

Photometric test report

Family
Highbay 31

Order number: 51HC427A4FMB + 59HC91001
EAN: 4058352700136 + 4058352463192

LP number
59129_3



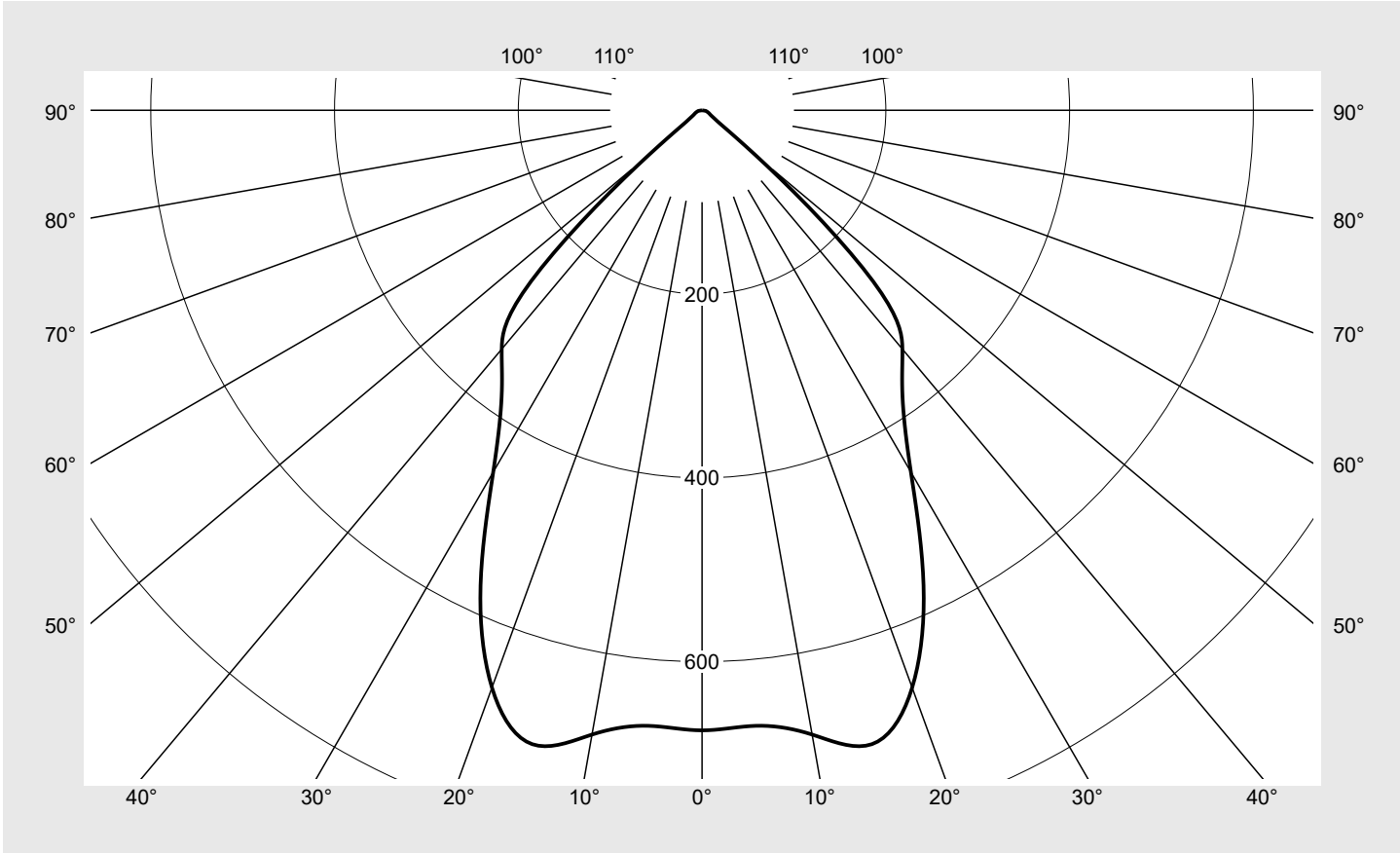
Version primary light control with lens, PC, clear, prismatic reflector, PC, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG
Rated values Net luminous flux = 13000 lm
Power consumption = 94.0 W
Luminous efficacy = 138.3 lm/W

serial documentation
16.01.2023



sitEco

Luminous intensity in cd/klm C180-0 **Imax: 714 cd/klm**



Classifications	
DIN 5040	A 6 2
CIE	N1=81 N2=98 N3=99 N4=99 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	98.8%
ϕ_o	1.2%

