

## Lichttechnischer Prüfbefund

**Familie**  
Ecopack® 31

**Bestell-Nr.: 51LJ12MKM40A**  
**EAN: 4058352589564**

**LP-Nummer**  
**59348\_3**



<b>Ausführung</b>	Diffusoroptik, satiniert, PC, einstellbare Farbtemperatur: 3000K   4000K   5000K, extrem breit strahlend
<b>Bestückung</b>	LED 3000 K   CRI ≥ 80
<b>Betriebsgerät</b>	EVG-Multilumen
<b>Einstellung</b>	indiv. Einstellung: Farbtemperatur 3000K
<b>Bemessungswerte</b>	Nettolichtstrom = 4590 lm Systemleistung = 35.0 W Lichtausbeute = 131.1 lm/W

**Seriendokumentation**  
19.08.2022

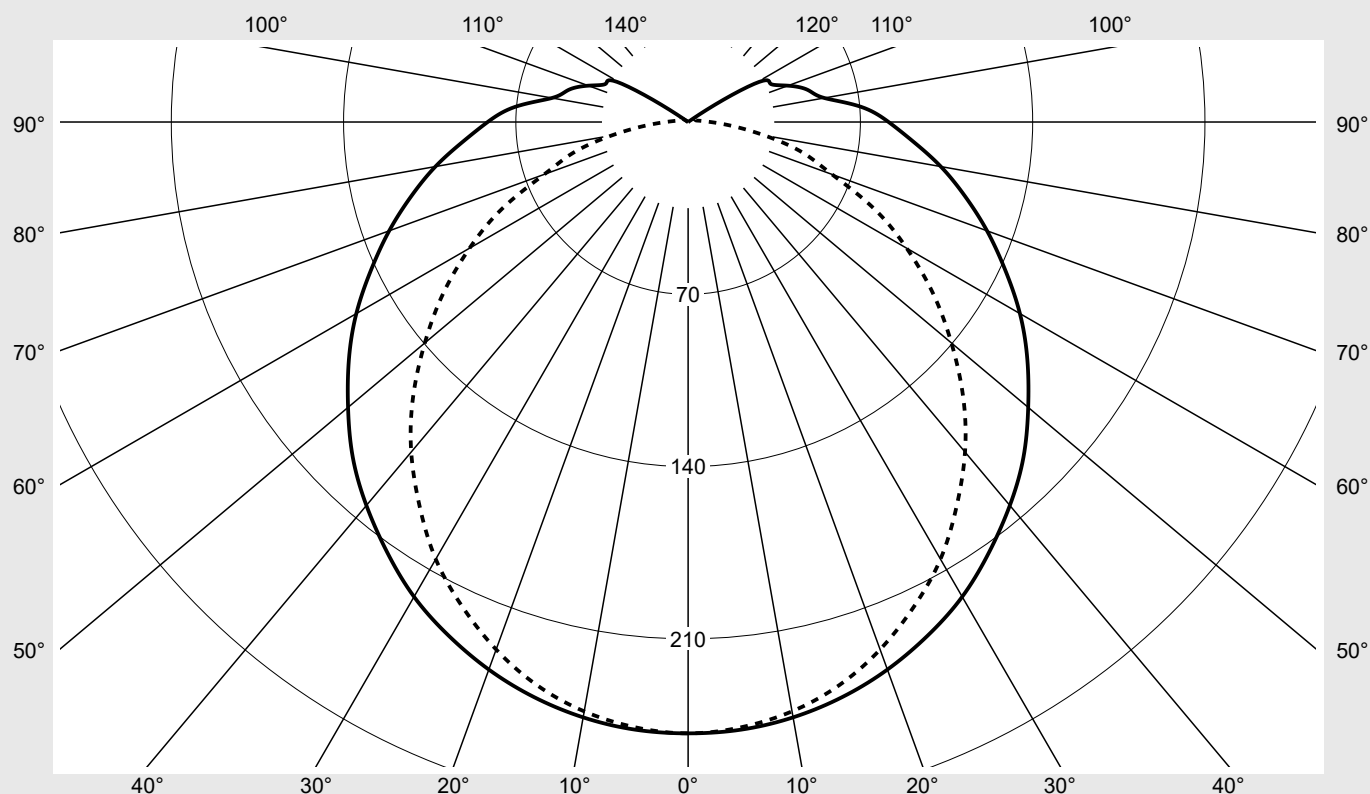
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 248 cd/klm



