

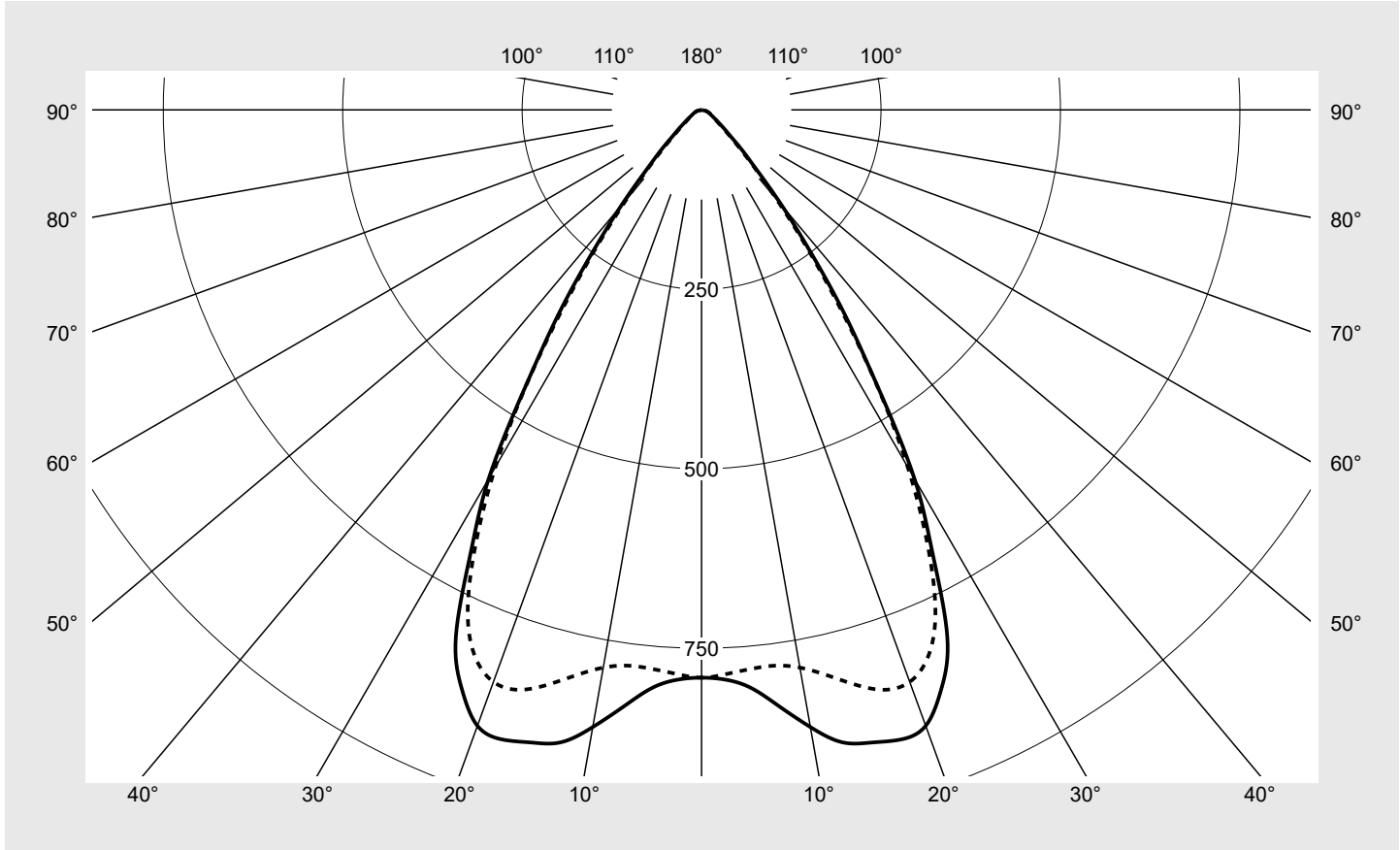


# Photometric test report

<b>Family</b> <b>Highbay 21</b>	<b>Order number: 52HN12DB4RDA</b> <b>EAN: 4069025256799</b>	<b>LP number</b> <b>59723_62</b>
	<b>Version</b> primary light control with lens, PMMA, housing, white, wide distribution	<b>serial documentation</b> <b>24.02.2025</b>
	<b>Lamps</b> LED 4000 K   CRI ≥ 80	
	<b>Controlgear</b> ECG-DALI	<b>Setting</b> DC mode (central or group accumulator) initial emergency light level
	<b>Rated values</b>	
Net luminous flux = 7000 lm Power consumption = 38.3 W Luminous efficacy = 182.8 lm/W		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 920 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=90 N2=98 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

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**sITeco**

<b>Table of values for luminous intensities</b>	<b>Maximum luminous intensity</b>
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C-planes	0,0° 180,0°	7,5°	15,0°	22,5°	30,0°	37,5°	45,0°
		172,5° 187,5° 352,5°	165,0° 195,0° 345,0°	157,5° 202,5° 337,5°	150,0° 210,0° 330,0°	142,5° 217,5° 322,5°	135,0° 225,0° 315,0°
γ	Luminous intensity in cd/klm						
0,0°	791.0	791.0	791.0	791.0	791.0	791.0	791.0
2,5°	794.7	794.4	795.0	795.0	794.2	792.8	792.0
5,0°	809.1	811.4	809.6	807.9	804.8	800.8	797.1
7,5°	839.0	837.9	835.9	831.3	824.9	817.3	810.1
