

Photometric test report

Family
Ecopack® 31

Order number: 51LJ12MDM20A
EAN: 4058352589533

LP number
59347_3



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

Lamps LED 5000 K | CRI ≥ 80

Controlgear ECG Multilumen

Setting individual position: colour temperature 5000K

Rated values Net luminous flux = 2510 lm
Power consumption = 20.0 W
Luminous efficacy = 125.5 lm/W

serial
documentation
19.08.2022

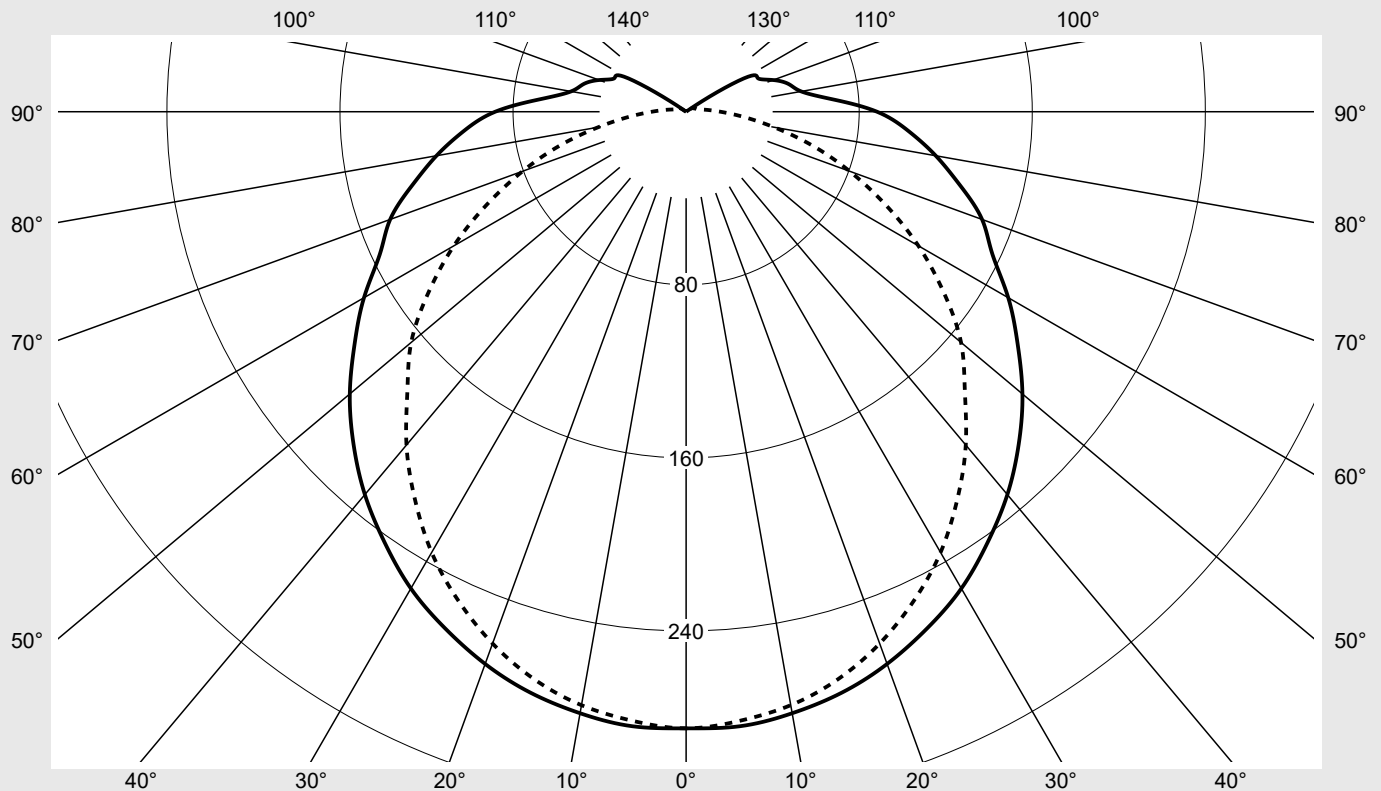
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 285 cd/klm



Classifications

DIN 5040 A 3 1
CIE N1=42 N2=71 N3=90
N4=93 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 92.9%
 ϕ_o 7.1%

