
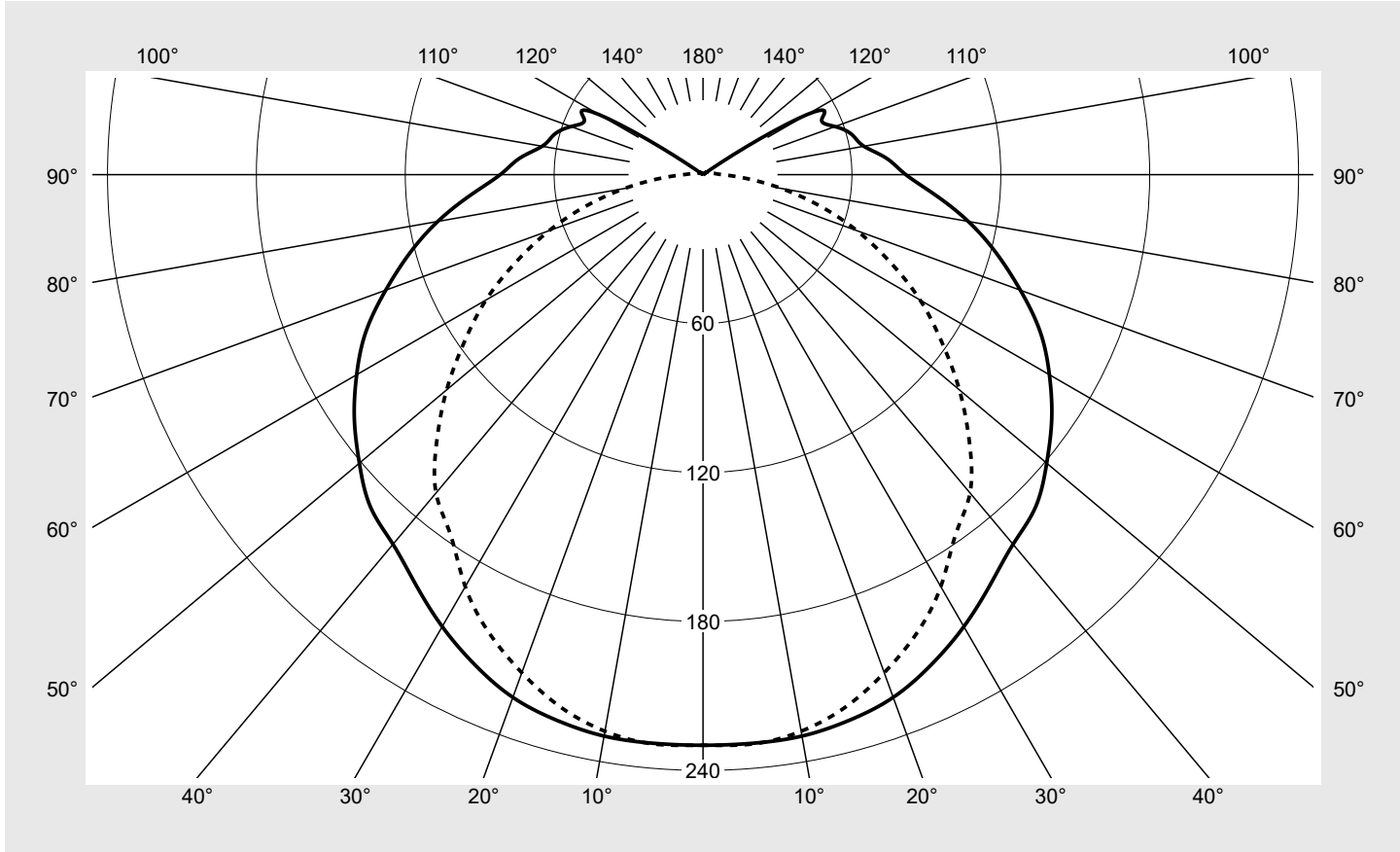


# Photometric test report

<b>Family</b> <b>Batten 41</b> 	<b>Order number: 51LP327KM20AF</b> <b>EAN: 4058352705025</b>	<b>LP number</b> <b>59484_4</b>
	<b>Version</b> diffuser optic, frosted, polycarbonate, adjustable color temperature: 3000K   4000K   5000K, extremely wide distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG <b>Setting</b> factory setting: colour temperature 4000K <b>Rated values</b> Net luminous flux = 2000 lm Power consumption = 16.0 W Luminous efficacy = 125 lm/W	<b>serial documentation</b> <b>26.08.2024</b>

**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	
$\eta_{LB}$	100.0%
$\phi_u$	86.8%
$\phi_o$	13.2%

**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	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
$\gamma$	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

## Photometric test report

<b>Family</b> <b>Batten 41</b>	<b>Order number: 51LP327KM20AF</b> <b>EAN: 4058352705025</b>	<b>LP number</b> <b>59484_4</b>
<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes	195°	210°	225°	240°	255°	270°	285°	300°	315°	330°	345°	Phi-zone	Total Phi-zone
$\gamma$	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

## Photometric test report

<b>Family</b> <b>Batten 41</b>	<b>Order number: 51LP327KM20AF</b> <b>EAN: 4058352705025</b>	<b>LP number</b> <b>59484_4</b>
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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	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

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1175</b>	<b>H(C0) = 18</b>	<b>H(C180) = 18</b>
			<b>B = 25</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

<b>C-planes</b>	<b>0°</b>	<b>30°</b>	<b>60°</b>	<b>90°</b>	<b>120°</b>	<b>150°</b>	<b>180°</b>	<b>210°</b>	<b>240°</b>	<b>270°</b>	<b>300°</b>	<b>330°</b>
$\gamma$	<b>Luminance in cd/m<sup>2</sup></b>											
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

**Photometric test report**

<b>Family</b> <b>Batten 41</b>	<b>Order number: 51LP327KM20AF</b> <b>EAN: 4058352705025</b>	<b>LP number</b> <b>59484_4</b>
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**Luminance values in cd/m<sup>2</sup>**      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°

