

## Photometric test report

Family  
Highbay 21

Order number: 51HLA2D14FCB  
EAN: 4058352417935

LP number  
58922\_20



Version wide distribution, UGR≤22  
Lamps LED 4000 K | CRI ≥ 80  
Controlgear ECG-DALI  
Rated values Net luminous flux = 13800 lm  
Power consumption = 85.5 W  
Luminous efficacy = 161.4 lm/W

serial  
documentation  
01.07.2020

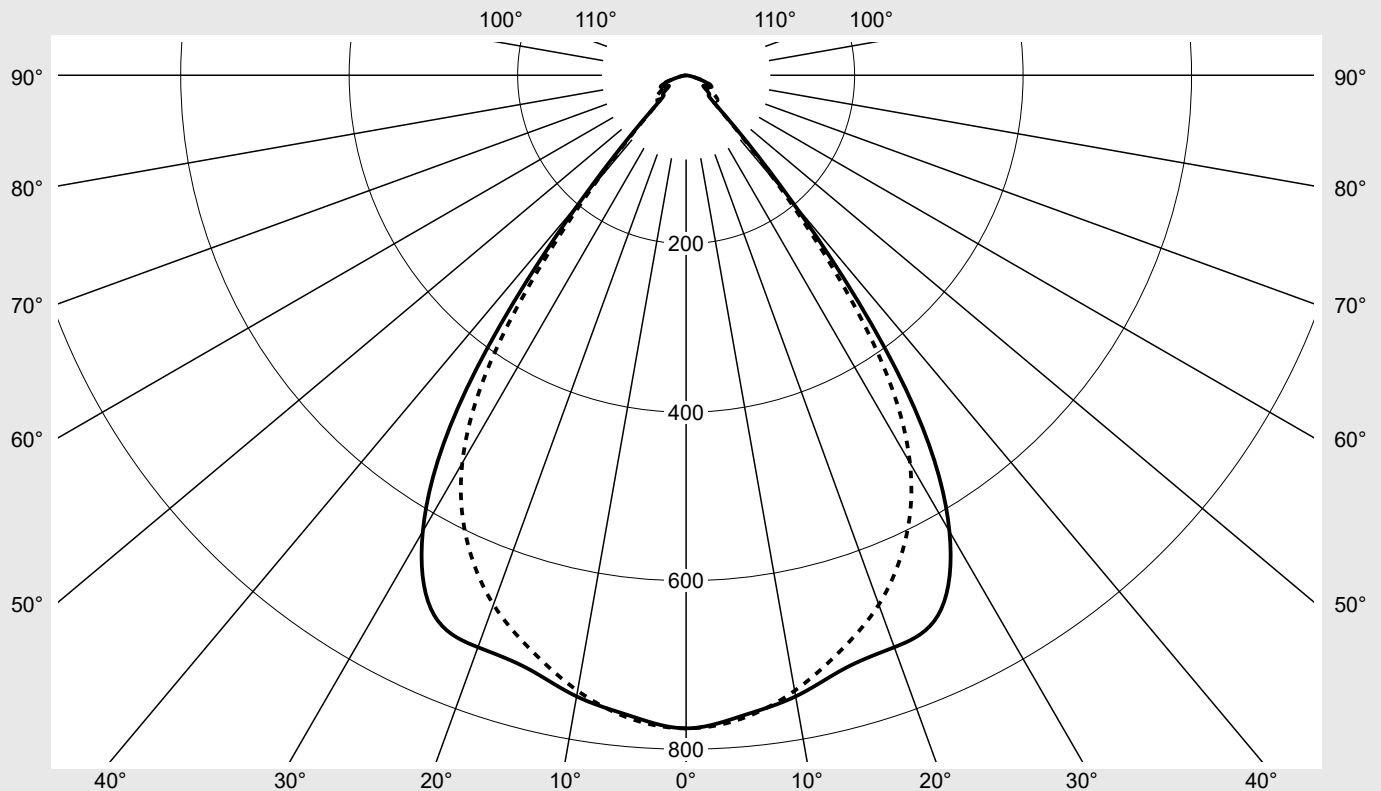
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 775 cd/klm



