

Photometric test report

Family

Batten 41



Order number: 51LP327KM20AF

EAN: 4058352705025

LP number

59484_4

serial documentation

26.08.2024

siteco

Version

diffuser optic, frosted, polycarbonate, adjustable color temperature: 3000K | 4000K | 5000K, extremely wide distribution

Lamps

LED 4000 K | CRI ≥ 80

Controlgear

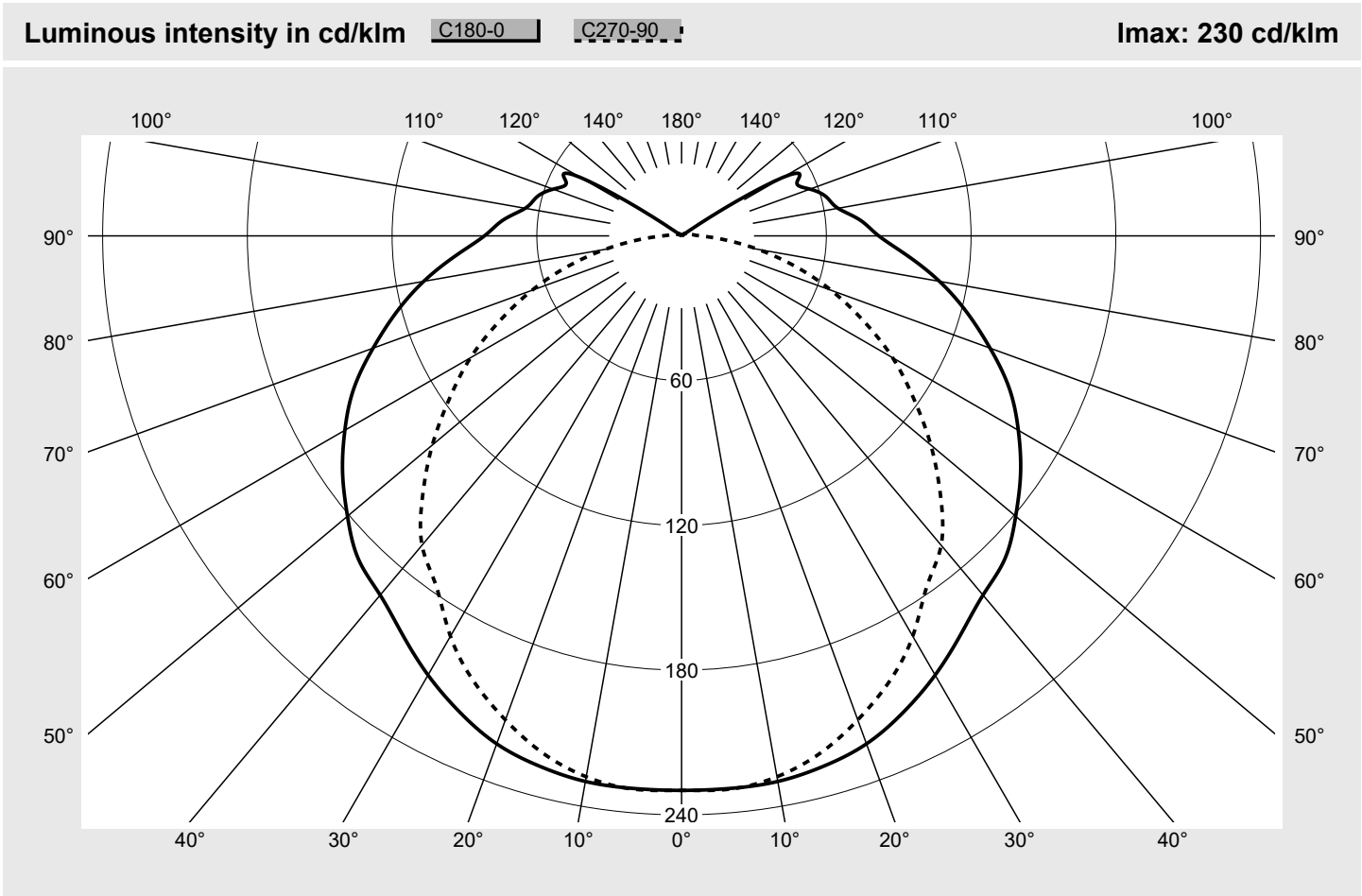
ECG

Setting

factory setting: colour temperature 4000K

Rated values

Net luminous flux = 2000 lm
Power consumption = 16.0 W
Luminous efficacy = 125 lm/W



