

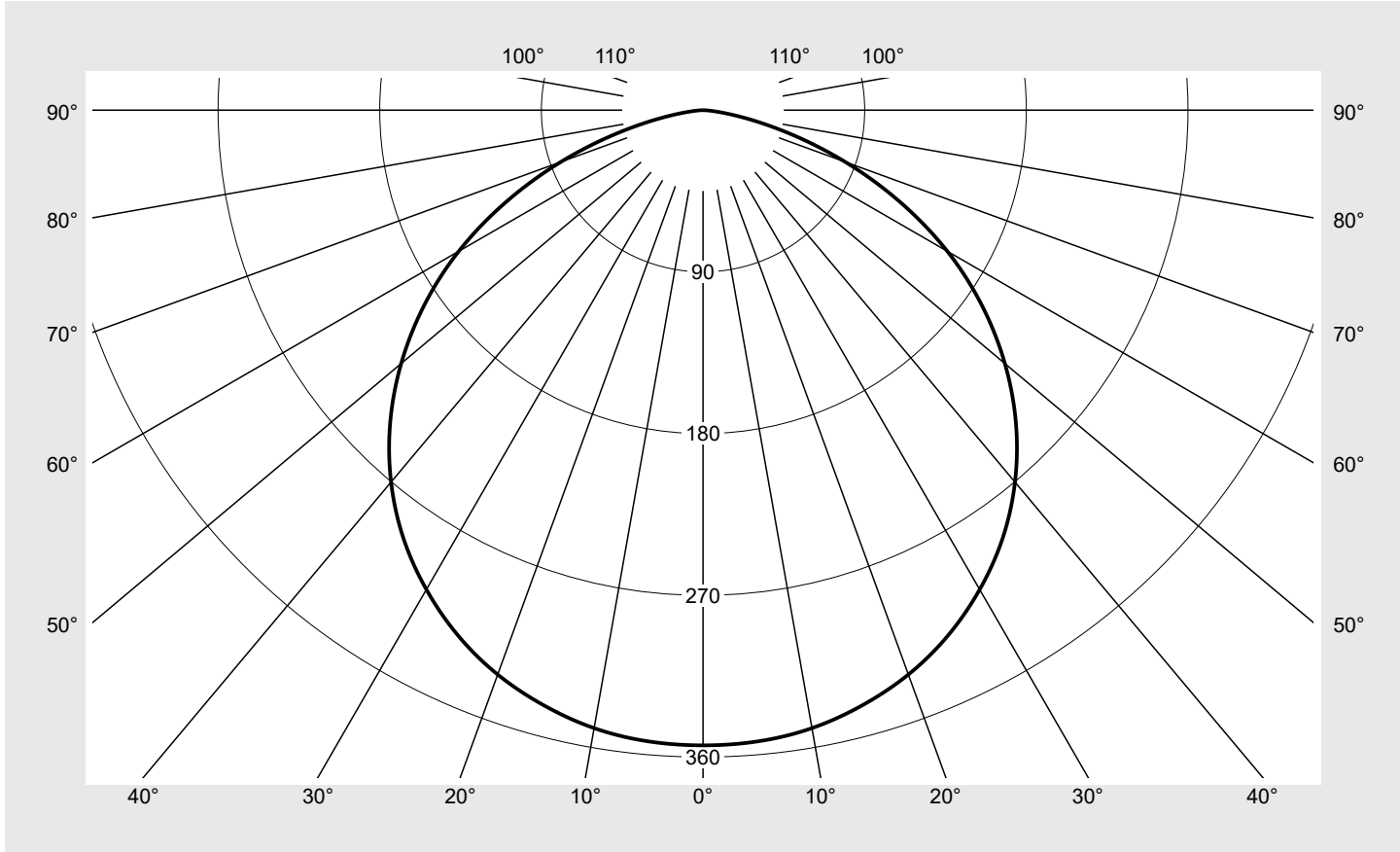


Photometric test report

Family Highbay 41	Order number: 51HP327A4FMA EAN: 4058352475614	LP number 59149_2
	Version cover panel, PC, clear, extremely wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG	serial documentation 15.04.2021
	Rated values Net luminous flux = 12800 lm Power consumption = 80.0 W Luminous efficacy = 160 lm/W	

Luminous intensity in cd/klm C180-0 **Imax: 354 cd/klm**



Classifications	
DIN 5040	A 4 0
CIE	N1=49 N2=82 N3=98 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°	353.5	2.1	2.1
5°	352.6	16.8	19.0
10°	349.2	33.2	52.2
15°	342.9	48.6	100.8
20°	334.3	62.7	163.5
25°	322.6	74.7	238.2
30°	308.1	84.4	322.7
35°	290.8	91.4	414.1
40°	270.2	95.2	509.3
45°	246.4	95.5	604.8
50°	219.4	92.1	696.9
55°	189.6	85.1	782.1
60°	157.0	74.5	856.6
65°	121.1	60.2	916.8
70°	84.3	43.4	960.2
75°	49.0	26.0	986.1
80°	20.9	11.3	997.4
85°	4.7	2.6	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	29.4	31.1	29.8	31.4	31.7	29.4	31.1	29.8	31.4	31.7
	3H	30.7	32.2	31.1	32.6	32.9	30.7	32.2	31.1	32.6	32.9
	4H	31.1	32.5	31.5	32.9	33.2	31.1	32.5	31.5	32.9	33.2
	6H	31.3	32.6	31.7	33.0	33.3	31.3	32.6	31.7	33.0	33.3
	8H	31.4	32.6	31.8	32.9	33.3	31.4	32.6	31.8	32.9	33.3
	12H	31.3	32.5	31.8	32.9	33.3	31.3	32.5	31.8	32.9	33.3
4H	2H	30.1	31.5	30.5	31.9	32.2	30.1	31.5	30.5	31.9	32.2
	3H	31.6	32.7	32.0	33.1	33.5	31.6	32.7	32.0	33.1	33.5
	4H	32.0	33.1	32.5	33.5	33.9	32.0	33.1	32.5	33.5	33.9
	6H	32.3	33.2	32.7	33.6	34.1	32.3	33.2	32.7	33.6	34.1
	8H	32.3	33.1	32.8	33.6	34.1	32.3	33.1	32.8	33.6	34.1
	12H	32.3	33.1	32.8	33.5	34.0	32.3	33.1	32.8	33.5	34.0
8H	4H	32.2	33.1	32.7	33.5	34.0	32.2	33.1	32.7	33.5	34.0
	6H	32.5	33.2	33.0	33.7	34.2	32.5	33.2	33.0	33.7	34.2
	8H	32.5	33.2	33.0	33.6	34.2	32.5	33.2	33.0	33.6	34.2
	12H	32.6	33.1	33.1	33.6	34.1	32.6	33.1	33.1	33.6	34.1
12H	4H	32.2	33.0	32.7	33.4	33.9	32.2	33.0	32.7	33.4	33.9
	6H	32.5	33.1	33.0	33.6	34.1	32.5	33.1	33.0	33.6	34.1
	8H	32.6	33.1	33.1	33.6	34.1	32.6	33.1	33.1	33.6	34.1

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 203
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C-planes	0°
γ	Luminance in cd/m ²
45°	137791.4
50°	134975.1
55°	130744.4
60°	124196.7
65°	113347.0
70°	97425.4
75°	74923.9
80°	47592.9
85°	21535.7

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

