
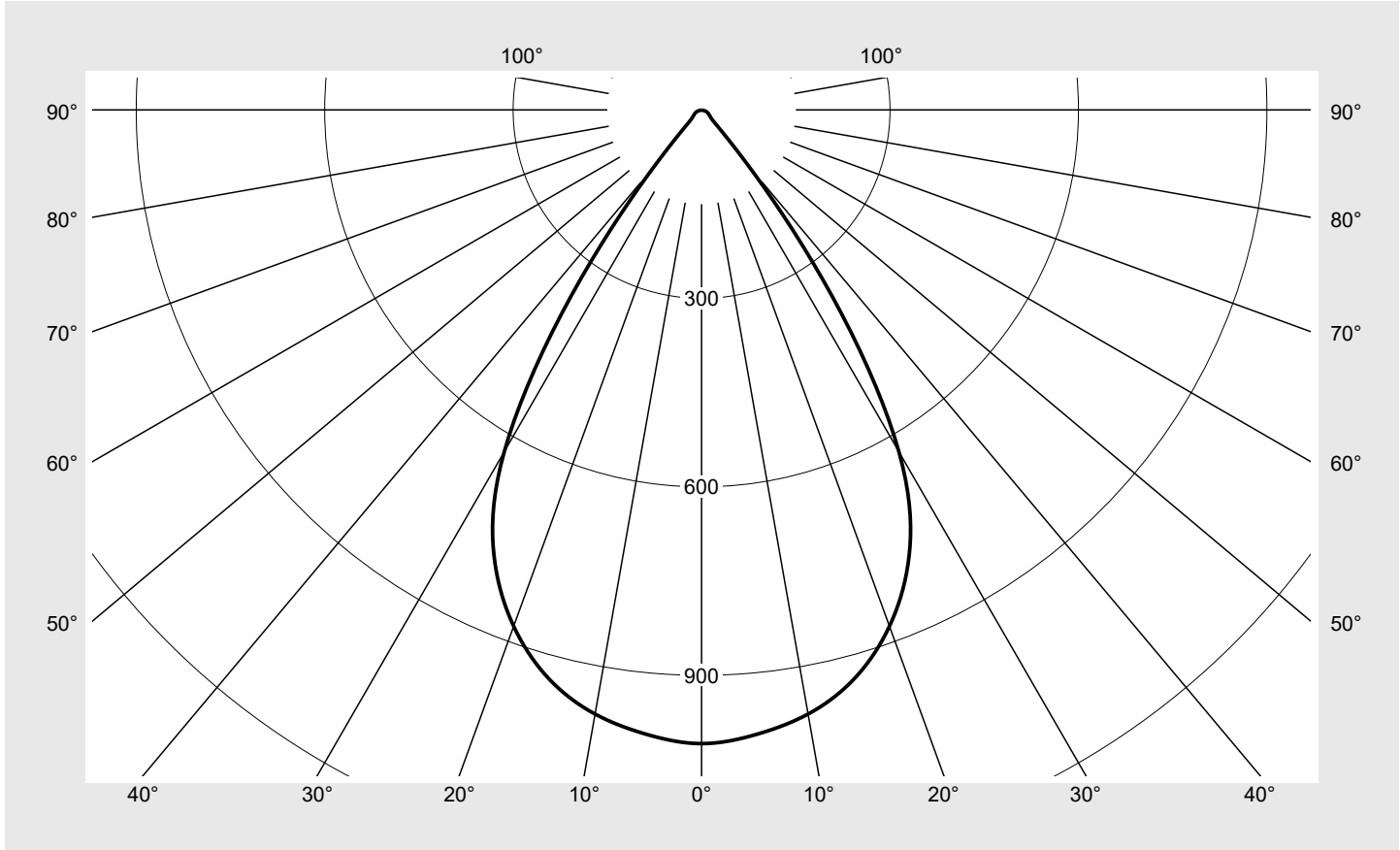


# Photometric test report

<b>Family</b> <b>Highbay 31</b>	<b>Order number: 51HC417A4JMB</b> <b>EAN: 4058352700037</b>	<b>LP number</b> <b>59121_3</b>
	<b>Version</b> primary light control with lens, PC, clear, medium distribution	<b>serial documentation</b> <b>16.01.2023</b>
	<b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG <b>Rated values</b> Net luminous flux = 20000 lm Power consumption = 134.0 W Luminous efficacy = 149.3 lm/W	



**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	
$\eta_{LB}$	100.0%
$\phi_u$	100.0%
$\phi_o$	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
$\gamma$	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								
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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
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C-planes	0°
$\gamma$	Luminance in cd/m <sup>2</sup>
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/m<sup>2</sup>**       $\gamma$  65°      $\gamma$  70°      $\gamma$  75°      $\gamma$  80°      $\gamma$  85°

