

## Photometric test report

Family  
Ecopack® 31

Order number: 51LJ12MKM40A  
EAN: 4058352589564

LP number  
59348\_3



**Version** diffuser optic, frosted, polycarbonate,  
adjustable color temperature: 3000K | 4000K |  
5000K, extremely wide distribution

**Lamps** LED 3000 K | CRI ≥ 80

**Controlgear** ECG Multilumen

**Setting** individual position: colour temperature 3000K

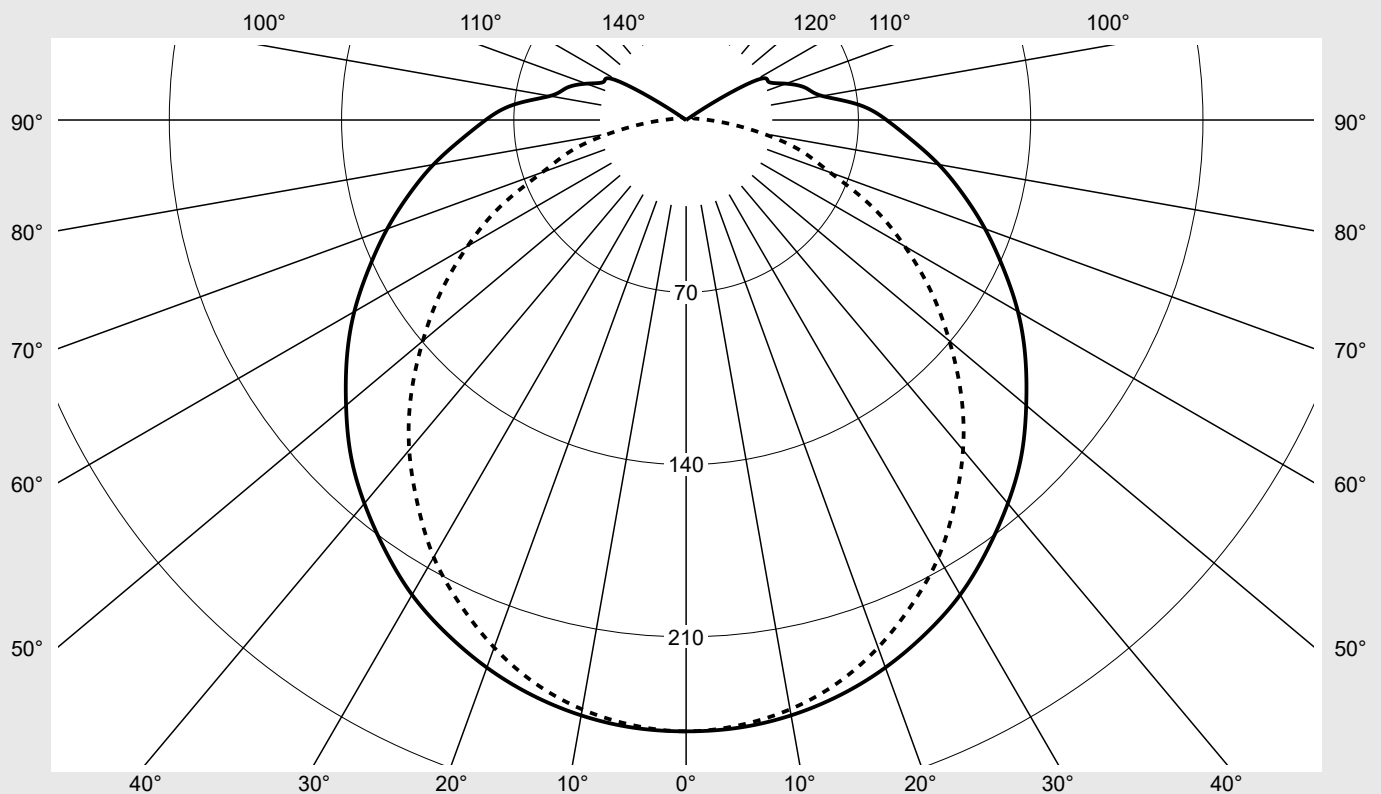
**Rated values** Net luminous flux = 4590 lm  
Power consumption = 35.0 W  
Luminous efficacy = 131.1 lm/W

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>



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

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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	20.9	22.6	21.3	23.0	23.4	20.4	22.1	20.8	22.5	22.9
	3H	23.0	24.5	23.4	24.9	25.4	22.0	23.6	22.5	24.0	24.5
	4H	23.9	25.4	24.4	25.8	26.3	22.7	24.2	23.2	24.6	25.1
	6H	24.9	26.2	25.4	26.7	27.2	23.3	24.7	23.8	25.2	25.7
	8H	25.4	26.6	25.9	27.1	27.7	23.6	24.9	24.0	25.3	25.9
	12H	25.8	27.0	26.3	27.5	28.1	23.7	25.0	24.2	25.5	26.0
4H	2H	21.7	23.1	22.1	23.6	24.1	21.2	22.7	21.7	23.1	23.6
	3H	23.9	25.2	24.4	25.7	26.2	23.1	24.3	23.6	24.8	25.4
	4H	25.1	26.2	25.6	26.8	27.3	24.0	25.1	24.5	25.6	26.2
	6H	26.2	27.2	26.8	27.8	28.4	24.7	25.8	25.3	26.3	26.9
	8H	26.8	27.7	27.4	28.3	28.9	25.1	26.0	25.7	26.6	27.2
	12H	27.3	28.1	27.9	28.7	29.4	25.3	26.2	25.9	26.8	27.4
8H	4H	25.5	26.5	26.1	27.0	27.6	24.6	25.5	25.1	26.1	26.7
	6H	26.9	27.7	27.5	28.3	29.0	25.6	26.4	26.2	27.0	27.7
	8H	27.6	28.3	28.2	28.9	29.6	26.1	26.8	26.7	27.4	28.1
	12H	28.3	28.9	28.9	29.5	30.2	26.5	27.1	27.1	27.7	28.4
12H	4H	25.6	26.4	26.1	27.0	27.6	24.7	25.5	25.3	26.1	26.7
	6H	27.0	27.7	27.6	28.3	29.0	25.8	26.5	26.4	27.1	27.8
	8H	27.8	28.4	28.4	29.0	29.7	26.4	27.0	27.0	27.6	28.3