Classifications		Luminaire light output ratios	
DIN 5040	B 3 1	η_{LB}	100.0%
CIE	N1=37 N2=66 N3=87	ϕ_u	86.8%
	N4=87 N5=100	ϕ_o	13.2%

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°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
γ	Luminous intensity in cd/klm												
0°	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9
5°	229.9	229.9	229.8	229.6	229.4	229.8	230.2	229.8	229.4	229.6	229.8	229.9	229.9
10°	229.7	229.0	228.3	227.9	227.4	227.5	227.7	227.5	227.4	227.9	228.3	229.0	229.7
15°	227.6	227.6	227.7	225.6	223.6	222.8	222.0	222.8	223.6	225.6	227.7	227.6	227.6
20°	224.1	223.7	223.2	219.8	216.4	214.9	213.5	214.9	216.4	219.8	223.2	223.7	224.1
25°	217.8	217.7	217.6	213.6	209.6	206.7	203.8	206.7	209.6	213.6	217.6	217.7	217.8
30°	210.2	209.6	209.0	204.6	200.1	195.9	191.6	195.9	200.1	204.6	209.0	209.6	210.2
35°	201.7	201.5	201.4	197.3	193.2	185.2	177.3	185.2	193.2	197.3	201.4	201.5	201.7
40°	194.4	193.3	192.2	186.6	181.1	174.2	167.4	174.2	181.1	186.6	192.2	193.3	194.4
45°	189.5	186.3	183.2	175.8	168.3	160.1	151.8	160.1	168.3	175.8	183.2	186.3	189.5
50°	180.8	176.0	171.3	163.0	154.7	144.8	134.9	144.8	154.7	163.0	171.3	176.0	180.8
55°	171.6	169.3	167.0	153.6	140.2	128.8	117.4	128.8	140.2	153.6	167.0	169.3	171.6
60°	161.2	158.5	155.9	141.2	126.5	113.7	101.0	113.7	126.5	141.2	155.9	158.5	161.2
65°	150.0	146.9	143.9	127.9	111.9	97.5	83.1	97.5	111.9	127.9	143.9	146.9	150.0
70°	136.1	133.4	130.6	113.2	95.8	80.9	66.0	80.9	95.8	113.2	130.6	133.4	136.1
75°	122.4	119.6	116.9	98.8	80.7	64.7	48.8	64.7	80.7	98.8	116.9	119.6	122.4
80°	108.6	105.2	101.9	83.8	65.8	49.0	32.1	49.0	65.8	83.8	101.9	105.2	108.6
85°	94.0	91.1	88.1	70.0	51.8	34.6	17.5	34.6	51.8	70.0	88.1	91.1	94.0
90°	81.7	79.1	76.5	59.1	41.8	24.8	7.9	24.8	41.8	59.1	76.5	79.1	81.7
95°	74.4	70.8	67.2	52.2	37.2	21.1	4.9	21.1	37.2	52.2	67.2	70.8	74.4
100°	65.8	61.9	57.9	42.8	27.7	15.7	3.6	15.7	27.7	42.8	57.9	61.9	65.8
105°	62.2	58.3	54.5	40.5	26.6	14.5	2.4	14.5	26.6	40.5	54.5	58.3	62.2
110°	56.6	53.8	51.1	39.2	27.4	14.5	1.6	14.5	27.4	39.2	51.1	53.8	56.6
115°	52.8	50.1	47.3	36.0	24.7	13.2	1.6	13.2	24.7	36.0	47.3	50.1	52.8
120°	48.4	46.4	44.3	33.2	22.1	11.8	1.6	11.8	22.1	33.2	44.3	46.4	48.4
125°	0.0	0.0	0.0	0.0	0.0	0.0	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	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	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	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	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	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	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	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	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	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	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	0.0	0.0	0.0	0.0	0.0	0.0

