

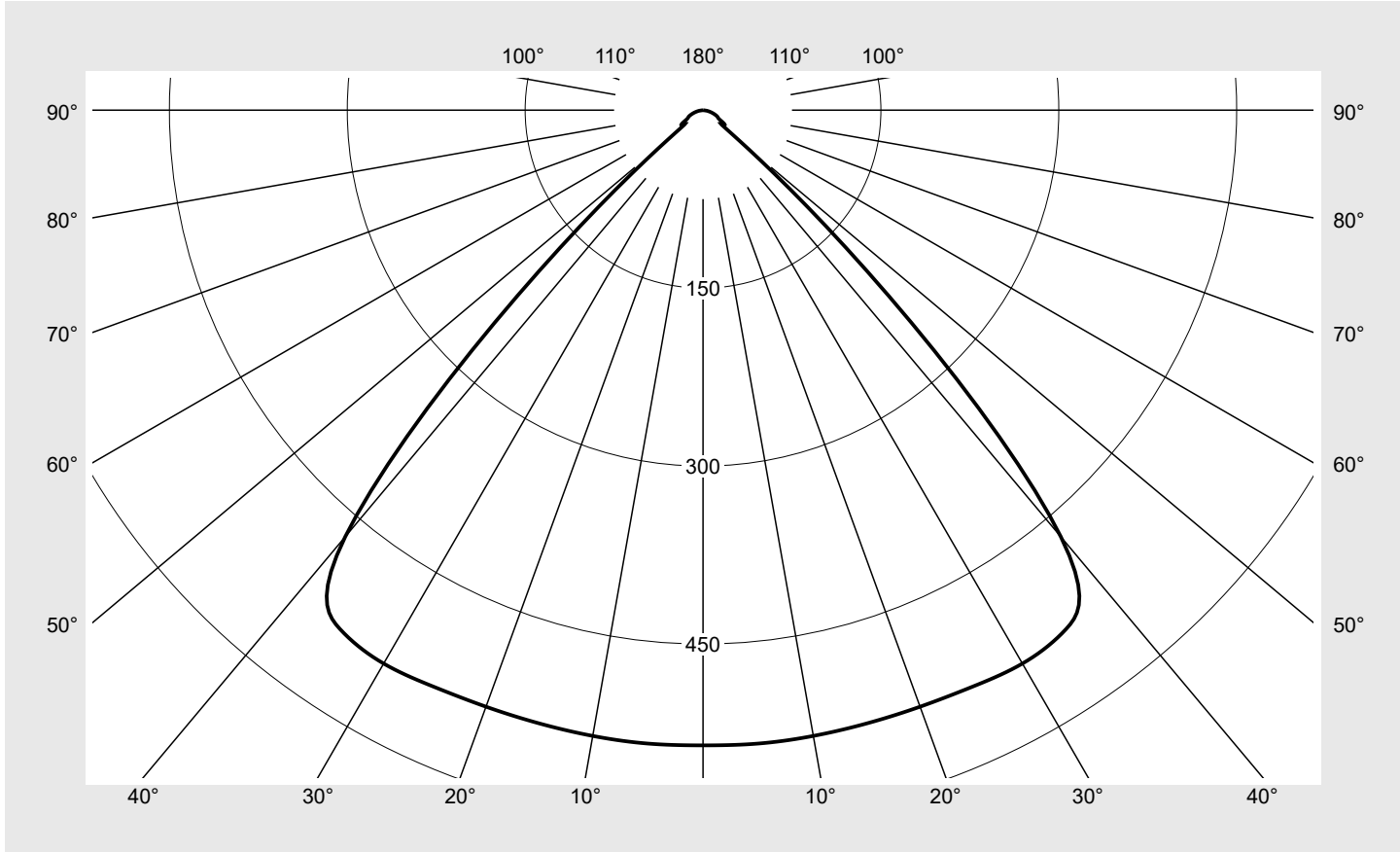


Photometric test report

Family Highbay 31	Order number: 51HC427A4MMC EAN: 4069025251183	LP number 59125_7
	Version primary light control with lens, PC, clear, wide distribution	serial documentation 04.12.2024
	Lamps LED 4000 K CRI ≥ 80	
Controlgear ECG		
Rated values Net luminous flux = 28000 lm Power consumption = 165.0 W Luminous efficacy = 169.7 lm/W		

Luminous intensity in cd/klm C180-0 **Imax: 539 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=83 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°	535.4	3.2	3.2
5°	535.9	25.6	28.8
10°	535.6	51.0	79.8
15°	535.1	75.9	155.7
20°	535.1	100.3	256.0
25°	536.5	124.3	380.3
30°	538.6	147.6	527.9
35°	533.9	167.9	695.8
40°	469.4	165.4	861.2
45°	221.6	85.9	947.0
50°	39.7	16.7	963.7
55°	21.6	9.7	973.4
60°	16.7	7.9	981.3
65°	13.5	6.7	988.0
70°	10.5	5.4	993.4
75°	7.1	3.8	997.2
80°	3.9	2.1	999.3
85°	1.3	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	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	24.5	25.8	24.9	26.2	26.5	24.5	25.8	24.9	26.2	26.5
	3H	24.4	25.6	24.8	26.0	26.3	24.4	25.6	24.8	26.0	26.3
	4H	24.4	25.5	24.8	25.9	26.2	24.4	25.5	24.8	25.9	26.2
	6H	24.4	25.4	24.8	25.7	26.1	24.4	25.4	24.8	25.7	26.1
	8H	24.4	25.3	24.8	25.7	26.1	24.4	25.3	24.8	25.7	26.1
	12H	24.4	25.2	24.8	25.6	26.0	24.4	25.2	24.8	25.6	26.0
4H	2H	24.3	25.4	24.7	25.8	26.2	24.3	25.4	24.7	25.8	26.2
	3H	24.3	25.2	24.7	25.6	26.0	24.3	25.2	24.7	25.6	26.0
	4H	24.3	25.1	24.7	25.5	25.9	24.3	25.1	24.7	25.5	25.9
	6H	24.2	24.9	24.7	25.4	25.8	24.2	24.9	24.7	25.4	25.8
	8H	24.2	24.8	24.7	25.3	25.8	24.2	24.8	24.7	25.3	25.8
	12H	24.2	24.7	24.7	25.2	25.7	24.2	24.7	24.7	25.2	25.7
8H	4H	24.2	24.8	24.7	25.3	25.7	24.2	24.8	24.7	25.3	25.7
	6H	24.2	24.7	24.7	25.1	25.7	24.2	24.7	24.7	25.1	25.7
	8H	24.1	24.6	24.7	25.1	25.6	24.1	24.6	24.7	25.1	25.6
	12H	24.1	24.5	24.6	25.0	25.5	24.1	24.5	24.6	25.0	25.5
12H	4H	24.2	24.7	24.7	25.2	25.7	24.2	24.7	24.7	25.2	25.7
	6H	24.1	24.6	24.7	25.1	25.6	24.1	24.6	24.7	25.1	25.6
	8H	24.1	24.5	24.6	25.0	25.5	24.1	24.5	24.6	25.0	25.5

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 376
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C-planes	0°
γ	Luminance in cd/m ²
45°	79010.2
50°	15570.6
55°	9496.3
60°	8416.9
65°	8062.4
70°	7717.3
75°	6906.9
80°	5651.9
85°	3793.1

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°

