

## Photometric test report

Family  
**Ecopack® 31**

Order number: **51LJ12MKM40A**  
EAN: **4058352589564**

LP number  
**59348\_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

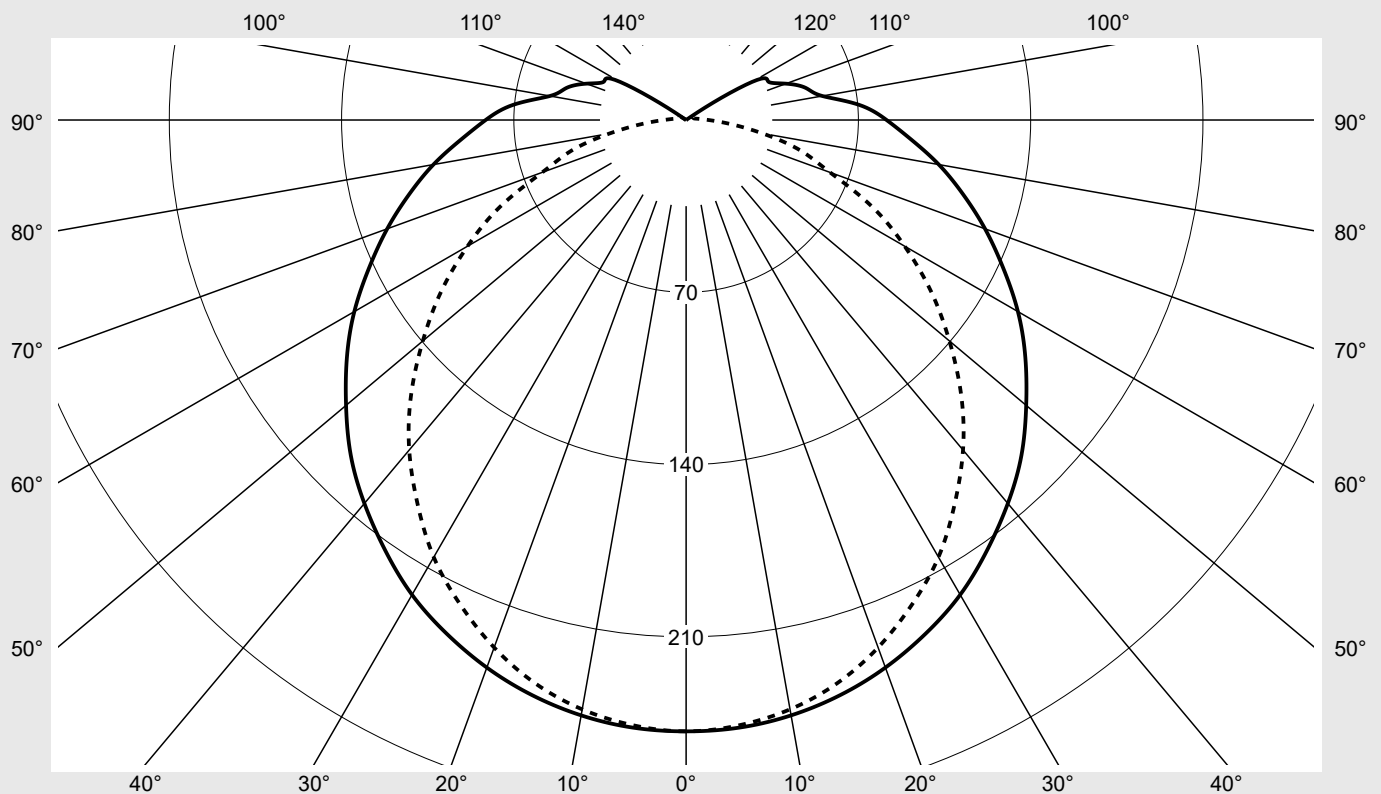
**Rated values** Net luminous flux = 4900 lm  
Power consumption = 35.0 W  
Luminous efficacy = 140 lm/W

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

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

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°	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

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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	21.1	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

