

## Lichttechnischer Prüfbefund

**Familie**  
Ecopack® 31

**Bestell-Nr.:** 51LJ12MNM70A  
**EAN:** 4058352589595

**LP-Nummer**  
59349\_4



**Ausführung** Diffusoroptik, satiniert, PC, einstellbare Farbtemperatur: 3000K | 4000K | 5000K, extrem breit strahlend

**Bestückung** LED 5000 K | CRI ≥ 80

**Betriebsgerät** EVG-Multilumen

**Einstellung** indiv. Einstellung: Farbtemperatur 5000K

**Bemessungswerte** Nettolichtstrom = 6780 lm  
Systemleistung = 50.0 W  
Lichtausbeute = 135.6 lm/W

**Seriendokumentation**  
19.08.2022

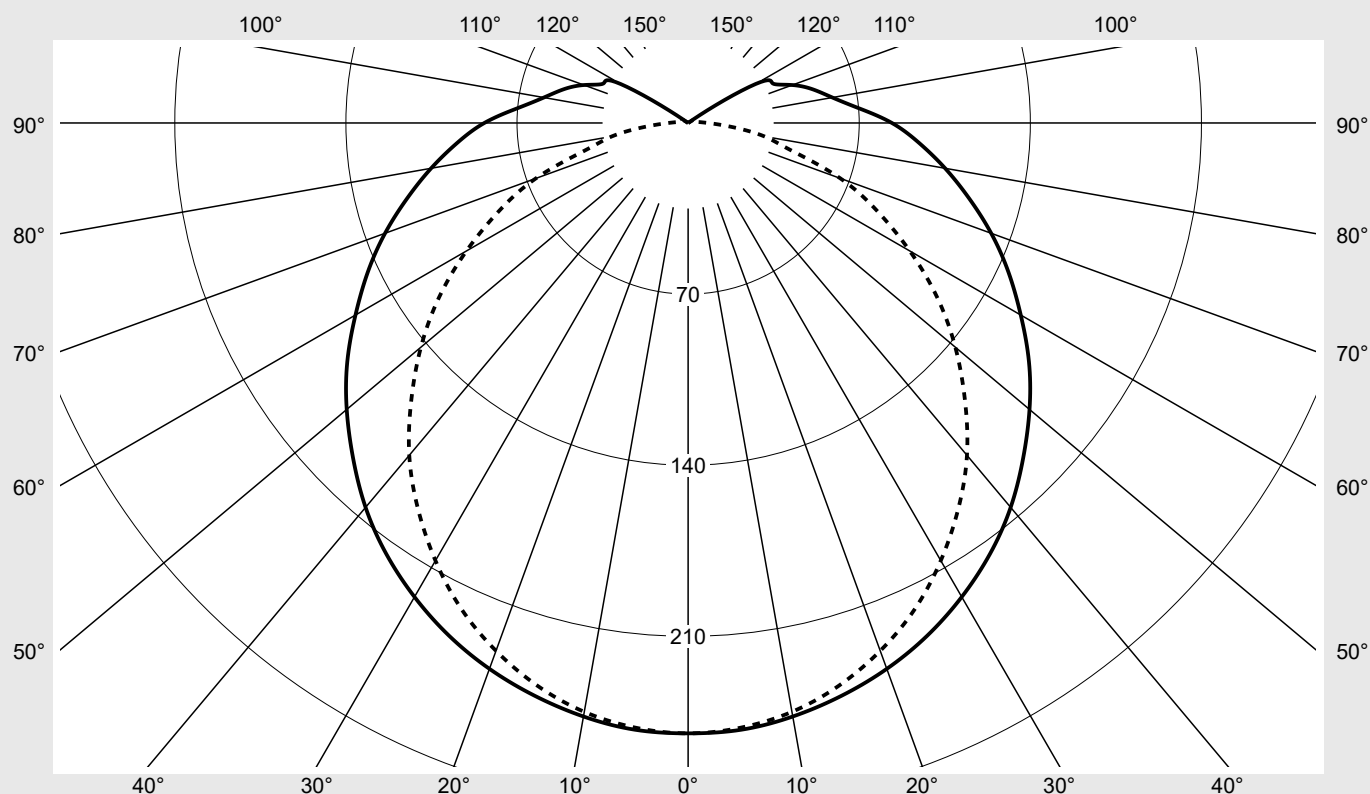
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 250 cd/klm



