

## Photometric test report

Family  
Ecopack® 31

Order number: 51LJ12MKM40A3G  
EAN: 4058352671085

LP number  
59348\_9



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

**Lamps** LED 4000 K | CRI ≥ 80

**Controlgear** ECG Multilumen

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

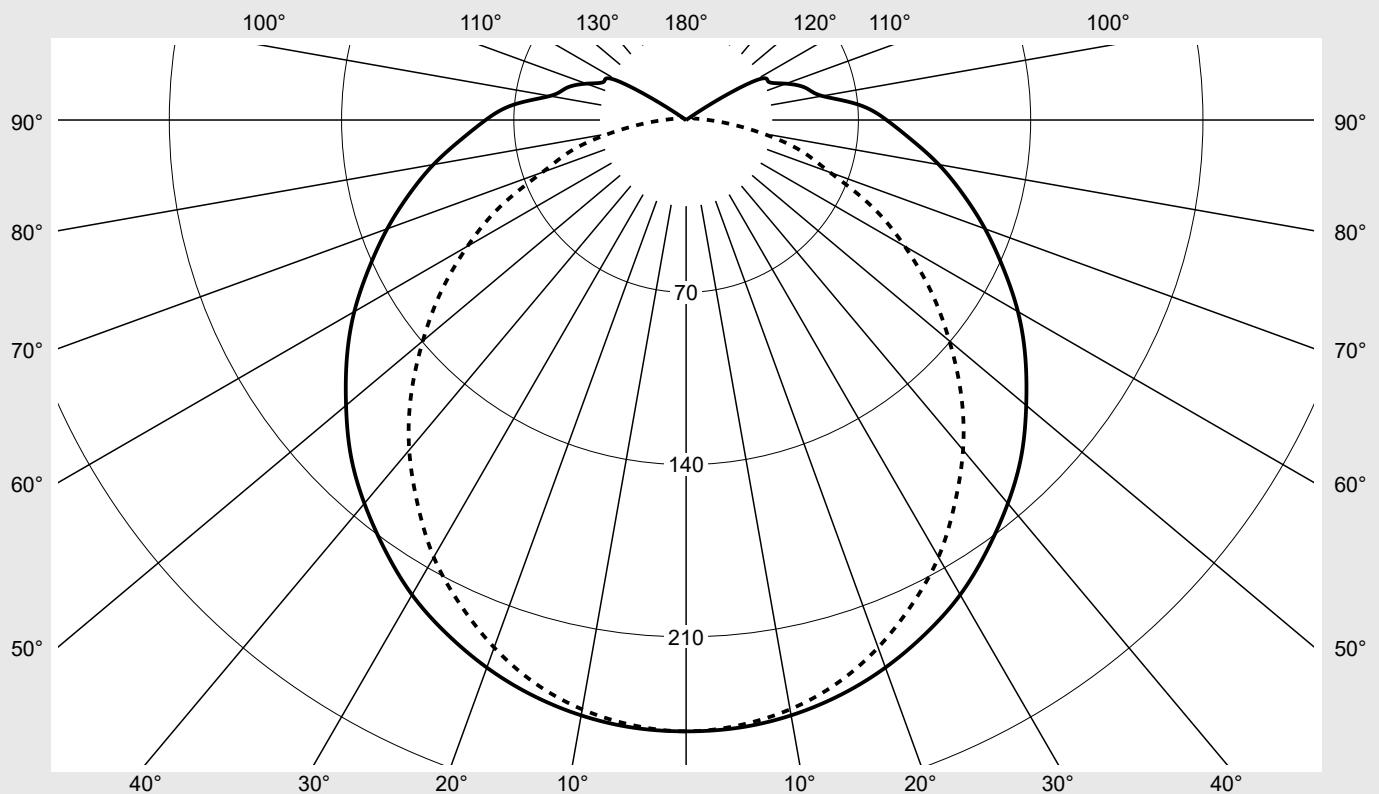
**Rated values** Net luminous flux = 4900 lm  
Power consumption = 36.5 W  
Luminous efficacy = 134.2 lm/W

serial  
documentation  
19.08.2022

siteco

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

Imax: 248 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%  
 $\phi_u$  88.8%  
 $\phi_o$  11.2%

