


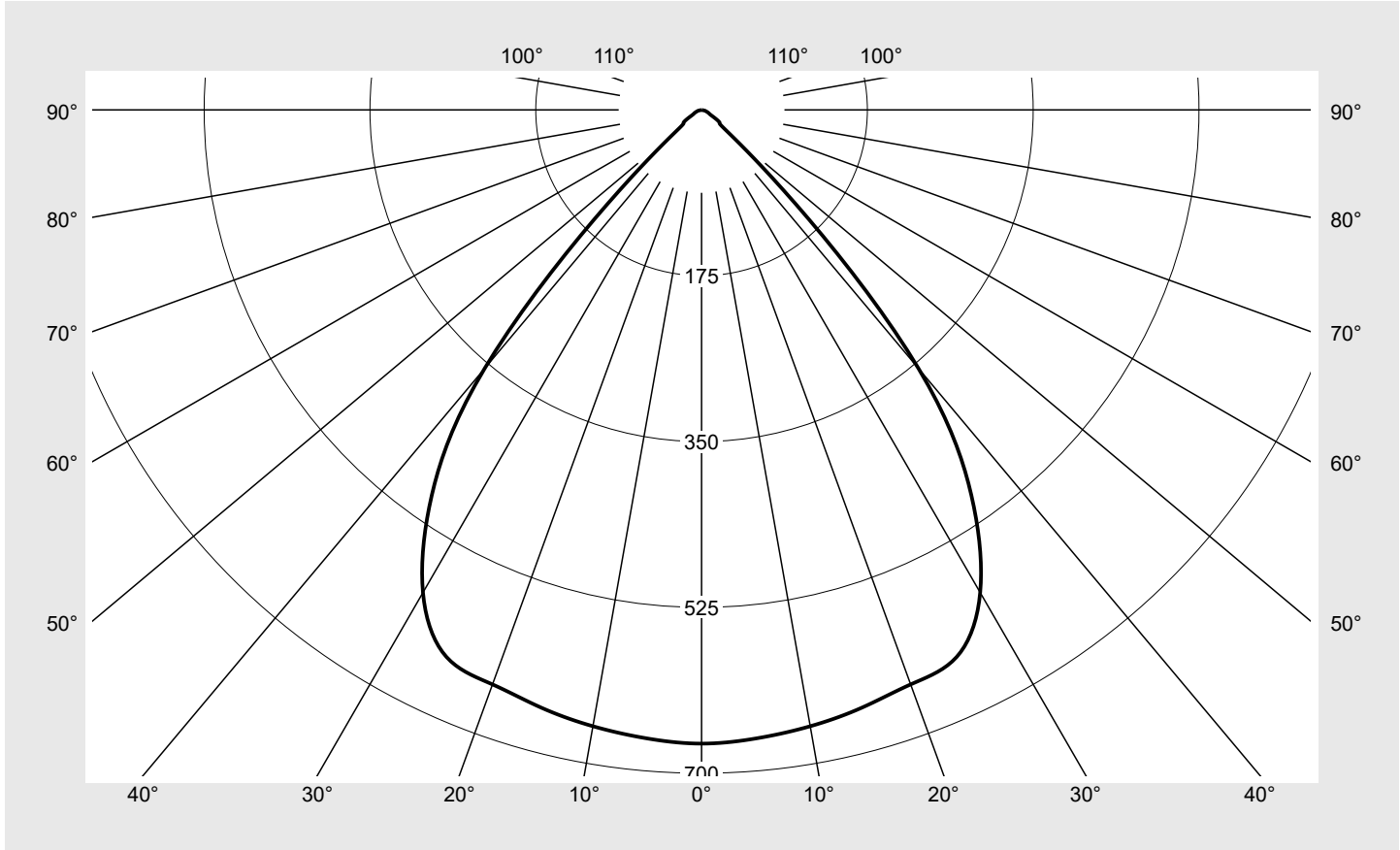


# Photometric test report

<b>Family</b> <b>Highbay 31</b>	<b>Order number: 51HC427A4MMB + 59HC91004</b> <b>EAN: 4058352700211 + 4058352463222</b>	<b>LP number</b> <b>59134_3</b>
	<b>Version</b> primary light control with lens, PC, clear, aluminium reflector, wide 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 = 25350 lm Power consumption = 187.0 W Luminous efficacy = 135.6 lm/W	