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°	674.7	4.0	4.0
5°	672.3	32.1	36.2
10°	689.8	65.7	101.8
15°	714.1	101.3	203.1
20°	668.5	125.3	328.5
25°	570.4	132.1	460.6
30°	454.6	124.6	585.2
35°	380.3	119.6	704.8
40°	339.2	119.5	824.3
45°	263.4	102.1	926.3
50°	75.4	31.7	958.0
55°	18.8	8.4	966.5
60°	11.5	5.5	971.9
65°	8.9	4.4	976.3
70°	7.1	3.7	980.0
75°	5.5	2.9	982.9
80°	4.2	2.3	985.2
85°	3.3	1.8	987.0
90°	2.6	1.4	988.4
95°	2.3	1.3	989.7
100°	1.9	1.0	990.7
105°	1.7	0.9	991.6
110°	1.6	0.8	992.4
115°	1.5	0.7	993.1
120°	1.4	0.7	993.8
125°	1.5	0.7	994.5
130°	1.7	0.7	995.2
135°	1.9	0.8	996.0
140°	2.1	0.8	996.7
145°	2.3	0.7	997.4
150°	2.4	0.7	998.1
155°	2.6	0.6	998.7
160°	2.7	0.5	999.2
165°	2.8	0.4	999.6
170°	2.7	0.3	999.9
175°	2.5	0.1	1000.0
180°	2.4	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	17.8	19.1	18.1	19.4	19.7	17.8	19.1	18.1	19.4	19.7
	3H	17.7	18.8	18.0	19.2	19.5	17.7	18.8	18.0	19.2	19.5
	4H	17.6	18.7	18.0	19.0	19.4	17.6	18.7	18.0	19.0	19.4
	6H	17.5	18.5	18.0	18.9	19.3	17.5	18.5	18.0	18.9	19.3
	8H	17.6	18.4	18.0	18.8	19.2	17.6	18.4	18.0	18.8	19.2
	12H	17.6	18.4	18.0	18.7	19.2	17.6	18.4	18.0	18.7	19.2
4H	2H	17.6	18.6	18.0	19.0	19.4	17.6	18.6	18.0	19.0	19.4
	3H	17.5	18.3	17.9	18.7	19.2	17.5	18.3	17.9	18.7	19.2
	4H	17.4	18.2	17.8	18.6	19.0	17.4	18.2	17.8	18.6	19.0
	6H	17.3	18.0	17.8	18.4	18.9	17.3	18.0	17.8	18.4	18.9
	8H	17.3	17.9	17.8	18.4	18.9	17.3	17.9	17.8	18.4	18.9
	12H	17.3	17.8	17.8	18.3	18.8	17.3	17.8	17.8	18.3	18.8
8H	4H	17.3	17.9	17.8	18.3	18.8	17.3	17.9	17.8	18.3	18.8
	6H	17.2	17.7	17.7	18.2	18.7	17.2	17.7	17.7	18.2	18.7
	8H	17.2	17.6	17.7	18.1	18.6	17.2	17.6	17.7	18.1	18.6
	12H	17.2	17.5	17.7	18.0	18.6	17.2	17.5	17.7	18.0	18.6
12H	4H	17.3	17.8	17.8	18.3	18.7	17.3	17.8	17.8	18.3	18.7
	6H	17.2	17.6	17.7	18.1	18.6	17.2	17.6	17.7	18.1	18.6
	8H	17.2	17.5	17.7	18.0	18.6	17.2	17.5	17.7	18.0	18.6

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 480	H(C0) = 227	H(C180) = 227
				H(C90) = 227	H(C270) = 227

C-planes		0°
γ	Luminance in cd/m ²	
45°	16701.0	
50°	4906.0	
55°	1266.4	
60°	810.4	
65°	661.1	
70°	561.3	
75°	468.1	
80°	392.5	
85°	345.7	

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