10,0°	873.0	873.9	866.7	857.6	846.5	834.6	825.0
12,5°	902.2	899.8	892.6	881.8	868.2	853.9	842.5
15,0°	912.4	911.0	905.2	895.6	883.1	869.5	858.7
17,5°	919.8	918.2	913.1	904.4	892.7	879.7	870.3
20,0°	913.1	910.4	906.8	900.7	891.6	880.0	870.9
22,5°	873.0	875.7	872.3	868.8	863.2	854.7	847.2
25,0°	810.1	803.4	805.6	804.0	800.6	794.9	789.9
27,5°	697.5	704.9	702.5	701.8	699.9	697.0	693.3
30,0°	593.2	587.4	585.8	584.9	582.5	580.2	578.9
32,5°	456.1	464.3	462.1	462.0	458.3	454.5	453.6
35,0°	347.7	343.4	342.9	343.5	340.5	335.4	333.2
37,5°	248.6	249.1	246.7	247.3	245.8	241.7	237.9
40,0°	174.7	169.8	171.0	172.0	172.0	169.5	166.1
42,5°	115.9	118.7	117.3	118.1	118.9	118.2	116.5
45,0°	82.2	79.8	80.4	81.1	81.3	81.6	80.9
47,5°	56.5	57.6	57.2	57.7	57.6	57.9	57.5
50,0°	42.4	41.3	41.7	42.1	42.1	42.1	42.0
52,5°	32.0	31.8	31.7	32.2	32.5	32.7	32.7
55,0°	25.6	24.9	25.0	25.6	26.1	26.6	26.9
57,5°	20.6	20.3	20.3	20.8	21.4	22.1	22.4
60,0°	17.2	16.8	16.6	17.2	18.2	18.6	18.9
62,5°	14.5	14.3	13.9	14.3	15.3	15.8	16.0
65,0°	13.1	12.5	12.0	12.2	13.0	13.5	13.7
67,5°	11.1	10.9	10.3	10.4	11.4	11.4	11.5
70,0°	9.4	9.0	8.7	8.7	9.6	9.3	9.5
72,5°	7.6	7.5	7.3	7.2	7.3	7.4	7.8
75,0°	5.9	5.7	5.6	5.7	5.6	5.7	6.1
77,5°	4.1	4.1	4.1	4.2	4.1	4.2	4.5
80,0°	2.6	2.5	2.5	2.7	2.7	2.8	2.9
82,5°	1.1	1.2	1.2	1.3	1.5	1.5	1.7
85,0°	0.5	0.5	0.5	0.5	0.5	0.5	0.6
87,5°	0.2	0.3	0.3	0.3	0.3	0.3	0.3

