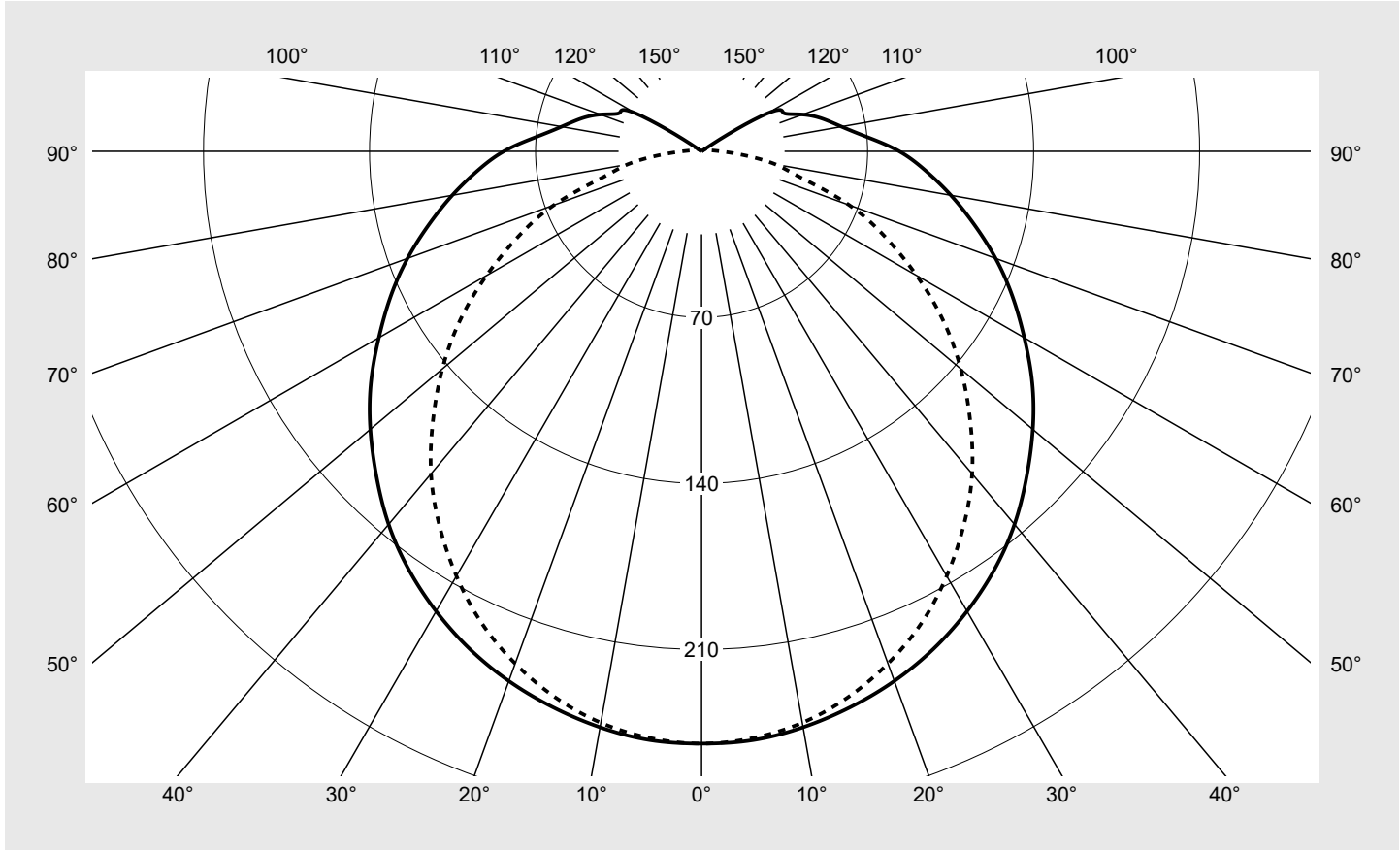


# Photometric test report

<b>Family</b> <b>Ecopack® 31</b>	<b>Order number: 51LJ12MNM70A3G</b> <b>EAN: 4058352671115</b>	<b>LP number</b> <b>59349_10</b>
	<b>Version</b> diffuser optic, frosted, polycarbonate, adjustable color temperature: 3000K   4000K   5000K, extremely wide distribution, emergency light element 3h operating duration	<b>serial</b> <b>documentation</b> <b>19.08.2022</b>
	<b>Lamps</b> LED 3000 K   CRI ≥ 80 <b>Controlgear</b> ECG Multilumen <b>Setting</b> individual position: colour temperature 3000K <b>Rated values</b> Net luminous flux = 6320 lm Power consumption = 51.5 W Luminous efficacy = 122.7 lm/W	

**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°	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°	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	21.2	22.9	21.6	23.3	23.7	20.8	22.5	21.2	22.9	23.3
	3H	23.3	24.8	23.7	25.2	25.7	22.5	24.0	22.9	24.5	24.9
	4H	24.3	25.7	24.7	26.2	26.7	23.1	24.6	23.5	25.0	25.5
	6H	25.3	26.6	25.8	27.1	27.6	23.6	25.0	24.1	25.5	26.0
	8H	25.8	27.0	26.3	27.5	28.0	23.9	25.2	24.4	25.6	26.2
	12H	26.2	27.4	26.7	27.9	28.5	24.0	25.3	24.5	25.8	26.3
4H	2H	22.0	23.4	22.4	23.9	24.3	21.6	23.0	22.1	23.5	24.0
