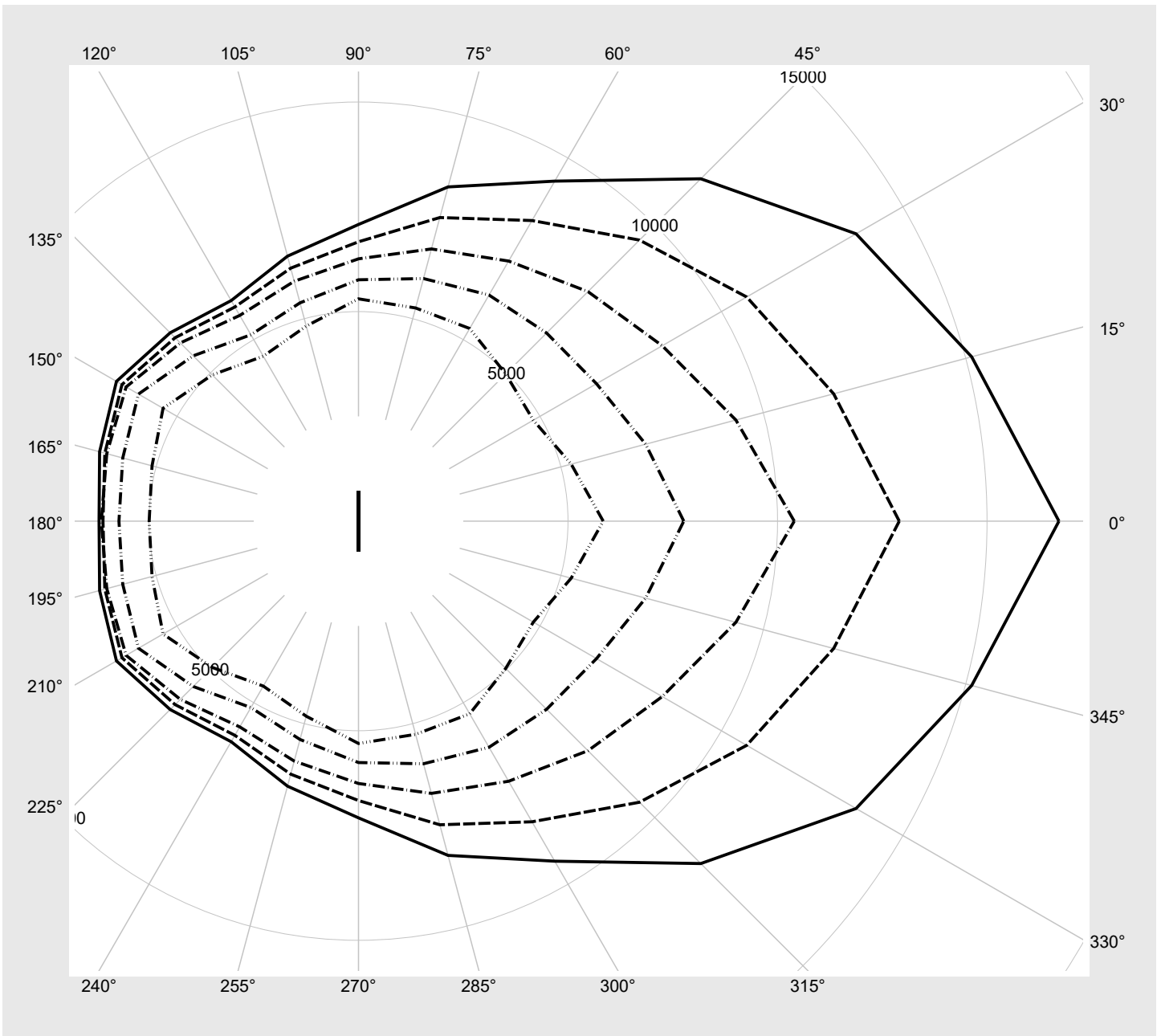
**Photometric test report**

**Family**  
Trunking Flex 31

**Order number: 51RE14MA66B**  
**EAN: 4058352581957**

**LP number**  
59300\_4

**Luminance values in cd/m<sup>2</sup>**      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**



**Photometric test report**

<b>Family</b> Trunking Flex 31	<b>Order number: 51RE14MA66B</b> <b>EAN: 4058352581957</b>	<b>LP number</b> <b>59300_4</b>
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<b>Multilumen Table</b>	environmental temperature: 25°C	<b>sITeco</b>
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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