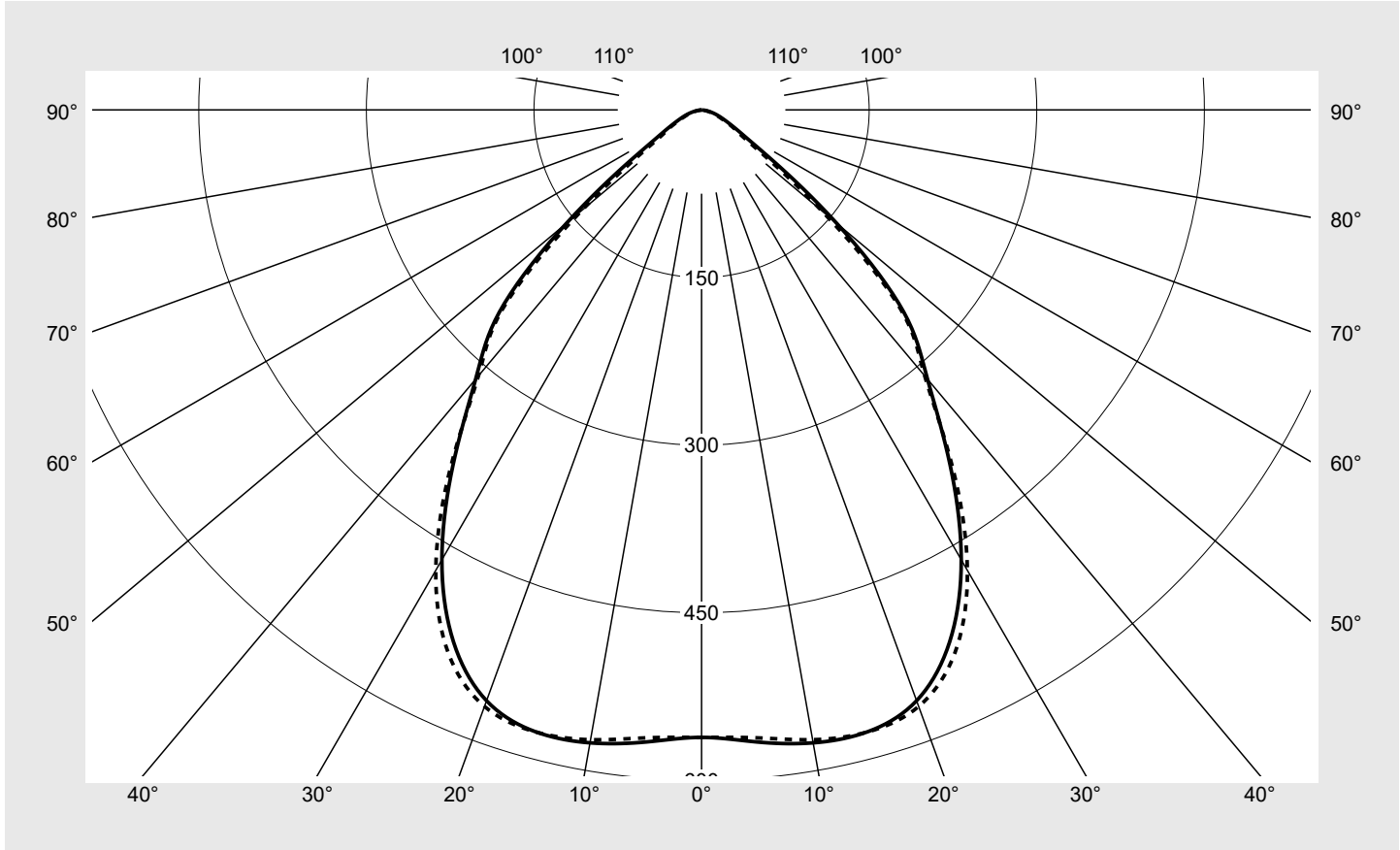


# Photometric test report

<b>Family</b> <b>Highbay 21</b>	<b>Order number: 51HK42DA4JCA</b> <b>EAN: 4058352883501</b>	<b>LP number</b> <b>59526_2</b>
	<b>Version</b> primary light control with lens, cover, polycarbonate, symmetric wide distribution, UGR≤25	<b>serial documentation</b> <b>19.12.2023</b>
	<b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 19200 lm Power consumption = 107.0 W Luminous efficacy = 179.4 lm/W	



**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 582 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=74 N2=96 N3=100 N4=100 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	100.0%
$\phi_o$	0.0%

