

Photometric test report

Family
Highbay 31

Order number: 51HC427A4JMB01
EAN: 4058352700204

LP number
59124_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 = 20000 lm
Power consumption = 134.0 W
Luminous efficacy = 149.3 lm/W

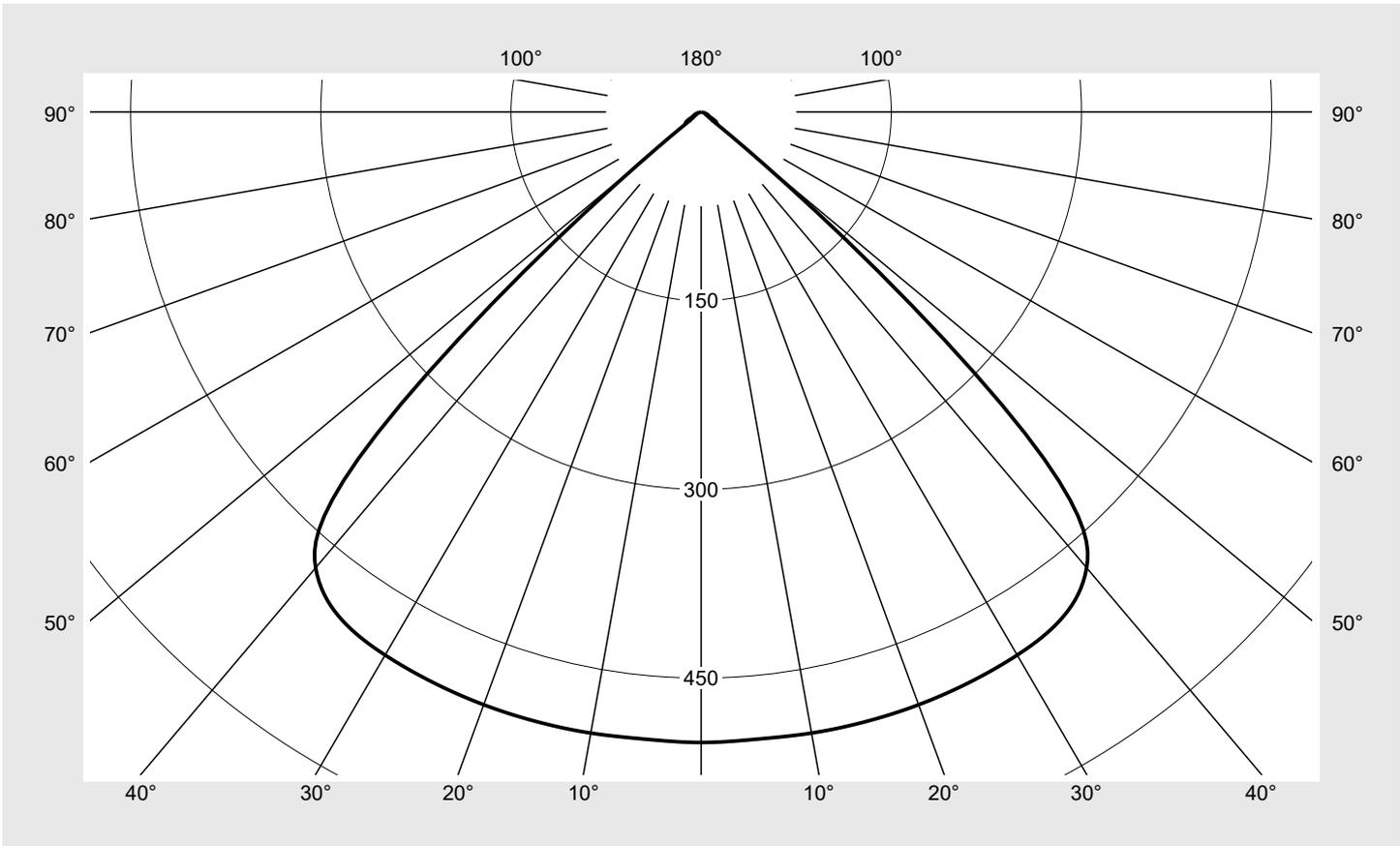
serial
documentation
16.01.2023

sitEco

Luminous intensity in cd/klm

C180-0

Imax: 502 cd/klm



Classifications

DIN 5040 A 6 0
CIE N1=78 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°	501.3	3.0	3.0
5°	500.5	23.9	26.9
10°	501.4	47.7	74.6
15°	501.7	71.2	145.8
20°	501.5	94.0	239.8
25°	500.4	115.9	355.7
30°	498.6	136.6	492.4
35°	493.4	155.1	647.5
40°	473.0	166.7	814.2
45°	361.1	140.0	954.1
50°	65.2	27.4	981.5
55°	13.3	6.0	987.5
60°	9.1	4.3	991.8
65°	6.5	3.2	995.1
70°	4.5	2.3	997.4
75°	2.9	1.5	998.9
80°	1.5	0.8	999.7
85°	0.5	0.3	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	25.5	26.9	25.9	27.2	27.5	25.5	26.9	25.9	27.2	27.5
	3H	25.4	26.6	25.8	27.0	27.3	25.4	26.6	25.8	27.0	27.3
	4H	25.4	26.5	25.8	26.8	27.2	25.4	26.5	25.8	26.8	27.2
	6H	25.3	26.3	25.7	26.7	27.1	25.3	26.3	25.7	26.7	27.1
	8H	25.3	26.2	25.7	26.6	27.0	25.3	26.2	25.7	26.6	27.0
	12H	25.3	26.1	25.7	26.5	26.9	25.3	26.1	25.7	26.5	26.9
4H	2H	25.4	26.5	25.8	26.8	27.2	25.4	26.5	25.8	26.8	27.2
	3H	25.2	26.1	25.7	26.5	26.9	25.2	26.1	25.7	26.5	26.9
	4H	25.2	26.0	25.6	26.4	26.8	25.2	26.0	25.6	26.4	26.8
	6H	25.1	25.8	25.5	26.2	26.7	25.1	25.8	25.5	26.2	26.7
	8H	25.1	25.7	25.5	26.1	26.6	25.1	25.7	25.5	26.1	26.6
	12H	25.0	25.6	25.5	26.0	26.5	25.0	25.6	25.5	26.0	26.5
8H	4H	25.1	25.7	25.5	26.1	26.6	25.1	25.7	25.5	26.1	26.6
	6H	25.0	25.5	25.5	25.9	26.5	25.0	25.5	25.5	25.9	26.5
	8H	24.9	25.4	25.4	25.8	26.4	24.9	25.4	25.4	25.8	26.4
	12H	24.9	25.2	25.4	25.7	26.3	24.9	25.2	25.4	25.7	26.3
12H	4H	25.0	25.6	25.5	26.0	26.5	25.0	25.6	25.5	26.0	26.5
	6H	24.9	25.4	25.4	25.8	26.4	24.9	25.4	25.4	25.8	26.4
	8H	24.9	25.2	25.4	25.7	26.3	24.9	25.2	25.4	25.7	26.3

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 311
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C-planes	0°
γ	Luminance in cd/m ²
45°	134460.4
50°	26718.5
55°	6113.2
60°	4777.5
65°	4066.8
70°	3476.3
75°	2936.8
80°	2257.6
85°	1519.5

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

