

Photometric test report

Family
Lunis 41



Order number: 51DR10MFHCB
EAN: 4069025152107

Version

Lamps

Controlgear

Setting

Rated values

recessed luminaire, diffuse cover, extremely wide distribution, adjustable color temperature: 4000 K | 6500 K

LED 4000 K | CRI ≥ 80

ECG

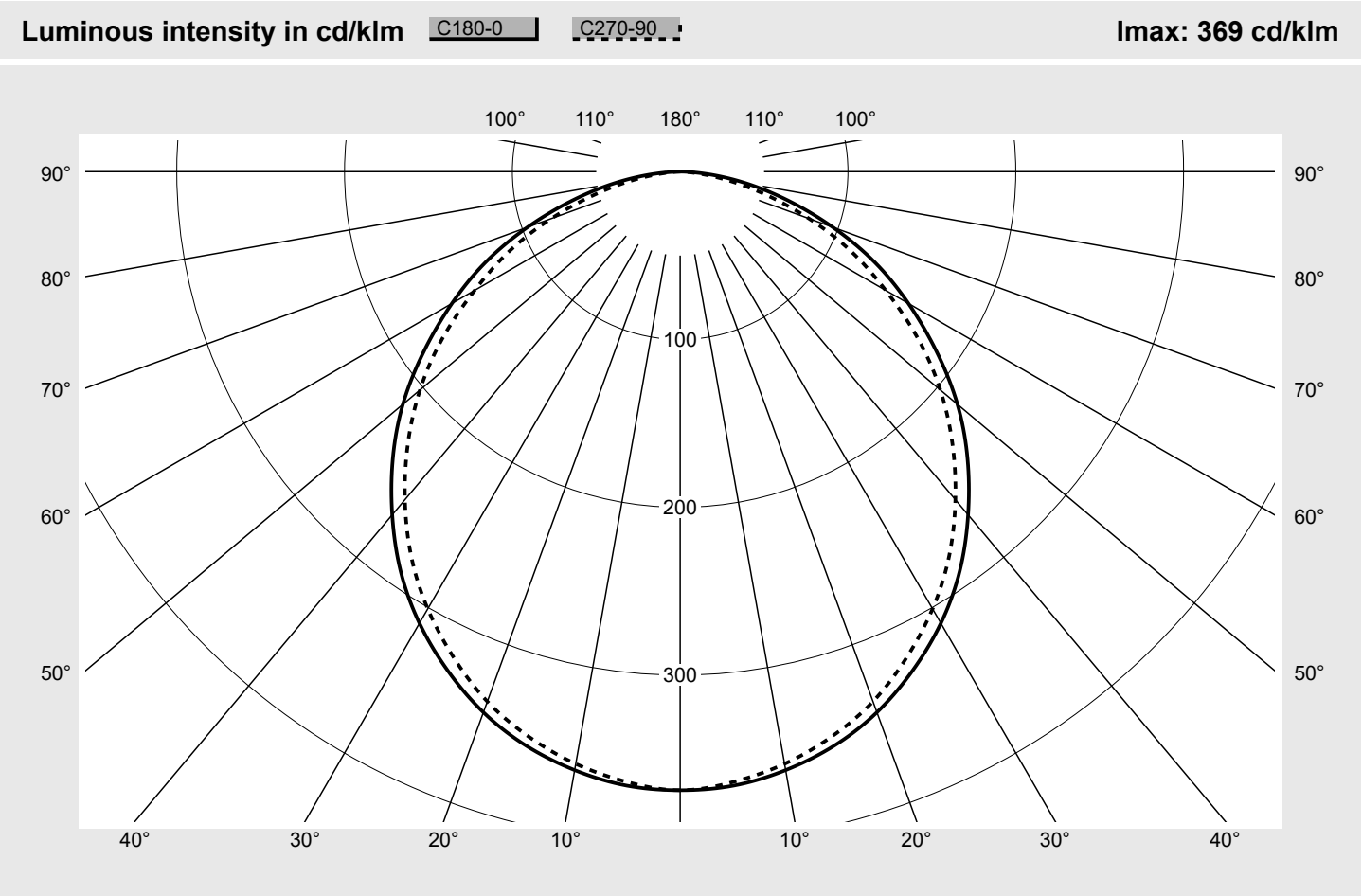
factory setting: colour temperature 4000K

Net luminous flux = 2430 lm
Power consumption = 19.5 W
Luminous efficacy = 124.6 lm/W

LP number
59234_15

serial
documentation
16.01.2025

siteco



Classifications		Luminaire light output ratios	
DIN 5040	A 4 0	η_{LB}	100.0%
CIE	N1=49 N2=80 N3=96	ϕ_u	100.0%
	N4=100 N5=100	ϕ_o	0.0%

