

## Photometric test report

Family  
Ecopack® 31

Order number: 51LJ12MNM70A3G  
EAN: 4058352671115

LP number  
59349\_11



**Version** diffuser optic, frosted, polycarbonate,  
adjustable color temperature: 3000K | 4000K |  
5000K, extremely wide distribution, emergency  
light element 3h operating duration

**Lamps** LED 5000 K | CRI ≥ 80

**Controlgear** ECG Multilumen

**Setting** individual position: colour temperature 5000K

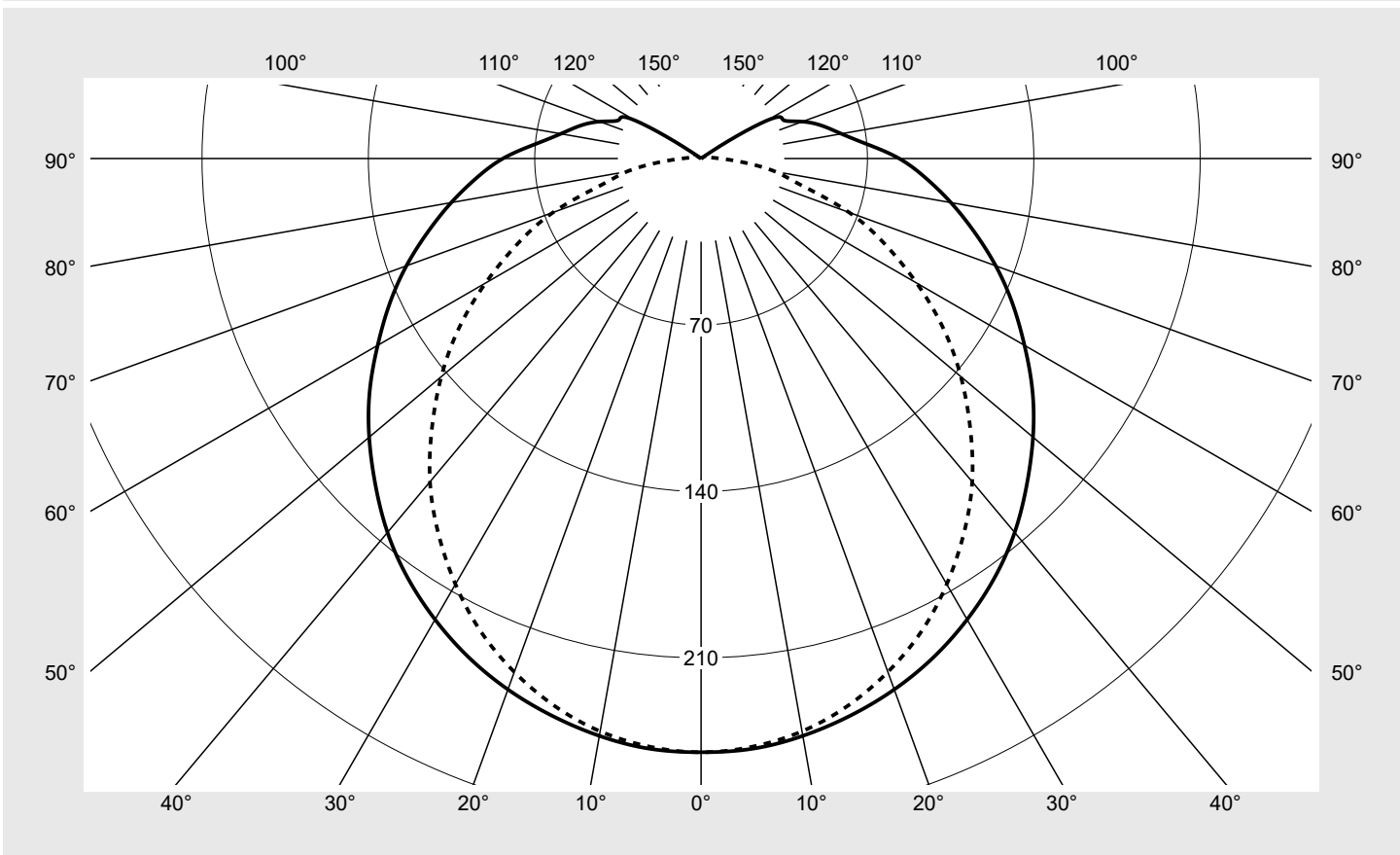
**Rated values** Net luminous flux = 6780 lm  
Power consumption = 51.5 W  
Luminous efficacy = 131.7 lm/W

