
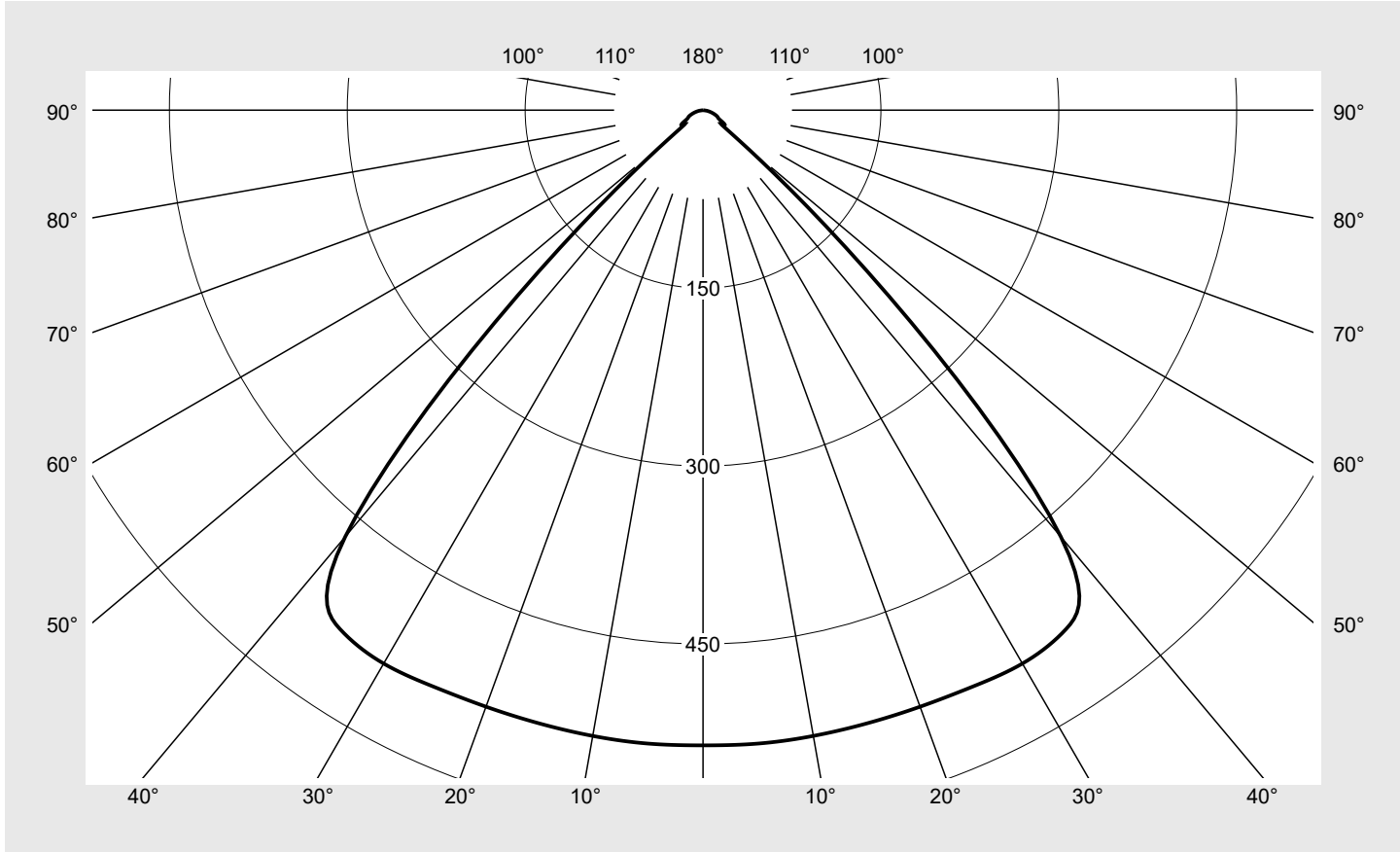


Photometric test report

Family Highbay 31	Order number: 51HC427A4MMB01 EAN: 4058352700235	LP number 59125_5
	Version primary light control with lens, PC, clear, wide distribution, PIR-sensor Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Rated values Net luminous flux = 28000 lm Power consumption = 187.0 W Luminous efficacy = 149.7 lm/W	serial documentation 16.01.2023



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
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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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LP number
59125_5

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

