

# Photometric test report

**Family**  
Trunking Flex 31

**Order number: 51RE18MB1CB**  
**EAN: 4058352811375**

**LP number**  
**59334\_18**

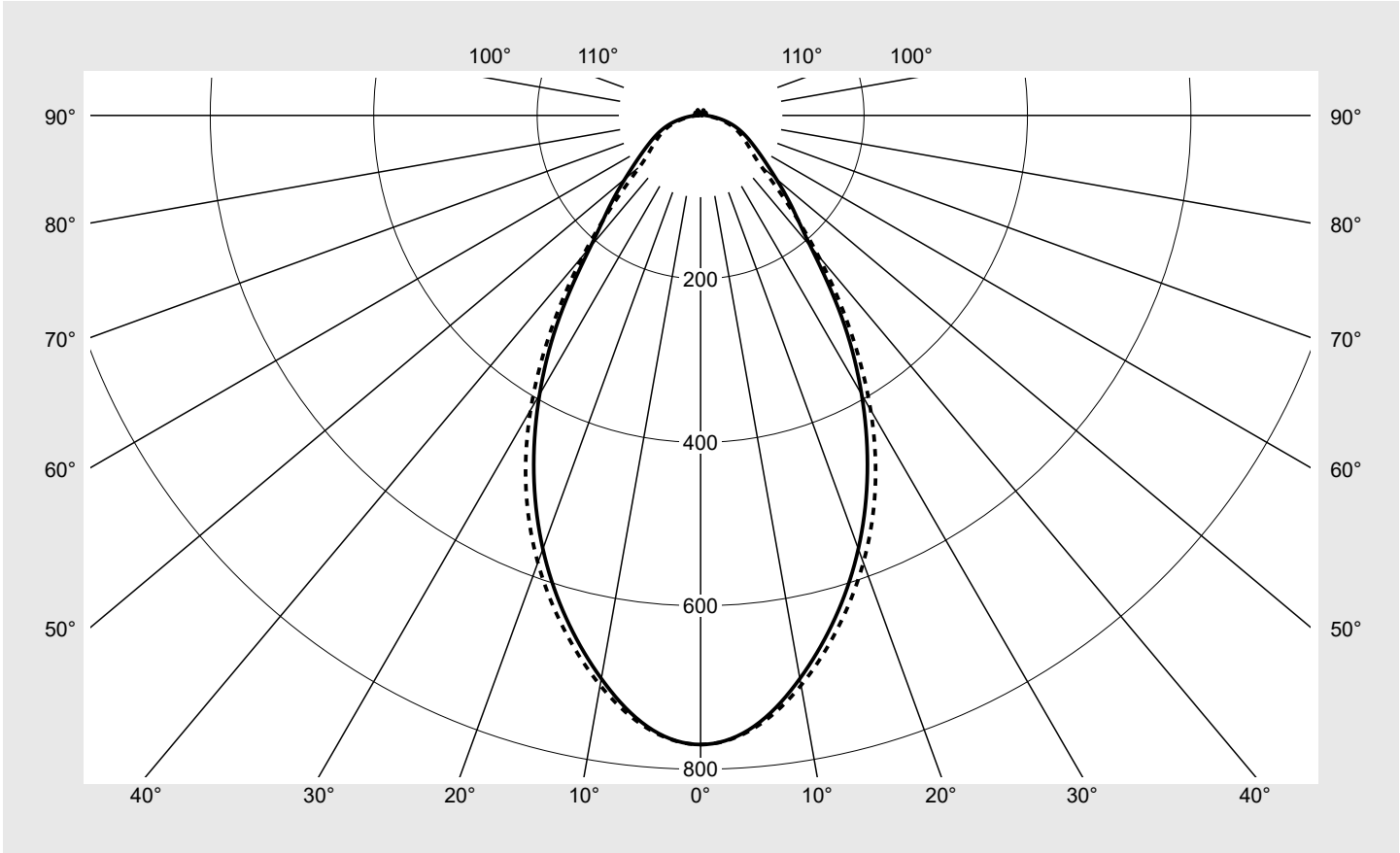


**Version** primary light control with lens, transparent, PMMA, medium distribution  
**Lamps** LED 3500 K | CRI ≥ 80  
**Controlgear** ECG Multilumen  
**Rated values** Net luminous flux = 11500 lm  
 Power consumption = 66.0 W  
 Luminous efficacy = 174.2 lm/W