serial  
documentation  
19.08.2022

siteco

Luminous intensity in cd/klm **C180-0** **C270-90**

Imax: 250 cd/klm



#### Classifications

DIN 5040 B 3 1  
CIE N1=39 N2=67 N3=87  
N4=89 N5=100

#### Luminaire light output ratios

$\eta_{LB}$  100.0%  
 $\phi_u$  89.0%  
 $\phi_o$  11.0%

#### 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 $\gamma$	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
0°	249.7	249.7	249.7	249.7	249.7	249.7	249.7	1.5	1.5
5°	249.2	249.0	248.9	248.9	248.9	248.6	248.3	11.9	13.4
10°	246.5	246.5	246.5	246.0	245.5	245.0	244.6	23.4	36.8
15°	242.6	242.6	242.6	241.2	239.9	239.1	238.3	34.2	71.0
20°	237.6	237.4	237.2	235.0	232.8	231.3	229.8	44.0	114.9
25°	231.4	231.0	230.5	227.1	223.8	221.6	219.4	52.5	167.4
30°	223.9	223.0	222.0	217.4	212.7	209.7	206.7	59.4	226.8
35°	215.3	214.0	212.6	206.8	200.9	196.8	192.7	64.7	291.5
40°	205.3	203.7	202.1	195.0	187.8	182.7	177.5	68.3	359.8
45°	193.8	191.9	190.0	181.6	173.2	166.7	160.1	69.8	429.6
50°	182.3	179.9	177.4	167.8	158.2	150.4	142.7	69.7	499.3
55°	170.2	167.4	164.5	153.6	142.7	133.5	124.4	68.0	567.3
60°	157.1	154.0	150.8	138.5	126.1	115.4	104.7	64.5	631.9
65°	144.6	141.2	137.8	124.2	110.6	98.0	85.5	60.2	692.1
70°	131.9	128.3	124.7	110.2	95.8	81.0	66.3	54.9	746.9
75°	119.0	115.0	111.1	96.0	80.9	62.5	44.0	48.3	795.2
80°	106.8	102.9	99.0	83.5	67.9	49.8	31.7	42.5	837.7
85°	95.0	91.2	87.4	74.0	60.5	39.0	17.4	37.1	874.8
90°	83.4	79.7	76.0	61.4	46.8	27.4	8.1	30.8	905.6
95°	69.9	64.9	59.9	48.7	37.5	20.9	4.4	24.5	930.1
100°	59.9	54.9	50.0	38.0	26.1	14.5	2.9	19.3	949.4
105°	53.0	49.1	45.3	33.5	21.6	12.2	2.8	16.7	966.2
110°	45.4	42.3	39.1	28.4	17.7	10.2	2.7	13.9	980.1
115°	38.2	35.7	33.2	23.7	14.2	8.4	2.5	11.2	991.3
120°	31.9	29.5	27.1	19.0	10.8	6.7	2.5	8.7	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	21.5	23.2	21.9	23.5	24.0	21.0	22.7	21.4	23.1	23.5
	3H	23.5	25.1	24.0	25.5	25.9	22.7	24.3	23.2	24.7	25.2
	4H	24.5	26.0	25.0	26.4	26.9	23.3	24.8	23.8	25.2	25.7
	6H	25.5	26.8	26.0	27.3	27.8	23.9	25.2	24.3	25.7	26.2
	8H	26.0	27.2	26.5	27.7	28.3	24.1	25.4	24.6	25.9	26.4
	12H	26.5	27.6	27.0	28.1	28.7	24.3	25.5	24.8	26.0	26.5
4H	2H	22.2	23.7	22.7	24.1	24.6	21.8	23.3	22.3	23.7	24.2
	3H	24.5	25.7	25.0	26.2	26.8	23.7	25.0	24.2	25.5	26.0
	4H	25.6	26.8	26.2	27.3	27.9	24.5	25.7	25.1	26.2	26.8
	6H	26.8	27.8	27.3	28.3	28.9	25.3	26.3	25.8	26.8	27.4
	8H	27.4	28.3	27.9	28.9	29.5	25.6	26.6	26.2	27.1	27.7
	12H	27.9	28.7	28.5	29.3	30.0	25.8	26.7	26.4	27.3	27.9
8H	4H	26.0	27.0	26.6	27.6	28.2	25.1	26.0	25.7	26.6	27.2
	6H	27.4	28.2	28.0	28.8	29.5	26.1	26.9	26.7	27.5	28.1
	8H	28.1	28.9	28.7	29.5	30.1	26.6	27.3	27.2	27.9	28.6
	12H	28.8	29.4	29.5	30.1	30.8	27.0	27.6	27.6	28.2	28.9
12H	4H	26.1	26.9	26.7	27.5	28.2	25.2	26.0	25.8	26.6	27.3
	6H	27.5	28.2	28.1	28.8	29.5	26.3	27.0	26.9	27.6	28.3
	8H	28.3	28.9	28.9	29.6	30.3	26.9	27.5	27.5	28.1	28.8

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1443</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>