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Table of values for luminous intensities		Maximum luminous intensity

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C- planes	195°	210°	225°	240°	255°	270°	285°	300°	315°	330°	345°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm											Luminous flux in lm/klm	
0°	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9	1.4	1.4
5°	229.9	229.8	229.6	229.4	229.8	230.2	229.8	229.4	229.6	229.8	229.9	11.0	12.4
10°	229.0	228.3	227.9	227.4	227.5	227.7	227.5	227.4	227.9	228.3	229.0	21.7	34.1
15°	227.6	227.7	225.6	223.6	222.8	222.0	222.8	223.6	225.6	227.7	227.6	32.0	66.0
20°	223.7	223.2	219.8	216.4	214.9	213.5	214.9	216.4	219.8	223.2	223.7	41.1	107.2
25°	217.7	217.6	213.6	209.6	206.7	203.8	206.7	209.6	213.6	217.6	217.7	49.3	156.4
30°	209.6	209.0	204.6	200.1	195.9	191.6	195.9	200.1	204.6	209.0	209.6	55.7	212.2
35°	201.5	201.4	197.3	193.2	185.2	177.3	185.2	193.2	197.3	201.4	201.5	61.2	273.4
40°	193.3	192.2	186.6	181.1	174.2	167.4	174.2	181.1	186.6	192.2	193.3	65.1	338.5
45°	186.3	183.2	175.8	168.3	160.1	151.8	160.1	168.3	175.8	183.2	186.3	67.5	405.9
50°	176.0	171.3	163.0	154.7	144.8	134.9	144.8	154.7	163.0	171.3	176.0	67.7	473.6
55°	169.3	167.0	153.6	140.2	128.8	117.4	128.8	140.2	153.6	167.0	169.3	67.6	541.2
60°	158.5	155.9	141.2	126.5	113.7	101.0	113.7	126.5	141.2	155.9	158.5	65.4	606.7
65°	146.9	143.9	127.9	111.9	97.5	83.1	97.5	111.9	127.9	143.9	146.9	61.6	668.3
70°	133.4	130.6	113.2	95.8	80.9	66.0	80.9	95.8	113.2	130.6	133.4	56.2	724.5
75°	119.6	116.9	98.8	80.7	64.7	48.8	64.7	80.7	98.8	116.9	119.6	50.0	774.5
80°	105.2	101.9	83.8	65.8	49.0	32.1	49.0	65.8	83.8	101.9	105.2	42.8	817.3
85°	91.1	88.1	70.0	51.8	34.6	17.5	34.6	51.8	70.0	88.1	91.1	35.6	853.0
90°	79.1	76.5	59.1	41.8	24.8	7.9	24.8	41.8	59.1	76.5	79.1	29.8	882.8
95°	70.8	67.2	52.2	37.2	21.1	4.9	21.1	37.2	52.2	67.2	70.8	26.2	909.0
100°	61.9	57.9	42.8	27.7	15.7	3.6	15.7	27.7	42.8	57.9	61.9	21.6	930.6
105°	58.3	54.5	40.5	26.6	14.5	2.4	14.5	26.6	40.5	54.5	58.3	20.0	950.6
110°	53.8	51.1	39.2	27.4	14.5	1.6	14.5	27.4	39.2	51.1	53.8	18.5	969.1
115°	50.1	47.3	36.0	24.7	13.2	1.6	13.2	24.7	36.0	47.3	50.1	16.4	985.5
120°	46.4	44.3	33.2	22.1	11.8	1.6	11.8	22.1	33.2	44.3	46.4	14.5	1000.0
125°	0.0	0.0	0.0	0.0	0.0	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	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	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	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	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	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	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	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	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	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	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	0.0	0.0	0.0	0.0	1000.0

