

Photometric test report

Family
Trunking Flex 31

Order number: 51RE12MB48B
EAN: 4058352586617

LP number
59302_62

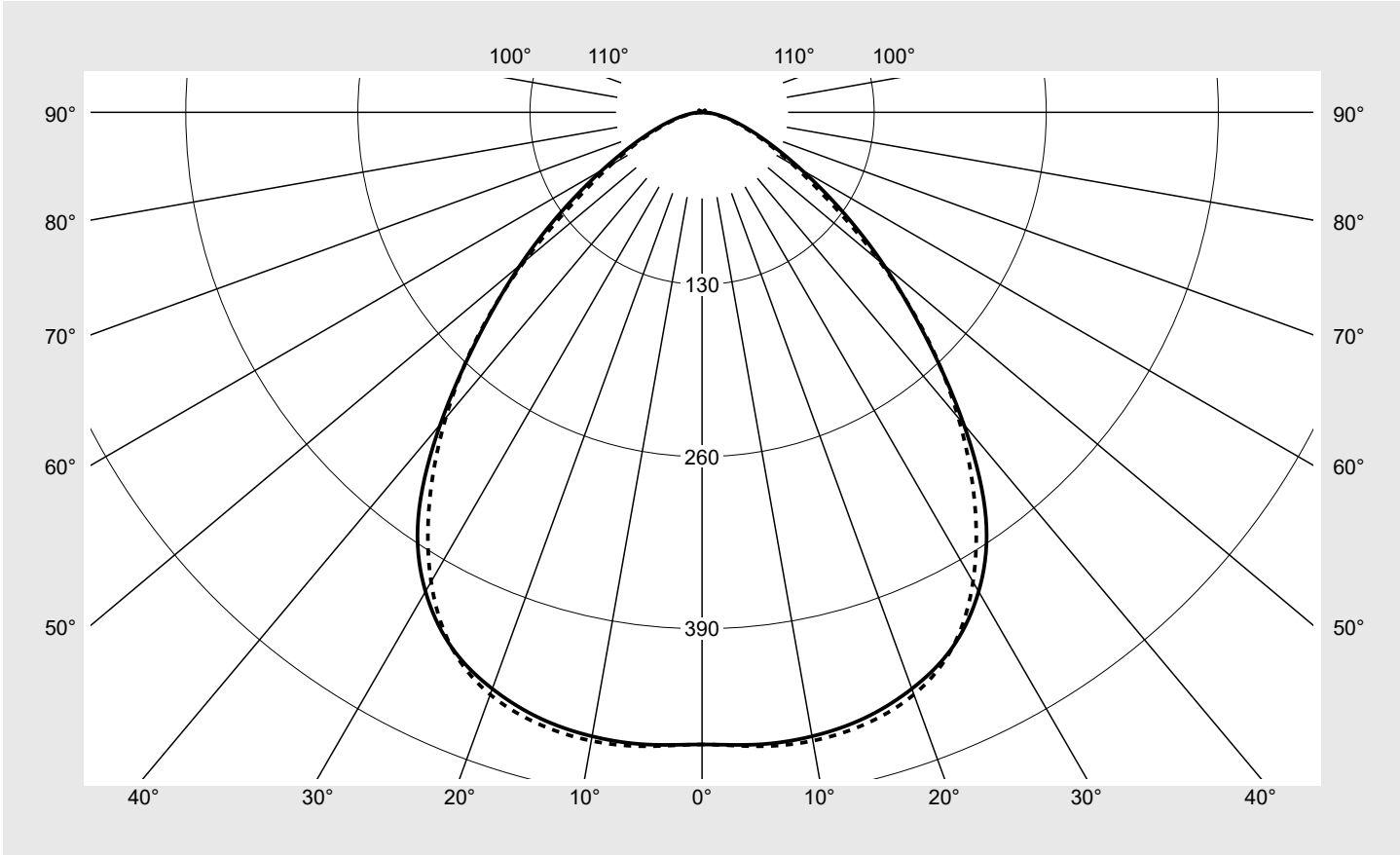


Version primary light control with lens, transparent, PMMA, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG Multilumen
Rated values Net luminous flux = 8000 lm
 Power consumption = 50.0 W
 Luminous efficacy = 160 lm/W

