

## Photometric test report

Family  
Ecopack® 31

Order number: 51LJ12MDM20A  
EAN: 4058352589533

LP number  
59347\_1



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

**Lamps** LED 4000 K | CRI ≥ 80

**Controlgear** ECG Multilumen

**Setting** factory setting: colour temperature 4000K

**Rated values** Net luminous flux = 2600 lm  
Power consumption = 20.0 W  
Luminous efficacy = 130 lm/W

serial  
documentation  
19.08.2022

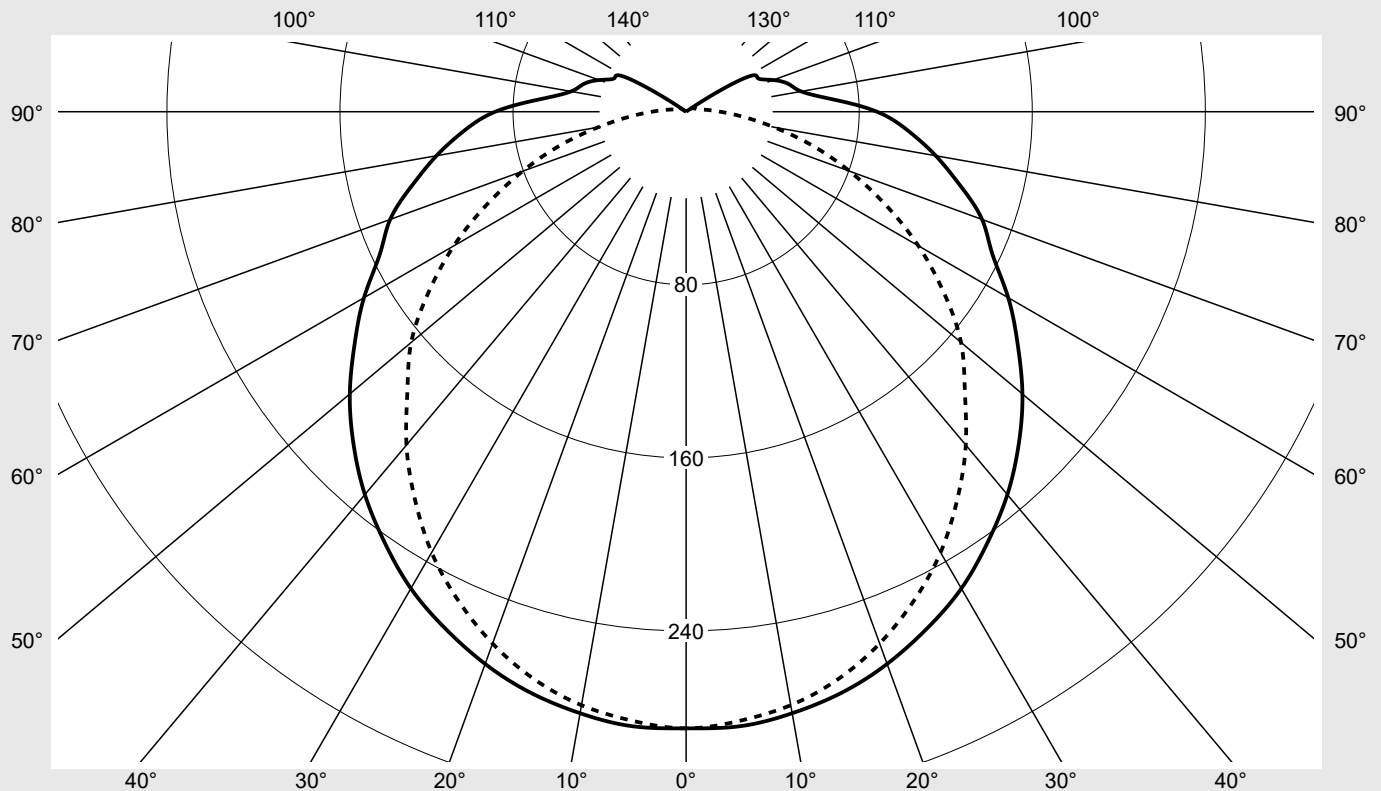
siteco

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

$\eta_{LB}$  100.0%  
 $\phi_u$  92.9%  
 $\phi_o$  7.1%

#### Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
		<b>siteco</b>

C-planes $\gamma$	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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<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	21.7	23.5	22.0	23.8	24.1	21.6	23.3	21.9	23.6	24.0
	3H	23.8	25.4	24.1	25.7	26.1	23.3	24.9	23.6	25.2	25.6
	4H	24.8	26.4	25.2	26.7	27.1	24.0	25.5	24.4	25.9	26.3
	6H	25.9	27.3	26.3	27.7	28.1	24.7	26.1	25.1	26.5	26.8
	8H	26.5	27.8	26.9	28.2	28.6	25.0	26.3	25.4	26.7	27.1
	12H	27.0	28.3	27.4	28.7	29.1	25.3	26.6	25.7	26.9	27.4
4H	2H	22.4	23.9	22.7	24.2	24.6	22.3	23.8	22.7	24.1	24.5
	3H	24.6	25.9	25.0	26.3	26.7	24.1	25.4	24.5	25.8	26.2