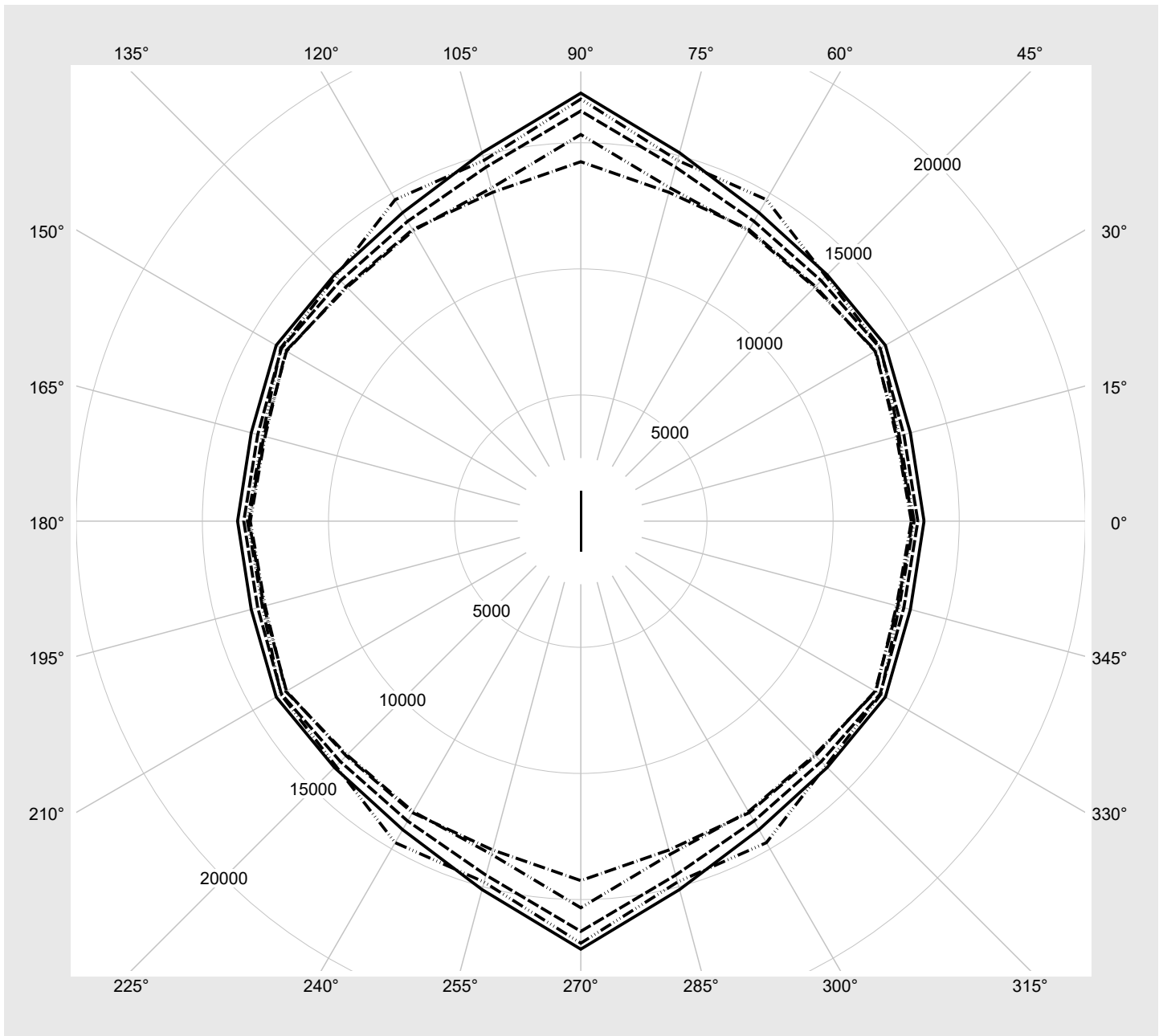
C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		15153.8	15178.8	15562.2	15771.8	16325.7	17439.6	19001.0	
50°		14716.0	14707.9	15088.6	15247.4	15780.1	16933.1	18626.3	
55°		14312.9	14279.4	14667.7	14752.8	15238.7	16396.1	18195.4	
60°		13899.9	13844.5	14245.3	14219.6	14612.3	15719.9	17573.1	
65°		13605.2	13524.2	13941.0	13811.0	14122.2	15119.7	16967.2	
70°		13359.8	13257.2	13702.1	13478.4	13726.7	14526.5	16260.0	
75°		13150.1	13008.5	13472.1	13154.5	13345.4	13494.8	14248.1	
80°		13102.2	12956.0	13500.4	13106.5	13292.7	13674.2	15324.9	
85°		13214.4	13067.5	13733.0	13730.6	14715.9	14810.5	16730.3	

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

γ 65°
γ 70°
γ 75°
γ 80°
γ 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	6780	51.5
2	ON	OFF	5940	43.5
1	OFF	ON	5010	35.5
0	OFF	OFF	4070	28.5