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 γ	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Luminous intensity in cd/klm								Luminous flux in lm/klm	
0°	285.0	285.0	285.0	285.0	285.0	285.0	285.0	1.7	1.7
5°	285.1	284.3	283.5	283.8	284.2	283.4	282.6	13.6	15.3
10°	282.3	281.1	279.8	280.1	280.4	279.5	278.5	26.7	41.9
15°	278.0	276.1	274.2	273.9	273.6	272.5	271.5	38.9	80.8
20°	271.6	268.6	265.6	264.9	264.2	262.9	261.6	49.8	130.6
25°	263.5	259.4	255.3	254.0	252.7	251.0	249.3	59.0	189.6
30°	254.5	248.8	243.2	241.2	239.1	237.2	235.2	66.4	256.1
35°	243.0	236.0	229.1	225.9	222.7	220.7	218.6	71.5	327.6
40°	231.0	222.5	214.1	209.5	205.0	203.0	201.1	74.6	402.2
45°	217.4	207.7	198.0	192.2	186.5	184.4	182.2	75.5	477.7
50°	202.9	191.6	180.3	173.3	166.4	166.2	165.9	74.3	552.0
55°	187.1	177.1	167.1	157.6	148.2	146.7	145.3	72.1	624.1
60°	171.9	160.5	149.2	139.1	129.1	126.5	124.0	67.4	691.5
65°	156.3	143.4	130.6	119.0	107.5	104.6	101.7	60.8	752.3
70°	145.6	129.4	113.3	99.2	85.1	82.8	80.5	53.5	805.8
75°	131.0	114.1	97.1	80.6	64.2	62.3	60.4	45.4	851.1
80°	117.2	99.5	81.9	63.3	44.7	43.0	41.2	37.0	888.1
85°	103.3	85.9	68.5	48.0	27.6	26.9	26.3	29.3	917.4
90°	88.2	72.6	57.0	36.5	15.9	15.9	15.8	22.8	940.2
95°	67.3	56.7	46.0	27.9	9.8	9.8	9.7	17.2	957.4
100°	54.0	42.2	30.4	18.3	6.1	6.1	6.0	12.0	969.4
105°	49.2	36.5	23.9	14.2	4.6	4.8	4.9	9.8	979.2
110°	42.8	31.7	20.5	12.3	4.0	4.2	4.3	8.3	987.4
115°	36.6	27.1	17.6	10.7	3.8	3.9	3.9	6.9	994.4
120°	30.8	22.8	14.8	9.2	3.7	3.7	3.7	5.6	1000.0
125°	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	1000.0
135°	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	1000.0
145°	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	1000.0
155°	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	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
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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	21.6	23.3	21.9	23.6	24.0	21.4	23.2	21.8	23.5	23.8
	3H	23.6	25.3	24.0	25.6	25.9	23.1	24.8	23.5	25.1	25.4
	4H	24.7	26.2	25.1	26.6	27.0	23.9	25.4	24.3	25.8	26.1
	6H	25.8	27.2	26.2	27.6	28.0	24.5	26.0	24.9	26.3	26.7
	8H	26.4	27.7	26.8	28.1	28.5	24.8	26.2	25.3	26.6	27.0
	12H	26.9	28.1	27.3	28.5	28.9	25.1	26.4	25.6	26.8	27.2
4H	2H	22.2	23.8	22.6	24.1	24.5	22.1	23.7	22.5	24.0	24.4
	3H	24.5	25.8	24.9	26.2	26.6	24.0	25.3	24.4	25.7	26.1
	4H	25.7	26.9	26.1	27.3	27.7	24.8	26.0	25.2	26.4	26.8
	6H	26.9	28.0	27.4	28.4	28.9	25.5	26.6	26.0	27.1	27.5
	8H	27.5	28.5	28.0	29.0	29.4	25.9	26.9	26.3	27.3	27.8
	12H	28.2	29.1	28.7	29.5	30.0	26.2	27.2	26.7	27.6	28.1
8H	4H	26.0	27.0	26.4	27.4	27.9	25.2	26.2	25.7	26.6	27.1
	6H	27.4	28.2	27.9	28.7	29.2	26.0	26.9	26.5	27.3	27.8
	8H	28.1	28.9	28.6	29.4	29.9	26.4	27.2	26.9	27.7	28.2
	12H	28.9	29.6	29.4	30.1	30.6	26.8	27.5	27.3	28.0	28.5
12H	4H	26.0	26.9	26.5	27.4	27.9	25.3	26.2	25.8	26.7	27.1
	6H	27.5	28.2	28.0	28.7	29.2	26.2	26.9	26.7	27.4	27.9
	8H	28.3	28.9	28.8	29.4	29.9	26.6	27.3	27.1	27.8	28.3

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 593	H(C0) = 29	H(C180) = 29
			B = 56	H(C90) = 0	H(C270) = 0

