

Photometric test report

Family
Highbay 31

Order number: 51HC41DA4JMA
EAN: 4058352454800

LP number
59121_2



Version primary light control with lens, PC, clear,
medium distribution

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 20000 lm
Power consumption = 134.0 W
Luminous efficacy = 149.3 lm/W

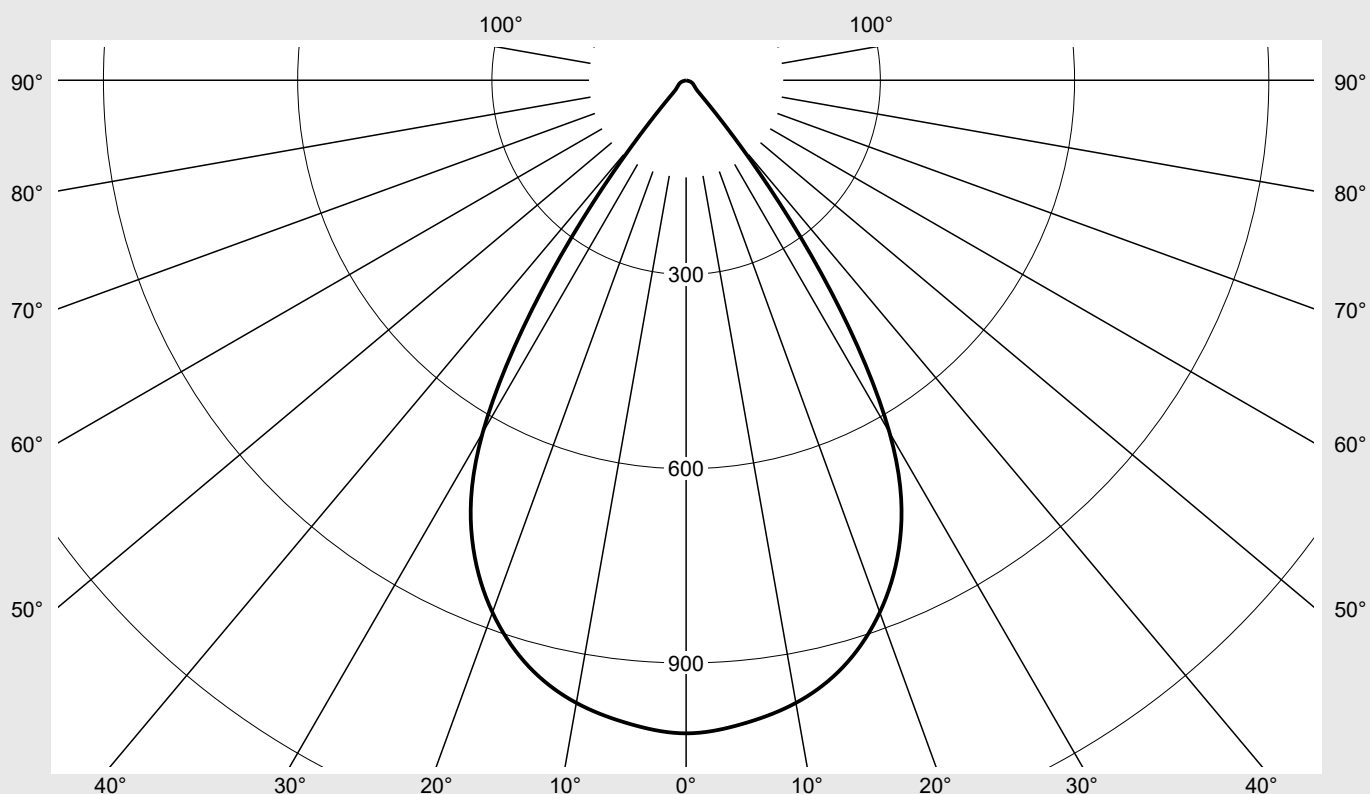
serial
documentation
11.02.2021

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Luminous intensity in cd/klm

