

## Lichttechnischer Prüfbefund

Familie  
Ecopack® 31

Bestell-Nr.: 51LJ12MNM70A + 59LJ203  
EAN: 4058352589595 + 4058352612422

LP-Nummer  
59349\_5

**Ausführung** Diffusoroptik, satiniert, PC, einstellbare Farbtemperatur: 3000K | 4000K | 5000K, extrem breit strahlend, Notlichtelement 3h Betriebsdauer

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-Multilumen

**Einstellung** Werkseinstellung: Farbtemperatur 4000K

**Bemessungswerte** Nettolichtstrom = 7000 lm  
Systemleistung = 51.5 W  
Lichtausbeute = 135.9 lm/W

Seriendokumentation  
19.08.2022

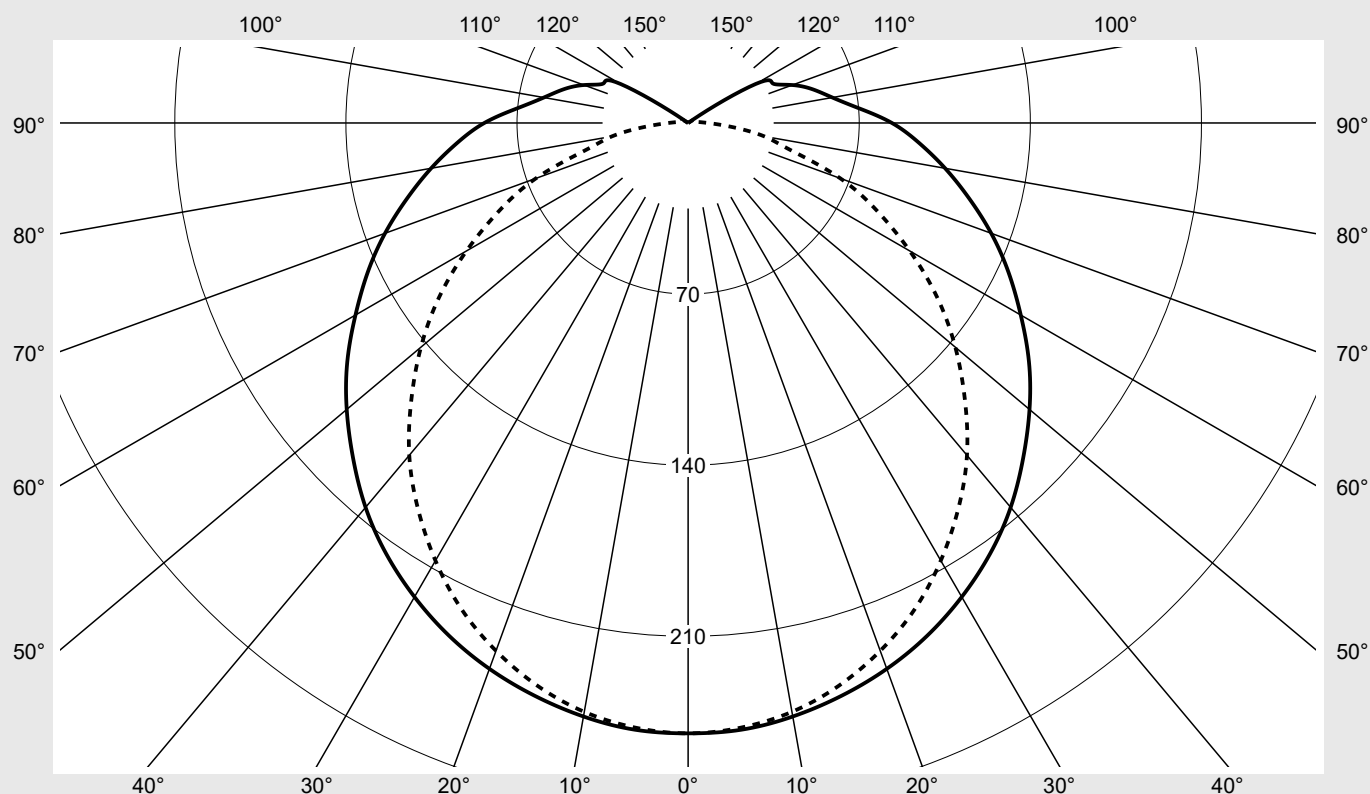
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Lichtstärke in cd/klm

