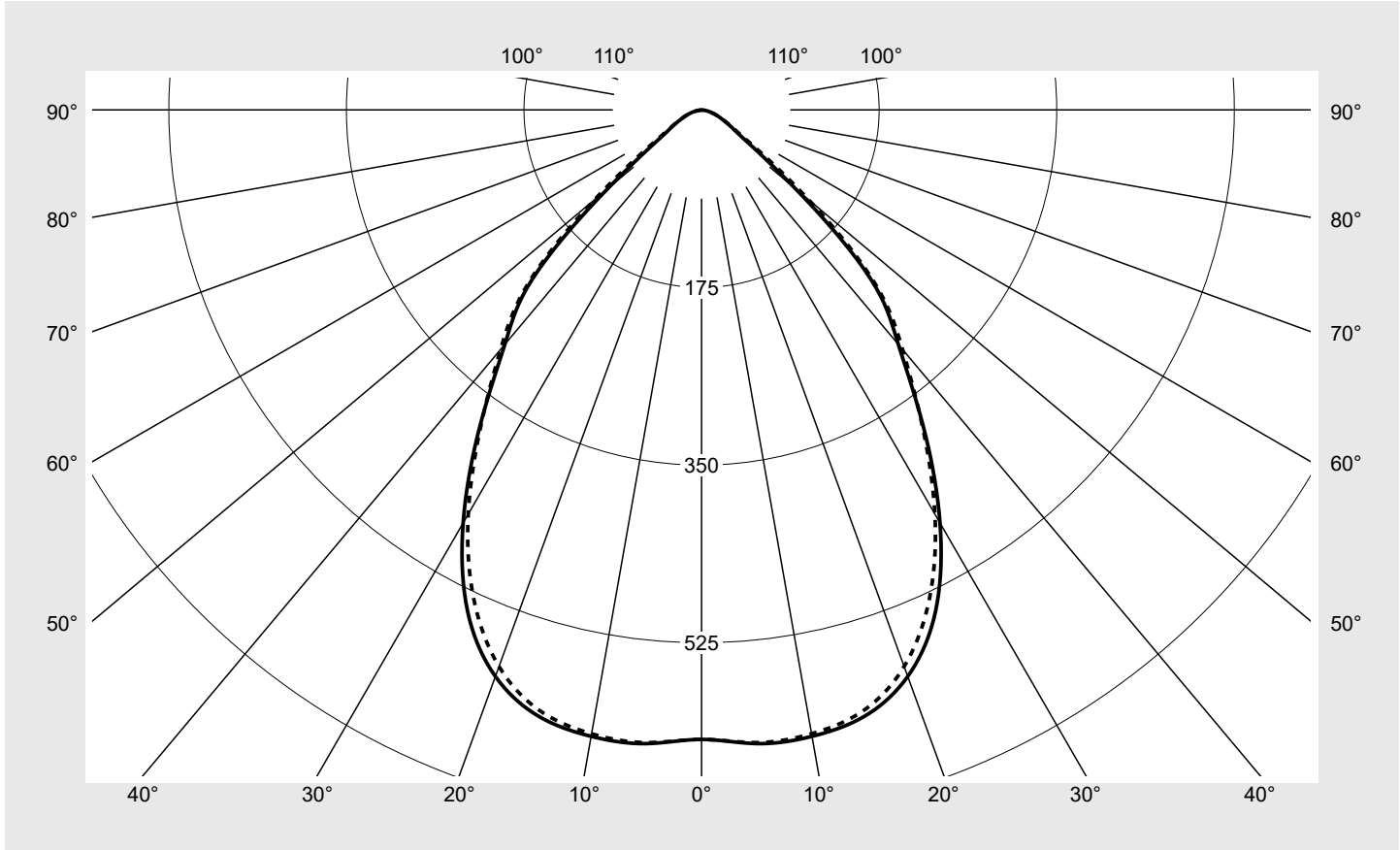


# Photometric test report

<b>Family</b> <b>Highbay 21</b>	<b>Order number: 51HK42DB4MCA</b> <b>EAN: 4058352883532</b>	<b>LP number</b> <b>59528_1</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 = 26500 lm Power consumption = 147.0 W Luminous efficacy = 180.3 lm/W	



**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 627 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=75 N2=96 N3=99 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: 51HK42DB4MCA EAN: 4058352883532	LP number 59528_1
Table of values for luminous intensities		Maximum luminous intensity
		<b>sITeco</b>

