

Photometric test report

Family
Batten 41

Order number: 51LP327KM20AE
EAN: 4058352704998

LP number
59484_3



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

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG

Setting individual position: colour temperature 3000K

Rated values Net luminous flux = 1800 lm
Power consumption = 16.0 W
Luminous efficacy = 112.5 lm/W

serial
documentation
26.08.2024

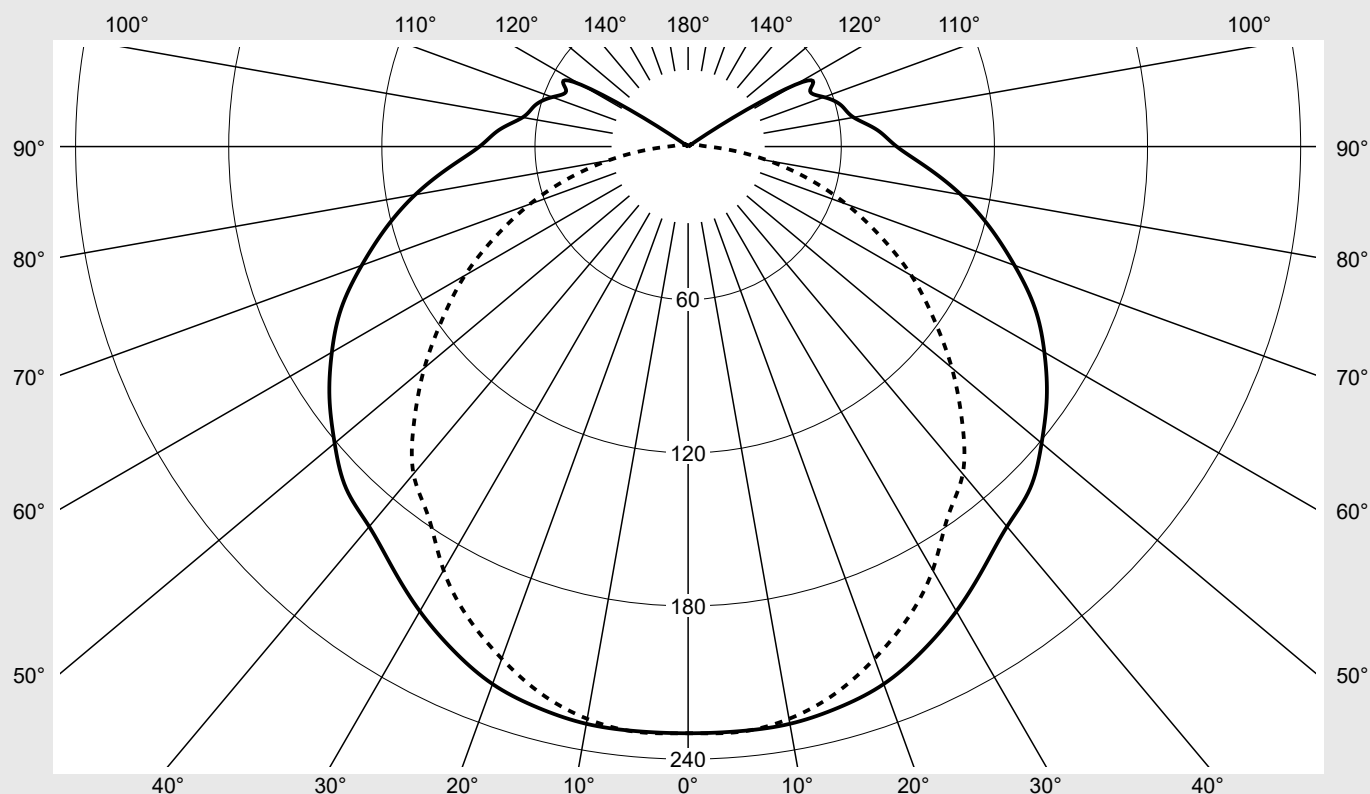
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 230 cd/klm



