

Photometric test report

Family
Lunis 21

Order number: 51DB19MA91C
EAN: 4058352048603

LP number
59685_3

serial
documentation
27.09.2024



Version

recessed luminaire, Combined lens and reflector optics, reflector, aluminium, matt, rotationally symmetrical medium distribution, adjustable color temperature: 3000K | 4000K | 6500K

Lamps

LED 6500 K | CRI ≥ 80

Controlgear

ECG

Setting

individual position: colour temperature 6500K

Rated values

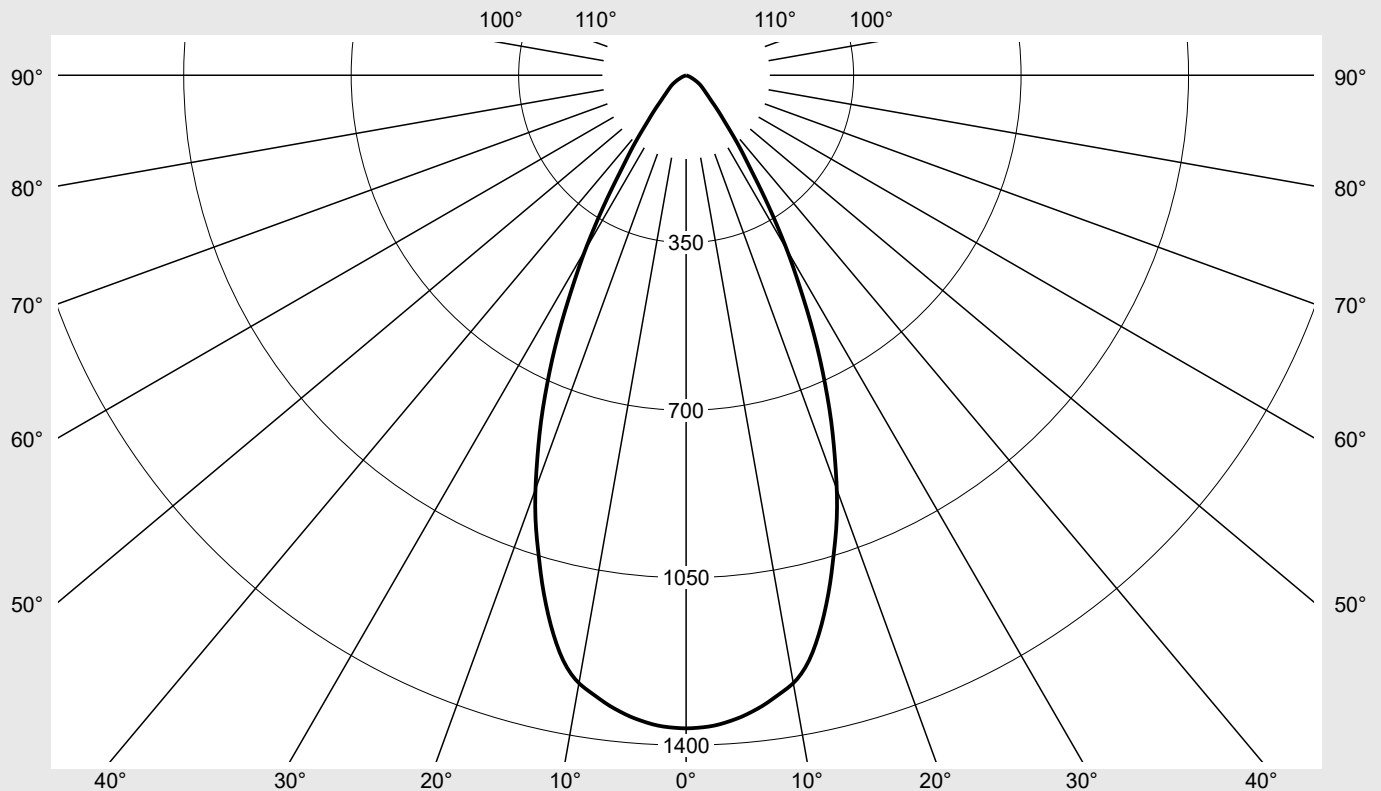
Net luminous flux = 930 lm
Power consumption = 5.9 W
Luminous efficacy = 157.6 lm/W

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Luminous intensity in cd/klm

