

Photometric test report

Family
Lunis 41

Order number: 51DS107D43B
EAN: 4069025152121

LP number
59235_5

serial
documentation
16.01.2025

siteco

Version recessed luminaire, diffuse cover, extremely wide distribution

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG

Rated values Net luminous flux = 1580 lm
Power consumption = 12.0 W
Luminous efficacy = 131.7 lm/W

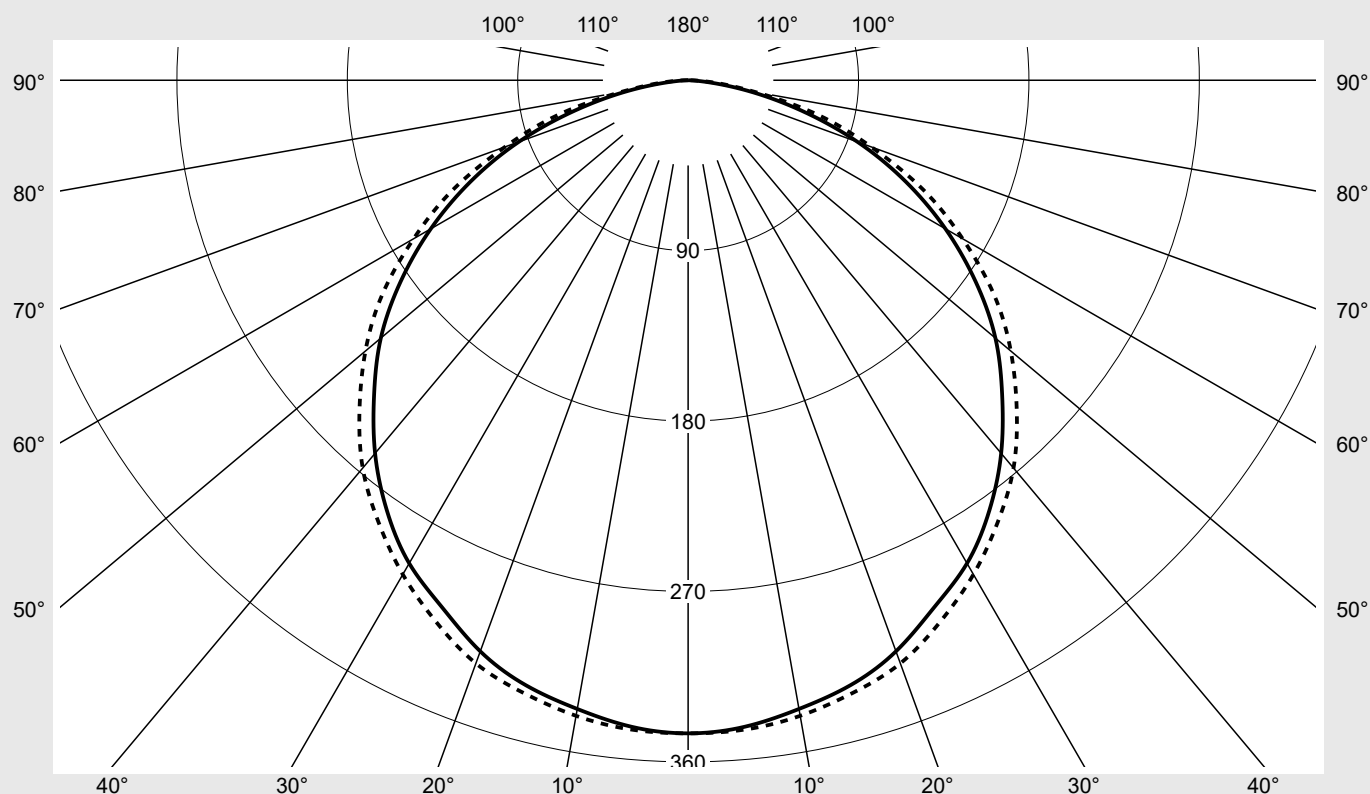


Luminous intensity in cd/klm

C180-0

C270-90

Imax: 345 cd/klm



Classifications

DIN 5040 A 4 0
CIE N1=47 N2=80 N3=97
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°	344.9	344.9	344.9	344.9	344.9	344.9	344.9	2.1	2.1
5°	342.8	344.0	345.3	344.5	343.8	344.0	344.2	16.4	18.5
10°	337.2	338.5	339.8	339.8	339.8	340.3	340.9	32.3	50.8
15°	330.8	332.2	333.6	333.6	333.6	334.4	335.1	47.3	98.1
20°	321.0	321.7	322.4	323.2	323.9	325.8	327.7	60.7	158.8
25°	307.3	309.8	312.3	312.4	312.4	313.9	315.4	72.3	231.1
30°	294.6	295.5	296.4	297.3	298.2	299.8	301.4	81.5	312.6
35°	277.4	279.1	280.8	280.3	279.9	282.5	285.1	88.2	400.8
40°	257.2	258.8	260.3	260.8	261.2	264.3	267.4	92.1	492.9
45°	234.5	236.6	238.7	238.9	239.1	242.3	245.4	92.7	585.6
50°	211.9	213.7	215.6	215.6	215.7	219.1	222.5	90.8	676.4
55°	185.4	186.8	188.2	189.0	189.8	193.5	197.1	85.2	761.6
60°	157.0	158.4	159.8	160.4	161.1	164.2	167.4	76.4	838.0
65°	126.9	126.3	125.7	127.9	130.2	133.7	137.2	64.2	902.3
70°	95.3	92.3	89.4	92.2	95.1	99.0	102.9	48.7	950.9
75°	62.0	58.6	55.2	53.5	51.8	61.7	71.6	30.7	981.6
80°	32.0	28.3	24.7	22.4	20.0	28.2	36.4	14.2	995.8
85°	8.7	7.4	6.2	5.4	4.6	9.1	13.5	4.0	999.8
90°	0.3	0.4	0.4	0.3	0.1	0.4	0.7	0.2	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	24.8	26.5	25.2	26.8	27.2	25.1	26.7	25.4	27.1	27.4