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								Lichtstrom in lm/klm	
γ									
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									
Raumabmessungen		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
x	y										
2H	2H	21,6	23,3	22,0	23,7	24,1	21,1	22,8	21,6	23,2	23,7
	3H	23,6	25,2	24,1	25,6	26,1	22,8	24,4	23,3	24,8	25,3
	4H	24,6	26,1	25,1	26,5	27,0	23,4	24,9	23,9	25,4	25,8
	6H	25,6	26,9	26,1	27,4	27,9	24,0	25,4	24,5	25,8	26,3
	8H	26,1	27,4	26,6	27,9	28,4	24,2	25,5	24,7	26,0	26,5
	12H	26,6	27,7	27,1	28,3	28,8	24,4	25,6	24,9	26,1	26,7
4H	2H	22,3	23,8	22,8	24,2	24,7	22,0	23,4	22,4	23,8	24,3
	3H	24,6	25,8	25,1	26,3	26,9	23,8	25,1	24,3	25,6	26,1
	4H	25,8	26,9	26,3	27,4	28,0	24,7	25,8	25,2	26,3	26,9
	6H	26,9	27,9	27,4	28,4	29,0	25,4	26,4	25,9	26,9	27,5
	8H	27,5	28,4	28,0	29,0	29,6	25,7	26,7	26,3	27,2	27,8
	12H	28,0	28,8	28,6	29,4	30,1	25,9	26,8	26,5	27,4	28,0
8H	4H	26,2	27,1	26,7	27,7	28,3	25,2	26,1	25,8	26,7	27,3
	6H	27,6	28,4	28,1	28,9	29,6	26,2	27,0	26,8	27,6	28,2
	8H	28,3	29,0	28,9	29,6	30,2	26,7	27,4	27,3	28,0	28,7
	12H	28,9	29,6	29,6	30,2	30,9	27,1	27,7	27,7	28,3	29,0
12H	4H	26,2	27,0	26,8	27,6	28,3	25,3	26,1	25,9	26,7	27,4
	6H	27,6	28,3	28,3	29,0	29,6	26,4	27,1	27,0	27,7	28,4
	8H	28,4	29,1	29,1	29,7	30,4	27,0	27,6	27,6	28,2	28,9

