

Photometric test report

Family
Batten 41



Order number: 51LP327DM10AF
EAN: 4058352704936

Version

Lamps

Controlgear

Setting

Rated values

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

LED 4000 K | CRI ≥ 80

ECG

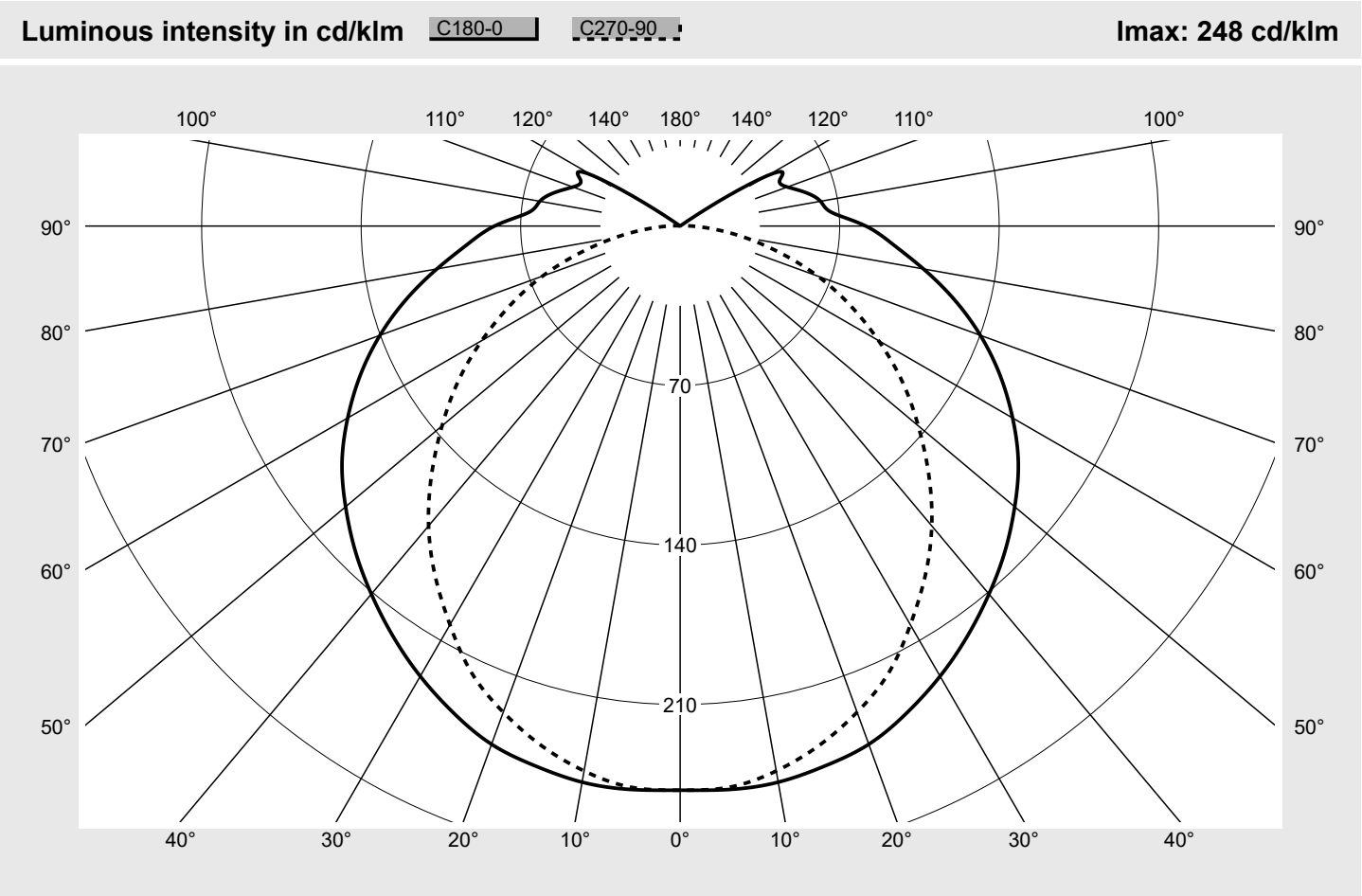
factory setting: colour temperature 4000K

Net luminous flux = 1000 lm
Power consumption = 8.3 W
Luminous efficacy = 120.5 lm/W

LP number
59483_3

serial
documentation
26.08.2024

siteco



Classifications		Luminaire light output ratios	
DIN 5040	B 3 1	η_{LB}	100.0%
CIE	N1=39 N2=68 N3=88	ϕ_u	88.5%
	N4=89 N5=100	ϕ_o	11.5%

