


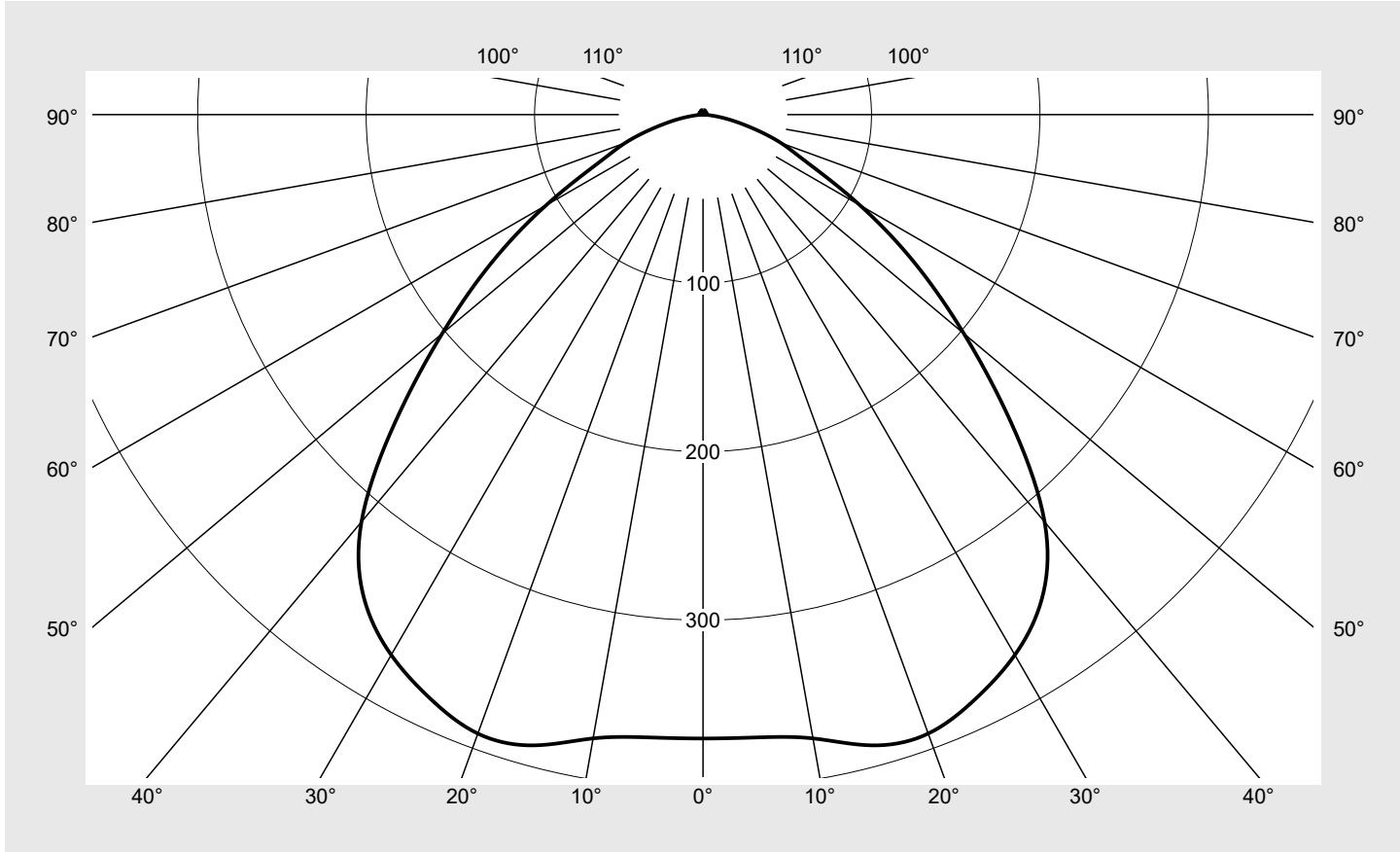


# Photometric test report

<b>Family</b> <b>Highbay 41</b>	<b>Order number: 51HP327A4HMA + 59HP91001</b> <b>EAN: 4058352475621 + 4058352475829</b>	<b>LP number</b> <b>59150_3</b>
	<b>Version</b> cover panel, PC, clear, prismatic reflector, PC, extremely wide distribution	<b>serial documentation</b> <b>15.04.2021</b>
	<b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG <b>Rated values</b> Net luminous flux = 18600 lm Power consumption = 120.0 W Luminous efficacy = 155 lm/W	
		