	4H	25.8	27.0	26.2	27.4	27.8	24.9	26.1	25.4	26.5	27.0
	6H	27.0	28.1	27.5	28.5	29.0	25.7	26.8	26.1	27.2	27.6
	8H	27.7	28.6	28.1	29.1	29.6	26.0	27.0	26.5	27.5	27.9
	12H	28.3	29.2	28.8	29.6	30.1	26.4	27.3	26.8	27.7	28.2
8H	4H	26.1	27.1	26.6	27.5	28.0	25.3	26.3	25.8	26.7	27.2
	6H	27.5	28.3	28.0	28.8	29.3	26.2	27.0	26.6	27.5	28.0
	8H	28.2	29.0	28.7	29.5	30.0	26.6	27.3	27.0	27.8	28.3
	12H	29.1	29.7	29.6	30.2	30.7	27.0	27.6	27.5	28.1	28.7
12H	4H	26.1	27.1	26.6	27.5	28.0	25.4	26.3	25.9	26.8	27.3
	6H	27.6	28.3	28.1	28.8	29.3	26.3	27.1	26.8	27.5	28.1
	8H	28.4	29.0	28.9	29.5	30.1	26.8	27.4	27.3	27.9	28.4

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

C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		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°		15859.8	15328.9	15133.4	15581.1	16405.0	18000.8	20174.3	
50°		15285.4	14621.4	14308.6	14699.5	15491.9	17451.9	20206.6	
55°		14678.6	14098.8	13902.6	14128.5	14766.5	16810.2	19829.0	
60°		14193.4	13469.8	13144.9	13329.1	13952.7	16079.7	19415.1	
65°		13718.1	12819.8	12331.1	12351.5	12802.1	15049.0	18838.4	
70°		13755.9	12480.1	11618.9	11318.9	11381.0	13847.8	18416.9	
75°		13513.6	12035.9	10987.8	10307.8	9871.3	12561.7	18279.8	
80°		13420.6	11696.2	10418.4	9272.5	8159.3	11004.5	18597.4	
85°		13406.7	11483.2	10040.9	8320.5	6258.1	9554.9	23605.3	

