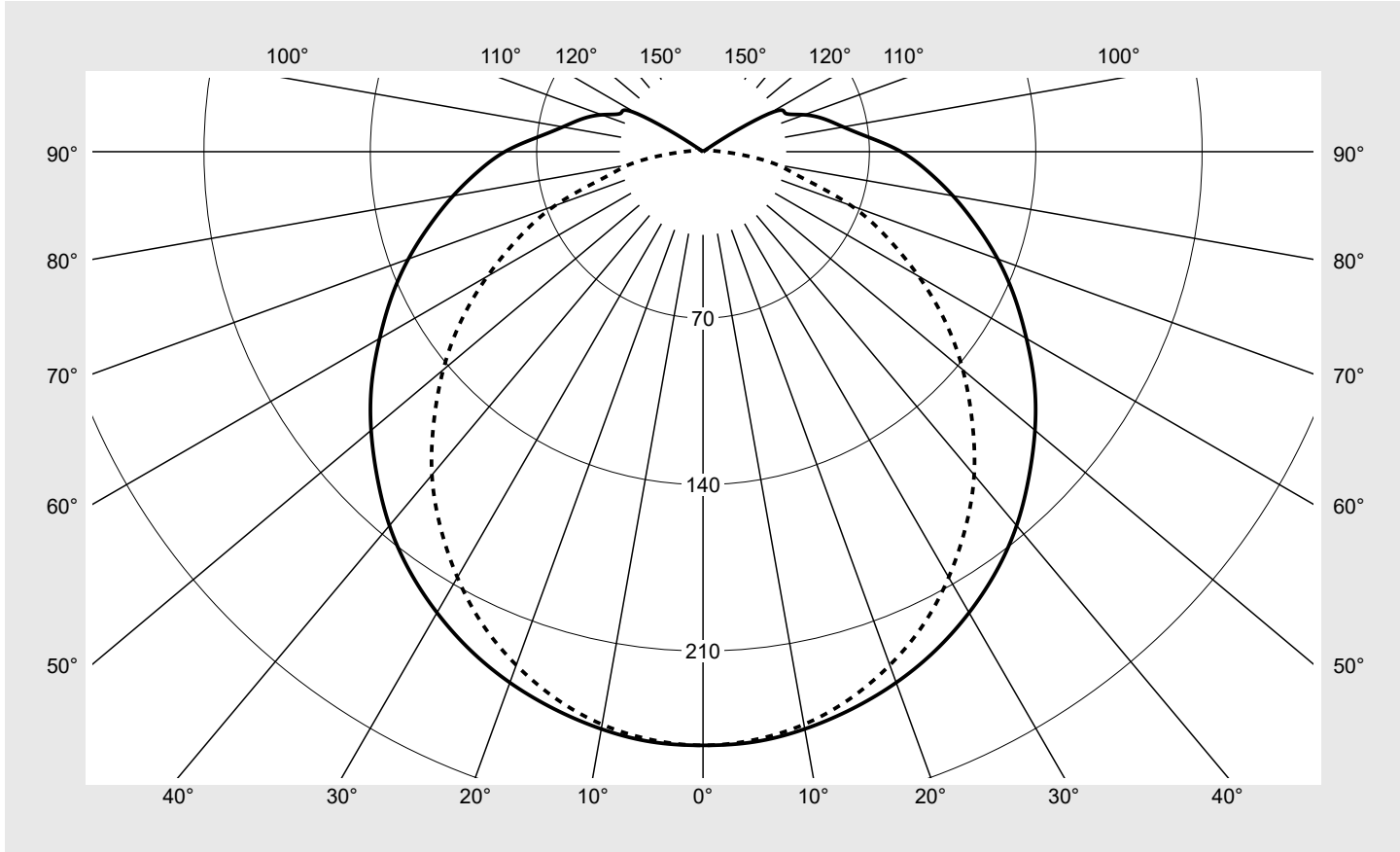


Photometric test report

Family Ecopack® 31	Order number: 51LJ12MNM70A EAN: 4058352589595	LP number 59349_3
	Version diffuser optic, frosted, polycarbonate, adjustable color temperature: 3000K 4000K 5000K, extremely wide distribution	serial documentation 19.08.2022
	Lamps LED 3000 K CRI ≥ 80	
Controlgear ECG Multilumen		
Setting individual position: colour temperature 3000K		
Rated values Net luminous flux = 6320 lm Power consumption = 50.0 W Luminous efficacy = 126.4 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	
η_{LB}	100.0%
ϕ_u	89.0%
ϕ_o	11.0%

Measurement conditions
 DIN EN 13032 and DIN 5032

Photometric test report

Family Ecopack® 31	Order number: 51LJ12MNM70A EAN: 4058352589595	LP number 59349_3
Table of values for luminous intensities		Maximum luminous intensity
		sITeco