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

### Photometric test report

Family Highbay 21	Order number: 51HK42DA4JCA EAN: 4058352883501	LP number 59526_2
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Table of values for luminous intensities	Maximum luminous intensity
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C-planes γ	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Luminous intensity in cd/klm							Luminous flux in lm/klm		
0°	561.5	561.5	561.5	561.5	561.5	561.5	561.5	3.4	3.4
5°	567.8	568.3	568.6	568.4	566.4	561.2	564.1	27.1	30.4
10°	575.1	575.9	576.4	576.2	575.1	570.7	572.3	54.7	85.1
15°	575.9	577.7	580.2	582.1	578.9	574.6	576.1	82.0	167.2
20°	562.6	565.3	569.8	570.9	569.7	564.9	568.1	106.4	273.6
25°	525.3	529.0	534.2	537.8	536.8	532.8	536.3	123.6	397.2
30°	464.8	468.0	473.9	480.5	479.8	473.7	475.8	130.0	527.2
35°	387.8	391.6	399.7	405.4	403.0	393.9	392.3	124.9	652.1
40°	314.6	316.8	320.6	317.5	313.9	311.4	310.7	111.1	763.2
45°	255.9	251.3	238.4	225.2	224.9	239.0	251.7	92.5	855.8
50°	157.8	156.2	151.9	148.5	143.7	140.5	139.9	62.3	918.0
55°	72.7	74.4	78.2	78.4	70.7	61.7	57.9	32.1	950.1
60°	39.0	41.5	45.7	45.5	40.0	35.4	34.3	19.4	969.5
65°	25.0	27.0	30.4	30.9	26.9	23.1	22.1	13.4	982.9
70°	16.8	17.8	19.4	19.6	17.9	15.3	14.5	9.1	991.9
75°	10.5	10.7	10.8	10.7	10.2	8.9	8.5	5.4	997.3
80°	5.1	4.9	4.6	4.3	4.2	3.7	3.5	2.3	999.7
85°	1.1	0.9	0.7	0.6	0.5	0.5	0.3	0.3	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

## Photometric test report

Family Highbay 21	Order number: 51HK42DA4JCA EAN: 4058352883501	LP number 59526_2
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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	24.7	26.1	25.0	26.4	26.7	24.3	25.7	24.7	26.0	26.4
	3H	24.8	26.0	25.1	26.3	26.7	24.4	25.6	24.8	25.9	26.3
	4H	24.8	25.9	25.2	26.3	26.7	24.4	25.5	24.8	25.9	26.2
	6H	24.8	25.8	25.2	26.2	26.6	24.3	25.4	24.7	25.7	26.1
	8H	24.8	25.7	25.2	26.1	26.5	24.4	25.3	24.8	25.7	26.1
	12H	24.8	25.7	25.2	26.1	26.5	24.3	25.2	24.8	25.6	26.0
4H	2H	24.7	25.8	25.1	26.2	26.6	24.4	25.5	24.8	25.9	26.2
	3H	24.9	25.8	25.3	26.2	26.6	24.5	25.4	24.9	25.8	26.2
	4H	24.9	25.7	25.3	26.1	26.6	24.5	25.3	24.9	25.7	26.2
	6H	24.9	25.6	25.4	26.1	26.5	24.5	25.2	24.9	25.6	26.1
	8H	24.9	25.5	25.4	26.0	26.5	24.5	25.1	24.9	25.6	26.0
	12H	24.9	25.4	25.4	25.9	26.4	24.4	25.0	24.9	25.5	26.0
8H	4H	24.9	25.5	25.3	26.0	26.4	24.5	25.1	24.9	25.6	26.0
	6H	24.9	25.4	25.4	25.9	26.4	24.5	25.0	25.0	25.5	26.0
	8H	24.8	25.3	25.4	25.8	26.3	24.4	24.9	24.9	25.4	25.9
	12H	24.8	25.2	25.4	25.7	26.3	24.4	24.8	24.9	25.3	25.8
12H	4H	24.9	25.4	25.3	25.9	26.4	24.5	25.0	25.0	25.5	26.0
	6H	24.9	25.3	25.4	25.8	26.3	24.4	24.9	25.0	25.4	25.9
	8H	24.8	25.2	25.3	25.7	26.3	24.4	24.8	24.9	25.3	25.8

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 450 B = 168
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C-planes	$\gamma$	0° 180°	15°	30°	45°	60°	75°	90° 270°
			165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	
Luminance in cd/m²								
45°		91919.4	90241.0	85617.5	80898.0	80786.3	85857.0	90406.2
50°		62340.4	61716.9	60006.1	58655.2	56785.6	55514.9	55258.1
55°		32195.4	32932.2	34616.1	34711.7	31282.4	27297.8	25648.0
60°		19813.6	21078.3	23200.0	23136.0	20327.1	17969.3	17435.4
65°		15033.1	16239.2	18256.0	18551.6	16152.7	13902.7	13265.8
70°		12486.8	13216.7	14405.5	14583.0	13277.6	11381.1	10738.8
75°		10339.5	10507.3	10569.1	10476.9	9972.5	8728.3	8294.6
80°		7401.9	7210.3	6768.7	6308.0	6148.5	5468.5	5158.4
85°		3074.2	2747.9	1972.8	1666.8	1524.0	1314.2	813.0

# Photometric test report

<b>Family</b> <b>Highbay 21</b>	<b>Order number: 51HK42DA4JCA</b> <b>EAN: 4058352883501</b>	<b>LP number</b> <b>59526_2</b>
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**Luminance values in cd/m<sup>2</sup>**     γ 65°   γ 70°   γ 75°   γ 80°   γ 85°     **siteco**