C180-0

Imax: 1365 cd/klm



Classifications

DIN 5040 A 7 0
CIE N1=90 N2=98 N3=100
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°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
0°	1364.9	0.3	0.3
1°	1363.9	2.6	2.9
2°	1361.9	5.2	8.1
3°	1358.0	7.8	15.9
4°	1352.1	10.3	26.3
5°	1345.2	12.9	39.1
6°	1336.3	15.3	54.5
7°	1326.5	17.7	72.2
8°	1314.6	20.1	92.3
9°	1302.8	22.3	114.6
10°	1290.0	24.6	139.2
11°	1271.3	26.6	165.8
12°	1245.7	28.4	194.2
13°	1213.2	29.9	224.1
14°	1176.8	31.2	255.3
15°	1137.4	32.3	287.6
16°	1096.0	33.1	320.7
17°	1052.7	33.8	354.5
18°	1011.3	34.3	388.7
19°	968.1	34.6	423.3
20°	920.6	34.5	457.8
21°	870.2	34.2	492.0
22°	820.9	33.7	525.8
23°	771.4	33.1	558.8
24°	719.5	32.1	590.9
25°	668.4	31.0	621.9
26°	616.8	29.7	651.5
27°	564.5	28.1	679.6
28°	513.3	26.4	706.1
29°	466.6	24.8	730.9
30°	421.5	23.1	754.0
31°	375.7	21.2	775.2
32°	332.5	19.3	794.5
33°	291.9	17.4	811.9
34°	254.5	15.6	827.5
35°	224.4	14.1	841.7
36°	201.0	13.0	854.6
37°	178.8	11.8	866.4
38°	157.4	10.6	877.0
39°	138.2	9.5	886.6
40°	122.5	8.6	895.2
41°	110.7	8.0	903.2
42°	99.6	7.3	910.5
43°	89.5	6.7	917.2
44°	80.1	6.1	923.3
45°	72.6	5.6	928.9
46°	67.0	5.3	934.2

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
47°	61.9	5.0	939.2
48°	57.4	4.7	943.8
49°	53.5	4.4	948.3
50°	50.3	4.2	952.5
51°	47.2	4.0	956.5
52°	44.4	3.8	960.3
53°	41.9	3.7	964.0
54°	39.6	3.5	967.5
55°	37.3	3.4	970.9
56°	34.8	3.2	974.0
57°	31.9	2.9	977.0
58°	29.1	2.7	979.7
59°	26.2	2.5	982.2
60°	23.4	2.2	984.4
61°	20.6	2.0	986.3
62°	17.9	1.7	988.1
63°	15.3	1.5	989.6
64°	13.1	1.3	990.9
65°	11.3	1.1	992.0
66°	9.8	1.0	993.0
67°	8.4	0.8	993.8
68°	7.4	0.7	994.6
69°	6.5	0.7	995.2
70°	5.7	0.6	995.8
71°	5.1	0.5	996.3
72°	4.6	0.5	996.8
73°	4.1	0.4	997.2
74°	3.6	0.4	997.6
75°	3.2	0.3	998.0
76°	2.9	0.3	998.3
77°	2.6	0.3	998.6
78°	2.3	0.2	998.8
79°	2.0	0.2	999.0
80°	1.7	0.2	999.2
81°	1.5	0.2	999.4
82°	1.3	0.1	999.5
83°	1.1	0.1	999.6
84°	0.8	0.1	999.7
85°	0.6	0.1	999.8
86°	0.6	0.1	999.8
87°	0.5	0.1	999.9
88°	0.5	0.1	1000.0
89°	0.4	0.0	1000.0
90°	0.0	0.0	1000.0
180°	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	20.6	21.8	20.9	22.1	22.4	20.6	21.8	20.9	22.1	22.4		
	3H	20.6	21.6	21.0	21.9	22.3	20.6	21.6	21.0	21.9	22.3		
	4H	20.5	21.5	20.9	21.8	22.2	20.5	21.5	20.9	21.8	22.2		
	6H	20.5	21.3	20.9	21.7	22.1	20.5	21.3	20.9	21.7	22.1		
	8H	20.6	21.3	21.0	21.7	22.1	20.6	21.3	21.0	21.7	22.1		
	12H	20.6	21.2	21.0	21.6	22.0	20.6	21.2	21.0	21.6	22.0		
4H	2H	20.6	21.5	21.0	21.8	22.2	20.6	21.5	21.0	21.8	22.2		
	3H	20.6	21.3	21.0	21.7	22.1	20.6	21.3	21.0	21.7	22.1		
	4H	20.5	21.2	21.0	21.6	22.1	20.5	21.2	21.0	21.6	22.1		
	6H	20.5	21.1	20.9	21.5	22.0	20.5	21.1	20.9	21.5	22.0		
	8H	20.5	21.0	20.9	21.4	21.9	20.5	21.0	20.9	21.4	21.9		
	12H	20.5	20.9	21.0	21.3	21.8	20.5	20.9	21.0	21.3	21.8		
8H	4H	20.4	20.9	20.9	21.4	21.9	20.4	20.9	20.9	21.4	21.9		
	6H	20.4	20.8	20.9	21.3	21.8	20.4	20.8	20.9	21.3	21.8		
	8H	20.3	20.7	20.8	21.2	21.7	20.3	20.7	20.8	21.2	21.7		
	12H	20.3	20.6	20.9	21.1	21.7	20.3	20.6	20.9	21.1	21.7		
12H	4H	20.4	20.8	20.9	21.3	21.8	20.4	20.8	20.9	21.3	21.8		
	6H	20.4	20.7	20.9	21.2	21.7	20.4	20.7	20.9	21.2	21.7		
	8H	20.3	20.6	20.9	21.1	21.7	20.3	20.6	20.9	21.1	21.7		

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 57
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C-planes	0°
γ	Luminance in cd/m²
45°	37406.9
50°	28531.5
55°	23708.3
60°	17047.7
65°	9749.1
70°	6112.2
75°	4563.8
80°	3630.9
85°	2601.0

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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