

Photometric test report

Family
Highbay 31

Order number: 51HC417A4FMB
EAN: 4058352700013

LP number
59120_3



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

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG

Rated values Net luminous flux = 14000 lm
Power consumption = 94.0 W
Luminous efficacy = 148.9 lm/W

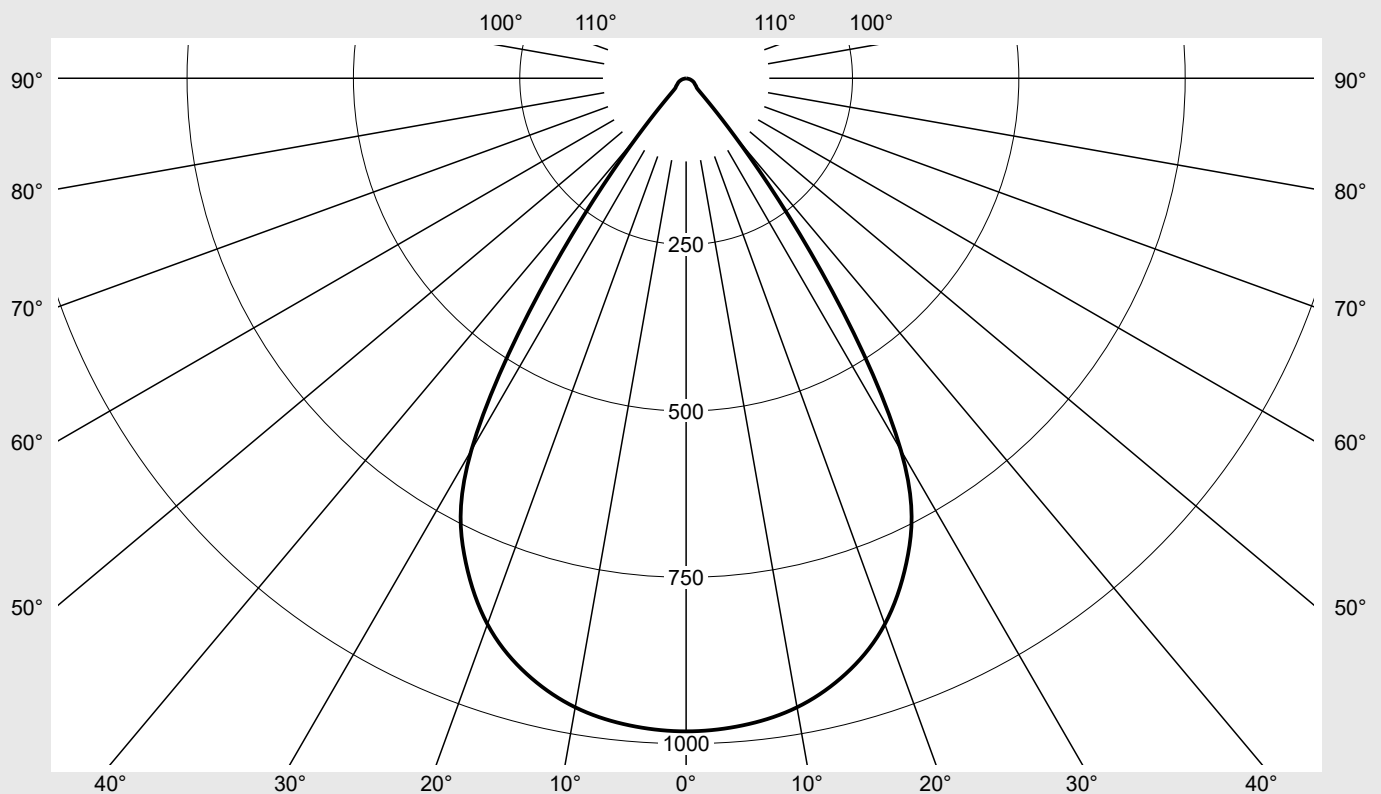
serial
documentation
16.01.2023

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Luminous intensity in cd/klm

C180-0

Imax: 981 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	siteco
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C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm	Luminous flux in lm/klm	
0°	981.5	5.9	5.9
5°	976.2	46.6	52.5
10°	959.9	91.4	143.9
15°	926.6	131.5	275.3
20°	873.1	163.7	439.0
25°	789.3	182.8	621.8
30°	645.6	176.9	798.8
35°	354.8	111.5	910.3
40°	113.9	40.1	950.4
45°	31.2	12.1	962.5
50°	20.1	8.5	971.0
55°	16.5	7.4	978.4
60°	14.1	6.7	985.0
65°	11.5	5.7	990.8
70°	8.5	4.4	995.1
75°	5.5	2.9	998.1
80°	2.8	1.5	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									
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	18.8	20.0	19.2	20.3	20.6	18.8	20.0	19.2	20.3	20.6
	3H	18.9	19.9	19.2	20.2	20.6	18.9	19.9	19.2	20.2	20.6
	4H	18.9	19.8	19.3	20.2	20.6	18.9	19.8	19.3	20.2	20.6
	6H	18.9	19.7	19.3	20.1	20.5	18.9	19.7	19.3	20.1	20.5
	8H	19.0	19.7	19.4	20.1	20.5	19.0	19.7	19.4	20.1	20.5
	12H	18.9	19.6	19.4	20.0	20.4	18.9	19.6	19.4	20.0	20.4
4H	2H	18.7	19.6	19.1	20.0	20.4	18.7	19.6	19.1	20.0	20.4
	3H	18.8	19.6	19.2	20.0	20.4	18.8	19.6	19.2	20.0	20.4
	4H	18.8	19.5	19.3	19.9	20.4	18.8	19.5	19.3	19.9	20.4
	6H	18.8	19.4	19.3	19.9	20.3	18.8	19.4	19.3	19.9	20.3
	8H	18.8	19.4	19.3	19.8	20.3	18.8	19.4	19.3	19.8	20.3
	12H	18.9	19.3	19.3	19.7	20.2	18.9	19.3	19.3	19.7	20.2
8H	4H	18.8	19.3	19.2	19.8	20.2	18.8	19.3	19.2	19.8	20.2
	6H	18.8	19.2	19.3	19.7	20.2	18.8	19.2	19.3	19.7	20.2
	8H	18.8	19.2	19.3	19.6	20.2	18.8	19.2	19.3	19.6	20.2
	12H	18.8	19.1	19.3	19.6	20.1	18.8	19.1	19.3	19.6	20.1
12H	4H	18.8	19.2	19.3	19.7	20.2	18.8	19.2	19.3	19.7	20.2
	6H	18.8	19.1	19.3	19.6	20.2	18.8	19.1	19.3	19.6	20.2
	8H	18.8	19.1	19.3	19.6	20.1	18.8	19.1	19.3	19.6	20.1

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 311
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C-planes	0°
γ	Luminance in cd/m ²
45°	8122.9
50°	5773.6
55°	5288.1
60°	5191.6
65°	5032.8
70°	4561.3
75°	3922.8
80°	2977.0
85°	1679.0

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

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