**serial documentation**  
27.03.2024



**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 770 cd/klm**



**Classifications**

DIN 5040	A 5 2
CIE	N1=71 N2=89 N3=97 N4=97 N5=100

**Luminaire light output ratios**

$\eta_{LB}$	100.0%
$\phi_u$	96.8%
$\phi_o$	3.2%

**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 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°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	4.6	4.6
5°	750.5	750.8	751.0	751.1	751.5	752.0	752.6	35.9	40.5
10°	699.8	700.6	701.6	702.7	704.7	706.5	708.1	66.9	107.4
15°	636.4	638.3	639.3	639.4	641.6	644.9	649.2	90.9	198.4
20°	564.4	568.9	570.3	568.4	569.0	573.7	582.3	107.0	305.4
25°	482.9	489.3	491.0	488.2	487.1	492.8	505.4	113.6	419.0
30°	394.1	398.1	399.5	398.3	397.9	403.8	416.0	109.8	528.7
35°	300.6	301.5	301.8	301.7	304.2	309.6	317.7	95.8	624.5
40°	209.5	209.2	209.1	209.3	214.0	218.8	223.9	75.0	699.5
45°	157.8	146.3	142.8	147.3	155.5	155.1	146.2	58.1	757.6
50°	120.7	109.0	105.6	110.3	116.9	112.5	96.9	46.4	804.0
55°	94.5	85.7	83.1	86.7	91.1	87.4	75.9	38.9	842.8
60°	76.1	70.2	68.5	71.0	73.3	70.8	63.5	33.5	876.4
65°	62.1	58.4	57.3	58.8	59.8	58.0	53.5	29.0	905.3
70°	49.8	47.5	46.7	47.4	47.4	46.0	43.1	24.2	929.5
75°	37.3	35.8	35.2	35.3	34.8	33.6	31.6	18.5	948.0
80°	24.2	23.4	23.0	22.8	22.2	21.1	19.5	12.1	960.0
85°	13.1	12.7	12.2	11.7	10.8	9.8	8.5	6.2	966.2
90°	6.4	6.3	6.0	5.6	4.9	4.1	3.2	2.9	969.1
95°	5.8	5.7	5.4	4.9	4.2	3.5	3.0	2.6	971.7
100°	5.9	5.7	5.6	5.5	4.4	3.6	3.0	2.6	974.3
105°	7.0	6.6	6.2	5.8	4.5	3.7	3.3	2.8	977.1
110°	6.9	7.0	6.6	5.6	4.5	3.8	3.6	2.8	980.0
115°	7.4	6.5	5.9	5.4	4.6	4.2	3.9	2.7	982.6
120°	7.2	6.5	5.8	5.4	4.8	4.4	4.3	2.6	985.2
125°	6.6	6.4	6.1	5.6	5.0	4.7	4.7	2.5	987.7
130°	6.6	6.5	6.2	5.8	5.3	5.1	5.1	2.4	990.2
135°	6.7	6.6	6.3	6.0	5.6	5.4	5.4	2.3	992.5
140°	6.9	6.8	6.5	6.1	5.9	5.8	5.8	2.2	994.7
145°	7.0	6.9	6.6	6.2	6.1	6.1	6.1	2.0	996.7
150°	6.9	6.7	6.5	6.4	6.3	6.3	6.3	1.8	998.5
155°	6.7	6.6	6.6	6.6	6.5	6.5	6.5	1.5	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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<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	21.3	22.7	21.6	23.0	23.3	21.5	22.9	21.8	23.2	23.5
	3H	22.5	23.8	22.9	24.1	24.5	22.6	23.9	23.0	24.3	24.6
	4H	23.1	24.3	23.5	24.6	25.0	23.2	24.4	23.6	24.7	25.1
	6H	23.5	24.6	24.0	25.0	25.4	23.6	24.7	24.0	25.1	25.5
	8H	23.8	24.8	24.2	25.1	25.5	23.8	24.8	24.3	25.2	25.6
	12H	23.9	24.8	24.3	25.2	25.6	23.9	24.8	24.4	25.2	25.7
4H	2H	21.8	23.0	22.2	23.3	23.7	21.9	23.1	22.3	23.5	23.9
	3H	23.2	24.2	23.6	24.6	25.0	23.4	24.4	23.8	24.8	25.2
	4H	23.9	24.8	24.4	25.2	25.7	24.1	25.0	24.5	25.4	25.8
	6H	24.5	25.3	25.0	25.7	26.2	24.6	25.4	25.1	25.8	26.3
	8H	24.7	25.4	25.2	25.9	26.4	24.8	25.5	25.3	26.0	26.5
	12H	24.9	25.5	25.4	26.0	26.5	25.0	25.6	25.5	26.0	26.5
8H	4H	24.2	24.9	24.7	25.4	25.9	24.3	25.1	24.8	25.5	26.0
	6H	24.9	25.5	25.4	26.0	26.5	25.0	25.6	25.5	26.1	26.6
	8H	25.2	25.7	25.7	26.2	26.7	25.3	25.8	25.8	26.3	26.8
	12H	25.5	25.9	26.0	26.4	26.9	25.5	25.9	26.0	26.4	27.0
12H	4H	24.3	24.9	24.8	25.3	25.8	24.4	25.0	24.9	25.5	26.0
	6H	25.0	25.5	25.5	26.0	26.5	25.1	25.6	25.6	26.1	26.6
	8H	25.3	25.8	25.9	26.3	26.8	25.4	25.8	25.9	26.3	26.9