	3H	24.2	25.5	24.7	26.0	26.5	23.5	24.7	24.0	25.2	25.8
	4H	25.4	26.5	25.9	27.1	27.6	24.3	25.4	24.8	26.0	26.5
	6H	26.5	27.5	27.1	28.1	28.7	25.0	26.0	25.6	26.6	27.2
	8H	27.1	28.0	27.7	28.6	29.2	25.4	26.3	25.9	26.9	27.5
	12H	27.7	28.5	28.3	29.1	29.7	25.6	26.5	26.2	27.0	27.7
8H	4H	25.8	26.8	26.4	27.3	27.9	24.9	25.8	25.4	26.3	27.0
	6H	27.2	28.0	27.8	28.6	29.2	25.9	26.6	26.4	27.2	27.9
	8H	27.9	28.6	28.5	29.2	29.9	26.3	27.0	26.9	27.6	28.3
	12H	28.6	29.2	29.2	29.8	30.5	26.7	27.4	27.4	28.0	28.7
12H	4H	25.8	26.7	26.4	27.3	27.9	25.0	25.8	25.6	26.4	27.0
	6H	27.3	28.0	27.9	28.6	29.3	26.0	26.7	26.7	27.3	28.0
	8H	28.1	28.7	28.7	29.3	30.0	26.6	27.2	27.3	27.9	28.6

<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°	14125.6	14149.0	14506.3	14701.7	15218.1	16256.4	17711.9
	50°	13717.6	13710.0	14064.9	14213.0	14709.4	15784.2	17362.5
	55°	13341.8	13310.6	13672.6	13751.9	14204.8	15283.7	16960.9
	60°	12956.9	12905.2	13278.8	13254.9	13620.9	14653.3	16380.8
	65°	12682.1	12606.6	12995.2	12874.0	13164.0	14093.8	15816.0
	70°	12453.4	12357.7	12772.5	12563.9	12795.4	13541.0	15156.8
	75°	12257.9	12125.9	12558.1	12262.0	12440.0	12579.2	13281.4
	80°	12213.3	12077.0	12584.4	12217.3	12390.8	12746.5	14285.1
	85°	12317.8	12181.0	12801.3	12799.0	13717.5	13805.7	15595.2