C180-0

Imax: 1009 cd/klm



Classifications

DIN 5040 A 7 0
CIE N1=94 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°	1008.7	6.0	6.0
5°	998.0	47.7	53.7
10°	976.5	92.9	146.7
15°	937.8	133.0	279.7
20°	874.6	164.0	443.7
25°	782.1	181.2	624.8
30°	628.3	172.2	797.0
35°	363.6	114.3	911.3
40°	116.1	40.9	952.2
45°	32.5	12.6	964.8
50°	19.4	8.2	973.0
55°	15.5	7.0	980.0
60°	13.1	6.2	986.2
65°	10.6	5.3	991.4
70°	7.9	4.1	995.5
75°	5.0	2.7	998.2
80°	2.6	1.4	999.6
85°	0.8	0.4	1000.0
90°	0.0	0.0	1000.0
95°	0.0	0.0	1000.0
100°	0.0	0.0	1000.0
105°	0.0	0.0	1000.0
110°	0.0	0.0	1000.0
115°	0.0	0.0	1000.0
120°	0.0	0.0	1000.0
125°	0.0	0.0	1000.0
130°	0.0	0.0	1000.0
135°	0.0	0.0	1000.0
140°	0.0	0.0	1000.0
145°	0.0	0.0	1000.0
150°	0.0	0.0	1000.0
155°	0.0	0.0	1000.0
160°	0.0	0.0	1000.0
165°	0.0	0.0	1000.0
170°	0.0	0.0	1000.0
175°	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	20.1	21.3	20.5	21.6	21.9	20.1	21.3	20.5	21.6	21.9
	3H	20.1	21.2	20.5	21.5	21.8	20.1	21.2	20.5	21.5	21.8
	4H	20.1	21.1	20.5	21.4	21.8	20.1	21.1	20.5	21.4	21.8
	6H	20.1	21.0	20.5	21.3	21.7	20.1	21.0	20.5	21.3	21.7
	8H	20.2	20.9	20.6	21.3	21.7	20.2	20.9	20.6	21.3	21.7
	12H	20.2	20.8	20.6	21.2	21.6	20.2	20.8	20.6	21.2	21.6
4H	2H	20.0	20.9	20.4	21.3	21.6	20.0	20.9	20.4	21.3	21.6
	3H	20.0	20.8	20.4	21.2	21.6	20.0	20.8	20.4	21.2	21.6
	4H	20.0	20.7	20.5	21.1	21.6	20.0	20.7	20.5	21.1	21.6
	6H	20.0	20.6	20.5	21.1	21.5	20.0	20.6	20.5	21.1	21.5
	8H	20.0	20.5	20.5	21.0	21.5	20.0	20.5	20.5	21.0	21.5
	12H	20.0	20.4	20.5	20.9	21.4	20.0	20.4	20.5	20.9	21.4
8H	4H	20.0	20.5	20.4	20.9	21.4	20.0	20.5	20.4	20.9	21.4
	6H	20.0	20.4	20.5	20.9	21.4	20.0	20.4	20.5	20.9	21.4
	8H	19.9	20.3	20.5	20.8	21.3	19.9	20.3	20.5	20.8	21.3
	12H	19.9	20.2	20.5	20.7	21.3	19.9	20.2	20.5	20.7	21.3
12H	4H	20.0	20.4	20.5	20.9	21.4	20.0	20.4	20.5	20.9	21.4
	6H	20.0	20.3	20.5	20.8	21.3	20.0	20.3	20.5	20.8	21.3
	8H	19.9	20.2	20.5	20.7	21.3	19.9	20.2	20.5	20.7	21.3

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 311
C- planes		0°		
γ	Luminance in cd/m²			
45°	12118.4			
50°	7962.5			
55°	7119.3			
60°	6880.1			
65°	6605.4			
70°	6073.6			
75°	5123.8			
80°	3946.6			
85°	2350.2			

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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