#### Klassifizierungen

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

#### Leuchtenbetriebswirkungsgrade

$\eta_{LB}$  100,0%  
 $\phi_u$  89,0%  
 $\phi_o$  11,0%

#### 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°			
Lichtstärke in cd/klm									
γ								Lichtstrom in lm/klm	
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

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UGR-Tabelle		Standardraum									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
x	y										
2H	2H	21,5	23,2	21,9	23,5	24,0	21,0	22,7	21,4	23,1	23,5
	3H	23,5	25,1	24,0	25,5	25,9	22,7	24,3	23,2	24,7	25,2
	4H	24,5	26,0	25,0	26,4	26,9	23,3	24,8	23,8	25,2	25,7
	6H	25,5	26,8	26,0	27,3	27,8	23,9	25,2	24,3	25,7	26,2
	8H	26,0	27,2	26,5	27,7	28,3	24,1	25,4	24,6	25,9	26,4
	12H	26,5	27,6	27,0	28,1	28,7	24,3	25,5	24,8	26,0	26,5
4H	2H	22,2	23,7	22,7	24,1	24,6	21,8	23,3	22,3	23,7	24,2
	3H	24,5	25,7	25,0	26,2	26,8	23,7	25,0	24,2	25,5	26,0
	4H	25,6	26,8	26,2	27,3	27,9	24,5	25,7	25,1	26,2	26,8
	6H	26,8	27,8	27,3	28,3	28,9	25,3	26,3	25,8	26,8	27,4
	8H	27,4	28,3	27,9	28,9	29,5	25,6	26,6	26,2	27,1	27,7
	12H	27,9	28,7	28,5	29,3	30,0	25,8	26,7	26,4	27,3	27,9
8H	4H	26,0	27,0	26,6	27,6	28,2	25,1	26,0	25,7	26,6	27,2
	6H	27,4	28,2	28,0	28,8	29,5	26,1	26,9	26,7	27,5	28,1
	8H	28,1	28,9	28,7	29,5	30,1	26,6	27,3	27,2	27,9	28,6
	12H	28,8	29,4	29,5	30,1	30,8	27,0	27,6	27,6	28,2	28,9
12H	4H	26,1	26,9	26,7	27,5	28,2	25,2	26,0	25,8	26,6	27,3
	6H	27,5	28,2	28,1	28,8	29,5	26,3	27,0	26,9	27,6	28,3
	8H	28,3	28,9	28,9	29,6	30,3	26,9	27,5	27,5	28,1	28,8