**Luminous intensity in cd/klm** C180-0 **Imax: 391 cd/klm**



Classifications	
DIN 5040	A 5 2
CIE	N1=58 N2=89 N3=98 N4=99 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	98.6%
$\phi_o$	1.4%

**Measurement conditions**  
 DIN EN 13032 and DIN 5032

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Table of values for luminous intensities	Maximum luminous intensity	<b>sITeco</b>
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C-planes	0°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm	Luminous flux in lm/klm	
0°	370.2	2.2	2.2
5°	371.0	17.7	19.9
10°	375.9	35.8	55.7
15°	387.5	55.0	110.7
20°	390.9	73.3	184.0
25°	382.6	88.6	272.6
30°	370.2	101.5	374.1
35°	350.7	110.3	484.3
40°	315.5	111.1	595.5
45°	258.8	100.3	695.8
50°	202.1	84.9	780.7
55°	153.3	68.9	849.5
60°	107.6	51.1	900.6
65°	69.8	34.7	935.3
70°	49.3	25.4	960.7
75°	29.3	15.5	976.1
80°	14.2	7.7	983.8
85°	3.8	2.1	985.9
90°	1.8	1.0	986.9
95°	1.7	0.9	987.8
100°	1.7	0.9	988.8
105°	1.7	0.9	989.7
110°	2.0	1.0	990.7
115°	2.3	1.1	991.8
120°	2.4	1.1	992.9
125°	2.1	1.0	993.9
130°	2.2	0.9	994.8
135°	2.3	0.9	995.7
140°	2.4	0.8	996.6
145°	2.5	0.8	997.4
150°	2.6	0.7	998.1
155°	2.7	0.6	998.7
160°	2.8	0.5	999.2
165°	2.7	0.4	999.6
170°	2.6	0.2	999.9
175°	2.4	0.1	1000.0
180°	2.6	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	23.3	24.9	23.7	25.2	25.5	23.3	24.9	23.7	25.2	25.5
	3H	23.8	25.2	24.2	25.5	25.9	23.8	25.2	24.2	25.5	25.9
	4H	23.9	25.2	24.3	25.6	26.0	23.9	25.2	24.3	25.6	26.0
	6H	24.0	25.2	24.4	25.6	25.9	24.0	25.2	24.4	25.6	25.9
	8H	24.0	25.1	24.4	25.5	25.9	24.0	25.1	24.4	25.5	25.9
	12H	24.0	25.0	24.4	25.4	25.9	24.0	25.0	24.4	25.4	25.9
4H	2H	23.6	24.9	24.0	25.3	25.7	23.6	24.9	24.0	25.3	25.7
	3H	24.2	25.3	24.6	25.7	26.1	24.2	25.3	24.6	25.7	26.1
	4H	24.4	25.4	24.9	25.8	26.2	24.4	25.4	24.9	25.8	26.2
	6H	24.5	25.3	24.9	25.8	26.2	24.5	25.3	24.9	25.8	26.2
	8H	24.5	25.3	25.0	25.7	26.2	24.5	25.3	25.0	25.7	26.2
	12H	24.5	25.2	25.0	25.6	26.1	24.5	25.2	25.0	25.6	26.1
8H	4H	24.5	25.2	24.9	25.7	26.2	24.5	25.2	24.9	25.7	26.2
	6H	24.6	25.2	25.1	25.7	26.2	24.6	25.2	25.1	25.7	26.2
	8H	24.6	25.1	25.1	25.6	26.1	24.6	25.1	25.1	25.6	26.1
	12H	24.6	25.0	25.1	25.5	26.1	24.6	25.0	25.1	25.5	26.1
12H	4H	24.5	25.1	25.0	25.6	26.1	24.5	25.1	25.0	25.6	26.1
	6H	24.6	25.1	25.1	25.6	26.1	24.6	25.1	25.1	25.6	26.1
	8H	24.6	25.0	25.1	25.5	26.1	24.6	25.0	25.1	25.5	26.1

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 410	H(C0) = 123 H(C90) = 123	H(C180) = 123 H(C270) = 123
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C-planes	0°
$\gamma$	Luminance in cd/m <sup>2</sup>
45°	37313.9
50°	30445.2
55°	24369.8
60°	18249.1
65°	12785.1
70°	9906.4
75°	6565.9
80°	3634.2
85°	1159.5

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**Luminance values in cd/m<sup>2</sup>**     γ 65°   γ 70°   γ 75°   γ 80°   γ 85°     **siteco**