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°	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6
5°	248.2	248.0	247.8	247.2	246.6	246.9	247.2	246.9	246.6	247.2	247.8	248.0	248.2
10°	247.8	247.9	248.0	245.9	243.7	243.3	242.8	243.3	243.7	245.9	248.0	247.9	247.8
15°	245.3	245.3	245.3	241.8	238.2	237.1	235.9	237.1	238.2	241.8	245.3	245.3	245.3
20°	242.0	241.5	241.0	235.9	230.8	228.9	227.0	228.9	230.8	235.9	241.0	241.5	242.0
25°	235.6	235.1	234.5	228.0	221.5	219.0	216.4	219.0	221.5	228.0	234.5	235.1	235.6
30°	228.1	227.1	226.0	218.1	210.2	206.1	202.1	206.1	210.2	218.1	226.0	227.1	228.1
35°	219.7	218.2	216.7	207.0	197.3	192.4	187.5	192.4	197.3	207.0	216.7	218.2	219.7
40°	210.9	208.5	206.2	194.9	183.7	177.7	171.8	177.7	183.7	194.9	206.2	208.5	210.9
45°	201.7	198.2	194.8	181.8	168.8	161.5	154.3	161.5	168.8	181.8	194.8	198.2	201.7
50°	191.7	187.8	184.0	168.9	153.9	145.1	136.4	145.1	153.9	168.9	184.0	187.8	191.7
55°	181.2	176.2	171.3	154.7	138.1	128.6	119.0	128.6	138.1	154.7	171.3	176.2	181.2
60°	168.5	163.2	157.9	139.7	121.5	111.0	100.5	111.0	121.5	139.7	157.9	163.2	168.5
65°	154.9	149.6	144.3	124.8	105.2	93.8	82.3	93.8	105.2	124.8	144.3	149.6	154.9
70°	140.2	134.9	129.6	109.5	89.3	76.8	64.3	76.8	89.3	109.5	129.6	134.9	140.2
75°	124.5	118.8	113.0	92.8	72.6	59.0	45.5	59.0	72.6	92.8	113.0	118.8	124.5
80°	108.4	103.0	97.5	77.2	56.9	42.8	28.7	42.8	56.9	77.2	97.5	103.0	108.4
85°	93.9	88.6	83.2	63.3	43.4	28.8	14.3	28.8	43.4	63.3	83.2	88.6	93.9
90°	81.5	76.7	71.9	53.0	34.1	19.6	5.0	19.6	34.1	53.0	71.9	76.7	81.5
95°	67.0	66.8	66.5	49.1	31.8	16.7	1.6	16.7	31.8	49.1	66.5	66.8	67.0
100°	62.5	55.6	48.6	37.9	27.3	14.1	1.0	14.1	27.3	37.9	48.6	55.6	62.5
105°	56.9	49.2	41.5	31.8	22.0	11.5	0.9	11.5	22.0	31.8	41.5	49.2	56.9
110°	50.1	45.3	40.5	30.1	19.7	10.4	1.1	10.4	19.7	30.1	40.5	45.3	50.1
115°	48.3	45.2	42.1	30.4	18.7	10.0	1.2	10.0	18.7	30.4	42.1	45.2	48.3
120°	44.3	41.7	39.0	28.1	17.2	8.9	0.6	8.9	17.2	28.1	39.0	41.7	44.3
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°	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	1.5	1.5
5°	248.0	247.8	247.2	246.6	246.9	247.2	246.9	246.6	247.2	247.8	248.0	11.8	13.3
10°	247.9	248.0	245.9	243.7	243.3	242.8	243.3	243.7	245.9	248.0	247.9	23.4	36.7
15°	245.3	245.3	241.8	238.2	237.1	235.9	237.1	238.2	241.8	245.3	245.3	34.2	70.9
20°	241.5	241.0	235.9	230.8	228.9	227.0	228.9	230.8	235.9	241.0	241.5	44.1	115.1
25°	235.1	234.5	228.0	221.5	219.0	216.4	219.0	221.5	228.0	234.5	235.1	52.7	167.7
30°	227.1	226.0	218.1	210.2	206.1	202.1	206.1	210.2	218.1	226.0	227.1	59.5	227.2
35°	218.2	216.7	207.0	197.3	192.4	187.5	192.4	197.3	207.0	216.7	218.2	64.7	292.0
40°	208.5	206.2	194.9	183.7	177.7	171.8	177.7	183.7	194.9	206.2	208.5	68.3	360.2
45°	198.2	194.8	181.8	168.8	161.5	154.3	161.5	168.8	181.8	194.8	198.2	70.0	430.2
50°	187.8	184.0	168.9	153.9	145.1	136.4	145.1	153.9	168.9	184.0	187.8	70.2	500.4
55°	176.2	171.3	154.7	138.1	128.6	119.0	128.6	138.1	154.7	171.3	176.2	68.8	569.2
60°	163.2	157.9	139.7	121.5	111.0	100.5	111.0	121.5	139.7	157.9	163.2	65.5	634.7
65°	149.6	144.3	124.8	105.2	93.8	82.3	93.8	105.2	124.8	144.3	149.6	61.0	695.7
70°	134.9	129.6	109.5	89.3	76.8	64.3	76.8	89.3	109.5	129.6	134.9	55.1	750.8
75°	118.8	113.0	92.8	72.6	59.0	45.5	59.0	72.6	92.8	113.0	118.8	47.8	798.6
80°	103.0	97.5	77.2	56.9	42.8	28.7	42.8	56.9	77.2	97.5	103.0	40.1	838.7
85°	88.6	83.2	63.3	43.4	28.8	14.3	28.8	43.4	63.3	83.2	88.6	32.9	871.6
90°	76.7	71.9	53.0	34.1	19.6	5.0	19.6	34.1	53.0	71.9	76.7	27.3	898.8
95°	66.8	66.5	49.1	31.8	16.7	1.6	16.7	31.8	49.1	66.5	66.8	24.1	923.0
100°	55.6	48.6	37.9	27.3	14.1	1.0	14.1	27.3	37.9	48.6	55.6	19.4	942.3
105°	49.2	41.5	31.8	22.0	11.5	0.9	11.5	22.0	31.8	41.5	49.2	16.3	958.7
110°	45.3	40.5	30.1	19.7	10.4	1.1	10.4	19.7	30.1	40.5	45.3	14.7	973.4
115°	45.2	42.1	30.4	18.7	10.0	1.2	10.0	18.7	30.4	42.1	45.2	14.2	987.6
120°	41.7	39.0	28.1	17.2	8.9	0.6	8.9	17.2	28.1	39.0	41.7	12.4	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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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	20.6	22.3	21.0	22.7	23.1	19.9	21.6	20.3	22.0	22.4
	3H	22.6	24.2	23.1	24.6	25.1	21.6	23.1	22.0	23.5	24.0
	4H	23.5	25.0	24.0	25.4	25.9	22.2	23.6	22.6	24.1	24.6
	6H	24.4	25.7	24.9	26.2	26.8	22.7	24.0	23.2	24.5	25.0
	8H	24.9	26.1	25.4	26.6	27.2	22.9	24.2	23.4	24.7	25.2
	12H	25.2	26.4	25.8	26.9	27.5	22.9	24.2	23.5	24.7	25.2
4H	2H	21.3	22.7	21.7	23.2	23.7	20.7	22.1	21.2	22.6	23.1
	3H	23.5	24.7	24.0	25.2	25.8	22.5	23.7	23.0	24.2	24.8
	4H	24.6	25.7	25.1	26.2	26.8	23.3	24.4	23.8	24.9	25.5
	6H	25.6	26.6	26.2	27.2	27.8	23.9	24.9	24.4	25.4	26.0
	8H	26.2	27.0	26.7	27.6	28.3	24.1	25.1	24.7	25.6	26.3
	12H	26.6	27.4	27.2	28.0	28.7	24.3	25.1	24.9	25.7	26.4
8H	4H	24.9	25.9	25.5	26.4	27.1	23.8	24.7	24.3	25.2	25.9
	6H	26.2	27.0	26.8	27.6	28.2	24.6	25.3	25.2	25.9	26.6
	8H	26.8	27.5	27.4	28.1	28.8	24.9	25.6	25.5	26.2	26.9
	12H	27.4	28.0	28.1	28.6	29.4	25.1	25.7	25.8	26.4	27.1
12H	4H	24.9	25.7	25.5	26.3	27.0	23.8	24.6	24.4	25.2	25.9
	6H	26.2	26.9	26.8	27.5	28.2	24.7	25.4	25.3	26.0	26.7
	8H	26.9	27.5	27.6	28.2	28.9	25.1	25.7	25.7	26.3	27.1