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Family Batten 41			Order number: 51LP327KM20AF EAN: 4058352705025							LP number 59484_4	
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	20.2	21.9	20.7	22.3	22.8	19.9	21.6	20.3	22.0	22.4
	3H	22.3	23.9	22.8	24.3	24.8	21.6	23.2	22.1	23.6	24.1
	4H	23.3	24.7	23.8	25.2	25.7	22.3	23.8	22.8	24.2	24.7
	6H	24.2	25.5	24.7	26.0	26.6	22.9	24.2	23.4	24.7	25.3
	8H	24.7	25.9	25.2	26.4	27.0	23.1	24.4	23.6	24.9	25.5
	12H	25.0	26.1	25.6	26.7	27.3	23.2	24.4	23.8	25.0	25.6
4H	2H	21.0	22.4	21.5	22.9	23.4	20.7	22.1	21.2	22.6	23.1
	3H	23.3	24.5	23.8	25.0	25.6	22.6	23.8	23.1	24.3	24.9
	4H	24.4	25.5	25.0	26.1	26.7	23.4	24.6	24.0	25.1	25.7
	6H	25.4	26.4	26.0	27.0	27.7	24.1	25.1	24.7	25.7	26.3
	8H	26.0	26.9	26.6	27.5	28.2	24.5	25.4	25.1	26.0	26.6
	12H	26.4	27.2	27.1	27.9	28.6	24.6	25.5	25.2	26.1	26.8
8H	4H	24.8	25.7	25.4	26.3	27.0	23.9	24.8	24.5	25.4	26.1
	6H	26.1	26.9	26.7	27.5	28.2	24.9	25.6	25.5	26.3	27.0
	8H	26.7	27.4	27.4	28.1	28.8	25.3	26.0	25.9	26.6	27.3
	12H	27.3	27.9	28.0	28.6	29.4	25.6	26.2	26.2	26.8	27.6
12H	4H	24.8	25.6	25.4	26.2	26.9	24.0	24.8	24.6	25.4	26.1
	6H	26.2	26.8	26.8	27.5	28.2	25.0	25.7	25.7	26.3	27.1
	8H	26.9	27.5	27.5	28.1	28.9	25.5	26.1	26.2	26.7	27.5

Luminance table		Max. for $\gamma \geq 65^\circ$						Photometric dimensions in mm:		L = 1175 B = 25	H(C0) = 18 H(C90) = 0	H(C180) = 18 H(C270) = 0
C-planes	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°	330°
γ	Luminance in cd/m²											
45°	10607.0	10862.5	11919.0	14611.5	11919.0	10862.5	10607.0	10862.5	11919.0	14611.5	11919.0	10862.5
50°	10306.7	10407.6	11464.6	14285.4	11464.6	10407.6	10306.7	10407.6	11464.6	14285.4	11464.6	10407.6
55°	10040.2	10487.6	10987.3	13938.1	10987.3	10487.6	10040.2	10487.6	10987.3	13938.1	10987.3	10487.6
60°	9767.4	10206.2	10607.7	13754.6	10607.7	10206.2	9767.4	10206.2	10607.7	13754.6	10607.7	10206.2
65°	9496.2	9920.6	10169.4	13383.0	10169.4	9920.6	9496.2	9920.6	10169.4	13383.0	10169.4	9920.6
70°	9096.8	9584.0	9589.8	13142.2	9589.8	9584.0	9096.8	9584.0	9589.8	13142.2	9589.8	9584.0
75°	8734.2	9239.2	9056.8	12831.8	9056.8	9239.2	8734.2	9239.2	9056.8	12831.8	9056.8	9239.2
80°	8373.1	8804.0	8487.1	12598.9	8487.1	8804.0	8373.1	8804.0	8487.1	12598.9	8487.1	8804.0
85°	7953.0	8471.8	7912.4	13637.2	7912.4	8471.8	7953.0	8471.8	7912.4	13637.2	7912.4	8471.8

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LP number
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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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