#### Klassifizierungen

DIN 5040 B 3 1  
CIE N1=39 N2=67 N3=87  
N4=89 N5=100

#### Leuchtenbetriebswirkungsgrade

$\eta_{LB}$  100,0%  
 $\phi_u$  88,8%  
 $\phi_o$  11,2%

#### Messbedingungen

DIN EN 13032 und DIN 5032

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<b>Wertetabelle Lichtstärkemessung</b>	<b>Maximale Lichtstärke</b>	<b>sITeco</b>
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C- Ebenen	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-Zone	Summe Phi-Zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
γ	Lichtstärke in cd/klm							Lichtstrom 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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UGR-Tabelle		Standardraum									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
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>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 1142 B = 56	H(C0) = 29	H(C180) = 29	H(C90) = 0	H(C270) = 0
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C-Ebenen	$\gamma$	Leuchtdichte 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	

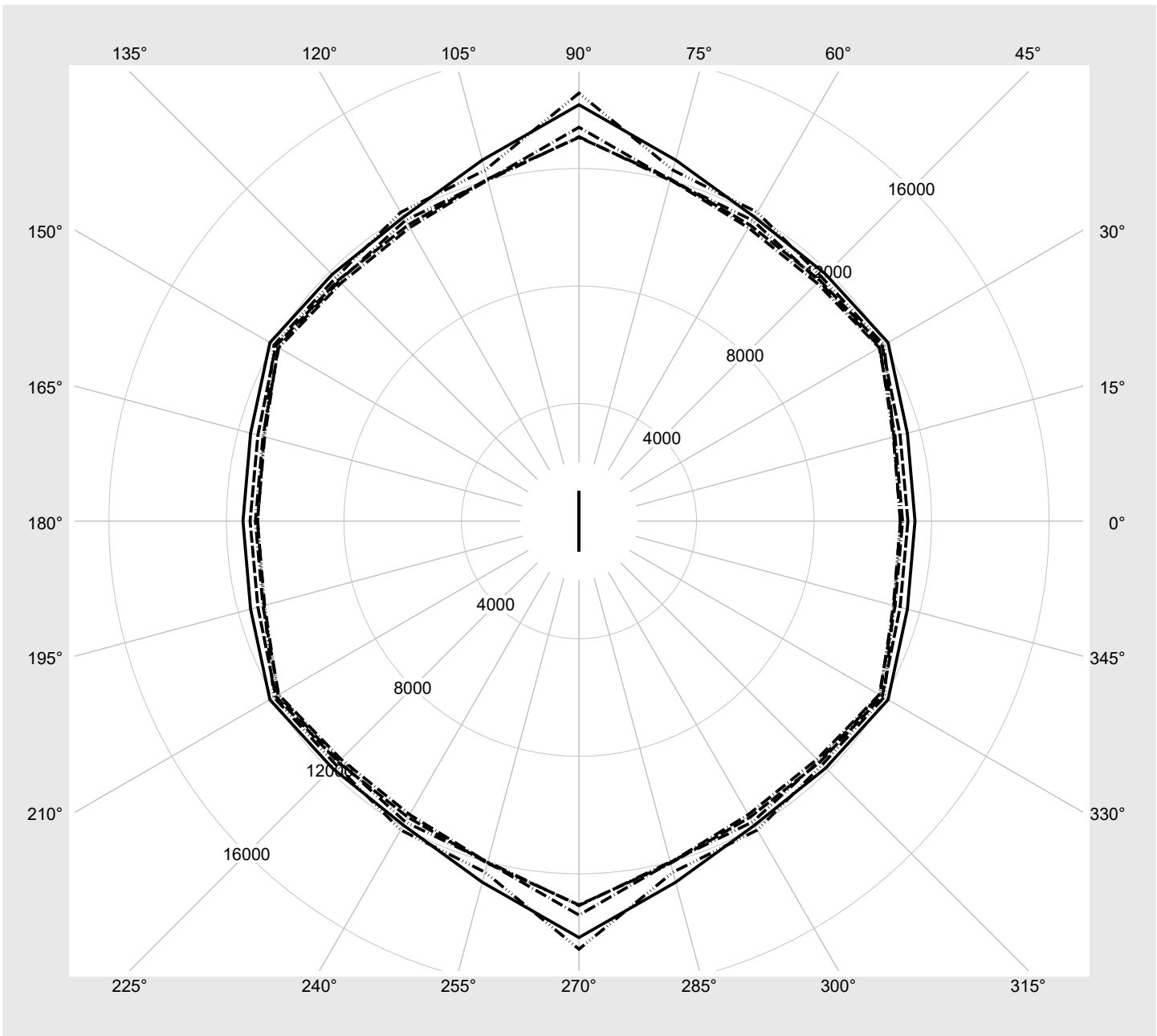
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**Leuchtdichten in cd/m²**

$\gamma$ 65°	$\gamma$ 70°	$\gamma$ 75°	$\gamma$ 80°	$\gamma$ 85°
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<b>Multilumen-Tabelle</b>	Umgebungstemperatur: 25°C	<b>sITeco</b>
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DIP-Stufe	Schalterstellung		Lichtstrom [lm]	Systemleistung [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