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	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0°	368.6	368.6	368.6	368.6	368.6	368.6	368.6	2.2	2.2
5°	367.2	366.8	366.3	365.8	365.5	365.3	365.0	17.5	19.7
10°	362.1	361.4	360.8	360.1	359.5	358.9	358.3	34.3	54.0
15°	354.2	353.1	351.9	350.8	350.1	349.3	348.6	49.8	103.8
20°	342.9	341.5	340.1	338.8	337.8	336.9	336.0	63.6	167.3
25°	327.9	326.3	324.6	323.0	321.8	320.6	319.4	74.9	242.3
30°	310.7	308.8	306.8	304.8	303.5	302.2	300.8	83.7	325.9
35°	290.5	288.3	286.2	284.0	282.5	281.0	279.5	89.4	415.4
40°	267.0	264.6	262.3	260.0	258.4	256.8	255.2	91.8	507.2
45°	242.2	239.7	237.3	234.8	233.0	231.3	229.5	91.2	598.4
50°	215.7	213.2	210.6	208.1	206.2	204.3	202.4	87.6	686.0
55°	186.3	184.1	181.9	179.7	177.4	175.1	172.8	80.7	766.6
60°	157.1	154.5	151.9	149.2	146.6	144.0	141.4	70.8	837.5
65°	128.1	125.1	122.0	118.9	116.8	114.6	112.5	59.4	896.9
70°	96.9	93.9	90.9	87.9	85.9	83.8	81.7	45.6	942.5
75°	66.8	64.2	61.7	59.2	57.0	54.7	52.5	31.5	974.0
80°	40.0	39.6	39.2	38.8	35.1	31.4	27.8	19.6	993.6
85°	16.1	14.5	12.9	11.3	10.3	9.3	8.3	6.4	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	
Reflection factor of ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5
Reflection factor of walls		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3
Reflection factor of floor		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	24.6	26.3	24.9	26.6	26.9	24.2	25.9	24.6	26.2
	3H	26.2	27.7	26.6	28.0	28.4	25.6	27.2	26.0	27.5
	4H	26.8	28.2	27.2	28.6	28.9	26.1	27.6	26.5	27.9
	6H	27.3	28.6	27.7	29.0	29.3	26.5	27.8	26.9	28.1
	8H	27.5	28.7	27.9	29.1	29.5	26.6	27.8	27.0	28.2
	12H	27.6	28.7	28.0	29.1	29.5	26.6	27.8	27.0	28.1
4H	2H	25.3	26.7	25.7	27.0	27.4	25.0	26.4	25.4	26.8
	3H	27.0	28.2	27.4	28.6	29.0	26.6	27.8	27.0	28.2
	4H	27.8	28.8	28.2	29.3	29.7	27.2	28.3	27.6	28.7
	6H	28.4	29.3	28.8	29.7	30.2	27.6	28.6	28.1	29.0
	8H	28.6	29.4	29.0	29.9	30.3	27.7	28.6	28.2	29.0
	12H	28.7	29.5	29.2	29.9	30.4	27.8	28.6	28.3	29.0
8H	4H	28.0	28.9	28.5	29.3	29.8	27.5	28.4	28.0	28.8
	6H	28.8	29.5	29.3	30.0	30.5	28.1	28.8	28.6	29.3
	8H	29.0	29.7	29.5	30.2	30.7	28.3	28.9	28.8	29.4
	12H	29.2	29.8	29.7	30.3	30.8	28.4	28.9	28.9	29.4
12H	4H	28.1	28.8	28.6	29.3	29.8	27.6	28.4	28.1	28.8
	6H	28.8	29.5	29.3	29.9	30.5	28.2	28.8	28.7	29.3
	8H	29.1	29.7	29.6	30.2	30.7	28.4	28.9	28.9	29.4

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		D = 173	
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°
			Luminance in cd/m²				
45° 50° 55° 60°	γ	35410.3	35050.4	34690.6	34330.5	34070.7	33811.0
		34692.0	34283.8	33875.8	33467.6	33161.2	32855.2
		33580.9	33183.1	32785.0	32387.0	31970.9	31554.5
		32477.4	31936.7	31396.4	30855.8	30315.3	29774.7
65° 70° 75° 80°	γ	31346.4	30589.1	29831.5	29074.2	28558.8	28043.4
		29274.5	28376.8	27479.1	26581.8	25952.5	25323.5
		26672.0	25657.8	24644.5	23630.8	22748.5	21867.0
		23798.1	23556.4	23314.1	23072.4	20896.5	18721.2
85°	γ	19056.2	17189.2	15323.5	13456.5	12252.6	11048.7

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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