C-planes $\gamma$	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°	620.3	620.3	620.3	620.3	620.3	620.3	620.3	3.7	3.7
5°	626.8	623.9	618.1	617.7	620.3	621.1	625.8	29.7	33.4
10°	626.8	624.6	619.4	619.0	620.6	620.4	624.2	59.2	92.6
15°	618.8	617.0	612.8	612.3	612.7	610.7	613.3	87.1	179.6
20°	594.1	593.2	589.5	589.1	587.8	583.1	583.7	110.3	289.9
25°	545.4	545.5	544.8	543.8	539.1	532.2	531.4	125.2	415.2
30°	469.9	472.6	477.3	478.3	469.6	461.7	459.9	129.0	544.2
35°	381.1	386.1	393.5	396.6	391.2	381.4	378.9	122.0	666.2
40°	301.6	301.9	301.9	305.0	310.2	308.9	308.1	107.6	773.9
45°	235.9	227.2	214.3	216.7	228.2	237.7	241.4	88.0	861.9
50°	120.9	124.8	133.3	139.7	140.6	139.6	137.8	56.5	918.4
55°	54.6	57.6	65.3	74.7	73.9	67.9	63.6	29.8	948.2
60°	34.1	35.5	40.2	46.3	45.5	40.0	35.9	19.2	967.4
65°	23.4	24.3	27.5	31.5	30.7	27.1	23.9	13.6	981.0
70°	16.2	16.7	18.3	20.2	20.1	18.3	16.0	9.4	990.4
75°	10.2	10.2	10.8	11.9	11.9	11.3	9.6	5.8	996.2
80°	5.0	5.0	5.2	5.8	6.1	5.8	4.0	2.9	999.2
85°	1.5	1.3	1.3	1.9	2.1	1.9	0.0	0.8	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: 51HK42DB4MCA EAN: 4058352883532	LP number 59528_1
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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	22.2	23.6	22.6	23.9	24.2	22.6	23.9	22.9	24.3	24.6
	3H	22.3	23.5	22.7	23.9	24.2	22.7	23.9	23.0	24.2	24.6
	4H	22.3	23.5	22.7	23.8	24.2	22.7	23.8	23.1	24.2	24.5
	6H	22.3	23.4	22.8	23.7	24.1	22.7	23.7	23.1	24.1	24.5
	8H	22.4	23.3	22.8	23.7	24.1	22.7	23.6	23.1	24.0	24.4
	12H	22.4	23.2	22.8	23.6	24.0	22.7	23.5	23.1	23.9	24.3
4H	2H	22.3	23.4	22.7	23.8	24.1	22.6	23.7	23.0	24.1	24.4
	3H	22.5	23.4	22.9	23.8	24.2	22.8	23.7	23.2	24.1	24.5
	4H	22.5	23.3	23.0	23.8	24.2	22.8	23.7	23.3	24.1	24.5
	6H	22.5	23.2	23.0	23.7	24.1	22.9	23.6	23.3	24.0	24.5
	8H	22.5	23.2	23.0	23.6	24.1	22.9	23.5	23.3	23.9	24.4
	12H	22.5	23.1	23.0	23.5	24.0	22.8	23.4	23.3	23.9	24.4
8H	4H	22.5	23.1	23.0	23.6	24.1	22.8	23.5	23.3	23.9	24.4
	6H	22.5	23.1	23.0	23.5	24.0	22.9	23.4	23.4	23.9	24.4
	8H	22.5	23.0	23.0	23.5	24.0	22.9	23.3	23.4	23.8	24.3
	12H	22.5	22.9	23.0	23.4	23.9	22.8	23.2	23.4	23.7	24.3
12H	4H	22.5	23.1	23.0	23.5	24.0	22.8	23.4	23.3	23.8	24.3
	6H	22.5	23.0	23.0	23.5	24.0	22.9	23.3	23.4	23.8	24.3
	8H	22.5	22.9	23.0	23.4	23.9	22.8	23.2	23.4	23.7	24.3

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 450 B = 386
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C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		50888.4	49025.0	46244.9	46749.4	49240.5	51275.5	52078.5	
50°		28685.2	29615.8	31631.1	33162.2	33359.2	33136.1	32710.3	
55°		14520.6	15320.9	17355.7	19856.5	19653.0	18055.0	16904.6	
60°		10405.9	10831.9	12256.5	14127.2	13870.3	12214.1	10944.5	
65°		8429.5	8754.4	9910.3	11353.6	11074.9	9764.8	8619.4	
70°		7236.0	7442.1	8182.1	9026.5	8987.7	8171.8	7147.2	
75°		5986.5	5986.5	6389.7	7002.7	6996.2	6679.1	5641.7	
80°		4405.1	4405.1	4538.7	5067.6	5364.5	5103.6	3532.7	
85°		2618.7	2249.3	2280.8	3395.9	3725.0	3366.1	0.0	

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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°

