

Photometric test report

Family Trunking Flex 31



Order number: 51RE12DC49B007
EAN: 4058352042052

LP number
59302_55

Version primary light control with lens, transparent, PMMA, wide distribution, with through-wiring

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 8900 lm
Power consumption = 53.0 W
Luminous efficacy = 167.9 lm/W

serial
documentation
27.03.2024

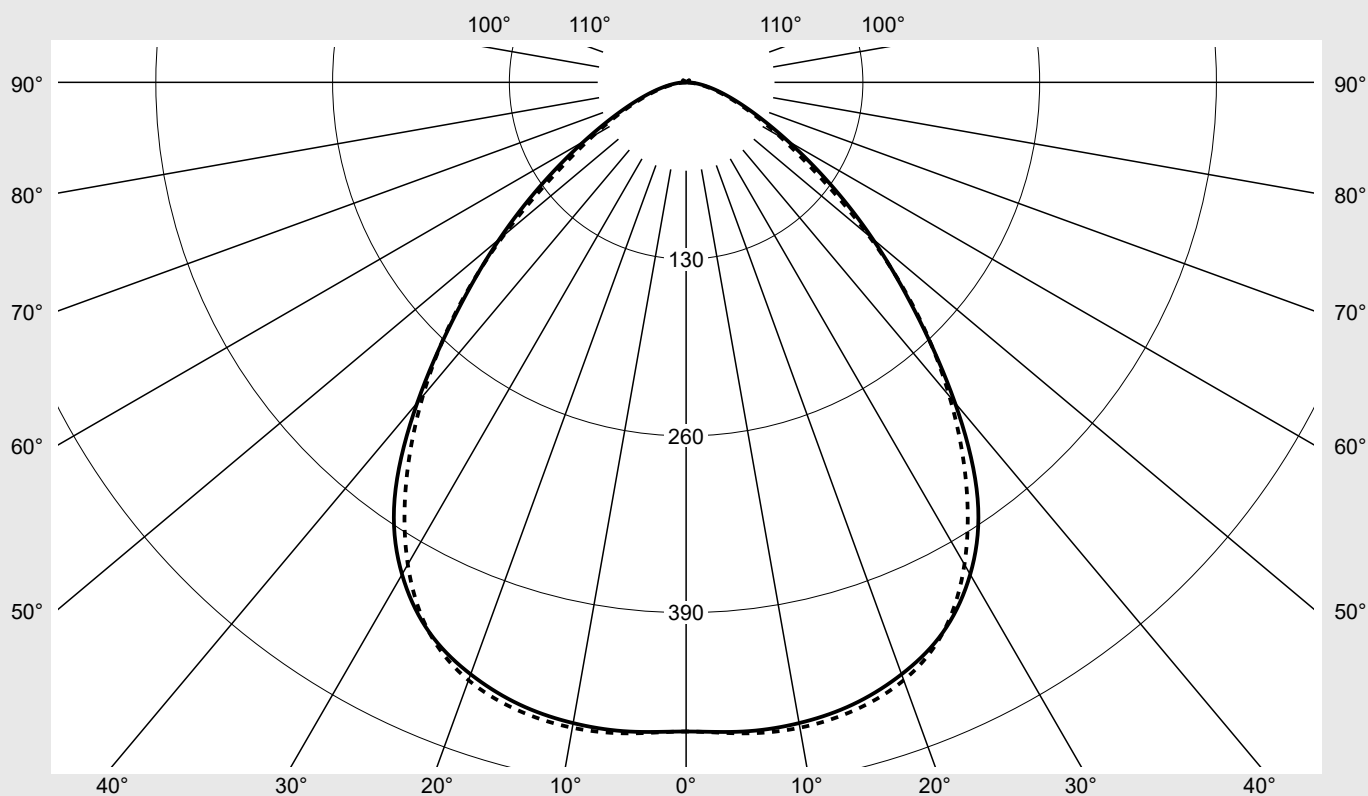
siteco

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
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C- planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	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

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	22.4	23.9	22.7	24.2	24.5	22.4	23.9	22.8	24.2	24.6
	3H	22.8	24.2	23.2	24.5	24.9	22.9	24.3	23.3	24.6	25.0
	4H	23.0	24.2	23.4	24.6	25.0	23.1	24.3	23.5	24.7	25.1
	6H	23.1	24.2	23.5	24.6	25.0	23.2	24.3	23.6	24.7	25.1
	8H	23.2	24.2	23.6	24.6	25.0	23.2	24.3	23.7	24.7	25.1
	12H	23.2	24.1	23.6	24.5	25.0	23.2	24.2	23.7	24.6	25.0
4H	2H	22.6	23.9	23.0	24.2	24.6	22.7	23.9	23.1	24.3	24.7
	3H	23.2	24.3	23.6	24.6	25.1	23.3	24.3	23.7	24.7	25.1
	4H	23.4	24.4	23.9	24.8	25.2	23.5	24.5	24.0	24.9	25.3
	6H	23.6	24.4	24.0	24.8	25.3	23.7	24.5	24.1	24.9	25.4
	8H	23.6	24.4	24.1	24.8	25.3	23.7	24.5	24.2	24.9	25.4
	12H	23.7	24.3	24.2	24.8	25.3	23.8	24.4	24.2	24.8	25.3
8H	4H	23.5	24.2	24.0	24.7	25.1	23.6	24.3	24.1	24.8	25.2
	6H	23.7	24.3	24.2	24.8	25.3	23.8	24.4	24.3	24.9	25.4
	8H	23.8	24.3	24.3	24.8	25.3	23.9	24.4	24.4	24.9	25.4
	12H	23.8	24.3	24.3	24.8	25.3	23.9	24.3	24.4	24.8	25.4
12H	4H	23.5	24.1	24.0	24.6	25.1	23.6	24.2	24.1	24.7	25.2
	6H	23.7	24.2	24.2	24.7	25.2	23.8	24.3	24.3	24.8	25.3
	8H	23.8	24.2	24.3	24.7	25.3	23.9	24.3	24.4	24.8	25.4

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1433 B = 61		H(C0) = 5 H(C90) = 5		H(C180) = 5 H(C270) = 5	
C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°				
γ	Luminance in cd/m²										
45°	31669.1	30961.1	32373.2	31137.6	32052.1	31871.1	34424.7				
50°	25834.9	25363.4	25570.6	25446.7	26127.0	26322.1	27646.0				
55°	20280.8	20231.8	19279.0	20326.8	20611.3	21143.9	20805.4				
60°	15430.3	15617.6	14727.3	15743.9	15914.2	16544.3	16116.5				
65°	11764.1	11959.0	11385.9	12206.1	12323.5	12989.3	12725.8				
70°	9133.0	9232.9	8913.1	9559.8	9724.7	10245.6	10175.7				
75°	7148.6	7193.5	7071.7	7546.6	7739.1	8197.4	8281.5				
80°	5469.6	5444.2	5433.0	5753.3	5992.0	6314.0	6484.9				
85°	3889.0	3792.0	3787.9	3916.4	4054.2	4204.0	4454.3				

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

siteco

