

Photometric test report

Family
Ecopack® 31

Order number: 51LJ12MNM70A
EAN: 4058352589595

LP number
59349_1



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

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG Multilumen

Setting factory setting: colour temperature 4000K

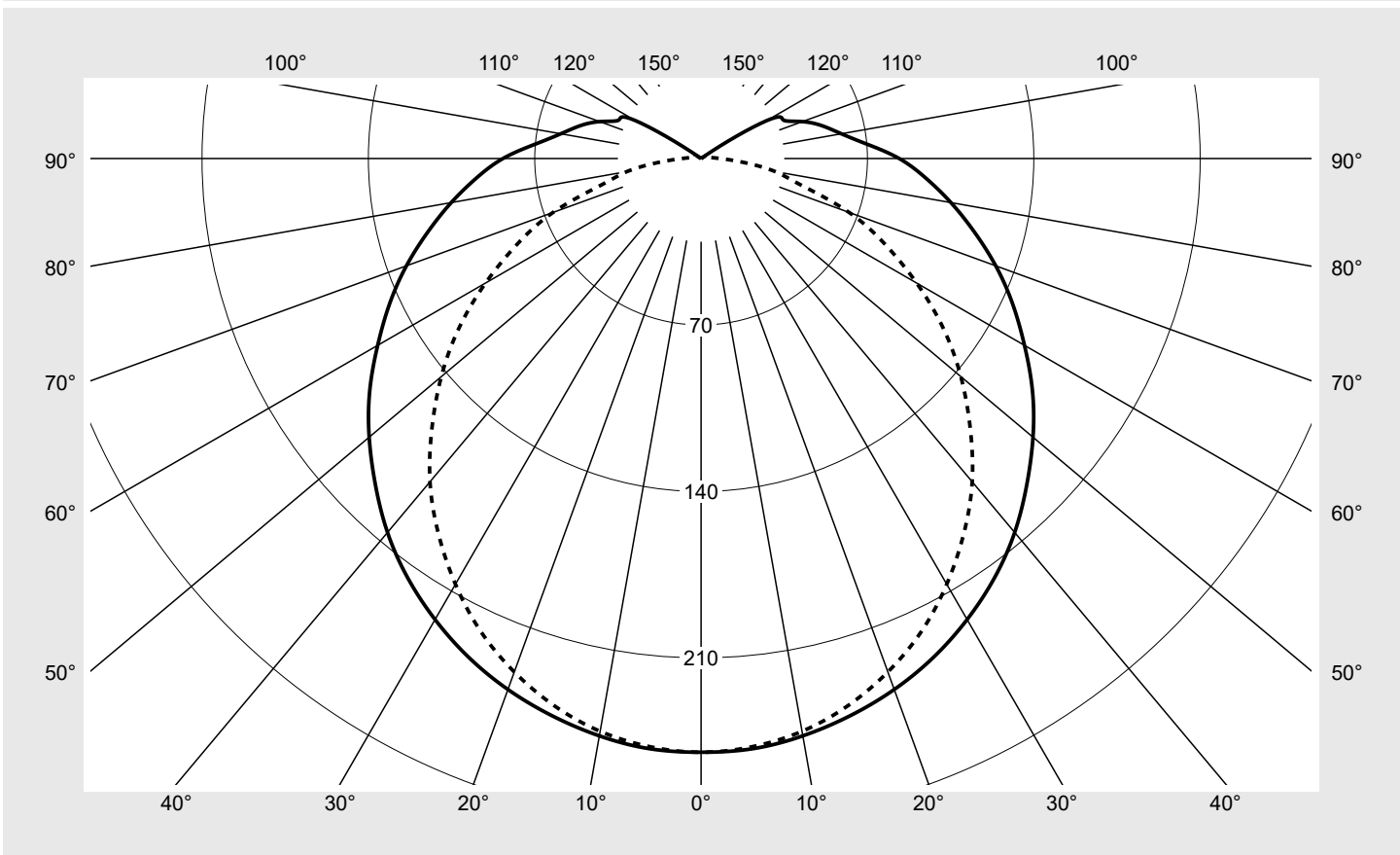
Rated values Net luminous flux = 7000 lm
Power consumption = 50.0 W
Luminous efficacy = 140 lm/W

