

Photometric test report

Family
Lunis 41

Order number: 51DR107FHCA
EAN: 4058352509951

LP number
59234_8

serial
documentation
07.12.2021

siteco



Version diffuse cover, extremely wide distribution,
adjustable color temperature: 4000 K | 5700 K

Lamps LED 5700 K | CRI ≥ 80

Controlgear ECG

Setting factory setting: colour temperature 5700K

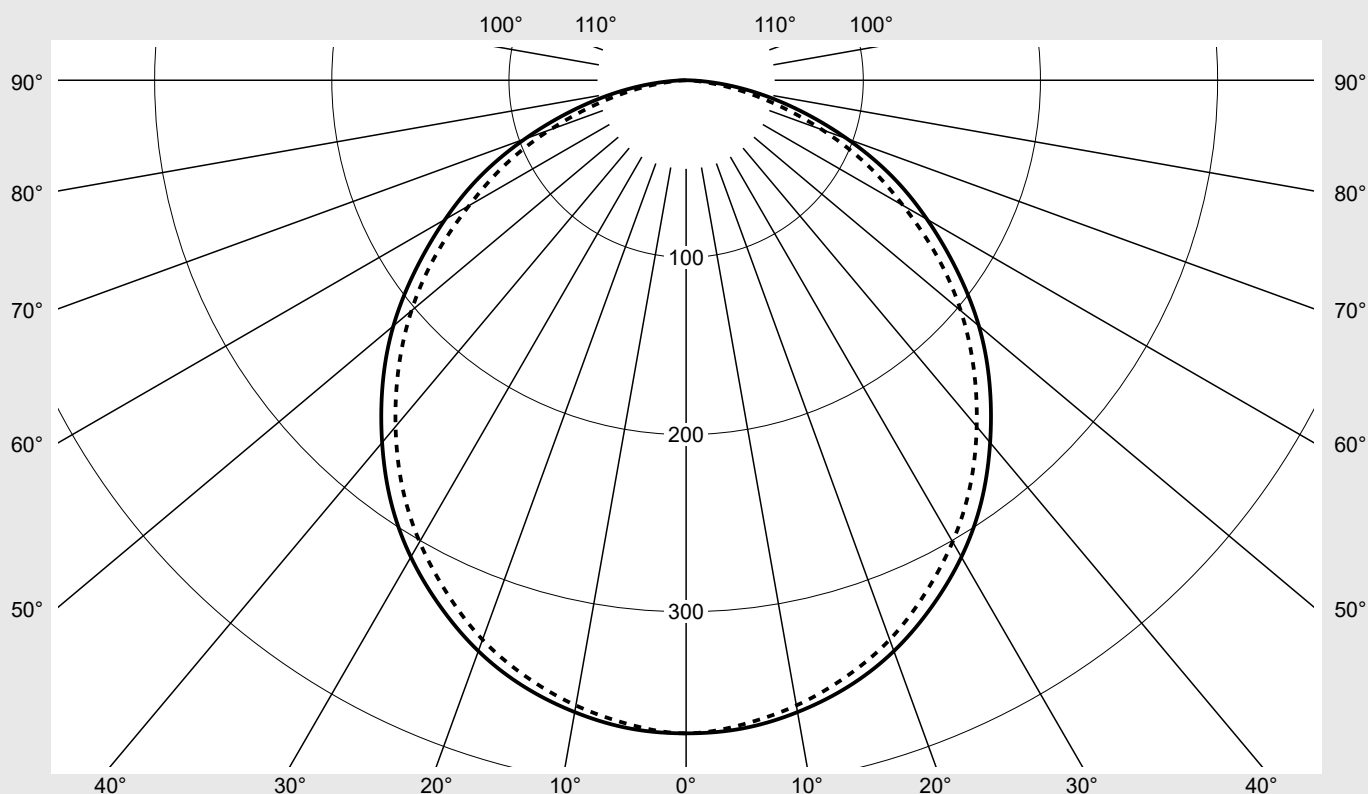
Rated values Net luminous flux = 2160 lm
Power consumption = 22.0 W
Luminous efficacy = 98.2 lm/W

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 369 cd/klm



Classifications

DIN 5040 A 4 0
CIE N1=49 N2=80 N3=96
N4=100 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 100.0%
 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	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	24.2	25.9	24.5	26.2	26.5	23.8	25.5	24.2	25.8	26.1
	3H	25.8	27.3	26.2	27.6	28.0	25.2	26.7	25.6	27.1	27.4
	4H	26.4	27.8	26.8	28.2	28.5	25.7	27.1	26.1	27.5	27.9
	6H	26.9	28.2	27.3	28.5	28.9	26.0	27.4	26.5	27.7	28.1
	8H	27.1	28.3	27.5	28.7	29.1	26.2	27.4	26.6	27.8	28.2
	12H	27.2	28.3	27.6	28.7	29.1	26.2	27.4	26.6	27.7	28.2
4H	2H	24.9	26.3	25.3	26.6	27.0	24.6	26.0	25.0	26.4	26.7
	3H	26.6	27.8	27.0	28.2	28.6	26.2	27.4	26.6	27.8	28.2
	4H	27.4	28.4	27.8	28.8	29.3	26.8	27.9	27.2	28.3	28.7
	6H	28.0	28.9	28.4	29.3	29.8	27.2	28.1	27.7	28.6	29.0
	8H	28.2	29.0	28.6	29.5	29.9	27.3	28.2	27.8	28.6	29.1
	12H	28.3	29.1	28.8	29.5	30.0	27.4	28.2	27.9	28.6	29.1
8H	4H	27.6	28.5	28.1	28.9	29.4	27.1	28.0	27.6	28.4	28.9
	6H	28.4	29.1	28.8	29.5	30.0	27.7	28.4	28.2	28.9	29.4
	8H	28.6	29.3	29.1	29.7	30.3	27.9	28.5	28.3	29.0	29.5
	12H	28.8	29.4	29.3	29.9	30.4	27.9	28.5	28.5	29.0	29.5
12H	4H	27.7	28.4	28.2	28.9	29.4	27.2	27.9	27.7	28.4	28.9
	6H	28.4	29.1	28.9	29.5	30.1	27.8	28.4	28.3	28.9	29.4
	8H	28.7	29.3	29.2	29.8	30.3	28.0	28.5	28.5	29.0	29.5

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		D = 173	
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°
γ	Luminance in cd/m²						
45°	31475.8	31155.9	30836.1	30516.0	30285.1	30054.3	29823.3
50°	30837.3	30474.5	30111.8	29749.0	29476.6	29204.6	28932.4
55°	29849.7	29496.1	29142.2	28788.5	28418.6	28048.5	27678.6
60°	28868.8	28388.2	27907.9	27427.4	26947.0	26466.4	25986.0
65°	27863.5	27190.3	26516.9	25843.7	25385.6	24927.5	24469.4
70°	26021.8	25223.9	24425.9	23628.2	23068.9	22509.8	21950.6
75°	23708.4	22807.0	21906.2	21005.1	20220.9	19437.3	18653.0
80°	21153.9	20939.0	20723.7	20508.8	18574.7	16641.0	14706.9
85°	16938.8	15279.3	13620.9	11961.3	10891.2	9821.1	8749.9

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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