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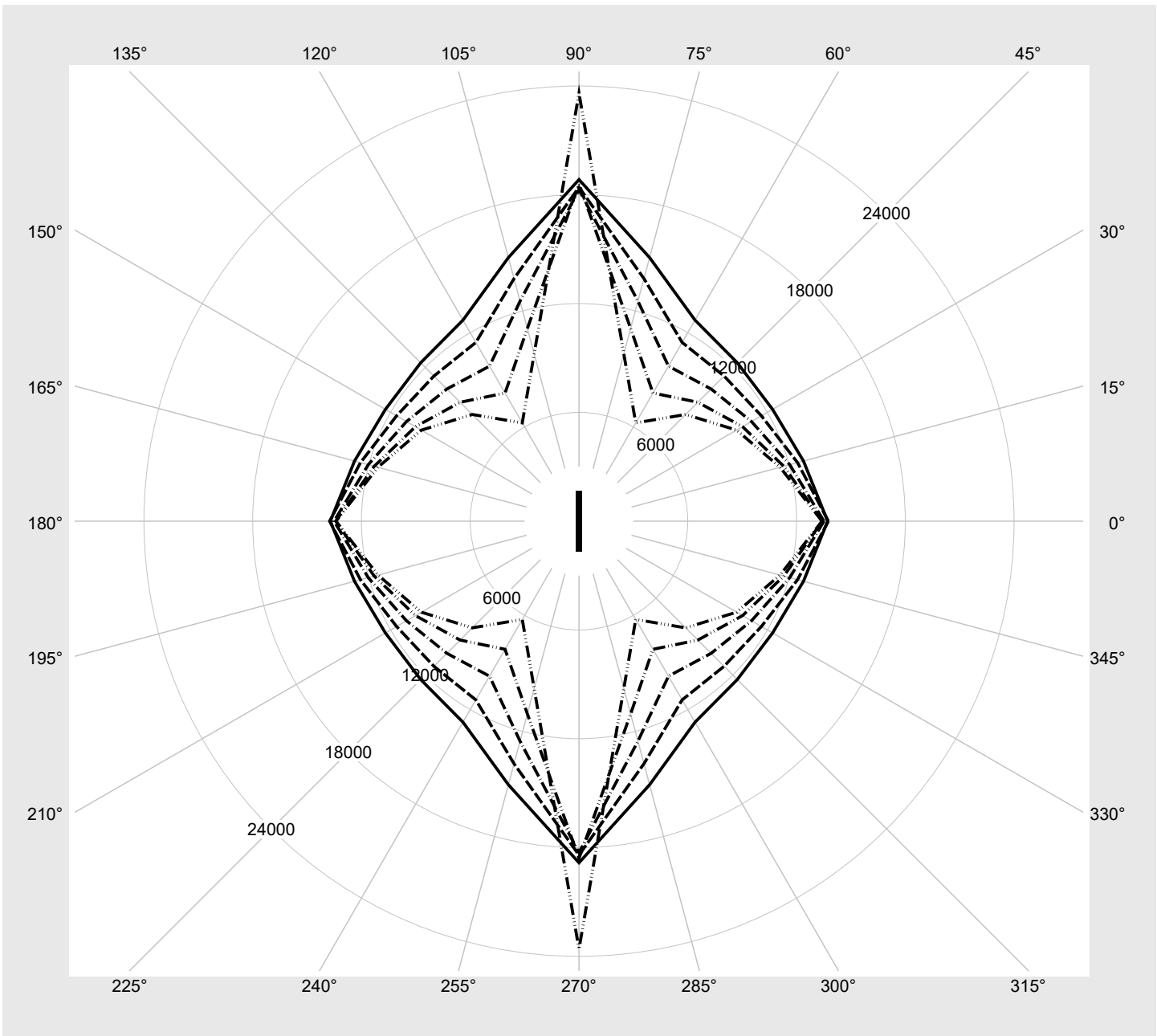
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°  
   $\gamma$  70°  
   $\gamma$  75°  
   $\gamma$  80°  
   $\gamma$  85°



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<b>Multilumen Table</b>	environmental temperature: 25°C	<b>sITeco</b>
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DIP-Step	Switch Setting		Luminous flux [lm]	Power consumption [W]
	1	2		
3	ON	ON	2600	20.0
2	ON	OFF	2310	17.0
1	OFF	ON	1950	14.0
0	OFF	OFF	1580	11.0