serial documentation
27.03.2024



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 482 cd/klm**



Classifications	
DIN 5040	A 5 2
CIE	N1=64 N2=91 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 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°	477.4	477.4	477.4	477.4	477.4	477.4	477.4	2.9	2.9
5°	479.2	479.4	476.1	476.9	477.7	479.1	480.6	22.8	25.7
10°	478.5	478.8	475.9	476.7	478.1	479.7	481.9	45.5	71.2
15°	473.7	474.6	472.3	472.8	474.3	476.3	478.1	67.3	138.5
20°	463.3	464.4	462.2	462.5	463.5	465.9	467.9	87.0	225.5
25°	446.5	446.1	441.7	442.3	444.6	445.0	446.7	102.9	328.5
30°	417.9	412.9	407.0	410.2	413.2	410.4	409.4	112.7	441.2
35°	373.8	365.6	358.8	365.1	368.4	362.5	359.0	114.6	555.7
40°	307.6	307.1	302.9	303.0	299.1	300.3	301.2	106.7	662.4
45°	238.0	232.2	241.2	229.3	232.4	226.8	239.9	90.5	752.9
50°	179.0	175.4	175.4	172.2	173.6	171.0	175.3	73.1	826.0
55°	127.6	127.0	119.9	124.4	123.4	123.3	117.8	55.4	881.5
60°	86.5	87.3	81.4	85.4	84.1	84.7	79.6	40.0	921.5
65°	57.4	58.2	54.6	57.2	56.0	56.8	53.2	28.0	949.5
70°	37.6	37.8	35.9	37.4	36.6	36.7	34.5	18.9	968.4
75°	23.7	23.8	22.9	23.5	22.9	22.8	21.3	12.2	980.6
80°	13.7	13.5	13.1	13.2	12.8	12.3	11.3	7.0	987.6
85°	6.4	6.2	5.9	5.7	5.2	4.6	4.0	3.0	990.6
90°	2.2	2.1	2.0	1.7	1.4	1.0	0.6	0.9	991.5
95°	1.8	1.7	1.7	1.5	1.2	0.8	0.5	0.7	992.2
100°	2.3	2.3	2.1	1.7	1.3	0.8	0.5	0.9	993.0
105°	2.1	2.1	2.0	1.7	1.3	0.7	0.5	0.8	993.9
110°	2.3	2.3	2.0	1.7	1.2	0.6	0.4	0.8	994.6
115°	2.2	2.1	1.9	1.7	1.1	0.7	0.5	0.7	995.4
120°	2.3	2.0	1.7	1.5	1.1	0.7	0.7	0.7	996.0
125°	2.7	2.1	1.8	1.4	1.0	0.7	0.7	0.7	996.7
130°	2.0	1.9	2.0	1.4	1.1	0.9	0.9	0.6	997.3
135°	2.0	1.9	1.8	1.5	1.2	1.2	1.2	0.6	997.9
140°	2.0	2.0	1.8	1.6	1.4	1.4	1.4	0.6	998.5
145°	2.1	2.0	1.9	1.7	1.6	1.6	1.6	0.6	999.1
150°	2.1	2.1	1.9	1.8	1.8	1.8	1.8	0.5	999.6
155°	1.9	1.9	1.8	1.8	1.8	1.8	1.8	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	22.0	23.5	22.4	23.8	24.1	22.1	23.6	22.4	23.9	24.2
	3H	22.5	23.8	22.9	24.1	24.5	22.6	23.9	22.9	24.2	24.6
	4H	22.6	23.9	23.0	24.2	24.6	22.7	24.0	23.1	24.3	24.7
	6H	22.7	23.9	23.1	24.2	24.6	22.8	23.9	23.2	24.3	24.7
	8H	22.8	23.8	23.2	24.2	24.6	22.9	23.9	23.3	24.3	24.7
	12H	22.8	23.8	23.2	24.2	24.6	22.9	23.8	23.3	24.2	24.7
4H	2H	22.3	23.5	22.7	23.9	24.2	22.3	23.6	22.7	23.9	24.3
	3H	22.8	23.9	23.3	24.3	24.7	22.9	24.0	23.4	24.4	24.8
	4H	23.1	24.0	23.5	24.4	24.8	23.2	24.1	23.6	24.5	24.9
	6H	23.2	24.0	23.7	24.4	24.9	23.3	24.1	23.8	24.5	25.0
	8H	23.3	24.0	23.7	24.4	24.9	23.4	24.1	23.8	24.5	25.0
	12H	23.3	23.9	23.8	24.4	24.9	23.4	24.0	23.9	24.5	25.0
8H	4H	23.1	23.9	23.6	24.3	24.8	23.2	23.9	23.7	24.4	24.9
	6H	23.3	23.9	23.8	24.4	24.9	23.4	24.0	23.9	24.5	25.0
	8H	23.4	23.9	23.9	24.4	24.9	23.5	24.0	24.0	24.5	25.0
	12H	23.5	23.9	24.0	24.4	24.9	23.5	24.0	24.1	24.5	25.0
12H	4H	23.1	23.8	23.6	24.2	24.7	23.2	23.9	23.7	24.3	24.8
	6H	23.3	23.8	23.9	24.3	24.9	23.4	23.9	24.0	24.4	25.0
	8H	23.4	23.9	23.9	24.4	24.9	23.5	23.9	24.0	24.4	25.0