C-planes γ	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

Photometric test report

Family Ecopack® 31	Order number: 51LJ12MNM70A EAN: 4058352589595	LP number 59349_3
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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	21.2	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

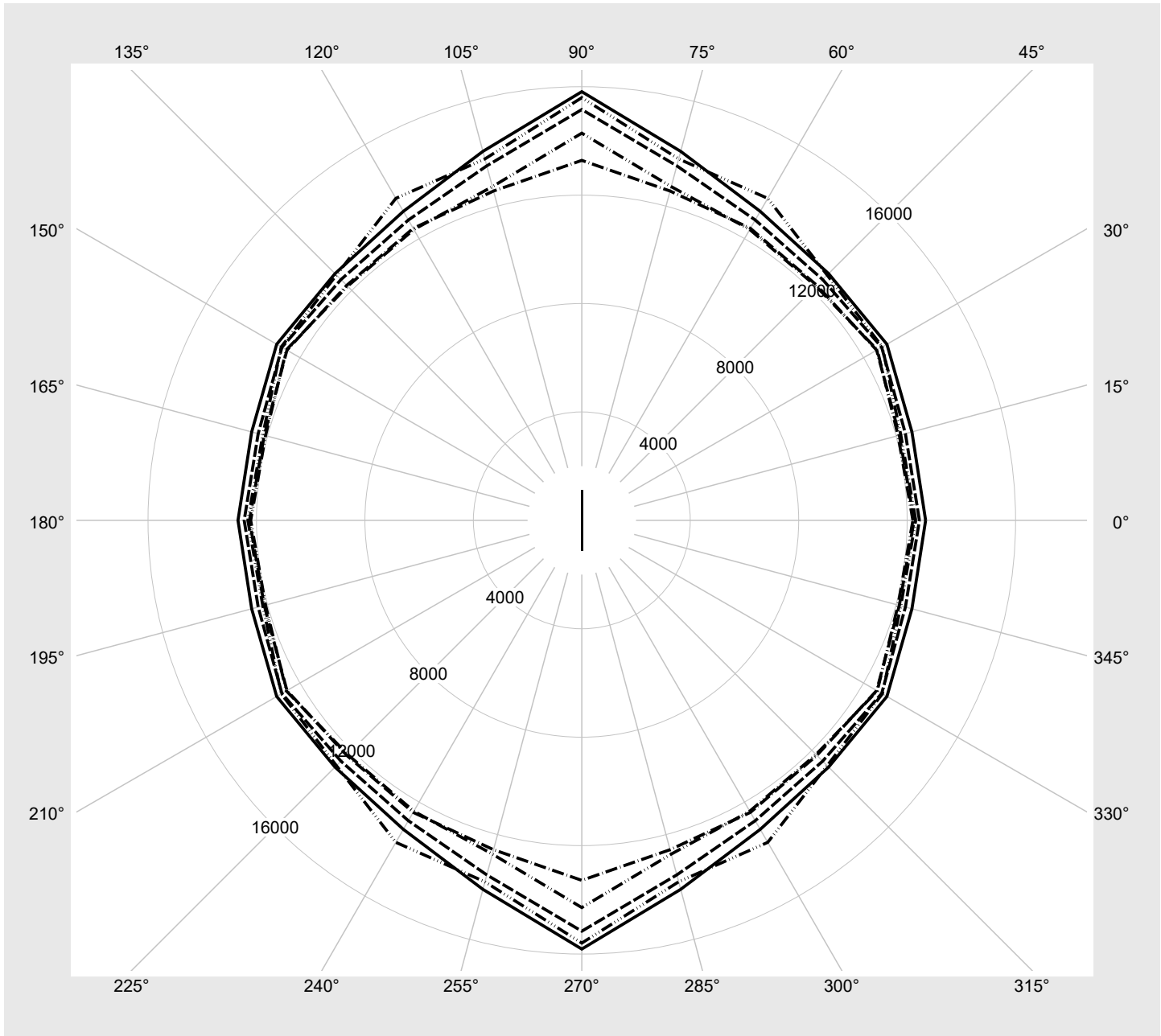
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1443	H(C0) = 29	H(C180) = 29
			B = 56	H(C90) = 0	H(C270) = 0

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°		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

Photometric test report

Family Ecopack® 31	Order number: 51LJ12MNM70A EAN: 4058352589595	LP number 59349_3
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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



Photometric test report

Family Ecopack® 31	Order number: 51LJ12MNM70A EAN: 4058352589595	LP number 59349_3
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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	6320	50.0
2	ON	OFF	5460	42.0
1	OFF	ON	4620	34.0
0	OFF	OFF	3770	27.0