
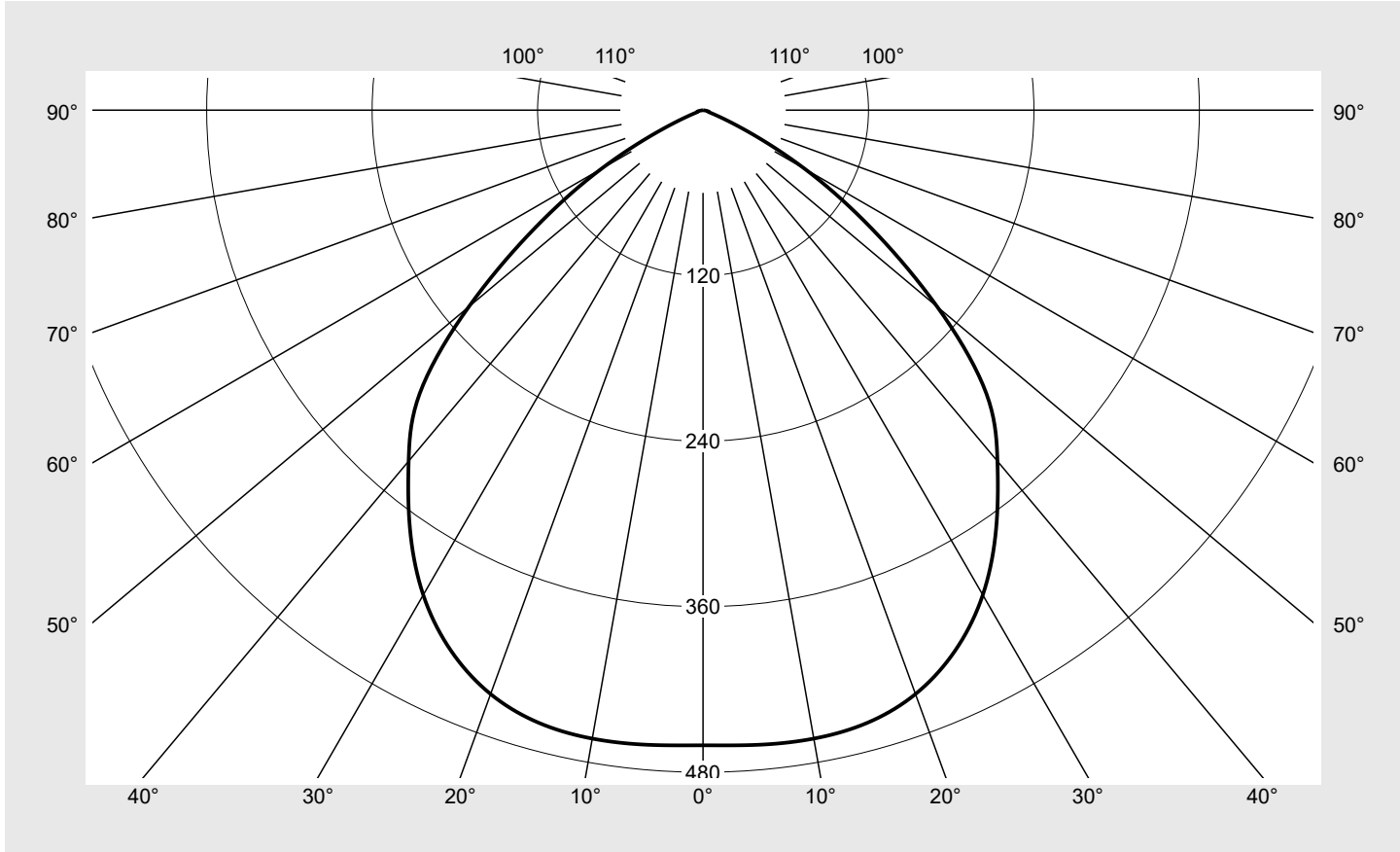


Photometric test report

Family Highbay 41	Order number: 51HP327A4FMA + 59HP91003 EAN: 4058352475614 + 4058352475843	LP number 59151_2
	Version cover panel, PC, clear, ALUSOFT reflector, extremely wide distribution	serial documentation 15.04.2021
	Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Rated values Net luminous flux = 12000 lm Power consumption = 80.0 W Luminous efficacy = 150 lm/W	
		

Luminous intensity in cd/klm C180-0 **Imax: 463 cd/klm**



Classifications	
DIN 5040	A 5 0
CIE	N1=64 N2=96 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°	460.5	2.8	2.8
5°	461.9	22.1	24.8
10°	462.6	44.0	68.9
15°	459.9	65.2	134.1
20°	450.5	84.5	218.6
25°	432.5	100.2	318.7
30°	405.8	111.2	430.0
35°	370.6	116.5	546.5
40°	332.2	117.0	663.5
45°	290.7	112.7	776.2
50°	221.7	93.1	869.3
55°	148.6	66.7	936.0
60°	85.6	40.6	976.6
65°	31.8	15.8	992.4
70°	6.4	3.3	995.7
75°	4.3	2.3	998.0
80°	2.5	1.4	999.3
85°	1.2	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									
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	22.7	24.2	23.1	24.5	24.8	22.7	24.2	23.1	24.5	24.8
	3H	22.7	24.0	23.0	24.3	24.7	22.7	24.0	23.0	24.3	24.7
	4H	22.6	23.8	23.0	24.2	24.5	22.6	23.8	23.0	24.2	24.5
	6H	22.6	23.7	23.0	24.0	24.4	22.6	23.7	23.0	24.0	24.4
	8H	22.6	23.6	23.0	24.0	24.4	22.6	23.6	23.0	24.0	24.4
	12H	22.6	23.5	23.0	23.9	24.3	22.6	23.5	23.0	23.9	24.3
4H	2H	22.8	24.0	23.2	24.4	24.7	22.8	24.0	23.2	24.4	24.7
	3H	22.7	23.8	23.2	24.1	24.6	22.7	23.8	23.2	24.1	24.6
	4H	22.7	23.6	23.1	24.0	24.4	22.7	23.6	23.1	24.0	24.4
	6H	22.6	23.4	23.1	23.8	24.3	22.6	23.4	23.1	23.8	24.3
	8H	22.6	23.3	23.1	23.7	24.2	22.6	23.3	23.1	23.7	24.2
	12H	22.6	23.2	23.1	23.7	24.2	22.6	23.2	23.1	23.7	24.2
8H	4H	22.6	23.3	23.1	23.7	24.2	22.6	23.3	23.1	23.7	24.2
	6H	22.5	23.1	23.0	23.6	24.1	22.5	23.1	23.0	23.6	24.1
	8H	22.5	23.0	23.0	23.5	24.0	22.5	23.0	23.0	23.5	24.0
	12H	22.5	22.9	23.0	23.4	23.9	22.5	22.9	23.0	23.4	23.9
12H	4H	22.6	23.2	23.1	23.6	24.1	22.6	23.2	23.1	23.6	24.1
	6H	22.5	23.0	23.0	23.5	24.0	22.5	23.0	23.0	23.5	24.0
	8H	22.5	22.9	23.0	23.4	23.9	22.5	22.9	23.0	23.4	23.9

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 435
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C-planes	0°
γ	Luminance in cd/m ²
45°	33191.5
50°	27852.1
55°	20917.0
60°	13816.3
65°	6069.9
70°	1510.2
75°	1345.5
80°	1178.7
85°	1110.8

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