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

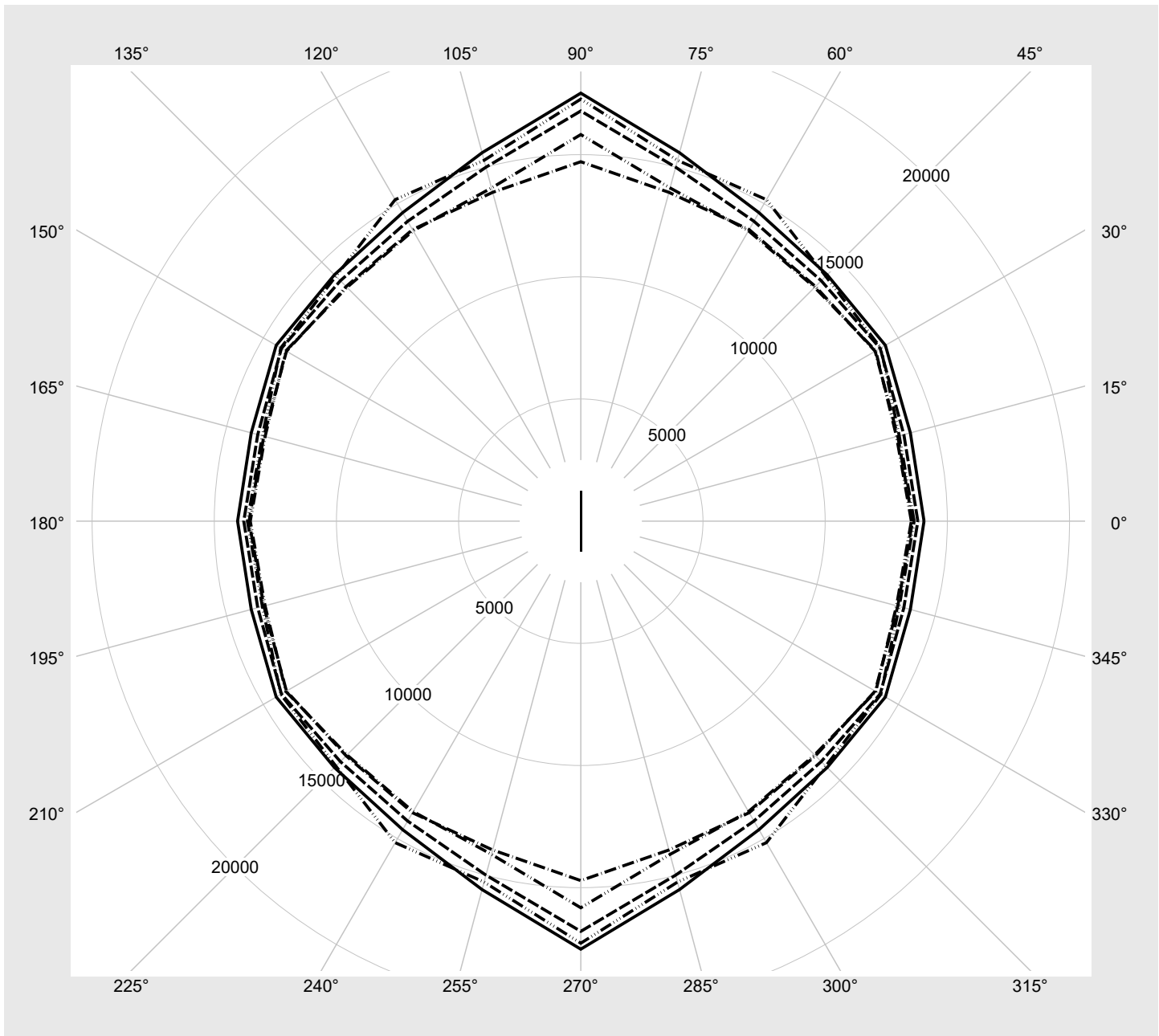
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1443	H(C0) = 29	H(C180) = 29
			B = 56	H(C90) = 0	H(C270) = 0

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° **siteco**



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Multilumen Table	environmental temperature: 25°C	sITeco
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DIP-Step	Switch Setting		Luminous flux [lm]	Power consumption [W]
	1	2		
3	ON	ON	7000	50.0
2	ON	OFF	6020	42.0
1	OFF	ON	5070	34.0
0	OFF	OFF	4110	27.0