	3H	26.4	27.9	26.8	28.2	28.6	26.7	28.2	27.1	28.6	28.9
	4H	26.9	28.3	27.3	28.7	29.1	27.3	28.7	27.7	29.1	29.4
	6H	27.3	28.6	27.7	28.9	29.3	27.7	29.0	28.1	29.4	29.7
	8H	27.4	28.6	27.8	29.0	29.4	27.8	29.0	28.2	29.4	29.8
	12H	27.4	28.6	27.8	28.9	29.4	27.9	29.0	28.3	29.4	29.8
4H	2H	25.6	27.0	26.0	27.4	27.8	25.8	27.2	26.2	27.6	27.9
	3H	27.3	28.5	27.7	28.9	29.3	27.5	28.8	28.0	29.1	29.5
	4H	27.9	29.0	28.3	29.4	29.8	28.2	29.3	28.6	29.7	30.1
	6H	28.3	29.2	28.7	29.7	30.1	28.6	29.5	29.1	30.0	30.4
	8H	28.4	29.2	28.8	29.7	30.2	28.7	29.6	29.2	30.0	30.5
	12H	28.4	29.2	28.9	29.7	30.1	28.8	29.6	29.3	30.0	30.5
8H	4H	28.1	29.0	28.6	29.4	29.9	28.4	29.2	28.8	29.7	30.2
	6H	28.5	29.3	29.0	29.7	30.2	28.8	29.5	29.3	30.0	30.5
	8H	28.7	29.3	29.2	29.8	30.3	28.9	29.6	29.4	30.0	30.6
	12H	28.7	29.3	29.2	29.8	30.3	29.0	29.6	29.6	30.1	30.6
12H	4H	28.1	28.9	28.6	29.3	29.8	28.4	29.2	28.9	29.6	30.1
	6H	28.6	29.2	29.1	29.7	30.2	28.8	29.4	29.3	29.9	30.4
	8H	28.7	29.2	29.2	29.7	30.3	29.0	29.5	29.5	30.0	30.5

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		D = 136	
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°	36077.3	36394.5	36711.5	36745.5	36779.5	37266.3	37753.3
50°	35850.9	36162.0	36473.5	36486.1	36498.4	37071.4	37644.5
55°	35151.0	35416.3	35681.6	35835.2	35988.8	36686.8	37384.6
60°	34142.2	34446.3	34750.9	34894.9	35039.1	35727.6	36416.1
65°	32663.6	32512.0	32360.5	32928.7	33497.2	34406.7	35316.0
70°	30294.1	29357.5	28421.0	29334.0	30247.0	31488.2	32729.0
75°	26049.2	24625.8	23202.5	22491.0	21779.6	25925.2	30070.8
80°	20012.0	17752.7	15493.5	14017.8	12542.1	17660.6	22779.2
85°	10840.8	9278.4	7717.3	6706.4	5695.6	11300.1	16903.3

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

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