

Photometric test report

Family
Ecopack® 31

Order number: 51LJ12DNM80A
EAN: 4058352589526

LP number
59349_2



Version diffuser optic, frosted, polycarbonate,
adjustable color temperature: 3000K | 4000K |
5000K, extremely wide distribution

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Setting factory setting: colour temperature 4000K

Rated values Net luminous flux = 7000 lm
Power consumption = 52.0 W
Luminous efficacy = 134.6 lm/W

serial
documentation
19.08.2022

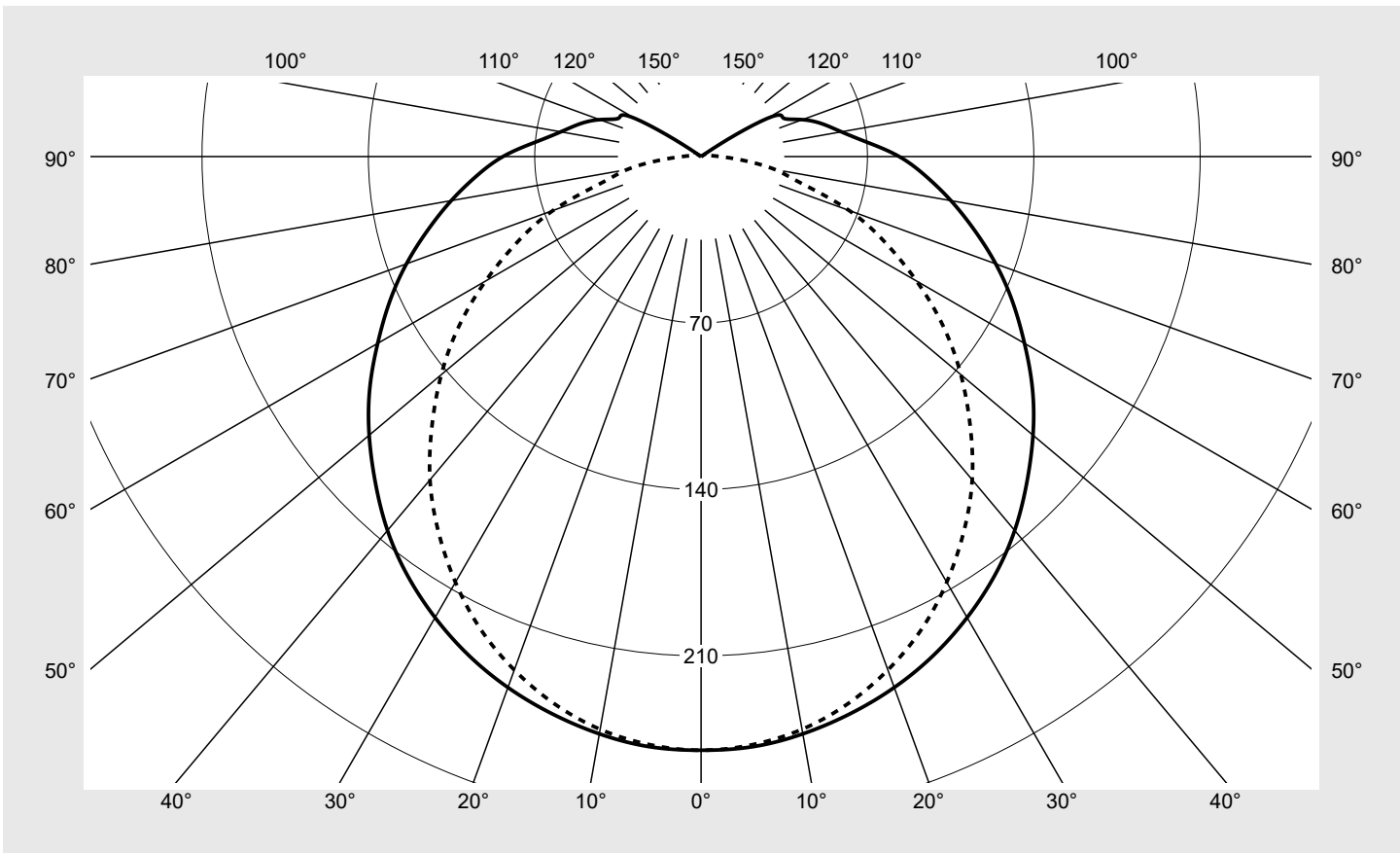
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 250 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 89.0%
 ϕ_o 11.0%

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°	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°	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-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	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

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1443	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°		15645.5	15671.3	16067.1	16283.6	16855.5	18005.5	19617.6	
50°		15193.5	15185.1	15578.3	15742.2	16292.1	17482.6	19230.7	
55°		14777.3	14742.8	15143.7	15231.5	15733.2	16928.2	18785.9	
60°		14351.0	14293.8	14707.6	14681.0	15086.5	16230.0	18143.3	
65°		14046.7	13963.0	14393.4	14259.2	14580.4	15610.3	17517.8	
70°		13793.3	13687.4	14146.7	13915.7	14172.1	14997.9	16787.6	
75°		13576.8	13430.6	13909.3	13581.3	13778.5	13932.7	14710.5	
80°		13527.4	13376.4	13938.4	13531.8	13724.0	14117.9	15822.2	
85°		13643.1	13491.6	14178.6	14176.1	15193.4	15291.1	17273.2	

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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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