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°	28466.6	27830.2	29099.5	27988.8	28810.9	28648.2	30943.5	
	50°	23222.4	22798.6	22984.8	22873.5	23485.0	23660.3	24850.3	
	55°	18229.9	18185.9	17329.4	18271.3	18527.0	19005.7	18701.5	
	60°	13870.0	14038.3	13238.0	14151.8	14304.9	14871.3	14486.8	
	65°	10574.4	10749.6	10234.5	10971.8	11077.3	11675.8	11439.0	
	70°	8209.5	8299.2	8011.8	8593.1	8741.3	9209.5	9146.7	
	75°	6425.7	6466.1	6356.6	6783.5	6956.5	7368.4	7444.0	
	80°	4916.5	4893.7	4883.6	5171.5	5386.1	5675.5	5829.1	
	85°	3495.7	3408.5	3404.8	3520.4	3644.2	3778.9	4003.8	

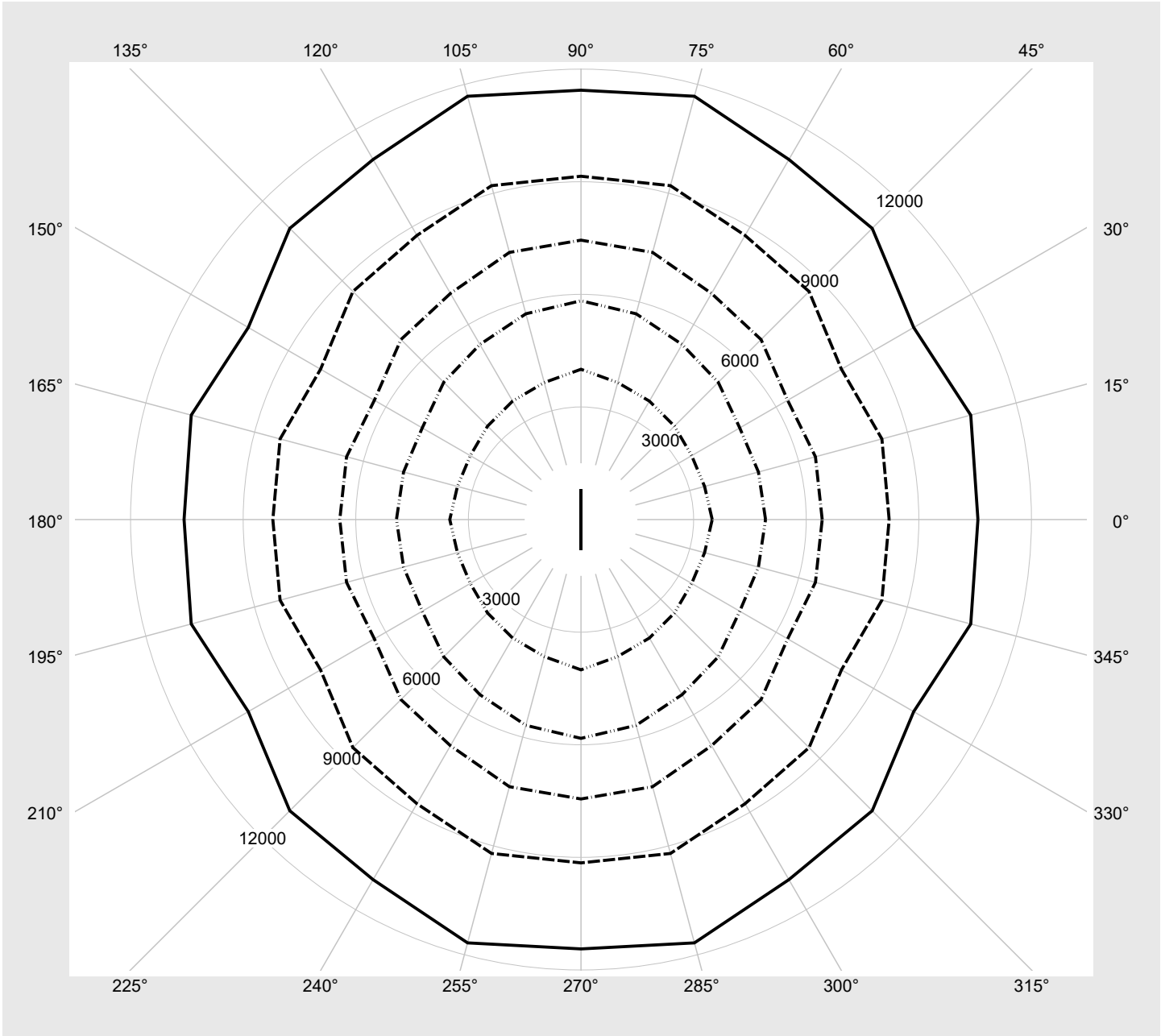
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Luminance values in cd/m²

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