## Photometric test report

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Table of values for luminous intensities		Maximum luminous intensity
		<b>siteco</b>

C-planes	52,5°	60,0°	67,5°	75,0°	82,5°	90,0°	Phi-zone	Total Phi-zone
	127,5°	120,0°	112,5°	105,0°	97,5°			
	232,5°	240,0°	247,5°	255,0°	262,5°			
	307,5°	300,0°	292,5°	285,0°	277,5°	270,0°		
γ	Luminous intensity in cd/klm						Luminous flux in lm/klm	
0,0°	791.0	791.0	791.0	791.0	791.0	791.0	1.2	1.2
2,5°	791.3	790.7	790.0	789.4	788.0	786.7	9.5	10.7
5,0°	794.2	790.9	788.1	786.0	783.2	781.9	19.1	29.7
7,5°	803.7	797.3	791.2	786.8	782.5	780.9	29.0	58.7
10,0°	816.7	808.7	801.4	796.1	791.2	788.9	39.5	98.2
12,5°	833.0	825.3	818.6	813.6	808.7	806.6	50.4	148.6
15,0°	850.7	844.9	836.9	832.9	831.6	829.0	61.4	210.0
17,5°	864.2	859.8	856.6	853.6	849.6	847.0	72.4	282.5
20,0°	864.8	860.1	856.9	853.9	850.4	848.0	82.3	364.7
22,5°	841.4	836.7	833.2	829.7	826.8	824.5	89.2	453.9
25,0°	786.0	782.5	779.1	775.6	772.9	771.0	91.6	545.4
27,5°	691.2	689.6	687.4	684.8	682.7	681.4	87.8	633.3
30,0°	578.6	579.1	578.3	576.4	575.3	574.3	79.6	712.9
32,5°	454.5	456.7	457.0	455.4	454.6	454.3	67.4	780.2
35,0°	335.0	337.7	338.0	336.6	336.0	336.2	53.3	833.5
37,5°	239.3	241.4	241.0	239.6	239.1	239.2	40.5	874.0
40,0°	166.2	166.4	164.7	163.3	162.9	163.0	29.6	903.6
42,5°	115.3	113.5	111.1	110.0	109.8	109.7	21.3	924.9
45,0°	79.0	76.9	75.1	74.3	74.0	73.9	15.2	940.1
47,5°	56.0	54.4	53.1	52.3	51.9	51.7	11.2	951.3
50,0°	40.9	39.8	38.8	38.0	37.5	37.4	8.5	959.8
52,5°	31.8	30.8	29.9	29.1	28.8	28.7	6.8	966.6
55,0°	25.9	25.0	24.2	23.4	23.2	23.3	5.6	972.3
57,5°	21.7	20.8	20.1	19.5	19.4	19.6	4.8	977.0
60,0°	18.6	18.0	17.1	16.6	16.8	17.1	4.2	981.2
62,5°	16.0	15.6	14.7	14.4	14.7	15.1	3.6	984.8
65,0°	14.0	13.6	12.8	12.7	13.1	13.5	3.2	988.1
67,5°	12.0	12.1	11.2	11.1	11.6	12.1	2.9	991.0
70,0°	9.8	10.4	9.7	9.7	10.2	10.6	2.5	993.4
72,5°	7.8	8.3	8.3	8.3	8.8	9.1	2.1	995.5
75,0°	6.2	6.3	6.8	6.9	7.3	7.6	1.6	997.1
77,5°	4.6	4.9	5.3	5.5	5.8	6.0	1.3	998.4
80,0°	3.1	3.4	3.7	4.0	4.2	4.4	0.9	999.2
82,5°	1.8	2.1	2.4	2.6	2.8	2.9	0.5	999.7
85,0°	0.7	1.0	1.2	1.3	1.6	1.6	0.2	1000.0
87,5°	0.3	0.3	0.3	0.3	0.4	0.4	0.1	1000.0