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1433</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	$\gamma$	Luminance in cd/m <sup>2</sup>							
		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°		27133.1	25198.2	24766.7	25851.1	27704.5	28158.2	27099.7	
50°		22507.1	20373.7	19886.6	21065.7	22740.3	22360.4	19748.0	
55°		19410.5	17636.6	17264.6	18315.6	19650.3	19375.8	17322.2	
60°		17525.7	16226.4	16017.0	16916.7	17926.8	17874.8	16615.8	
65°		16439.6	15519.3	15439.4	16217.0	16997.4	17141.2	16525.7	
70°		15624.1	14963.5	14965.5	15646.5	16279.7	16577.8	16435.6	
75°		14508.8	14019.7	14058.6	14641.4	15202.5	15634.0	15844.5	
80°		12508.9	12205.7	12319.0	12868.9	13446.1	14003.7	14458.7	
85°		10243.5	10013.1	10072.4	10432.6	10867.7	11513.7	12387.8	

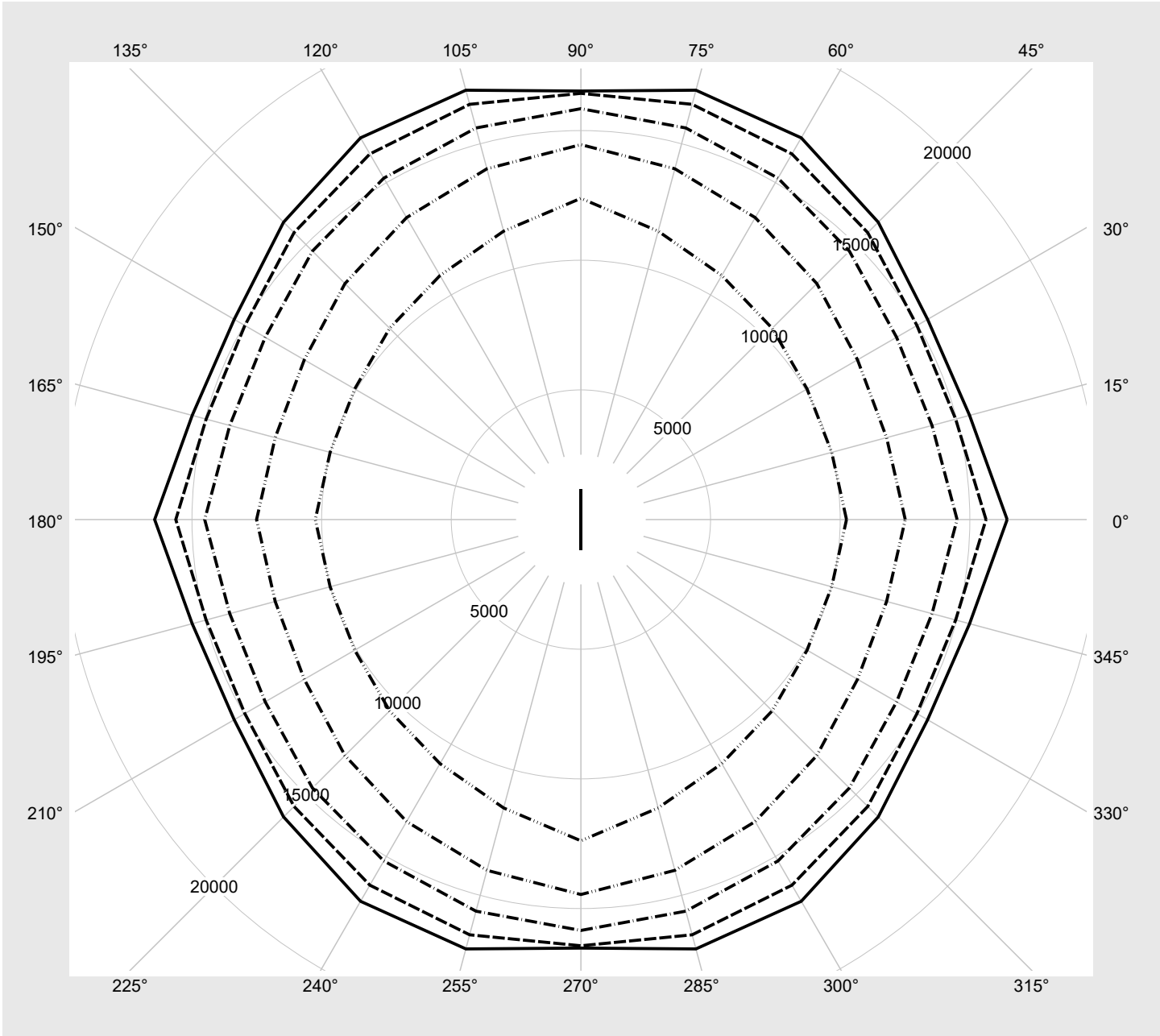
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°

**siteco**



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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		
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