C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°	15310.8	14798.3	14609.5	15041.7	15837.2	17377.7	19476.0		
50°	14756.3	14115.3	13813.3	14190.7	14955.7	16847.8	19507.2		
55°	14170.5	13610.8	13421.3	13639.4	14255.4	16228.3	19142.6		
60°	13702.1	13003.6	12689.9	12867.7	13469.7	15523.1	18743.1		
65°	13243.2	12376.0	11904.3	11923.9	12359.0	14528.1	18186.3		
70°	13279.8	12048.1	11216.7	10927.1	10987.0	13368.5	17779.4		
75°	13045.9	11619.3	10607.4	9951.0	9529.6	12126.9	17647.1		
80°	12956.1	11291.3	10057.8	8951.6	7876.8	10623.6	17953.7		
85°	12942.7	11085.7	9693.4	8032.5	6041.5	9224.2	22788.2		

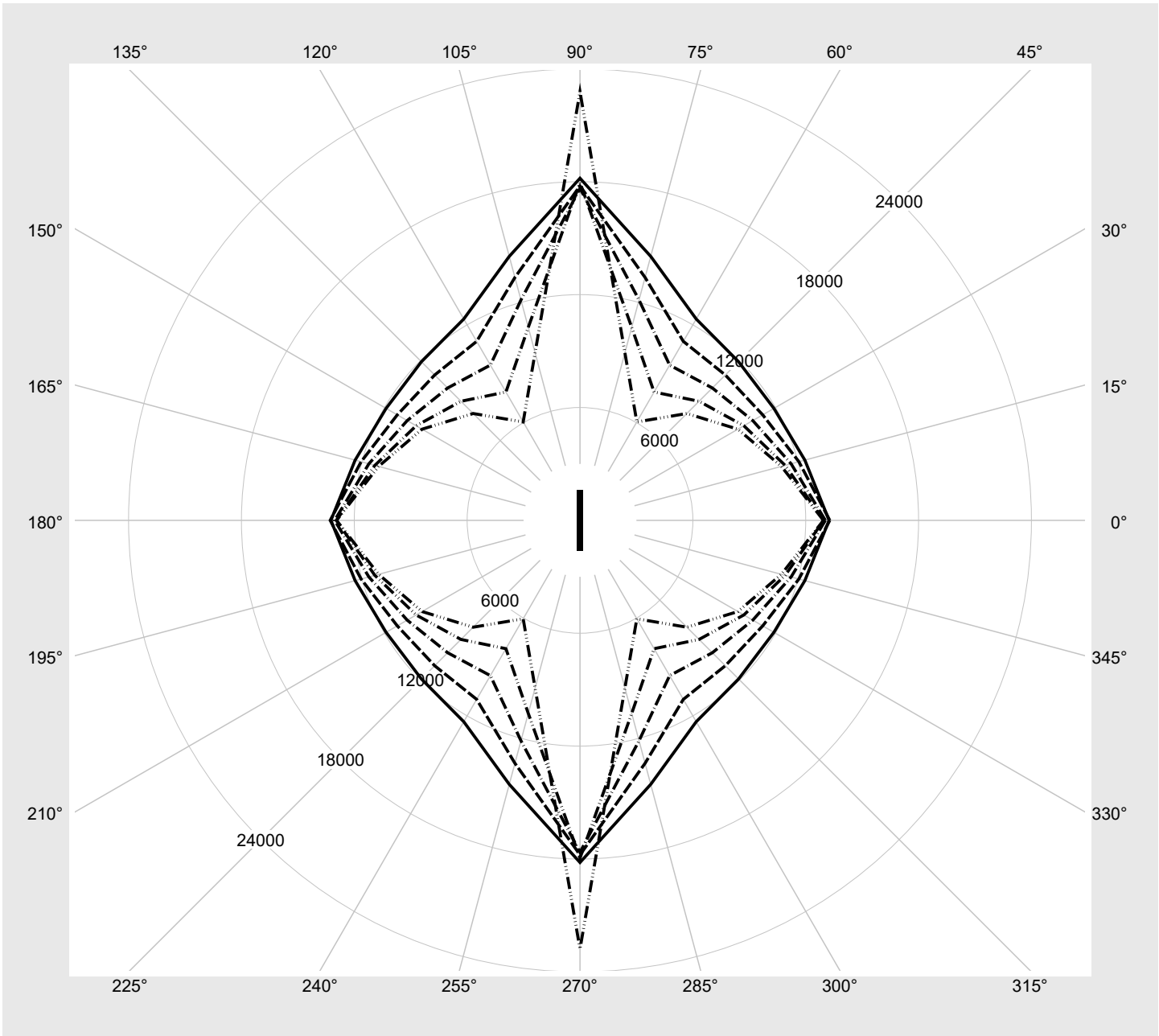
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco



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Multilumen Table	environmental temperature: 25°C	siteco
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DIP-Step	Switch Setting		Luminous flux [lm]	Power consumption [W]
	1	2		
3	ON	ON	2510	20.0
2	ON	OFF	2210	17.0
1	OFF	ON	1870	14.0
0	OFF	OFF	1510	11.0