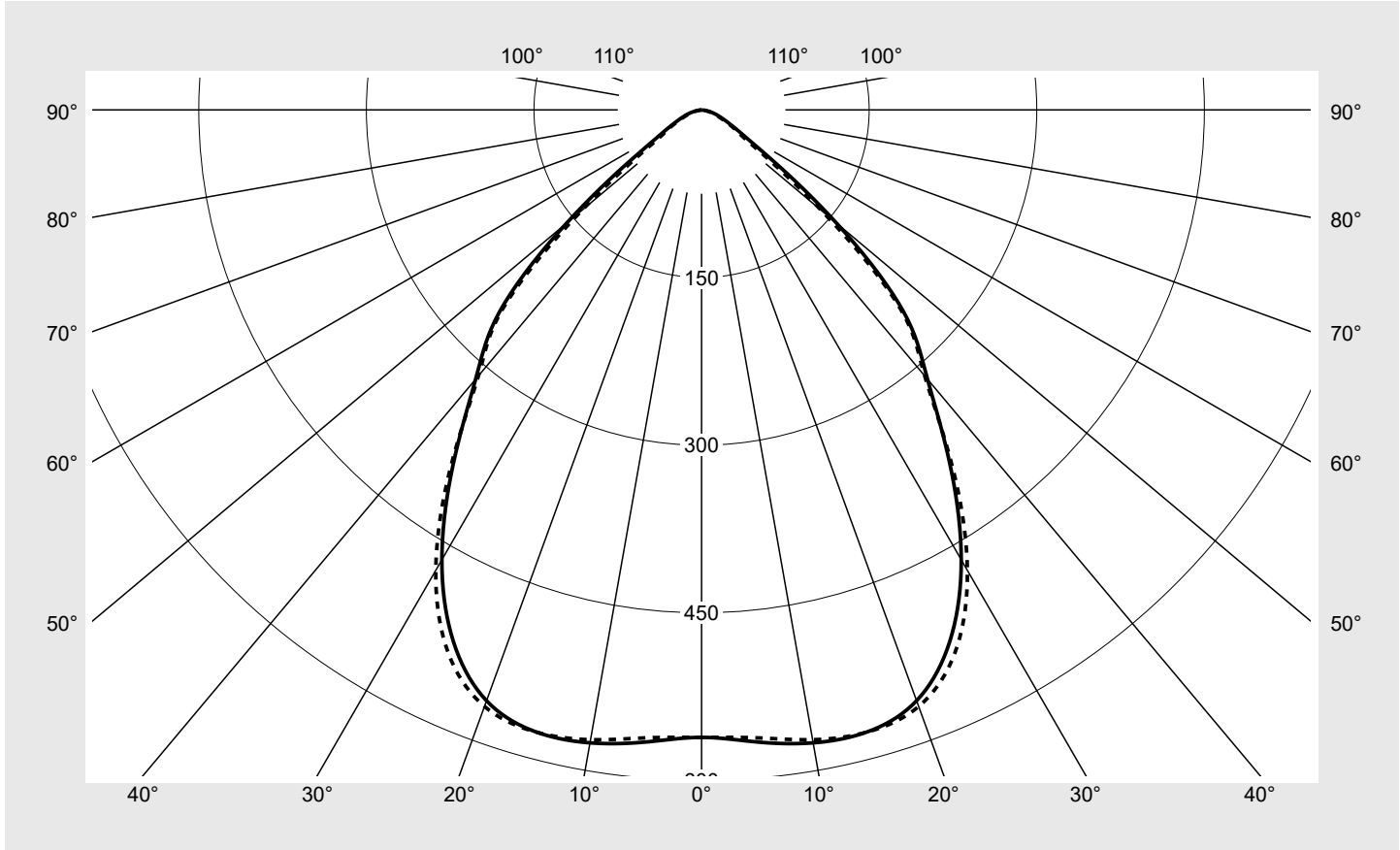


Photometric test report

Family Highbay 21	Order number: 51HK42DA4GCA EAN: 4058352883488	LP number 59526_1
	Version primary light control with lens, cover, polycarbonate, symmetric wide distribution, UGR≤25	serial documentation 19.12.2023
	Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 13500 lm Power consumption = 75.0 W Luminous efficacy = 180 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	
η_{LB}	100.0%
ϕ_u	100.0%
ϕ_o	0.0%