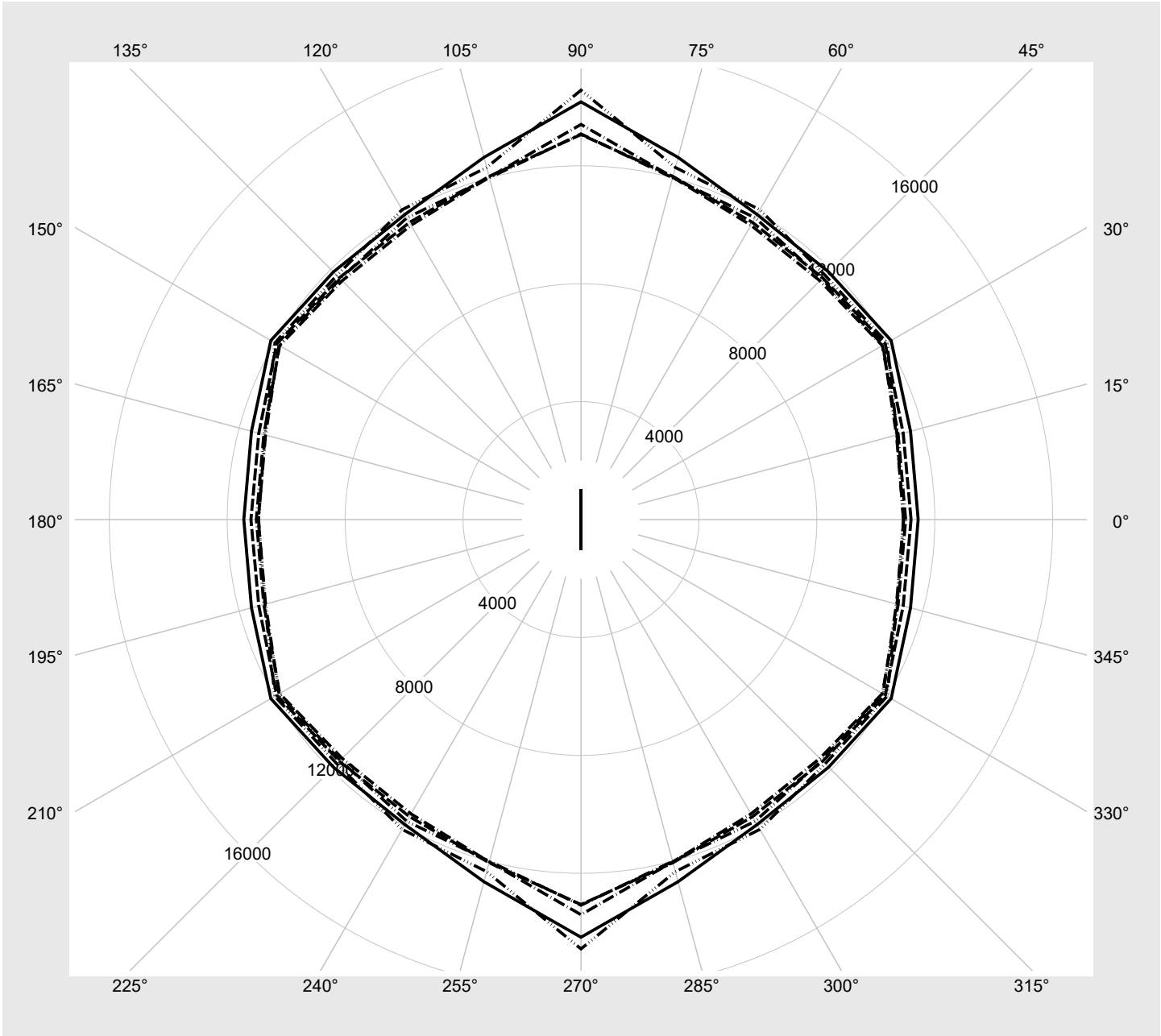
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1142</b>	<b>H(C0) = 29</b>	<b>H(C180) = 29</b>
			<b>B = 56</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

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°		12885.5	12995.1	13415.8	13469.2	13797.6	14732.4	16043.7	
50°		12454.9	12562.2	13008.0	12998.9	13283.8	14217.2	15593.4	
55°		12104.0	12205.4	12675.1	12591.2	12818.5	13750.7	15207.0	
60°		11780.4	11881.6	12384.5	12224.6	12393.3	13257.9	14720.0	
65°		11436.9	11571.5	12147.5	11878.3	11947.5	12719.3	14168.6	
70°		11195.3	11314.3	11918.2	11594.6	11637.1	12050.2	13059.5	
75°		11013.5	11137.2	11803.0	11457.0	11529.0	12022.9	13403.7	
80°		10946.2	11077.5	11827.8	11551.8	11818.0	12003.1	13082.0	
85°		10936.5	11098.3	11986.9	11713.9	12135.7	12364.9	14564.4	

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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	<b>siteco</b>
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DIP-Step	Switch Setting		Luminous flux [lm]	Power consumption [W]
	1	2		
3	ON	ON	4590	35.0
2	ON	OFF	4040	30.0
1	OFF	ON	3370	25.0
0	OFF	OFF	2760	20.0