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Family Highbay 21	Order number: 52HN12DB4RDA EAN: 4069025256799	LP number 59723_62
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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	13.3	14.5	13.7	14.8	15.2	13.1	14.4	13.5	14.7	15.0
	3H	13.3	14.4	13.7	14.8	15.1	13.2	14.3	13.6	14.6	15.0
	4H	13.3	14.3	13.7	14.7	15.1	13.3	14.2	13.6	14.6	15.0
	6H	13.3	14.2	13.7	14.6	15.0	13.3	14.2	13.7	14.6	15.0
	8H	13.4	14.2	13.8	14.5	14.9	13.4	14.2	13.9	14.5	14.9
	12H	13.4	14.1	13.8	14.5	14.9	13.4	14.1	13.9	14.5	14.9
4H	2H	13.2	14.2	13.6	14.6	14.9	13.0	14.0	13.4	14.4	14.8
	3H	13.3	14.1	13.7	14.5	14.9	13.2	14.0	13.6	14.4	14.8
	4H	13.3	14.0	13.8	14.5	14.9	13.3	14.0	13.7	14.4	14.9
	6H	13.3	13.9	13.8	14.4	14.8	13.4	14.0	13.8	14.4	14.9
	8H	13.3	13.8	13.8	14.3	14.8	13.4	13.9	13.9	14.4	14.9
	12H	13.3	13.7	13.8	14.2	14.7	13.4	13.9	13.9	14.3	14.8
8H	4H	13.3	13.8	13.7	14.3	14.8	13.2	13.8	13.7	14.2	14.7
	6H	13.3	13.7	13.8	14.2	14.7	13.3	13.8	13.8	14.2	14.8
	8H	13.2	13.6	13.7	14.1	14.6	13.3	13.7	13.9	14.2	14.8
	12H	13.2	13.5	13.8	14.0	14.6	13.4	13.7	13.9	14.2	14.7
12H	4H	13.3	13.7	13.8	14.2	14.7	13.2	13.7	13.7	14.1	14.6
	6H	13.3	13.6	13.8	14.1	14.6	13.3	13.7	13.8	14.2	14.7
	8H	13.2	13.5	13.8	14.0	14.6	13.4	13.6	13.9	14.2	14.7

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 852 B = 264
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C-planes	0,0° 180,0°	10,0° 170,0°	20,0° 160,0°	30,0° 150,0°	40,0° 140,0°	50,0° 130,0°	60,0° 120,0°	70,0° 110,0°	80,0° 100,0°	90,0° 270,0°
		190,0° 350,0°	200,0° 340,0°	210,0° 330,0°	220,0° 320,0°	230,0° 310,0°	240,0° 300,0°	250,0° 290,0°	260,0° 280,0°	
$\gamma$	Luminance in cd/m <sup>2</sup>									
45,0°	3619.0	3507.0	3559.7	3579.5	3586.9	3507.1	3382.5	3290.0	3259.5	3250.5
50,0°	2053.0	1996.5	2033.8	2038.5	2038.2	1999.6	1927.8	1863.7	1823.0	1808.7
55,0°	1390.0	1349.3	1379.3	1414.6	1452.6	1424.7	1354.2	1297.7	1262.3	1266.6
60,0°	1069.4	1038.6	1056.0	1130.6	1166.1	1164.2	1121.5	1052.8	1040.6	1062.3
65,0°	962.2	906.3	886.9	959.9	1004.0	1032.7	1003.6	936.2	953.4	996.0
70,0°	858.9	811.2	784.8	869.3	850.3	882.2	944.0	878.4	913.3	968.1
75,0°	706.3	681.8	685.0	678.0	698.9	738.7	761.4	829.1	861.3	913.8
80,0°	460.6	445.9	474.4	492.1	500.3	546.9	609.0	688.7	740.2	783.7
85,0°	180.0	175.4	178.4	179.3	196.0	247.1	348.1	433.5	531.6	579.5

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