Classifications

DIN 5040 B 3 1
CIE N1=37 N2=66 N3=87
N4=87 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 86.8%
 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

sITeco

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: 51LP327KM20AE EAN: 4058352704998							LP number 59484_3	
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	19.9	21.6	20.3	22.0	22.4	19.5	21.2	19.9	21.6	22.1
	3H	22.0	23.5	22.4	23.9	24.4	21.3	22.8	21.7	23.2	23.7
	4H	22.9	24.3	23.4	24.8	25.3	21.9	23.4	22.4	23.9	24.4
	6H	23.8	25.1	24.3	25.6	26.2	22.5	23.8	23.0	24.3	24.9
	8H	24.3	25.5	24.8	26.1	26.6	22.8	24.1	23.3	24.6	25.1
	12H	24.6	25.8	25.2	26.3	27.0	22.9	24.1	23.4	24.6	25.2
4H	2H	20.6	22.1	21.1	22.6	23.1	20.3	21.7	20.8	22.2	22.7
	3H	22.9	24.1	23.4	24.7	25.2	22.2	23.4	22.7	23.9	24.5
	4H	24.0	25.2	24.6	25.7	26.3	23.1	24.2	23.6	24.7	25.3
	6H	25.1	26.1	25.7	26.6	27.3	23.8	24.8	24.3	25.3	26.0
	8H	25.6	26.5	26.2	27.1	27.8	24.1	25.0	24.7	25.6	26.3
	12H	26.1	26.9	26.7	27.5	28.2	24.3	25.1	24.9	25.7	26.4
8H	4H	24.4	25.4	25.0	26.0	26.6	23.6	24.5	24.2	25.1	25.7
	6H	25.7	26.5	26.3	27.1	27.8	24.5	25.3	25.1	25.9	26.6
	8H	26.4	27.1	27.0	27.7	28.4	24.9	25.6	25.5	26.2	27.0
	12H	27.0	27.6	27.6	28.2	29.0	25.2	25.8	25.9	26.5	27.2
12H	4H	24.4	25.3	25.0	25.9	26.6	23.6	24.4	24.2	25.0	25.8
	6H	25.8	26.5	26.4	27.1	27.8	24.6	25.3	25.3	26.0	26.7
	8H	26.5	27.1	27.2	27.8	28.5	25.1	25.7	25.8	26.4	27.1

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°	9546.3	9776.2	10727.1	13150.4	10727.1	9776.2	9546.3	9776.2	10727.1	13150.4	10727.1	9776.2		
50°	9276.0	9366.8	10318.2	12856.9	10318.2	9366.8	9276.0	9366.8	10318.2	12856.9	10318.2	9366.8		
55°	9036.2	9438.8	9888.5	12544.3	9888.5	9438.8	9036.2	9438.8	9888.5	12544.3	9888.5	9438.8		
60°	8790.7	9185.6	9546.9	12379.1	9546.9	9185.6	8790.7	9185.6	9546.9	12379.1	9546.9	9185.6		
65°	8546.6	8928.6	9152.4	12044.7	9152.4	8928.6	8546.6	8928.6	9152.4	12044.7	9152.4	8928.6		
70°	8187.1	8625.6	8630.8	11828.0	8630.8	8625.6	8187.1	8625.6	8630.8	11828.0	8630.8	8625.6		
75°	7860.8	8315.3	8151.2	11548.7	8151.2	8315.3	7860.8	8315.3	8151.2	11548.7	8151.2	8315.3		
80°	7535.8	7923.6	7638.4	11339.0	7638.4	7923.6	7535.8	7923.6	7638.4	11339.0	7638.4	7923.6		
85°	7157.7	7624.6	7121.1	12273.5	7121.1	7624.6	7157.7	7624.6	7121.1	12273.5	7121.1	7624.6		

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

siteco

