

## Lichttechnischer Prüfbefund

Familie  
Ecopack® 31

Bestell-Nr.: 51LJ12MKM40A + 59LJ203  
EAN: 4058352589564 + 4058352612422

LP-Nummer  
59348\_8

**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** Notlichtbetrieb: 3 h

**Bemessungswerte** Nettolichtstrom = 540 lm  
Systemleistung = 4.0 W  
Lichtausbeute = 135 lm/W

Seriendokumentation  
19.08.2022

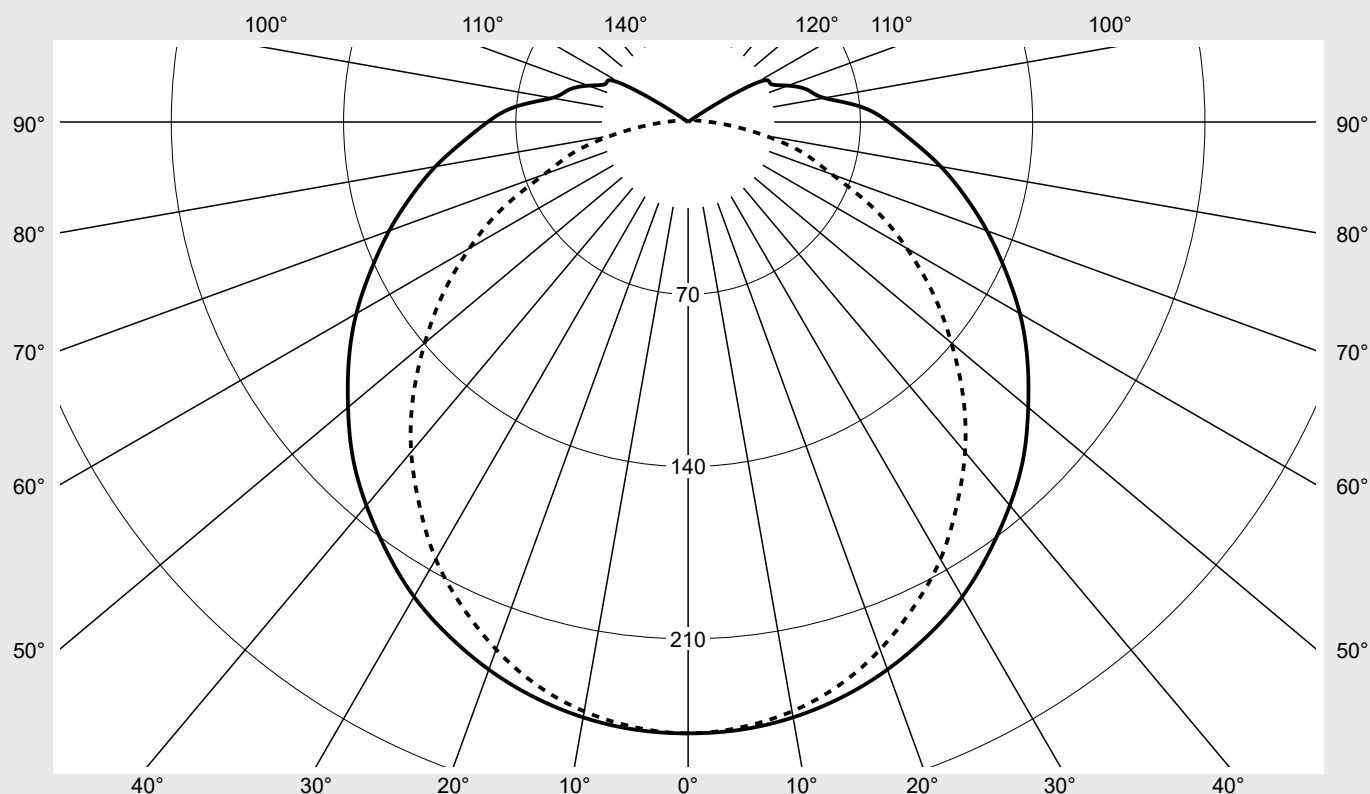
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Lichtstärke in cd/klm

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	13,5	15,2	13,9	15,6	16,0	13,0	14,7	13,4	15,0	15,5
	3H	15,5	17,1	16,0	17,5	18,0	14,6	16,2	15,0	16,6	17,0
	4H	16,5	17,9	17,0	18,4	18,9	15,3	16,8	15,8	17,2	17,7
	6H	17,5	18,8	18,0	19,3	19,8	15,9	17,3	16,4	17,7	18,2
	8H	18,0	19,2	18,5	19,7	20,2	16,1	17,4	16,6	17,9	18,4
	12H	18,4	19,5	18,9	20,1	20,6	16,3	17,5	16,8	18,0	18,6
4H	2H	14,2	15,7	14,7	16,1	16,6	13,8	15,2	14,3	15,7	16,2
	3H	16,5	17,8	17,0	18,3	18,8	15,7	16,9	16,2	17,4	17,9
	4H	17,7	18,8	18,2	19,3	19,9	16,5	17,7	17,1	18,2	18,8
	6H	18,8	19,8	19,3	20,3	20,9	17,3	18,3	17,9	18,9	19,5
	8H	19,4	20,3	19,9	20,8	21,5	17,7	18,6	18,2	19,2	19,8
	12H	19,9	20,7	20,5	21,3	21,9	17,9	18,7	18,5	19,3	20,0
8H	4H	18,1	19,0	18,6	19,6	20,2	17,1	18,1	17,7	18,6	19,2
	6H	19,5	20,3	20,1	20,9	21,5	18,2	19,0	18,8	19,6	20,2
	8H	20,2	20,9	20,8	21,5	22,2	18,6	19,4	19,3	20,0	20,6
	12H	20,8	21,4	21,5	22,1	22,8	19,0	19,6	19,7	20,3	21,0
12H	4H	18,1	19,0	18,7	19,6	20,2	17,2	18,0	17,8	18,6	19,3
	6H	19,6	20,3	20,2	20,9	21,6	18,4	19,1	19,0	19,7	20,4
	8H	20,4	21,0	21,0	21,6	22,3	18,9	19,6	19,6	20,2	20,9

<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

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°		1515.9	1528.8	1578.3	1584.6	1623.2	1733.2	1887.5	
50°		1465.3	1477.9	1530.3	1529.3	1562.8	1672.6	1834.5	
55°		1424.0	1435.9	1491.2	1481.3	1508.1	1617.7	1789.1	
60°		1385.9	1397.8	1457.0	1438.2	1458.0	1559.8	1731.8	
65°		1345.5	1361.4	1429.1	1397.4	1405.6	1496.4	1666.9	
70°		1317.1	1331.1	1402.1	1364.1	1369.1	1417.7	1536.4	
75°		1295.7	1310.3	1388.6	1347.9	1356.4	1414.5	1576.9	
80°		1287.8	1303.2	1391.5	1359.0	1390.4	1412.1	1539.1	
85°		1286.6	1305.7	1410.2	1378.1	1427.7	1454.7	1713.5	

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