Luminance table		Max. for $\gamma \geq 65^\circ$					Photometric dimensions in mm:		L = 575 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°		11534.4	11801.9	12209.3	15179.3	12209.3	11801.9	11534.4	11801.9	12209.3	15179.3	12209.3	11801.9	
50°		11163.7	11422.2	11654.6	14762.2	11654.6	11422.2	11163.7	11422.2	11654.6	14762.2	11654.6	11422.2	
55°		10833.5	10988.3	11062.2	14434.6	11062.2	10988.3	10833.5	10988.3	11062.2	14434.6	11062.2	10988.3	
60°		10431.8	10561.1	10413.3	13986.6	10413.3	10561.1	10431.8	10561.1	10413.3	13986.6	10413.3	10561.1	
65°		10021.8	10162.8	9774.6	13553.9	9774.6	10162.8	10021.8	10162.8	9774.6	13553.9	9774.6	10162.8	
70°		9575.1	9716.3	9133.1	13073.2	9133.1	9716.3	9575.1	9716.3	9133.1	13073.2	9133.1	9716.3	
75°		9076.7	9130.5	8328.6	12220.9	8328.6	9130.5	9076.7	9130.5	8328.6	12220.9	8328.6	9130.5	
80°		8544.8	8614.1	7498.1	11477.5	7498.1	8614.1	8544.8	8614.1	7498.1	11477.5	7498.1	8614.1	
85°		8122.5	8172.4	6764.8	11429.8	6764.8	8172.4	8122.5	8172.4	6764.8	11429.8	6764.8	8172.4	

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LP number
59483_3

Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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