

Photometric test report

Family Highbay 31

Order number: 51HC427A4FMA01
EAN: 4058352467039

LP number
59123_2

serial
documentation
11.02.2021



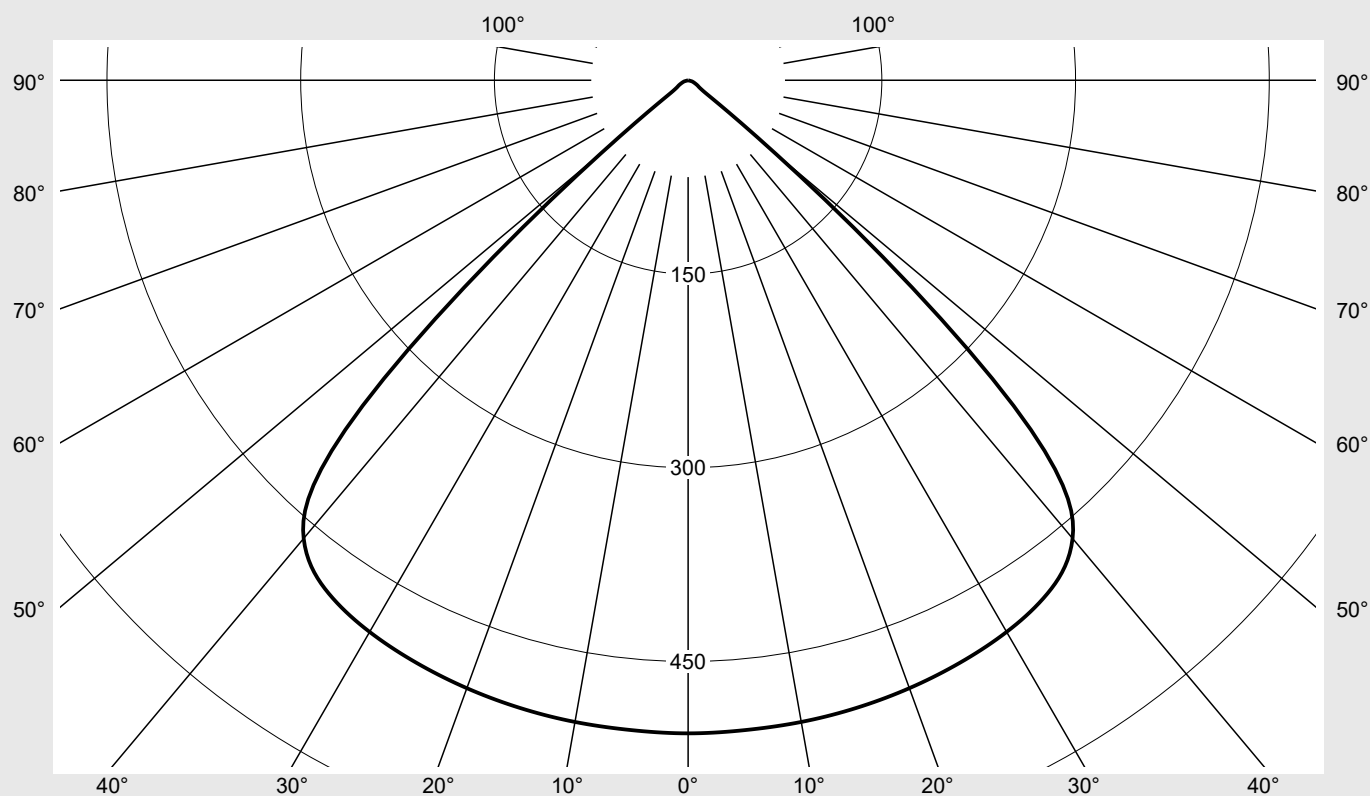
Version primary light control with lens, PC, clear, wide distribution, PIR-sensor
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG
Rated values Net luminous flux = 14000 lm
Power consumption = 94.0 W
Luminous efficacy = 148.9 lm/W

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Luminous intensity in cd/klm

C180-0

Imax: 506 cd/klm



Classifications

DIN 5040 A 6 0
CIE N1=77 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

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C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
0°	505.7	3.0	3.0
5°	505.1	24.1	27.2
10°	504.5	48.0	75.2
15°	503.2	71.4	146.6
20°	500.9	93.9	240.5
25°	497.7	115.3	355.8
30°	493.2	135.2	491.0
35°	485.2	152.5	643.5
40°	463.1	163.2	806.7
45°	356.4	138.1	944.8
50°	88.8	37.3	982.1
55°	13.4	6.0	988.1
60°	8.8	4.2	992.3
65°	6.2	3.1	995.4
70°	4.3	2.2	997.6
75°	2.7	1.4	999.0
80°	1.4	0.7	999.8
85°	0.4	0.2	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	
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	24.3	25.7	24.7	26.0	26.3	24.3	25.7	24.7	26.0	26.3
	3H	24.2	25.4	24.6	25.7	26.1	24.2	25.4	24.6	25.7	26.1
	4H	24.1	25.2	24.5	25.6	26.0	24.1	25.2	24.5	25.6	26.0
	6H	24.1	25.1	24.5	25.4	25.8	24.1	25.1	24.5	25.4	25.8
	8H	24.1	25.0	24.5	25.4	25.8	24.1	25.0	24.5	25.4	25.8
	12H	24.0	24.9	24.5	25.3	25.7	24.0	24.9	24.5	25.3	25.7
4H	2H	24.1	25.2	24.5	25.6	26.0	24.1	25.2	24.5	25.6	26.0
	3H	24.0	24.9	24.4	25.3	25.7	24.0	24.9	24.4	25.3	25.7
	4H	23.9	24.7	24.4	25.1	25.6	23.9	24.7	24.4	25.1	25.6
	6H	23.8	24.5	24.3	25.0	25.4	23.8	24.5	24.3	25.0	25.4
	8H	23.8	24.4	24.3	24.9	25.4	23.8	24.4	24.3	24.9	25.4
	12H	23.8	24.3	24.3	24.8	25.3	23.8	24.3	24.3	24.8	25.3
8H	4H	23.8	24.4	24.3	24.9	25.4	23.8	24.4	24.3	24.9	25.4
	6H	23.7	24.2	24.2	24.7	25.2	23.7	24.2	24.2	24.7	25.2
	8H	23.7	24.1	24.2	24.6	25.1	23.7	24.1	24.2	24.6	25.1
	12H	23.6	24.0	24.1	24.5	25.0	23.6	24.0	24.1	24.5	25.0
12H	4H	23.8	24.3	24.3	24.8	25.3	23.8	24.3	24.3	24.8	25.3
	6H	23.7	24.1	24.2	24.6	25.1	23.7	24.1	24.2	24.6	25.1
	8H	23.6	24.0	24.1	24.5	25.0	23.6	24.0	24.1	24.5	25.0

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 311
C- planes	0°			
γ	Luminance in cd/m²			
45°	92890.5			
50°	25469.4			
55°	4310.7			
60°	3253.6			
65°	2722.0			
70°	2305.2			
75°	1919.0			
80°	1436.0			
85°	869.1			

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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