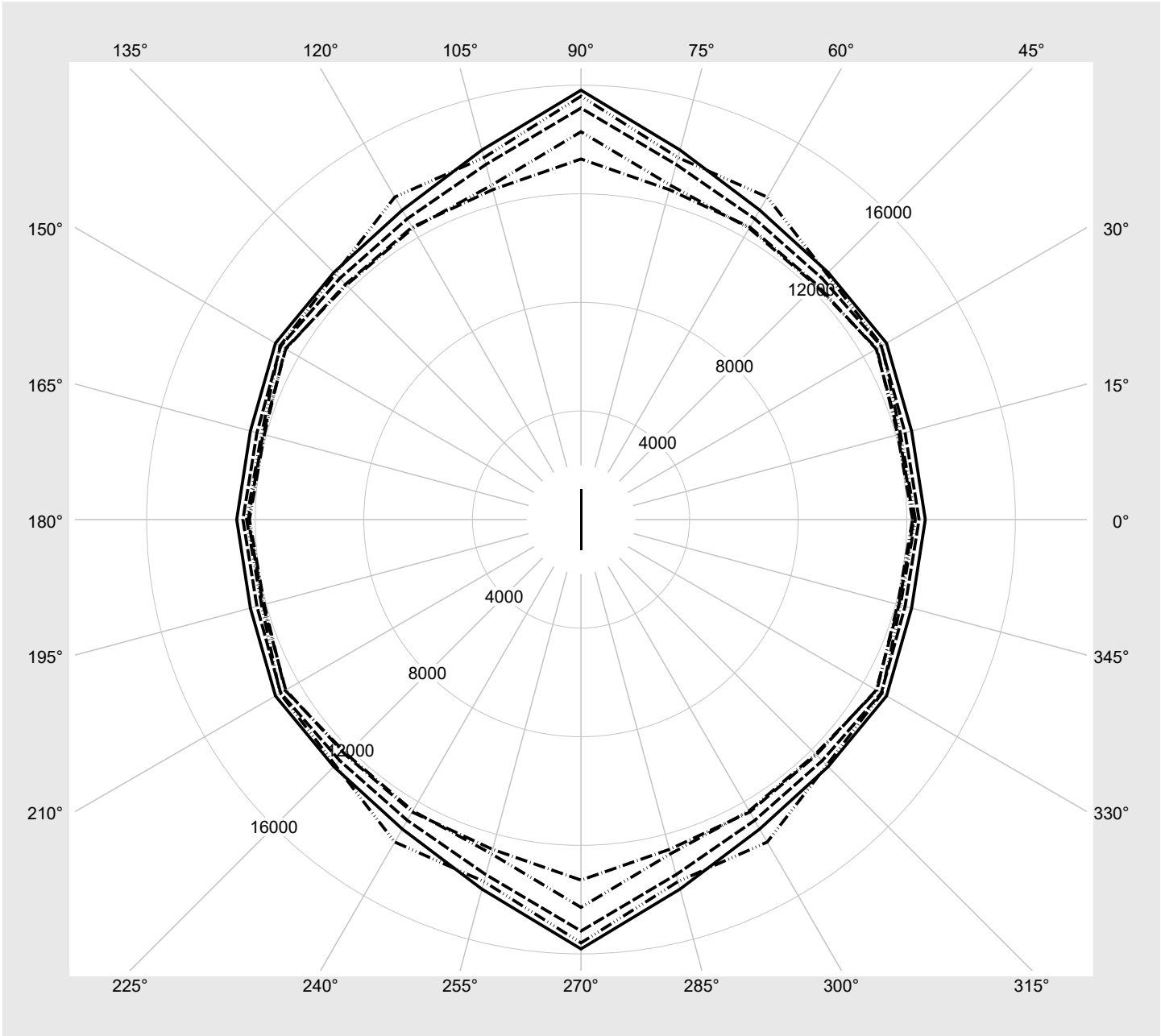
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**Luminance values in cd/m²**

$\gamma$  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	6320	51.5
2	ON	OFF	5460	43.5
1	OFF	ON	4620	35.5
0	OFF	OFF	3770	28.5