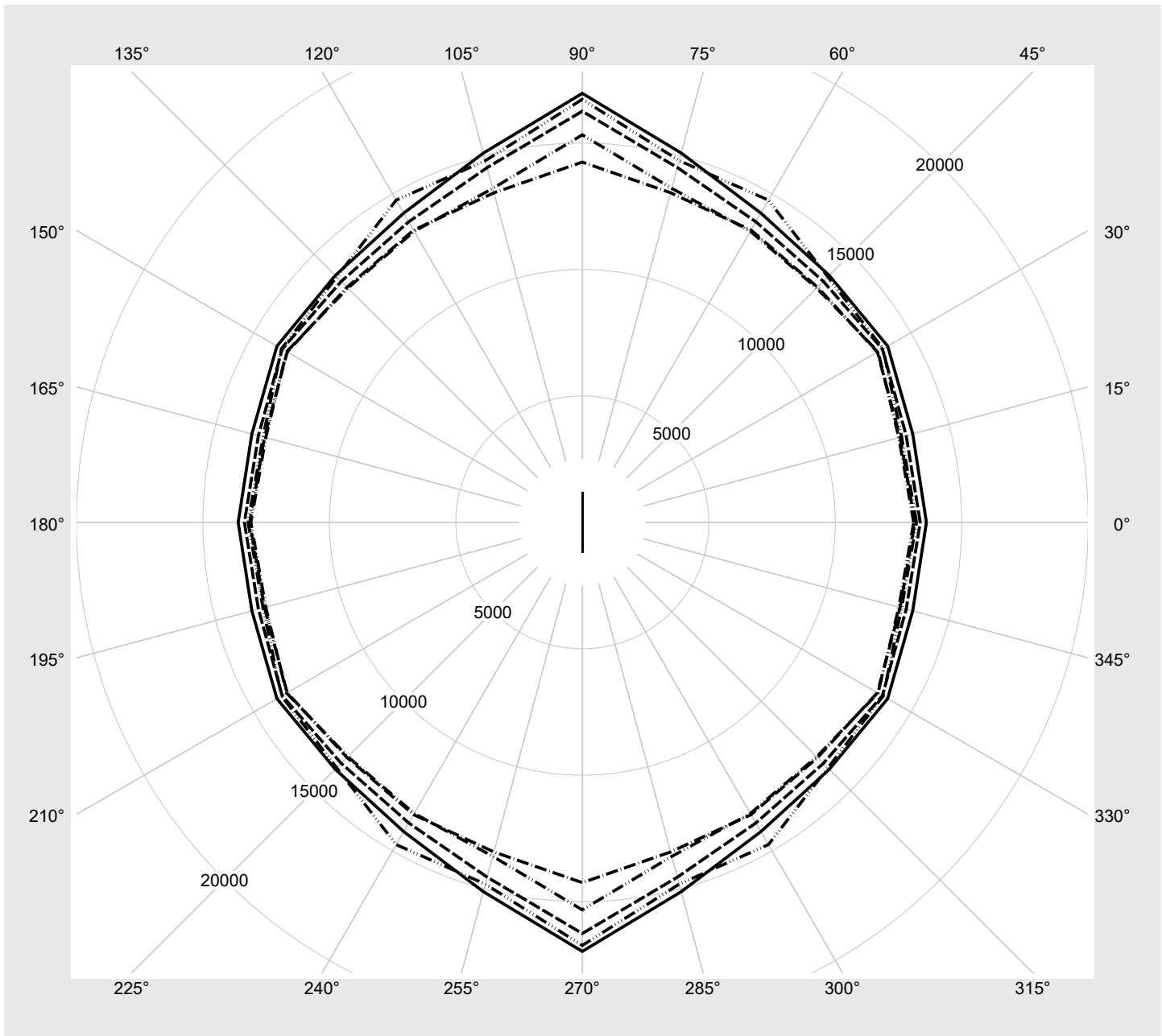
<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 1443 B = 56	H(C0) = 29	H(C180) = 29	H(C90) = 0	H(C270) = 0
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C-Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		15153.8	15178.8	15562.2	15771.8	16325.7	17439.6	19001.0
50°		14716.0	14707.9	15088.6	15247.4	15780.1	16933.1	18626.3
55°		14312.9	14279.4	14667.7	14752.8	15238.7	16396.1	18195.4
60°		13899.9	13844.5	14245.3	14219.6	14612.3	15719.9	17573.1
65°		13605.2	13524.2	13941.0	13811.0	14122.2	15119.7	16967.2
70°		13359.8	13257.2	13702.1	13478.4	13726.7	14526.5	16260.0
75°		13150.1	13008.5	13472.1	13154.5	13345.4	13494.8	14248.1
80°		13102.2	12956.0	13500.4	13106.5	13292.7	13674.2	15324.9
85°		13214.4	13067.5	13733.0	13730.6	14715.9	14810.5	16730.3

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



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## Multilumen-Tabelle

Umgebungstemperatur: 25°C



DIP-Stufe	Schalterstellung		Lichtstrom [lm]	Systemleistung [W]
	1	2		
3	ON	ON	6780	50.0
2	ON	OFF	5940	42.0
1	OFF	ON	5010	34.0
0	OFF	OFF	4070	27.0