### Measurement conditions

DIN EN 13032 and DIN 5032

## Photometric test report

Family <b>Ecopack® 31</b>	Order number: <b>51LJ12MKM40A3G</b> EAN: <b>4058352671085</b>	LP number <b>59348_9</b>
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°	248.4	248.4	248.4	248.4	248.4	248.4	248.4	1.5	1.5
5°	247.8	248.0	248.2	247.6	247.0	246.9	246.9	11.8	13.3
10°	245.6	246.0	246.3	244.9	243.5	243.3	243.2	23.3	36.6
15°	241.9	242.3	242.7	240.5	238.4	237.7	237.0	34.1	70.7
20°	236.8	237.0	237.1	234.0	230.9	229.5	228.1	43.8	114.5
25°	230.3	230.4	230.5	226.1	221.8	219.5	217.2	52.2	166.7
30°	222.7	222.6	222.5	216.9	211.3	208.2	205.1	59.2	225.8
35°	213.3	213.1	212.8	205.7	198.6	194.5	190.3	64.3	290.1
40°	203.4	202.9	202.5	193.9	185.3	180.1	175.0	67.8	357.8
45°	192.7	192.1	191.5	181.3	171.1	164.6	158.1	69.5	427.3
50°	180.4	179.6	178.8	167.2	155.7	147.7	139.7	69.2	496.6
55°	168.3	167.2	166.2	153.2	140.3	130.9	121.5	67.6	564.1
60°	155.7	154.5	153.3	139.2	125.1	113.8	102.5	64.5	628.6
65°	142.1	141.2	140.3	124.9	109.4	96.4	83.4	60.0	688.6
70°	129.3	128.0	126.8	110.8	94.9	78.6	62.2	54.5	743.1
75°	116.5	115.1	113.8	97.8	81.8	65.0	48.3	49.1	792.2
80°	104.3	102.8	101.4	86.0	70.6	51.1	31.7	43.2	835.4
85°	91.9	90.5	89.2	73.8	58.4	38.0	17.7	36.8	872.2
90°	81.5	79.6	77.8	62.8	47.8	28.4	9.1	31.2	903.4
95°	70.6	66.3	62.0	50.4	38.9	22.1	5.3	25.3	928.7
100°	56.2	54.3	52.5	39.2	26.0	14.7	3.5	19.5	948.1
105°	50.3	48.5	46.6	34.6	22.7	12.9	3.1	16.9	965.1
110°	43.2	41.8	40.4	29.8	19.3	11.1	2.9	14.2	979.3
115°	36.9	35.3	33.8	24.8	15.9	9.4	2.8	11.5	990.8
120°	31.0	29.8	28.6	20.6	12.7	7.7	2.6	9.2	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 <b>Ecopack® 31</b>	Order number: <b>51LJ12MKM40A3G</b> EAN: <b>4058352671085</b>	LP number <b>59348_9</b>
------------------------------	--	-----------------------------

<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
------------------	----------------------	---------------

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	21.1	22.9	21.6	23.2	23.7	20.6	22.3	21.0	22.7	23.1
	3H	23.2	24.7	23.6	25.2	25.6	22.3	23.8	22.7	24.2	24.7
	4H	24.2	25.6	24.6	26.1	26.6	23.0	24.4	23.4	24.9	25.3
	6H	25.1	26.4	25.6	26.9	27.5	23.5	24.9	24.0	25.4	25.9
	8H	25.6	26.9	26.1	27.4	27.9	23.8	25.1	24.3	25.6	26.1
	12H	26.0	27.2	26.6	27.7	28.3	23.9	25.2	24.4	25.7	26.2
4H	2H	21.9	23.4	22.4	23.8	24.3	21.5	22.9	21.9	23.4	23.8
	3H	24.2	25.4	24.7	25.9	26.5	23.3	24.6	23.8	25.1	25.6
	4H	25.3	26.5	25.9	27.0	27.6	24.2	25.3	24.7	25.9	26.4
	6H	26.4	27.4	27.0	28.0	28.6	25.0	26.0	25.5	26.5	27.1
	8H	27.0	27.9	27.6	28.5	29.1	25.3	26.3	25.9	26.8	27.4
	12H	27.5	28.3	28.1	28.9	29.6	25.5	26.4	26.1	27.0	27.6
8H	4H	25.8	26.7	26.3	27.3	27.9	24.8	25.7	25.4	26.3	26.9
	6H	27.1	27.9	27.7	28.5	29.2	25.8	26.6	26.4	27.2	27.9
	8H	27.8	28.5	28.4	29.1	29.8	26.3	27.0	26.9	27.6	28.3
	12H	28.5	29.1	29.1	29.7	30.5	26.7	27.3	27.3	27.9	28.7
12H	4H	25.8	26.6	26.4	27.2	27.9	24.9	25.7	25.5	26.3	27.0
	6H	27.2	27.9	27.8	28.6	29.2	26.0	26.7	26.7	27.3	28.0
	8H	28.0	28.6	28.6	29.3	30.0	26.6	27.2	27.2	27.8	28.6

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1142</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>