**Luminous intensity in cd/klm** C180-0 **Imax: 669 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=88 N2=99 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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**sITeco**

<b>Table of values for luminous intensities</b>	<b>Maximum luminous intensity</b>
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C-planes	0°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm	Luminous flux in lm/klm	
0°	668.8	4.0	4.0
5°	665.7	31.8	35.8
10°	660.5	62.9	98.7
15°	653.2	92.7	191.3
20°	645.2	121.0	312.3
25°	637.0	147.6	459.9
30°	588.1	161.2	621.1
35°	496.5	156.1	777.1
40°	356.1	125.5	902.6
45°	140.7	54.5	957.1
50°	35.0	14.7	971.8
55°	23.2	10.4	982.2
60°	12.9	6.1	988.3
65°	8.6	4.3	992.6
70°	6.1	3.1	995.8
75°	4.1	2.2	998.0
80°	2.6	1.4	999.3
85°	1.2	0.7	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									
		View crosswise (C0)					View endwise (C90)				
Room dimensions											
x	y										
2H	2H	19.9	21.2	20.2	21.5	21.8	19.9	21.2	20.2	21.5	21.8
	3H	19.8	20.9	20.2	21.3	21.6	19.8	20.9	20.2	21.3	21.6
	4H	19.7	20.8	20.1	21.1	21.5	19.7	20.8	20.1	21.1	21.5
	6H	19.7	20.6	20.1	21.0	21.4	19.7	20.6	20.1	21.0	21.4
	8H	19.7	20.6	20.2	20.9	21.4	19.7	20.6	20.2	20.9	21.4
	12H	19.7	20.5	20.1	20.9	21.3	19.7	20.5	20.1	20.9	21.3
4H	2H	19.7	20.8	20.1	21.1	21.5	19.7	20.8	20.1	21.1	21.5
	3H	19.6	20.5	20.0	20.9	21.3	19.6	20.5	20.0	20.9	21.3
	4H	19.6	20.3	20.0	20.7	21.2	19.6	20.3	20.0	20.7	21.2
	6H	19.5	20.2	20.0	20.6	21.1	19.5	20.2	20.0	20.6	21.1
	8H	19.5	20.1	20.0	20.5	21.0	19.5	20.1	20.0	20.5	21.0
	12H	19.5	20.0	20.0	20.4	20.9	19.5	20.0	20.0	20.4	20.9
8H	4H	19.5	20.0	19.9	20.5	21.0	19.5	20.0	19.9	20.5	21.0
	6H	19.4	19.9	19.9	20.3	20.9	19.4	19.9	19.9	20.3	20.9
	8H	19.4	19.8	19.9	20.3	20.8	19.4	19.8	19.9	20.3	20.8
	12H	19.4	19.7	19.9	20.2	20.7	19.4	19.7	19.9	20.2	20.7
12H	4H	19.4	19.9	19.9	20.4	20.9	19.4	19.9	19.9	20.4	20.9
	6H	19.4	19.8	19.9	20.3	20.8	19.4	19.8	19.9	20.3	20.8
	8H	19.3	19.7	19.9	20.2	20.7	19.3	19.7	19.9	20.2	20.7

<b>Luminance table</b>	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 570
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C-planes		0°
$\gamma$	Luminance in cd/m <sup>2</sup>	
45°	19761.5	
50°	5403.4	
55°	4012.5	
60°	2562.9	
65°	2022.0	
70°	1769.5	
75°	1591.4	
80°	1476.0	
85°	1362.1	

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**Luminance values in cd/m<sup>2</sup>**     γ 65°    γ 70°    γ 75°    γ 80°    γ 85°