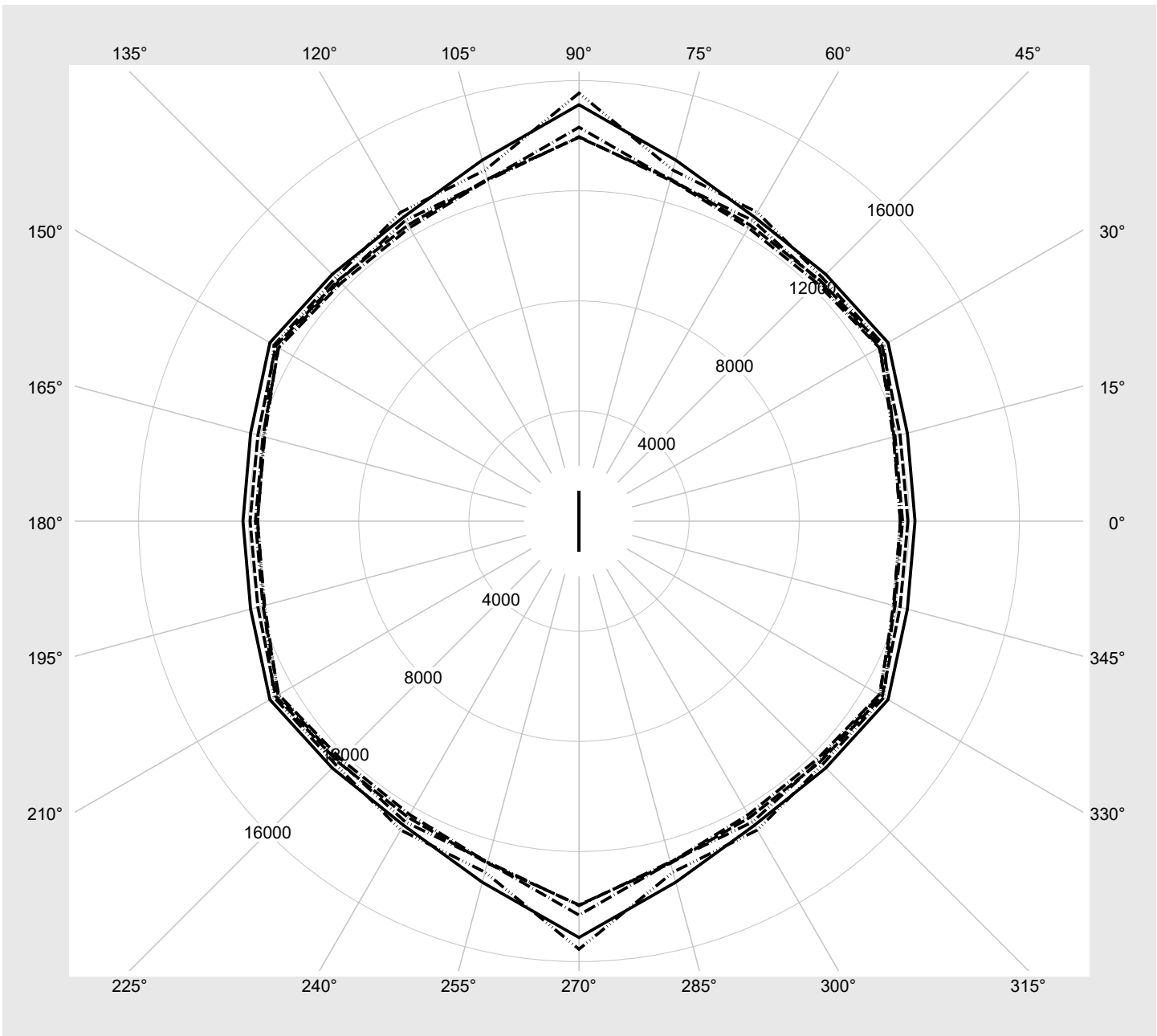
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1142</b>	<b>H(C0) = 29</b>	<b>H(C180) = 29</b>
			<b>B = 56</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

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		

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



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<b>Multilumen Table</b>	environmental temperature: 25°C	
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DIP-Step	Switch Setting		Luminous flux [lm]	Power consumption [W]
	1	2		
3	ON	ON	4900	35.0
2	ON	OFF	4220	30.0
1	OFF	ON	3510	25.0
0	OFF	OFF	2830	20.0