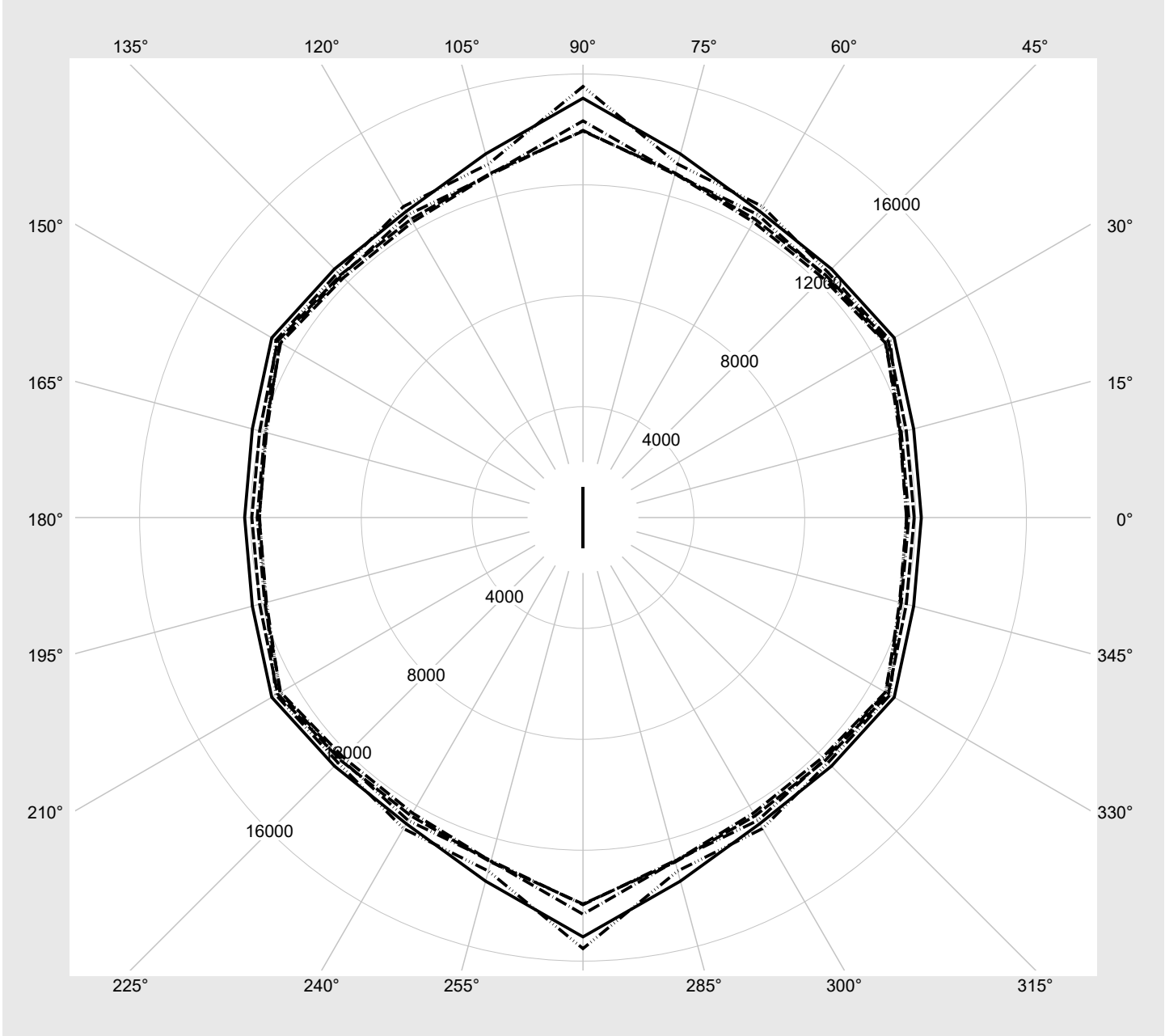
C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>								
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°		
45°		13755.8	13872.8	14321.9	14378.9	14729.5	15727.4	17127.2		
50°		13296.0	13410.7	13886.5	13876.8	14180.9	15177.4	16646.6		
55°		12921.5	13029.7	13531.1	13441.6	13684.2	14679.4	16234.1		
60°		12576.1	12684.1	13220.9	13050.3	13230.4	14153.3	15714.1		
65°		12209.4	12353.0	12967.9	12680.5	12754.4	13578.3	15125.5		
70°		11951.4	12078.5	12723.1	12377.7	12423.0	12864.0	13941.5		
75°		11757.3	11889.4	12600.2	12230.7	12307.7	12834.9	14308.9		
80°		11685.5	11825.7	12626.7	12332.0	12616.2	12813.7	13965.6		
85°		11675.1	11847.8	12796.4	12505.1	12955.3	13200.0	15548.0		

**Photometric test report**

<b>Family</b> <b>Ecopack® 31</b>	<b>Order number: 51LJ12MKM40A3G</b> <b>EAN: 4058352671085</b>	<b>LP number</b> <b>59348_9</b>
-------------------------------------	--	------------------------------------




**Luminance values in cd/m<sup>2</sup>**    γ 65°    γ 70°    γ 75°    γ 80°    γ 85°



### Photometric test report

<b>Family</b> <b>Ecopack® 31</b>	<b>Order number: 51LJ12MKM40A3G</b> <b>EAN: 4058352671085</b>	<b>LP number</b> <b>59348_9</b>
-------------------------------------	--	------------------------------------

<b>Multilumen Table</b>	environmental temperature: 25°C	
-------------------------	---------------------------------	---

DIP-Step	1	Switch Setting2	Luminous flux [lm]	Power consumption [W]
3	ON	ON	4900	36.5
2	ON	OFF	4220	31.5
1	OFF	ON	3510	26.5
0	OFF	OFF	2830	21.5