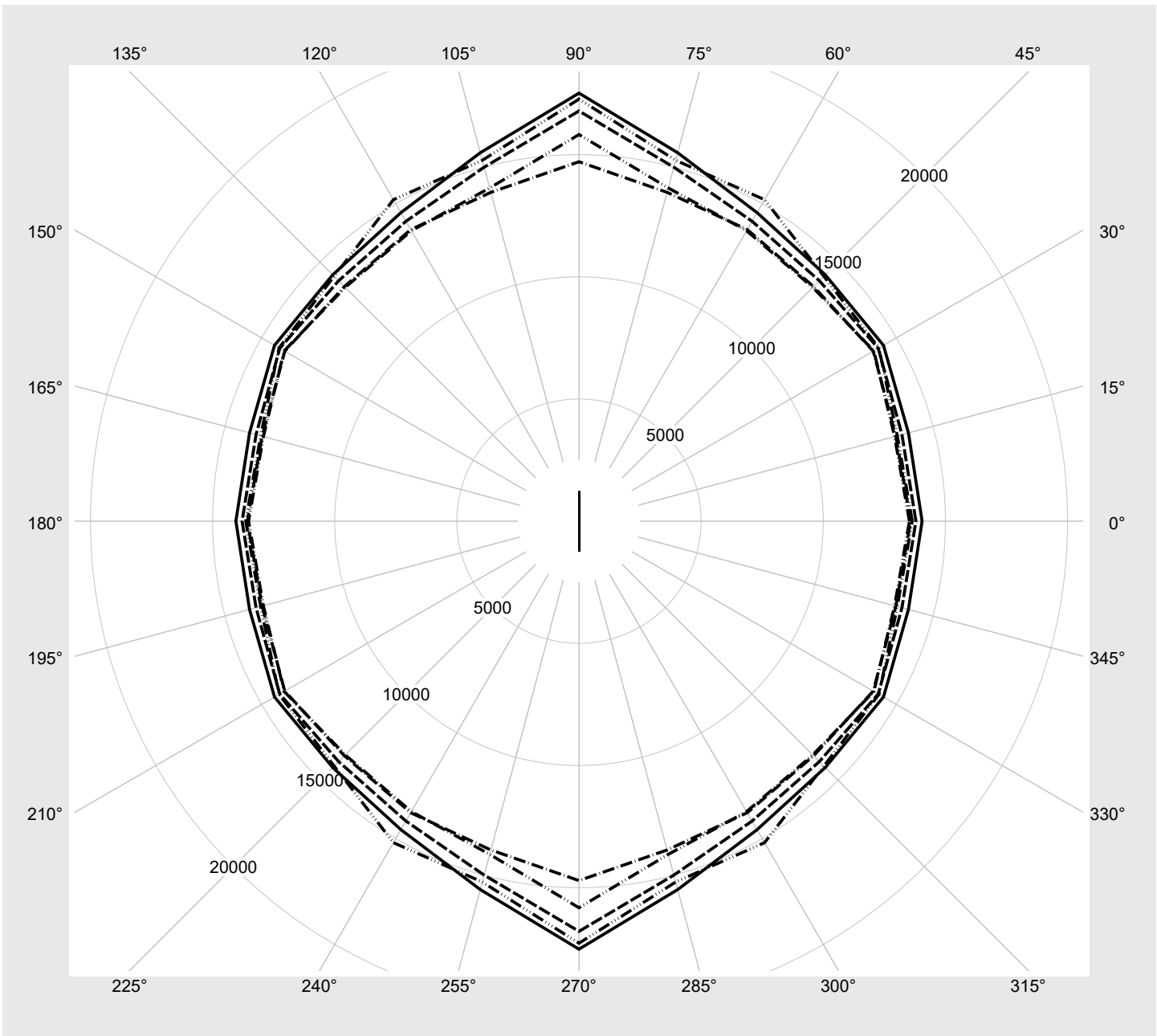
<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 1443 B = 56	H(C0) = 29 H(C90) = 0	H(C180) = 29 H(C270) = 0
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C-Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°	45°	15645.5	15671.3	16067.1	16283.6	16855.5	18005.5	19617.6	
50°	50°	15193.5	15185.1	15578.3	15742.2	16292.1	17482.6	19230.7	
55°	55°	14777.3	14742.8	15143.7	15231.5	15733.2	16928.2	18785.9	
60°	60°	14351.0	14293.8	14707.6	14681.0	15086.5	16230.0	18143.3	
65°	65°	14046.7	13963.0	14393.4	14259.2	14580.4	15610.3	17517.8	
70°	70°	13793.3	13687.4	14146.7	13915.7	14172.1	14997.9	16787.6	
75°	75°	13576.8	13430.6	13909.3	13581.3	13778.5	13932.7	14710.5	
80°	80°	13527.4	13376.4	13938.4	13531.8	13724.0	14117.9	15822.2	
85°	85°	13643.1	13491.6	14178.6	14176.1	15193.4	15291.1	17273.2	

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**Leuchtdichten in cd/m²**      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**



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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	7000	51.5
2	ON	OFF	6020	43.5
1	OFF	ON	5070	35.5
0	OFF	OFF	4110	28.5