


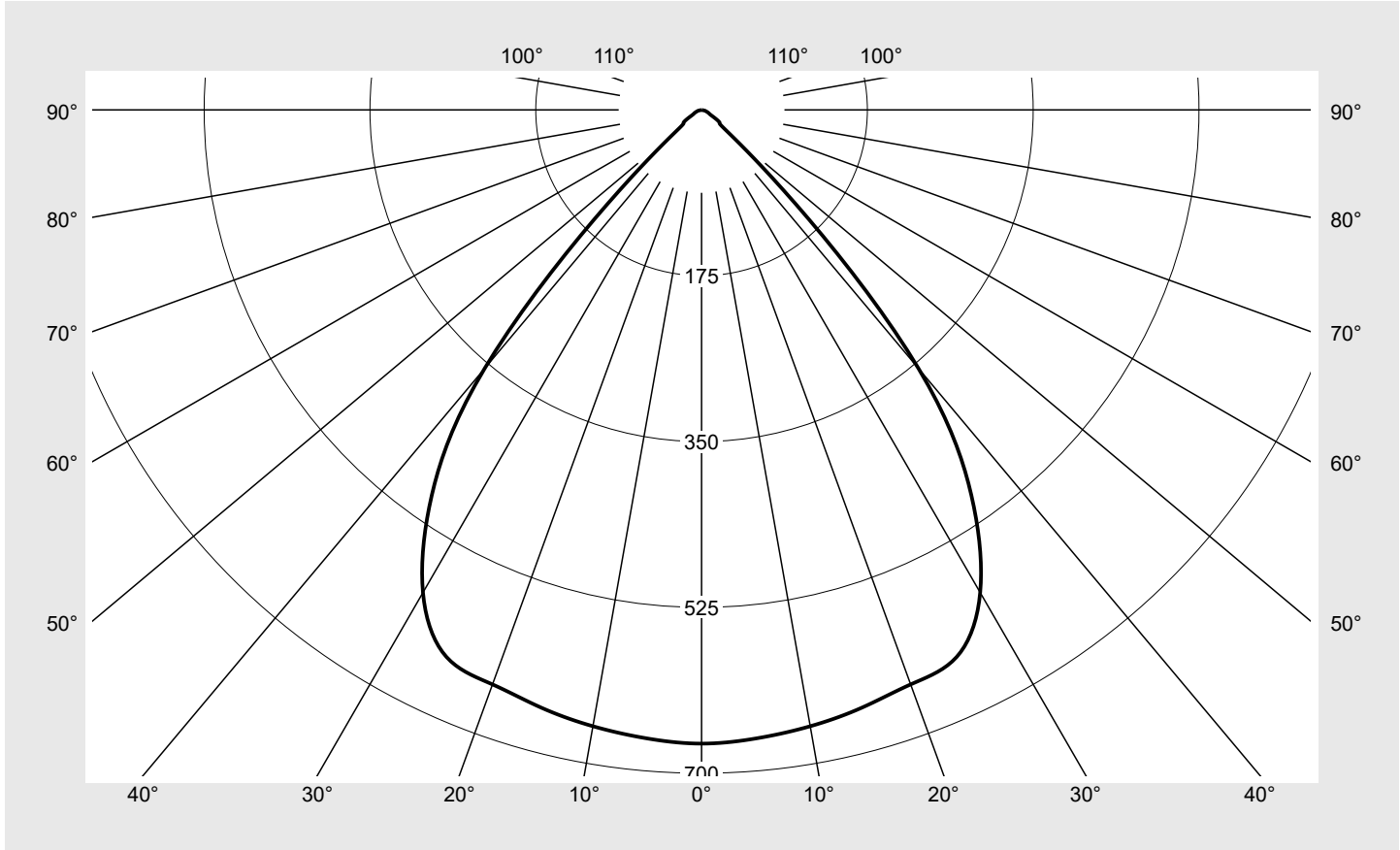


Photometric test report

Family Highbay 31	Order number: 51HC42DA4MMB + 59HC91004 EAN: 4058352700297 + 4058352463222	LP number 59134_4
	Version primary light control with lens, PC, clear, aluminium reflector, wide distribution	serial documentation 16.01.2023
	Lamps LED 4000 K CRI ≥ 80	
	Controlgear ECG-DALI	
Rated values	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	
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°	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									
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	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

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 570
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C-planes	0°
γ	Luminance in cd/m ²
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/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

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