

Photometric test report

Family
Ecopack® 31

Order number: 51LJ12MKM40A3G
EAN: 4058352671085

LP number
59348_12



Version diffuser optic, frosted, polycarbonate,
adjustable color temperature: 3000K | 4000K |
5000K, extremely wide distribution, emergency
light element 3h operating duration

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG Multilumen

Setting emergency light operation: 3 h

Rated values Net luminous flux = 540 lm
Power consumption = 4.0 W
Luminous efficacy = 135 lm/W

serial
documentation
19.08.2022

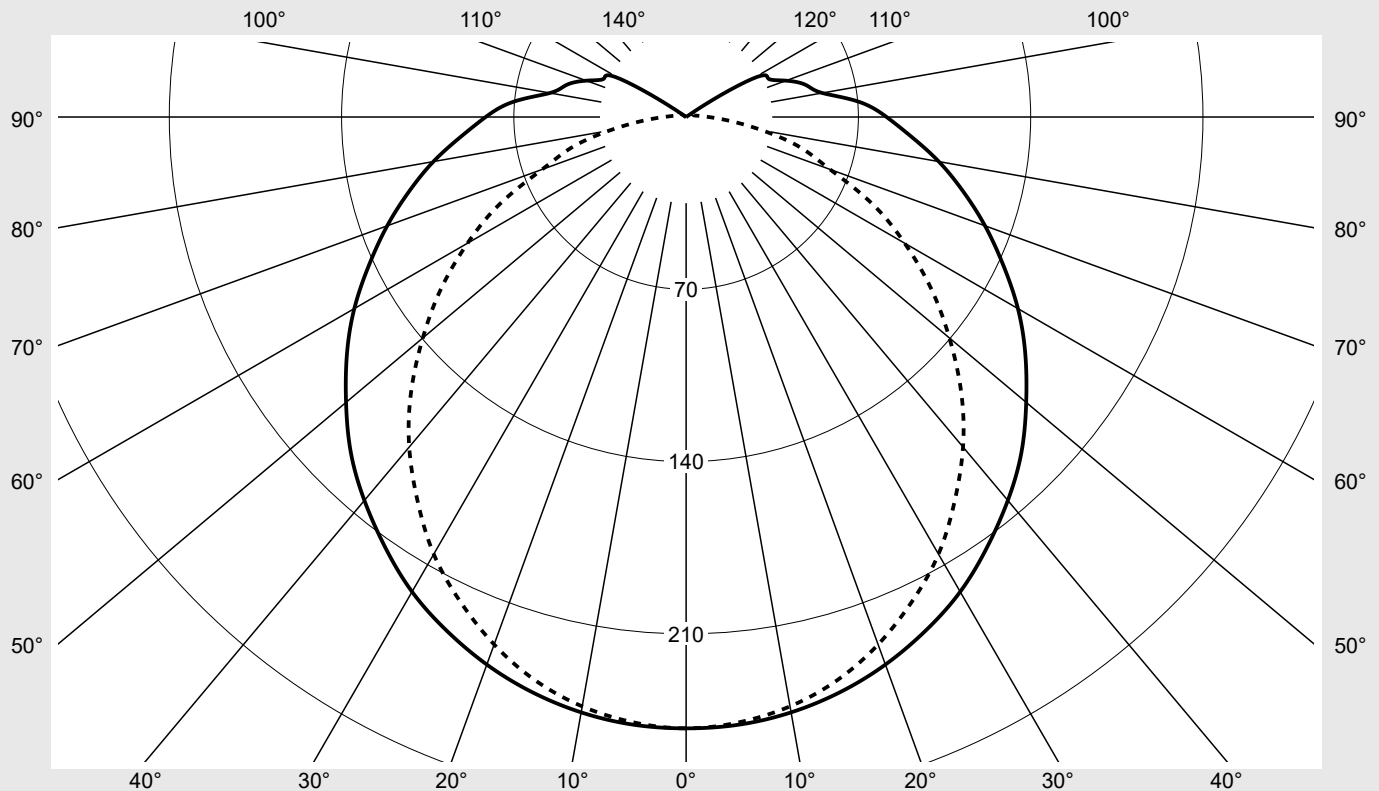
siteco

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

η_{LB} 100.0%
 ϕ_u 88.8%
 ϕ_o 11.2%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
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C-planes γ	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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UGR-Table	Standard room	siteco
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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	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

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

C-planes	γ	Luminance in cd/m ²								
		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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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**

