
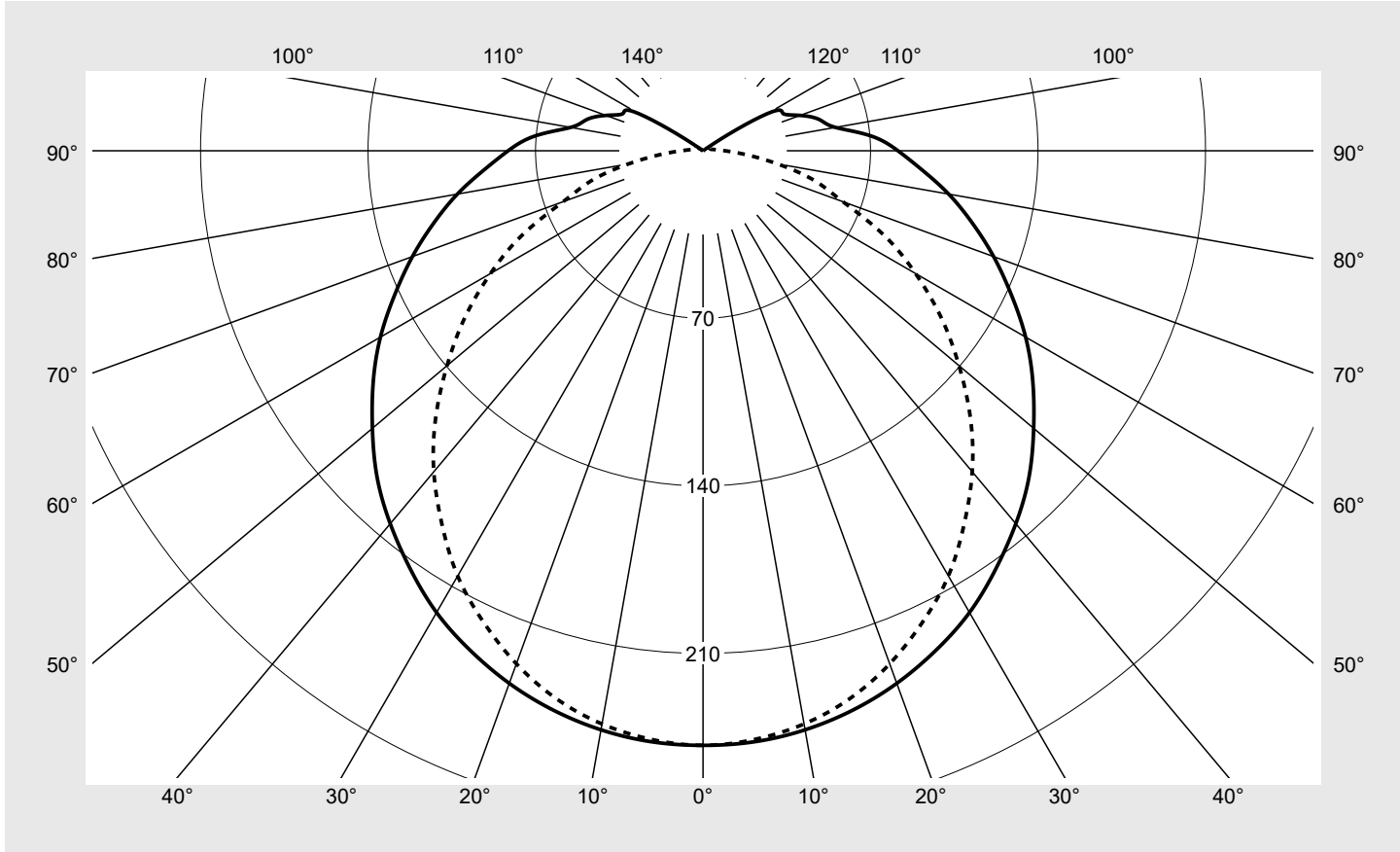


Photometric test report

Family Ecopack® 31 	Order number: 51LJ12DKM40A EAN: 4058352589519	LP number 59348_13
	Version diffuser optic, frosted, polycarbonate, adjustable color temperature: 3000K 4000K 5000K, extremely wide distribution Lamps LED 3000 K CRI ≥ 80 Controlgear ECG-DALI Setting individual position: colour temperature 3000K Rated values Net luminous flux = 4030 lm Power consumption = 33.0 W Luminous efficacy = 122.1 lm/W	serial documentation 19.08.2022



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
		sITeco

C-planes γ	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Luminous flux in lm/klm	
								Phi-zone	Total Phi-zone
	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	20.5	22.2	20.9	22.6	23.0	19.9	21.6	20.4	22.0	22.4
	3H	22.5	24.1	23.0	24.5	24.9	21.6	23.2	22.0	23.6	24.0
	4H	23.5	24.9	24.0	25.4	25.9	22.3	23.7	22.7	24.2	24.7
	6H	24.4	25.8	24.9	26.3	26.8	22.9	24.2	23.3	24.7	25.2
	8H	24.9	26.2	25.5	26.7	27.2	23.1	24.4	23.6	24.9	25.4
	12H	25.4	26.5	25.9	27.1	27.6	23.3	24.5	23.8	25.0	25.5
4H	2H	21.2	22.7	21.7	23.1	23.6	20.8	22.2	21.3	22.7	23.2
	3H	23.5	24.8	24.0	25.2	25.8	22.6	23.9	23.1	24.4	24.9
	4H	24.6	25.8	25.2	26.3	26.9	23.5	24.7	24.0	25.2	25.8
	6H	25.8	26.8	26.3	27.3	27.9	24.3	25.3	24.8	25.9	26.5
	8H	26.3	27.3	26.9	27.8	28.5	24.6	25.6	25.2	26.1	26.8
	12H	26.8	27.7	27.4	28.3	28.9	24.9	25.7	25.4	26.3	26.9
8H	4H	25.1	26.0	25.6	26.6	27.2	24.1	25.0	24.7	25.6	26.2
	6H	26.5	27.3	27.1	27.9	28.5	25.2	26.0	25.8	26.5	27.2
	8H	27.1	27.9	27.8	28.5	29.1	25.6	26.3	26.2	27.0	27.6
	12H	27.8	28.4	28.4	29.1	29.8	26.0	26.6	26.6	27.3	28.0
12H	4H	25.1	26.0	25.7	26.5	27.2	24.2	25.0	24.8	25.6	26.3
	6H	26.6	27.3	27.2	27.9	28.6	25.4	26.0	26.0	26.7	27.4
	8H	27.3	28.0	28.0	28.6	29.3	25.9	26.5	26.6	27.2	27.9

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°		11313.4	11409.7	11779.0	11825.9	12114.2	12935.0	14086.3	
50°		10935.3	11029.6	11420.9	11413.0	11663.1	12482.6	13691.0	
55°		10627.3	10716.3	11128.7	11055.0	11254.6	12073.1	13351.7	
60°		10343.2	10432.0	10873.5	10733.2	10881.3	11640.4	12924.1	
65°		10041.6	10159.7	10665.4	10429.1	10489.8	11167.5	12440.0	
70°		9829.4	9933.9	10464.1	10180.0	10217.3	10580.0	11466.2	
75°		9669.8	9778.4	10363.0	10059.2	10122.4	10556.1	11768.4	
80°		9610.7	9726.0	10384.8	10142.4	10376.2	10538.6	11486.0	
85°		9602.2	9744.2	10524.4	10284.8	10655.1	10856.3	12787.5	

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