Measurement conditions
 DIN EN 13032 and DIN 5032

Photometric test report

Family Highbay 21	Order number: 51HK42DA4GCA EAN: 4058352883488	LP number 59526_1
Table of values for luminous intensities		Maximum luminous intensity
		siteco

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: 51HK42DA4GCA EAN: 4058352883488	LP number 59526_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	23.5	24.9	23.8	25.2	25.5	23.1	24.5	23.5	24.8	25.1
	3H	23.5	24.8	23.9	25.1	25.5	23.1	24.4	23.5	24.7	25.1
	4H	23.6	24.7	24.0	25.1	25.4	23.1	24.3	23.5	24.6	25.0
	6H	23.6	24.6	24.0	25.0	25.4	23.1	24.2	23.5	24.5	24.9
	8H	23.6	24.5	24.0	24.9	25.3	23.2	24.1	23.6	24.5	24.9
	12H	23.6	24.4	24.0	24.8	25.2	23.1	24.0	23.6	24.4	24.8
4H	2H	23.5	24.6	23.9	25.0	25.3	23.1	24.3	23.5	24.6	25.0
	3H	23.6	24.6	24.1	25.0	25.4	23.3	24.2	23.7	24.6	25.0
	4H	23.7	24.5	24.1	24.9	25.4	23.3	24.1	23.7	24.5	25.0
	6H	23.7	24.4	24.1	24.8	25.3	23.3	24.0	23.7	24.4	24.9
	8H	23.7	24.3	24.1	24.8	25.2	23.2	23.9	23.7	24.3	24.8
	12H	23.7	24.2	24.2	24.7	25.2	23.2	23.8	23.7	24.2	24.7
8H	4H	23.6	24.3	24.1	24.7	25.2	23.2	23.9	23.7	24.3	24.8
	6H	23.6	24.2	24.1	24.6	25.2	23.2	23.8	23.7	24.2	24.7
	8H	23.6	24.1	24.1	24.6	25.1	23.2	23.7	23.7	24.1	24.7
	12H	23.6	24.0	24.1	24.5	25.0	23.2	23.5	23.7	24.1	24.6
12H	4H	23.6	24.2	24.1	24.6	25.1	23.2	23.8	23.7	24.3	24.8
	6H	23.6	24.1	24.1	24.6	25.1	23.2	23.7	23.7	24.1	24.7
	8H	23.6	24.0	24.1	24.5	25.0	23.2	23.6	23.7	24.1	24.6

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 450 B = 168
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C-planes	γ	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
			Luminance in cd/m²					
45°		64630.8	63450.7	60199.8	56881.4	56802.9	60368.2	63566.9
50°		43833.1	43394.7	42191.8	41242.0	39927.4	39033.9	38853.4
55°		22637.4	23155.5	24339.5	24406.7	21995.4	19193.8	18033.8
60°		13931.4	14820.7	16312.5	16267.5	14292.5	12634.6	12259.3
65°		10570.2	11418.2	12836.2	13044.1	11357.3	9775.4	9327.5
70°		8779.8	9293.0	10128.9	10253.7	9335.8	8002.3	7550.7
75°		7270.0	7388.0	7431.4	7366.6	7011.9	6137.1	5832.1
80°		5204.5	5069.8	4759.2	4435.3	4323.2	3845.0	3627.0
85°		2161.6	1932.1	1387.1	1172.0	1071.6	924.0	571.6

Photometric test report

Family Highbay 21	Order number: 51HK42DA4GCA EAN: 4058352883488	LP number 59526_1
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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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