### Classifications

DIN 5040 A 6 0  
CIE N1=89 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

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Table of values for luminous intensities	Maximum luminous intensity
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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°	775.3	775.3	775.3	775.3	775.3	775.3	775.3	4.6	4.6
5°	763.3	765.5	767.8	768.1	766.5	768.2	766.4	36.6	41.3
10°	748.7	752.6	756.7	755.9	749.0	745.7	741.9	71.5	112.7
15°	728.8	736.6	748.6	748.7	732.9	716.3	707.4	104.1	216.8
20°	722.5	731.1	745.9	741.9	711.6	682.4	668.7	134.6	351.4
25°	707.4	710.1	723.4	713.1	669.4	627.0	613.5	158.4	509.9
30°	625.1	622.7	643.6	650.9	594.8	541.3	531.4	165.9	675.7
35°	454.3	465.0	515.3	546.7	478.1	404.7	385.8	148.3	824.0
40°	194.7	222.6	276.1	324.0	261.7	198.8	171.4	86.1	910.1
45°	52.4	51.4	56.0	64.9	54.8	51.5	51.3	21.3	931.5
50°	36.0	31.0	27.7	34.1	33.7	39.2	46.8	14.5	946.0
55°	27.7	25.7	21.5	23.0	24.8	33.2	42.0	12.2	958.2
60°	24.8	27.6	25.1	19.0	18.2	24.5	32.6	11.3	969.5
65°	33.0	23.0	22.5	18.8	16.0	23.0	31.5	11.2	980.7
70°	25.9	19.0	18.9	17.8	15.3	19.4	28.1	10.1	990.8
75°	12.6	8.9	10.2	12.8	12.0	13.0	13.0	6.1	996.9
80°	3.5	3.2	4.0	5.1	6.3	6.1	5.9	2.6	999.6
85°	0.3	0.3	0.4	0.5	1.1	1.3	1.4	0.4	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

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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	20.2	21.5	20.6	21.8	22.2	19.7	21.0	20.1	21.3	21.6
	3H	20.7	21.8	21.0	22.1	22.5	20.2	21.4	20.6	21.7	22.1
	4H	20.8	21.8	21.2	22.2	22.6	20.5	21.5	20.9	21.9	22.2
	6H	20.8	21.7	21.2	22.1	22.5	20.6	21.5	21.0	21.9	22.3
	8H	20.9	21.7	21.3	22.0	22.4	20.6	21.5	21.1	21.8	22.2
	12H	20.8	21.6	21.3	22.0	22.4	20.6	21.4	21.1	21.8	22.2
4H	2H	20.2	21.2	20.6	21.6	21.9	19.7	20.7	20.1	21.1	21.4
	3H	20.7	21.6	21.1	22.0	22.4	20.3	21.1	20.7	21.5	22.0
	4H	20.9	21.6	21.3	22.1	22.5	20.6	21.4	21.0	21.8	22.2
	6H	20.9	21.5	21.4	22.0	22.4	20.7	21.4	21.2	21.8	22.3
	8H	20.9	21.4	21.3	21.9	22.4	20.8	21.3	21.2	21.8	22.3
	12H	20.9	21.3	21.4	21.8	22.3	20.8	21.3	21.3	21.7	22.2
8H	4H	20.9	21.5	21.4	21.9	22.4	20.6	21.2	21.1	21.7	22.2
	6H	20.9	21.4	21.4	21.9	22.4	20.8	21.3	21.3	21.8	22.3
	8H	20.9	21.3	21.4	21.8	22.3	20.8	21.3	21.4	21.8	22.3
	12H	20.9	21.2	21.4	21.7	22.2	20.9	21.2	21.4	21.7	22.2
12H	4H	20.9	21.4	21.4	21.8	22.3	20.7	21.1	21.1	21.6	22.1
	6H	20.9	21.3	21.4	21.8	22.3	20.8	21.2	21.4	21.7	22.2
	8H	20.9	21.2	21.4	21.7	22.3	20.9	21.2	21.4	21.7	22.2

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 300 B = 320
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C-planes	$\gamma$	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°		10647.3	10453.3	11385.4	13186.2	11145.3	10476.5	10421.6
50°		8051.1	6939.9	6205.4	7633.1	7543.0	8762.0	10455.4
55°		6937.7	6437.7	5385.1	5776.6	6205.9	8314.3	10525.8
60°		7129.1	7948.5	7214.5	5473.1	5227.6	7048.9	9365.3
65°		11230.5	7809.0	7660.7	6405.5	5428.3	7811.3	10724.7
70°		10901.2	7972.6	7952.9	7491.8	6439.8	8170.6	11807.0
75°		6987.0	4915.4	5650.7	7112.5	6662.7	7209.7	7225.8
80°		2897.4	2683.0	3334.5	4216.9	5230.2	5015.8	4877.5
85°		508.0	499.8	585.5	852.7	1824.2	2116.1	2320.6

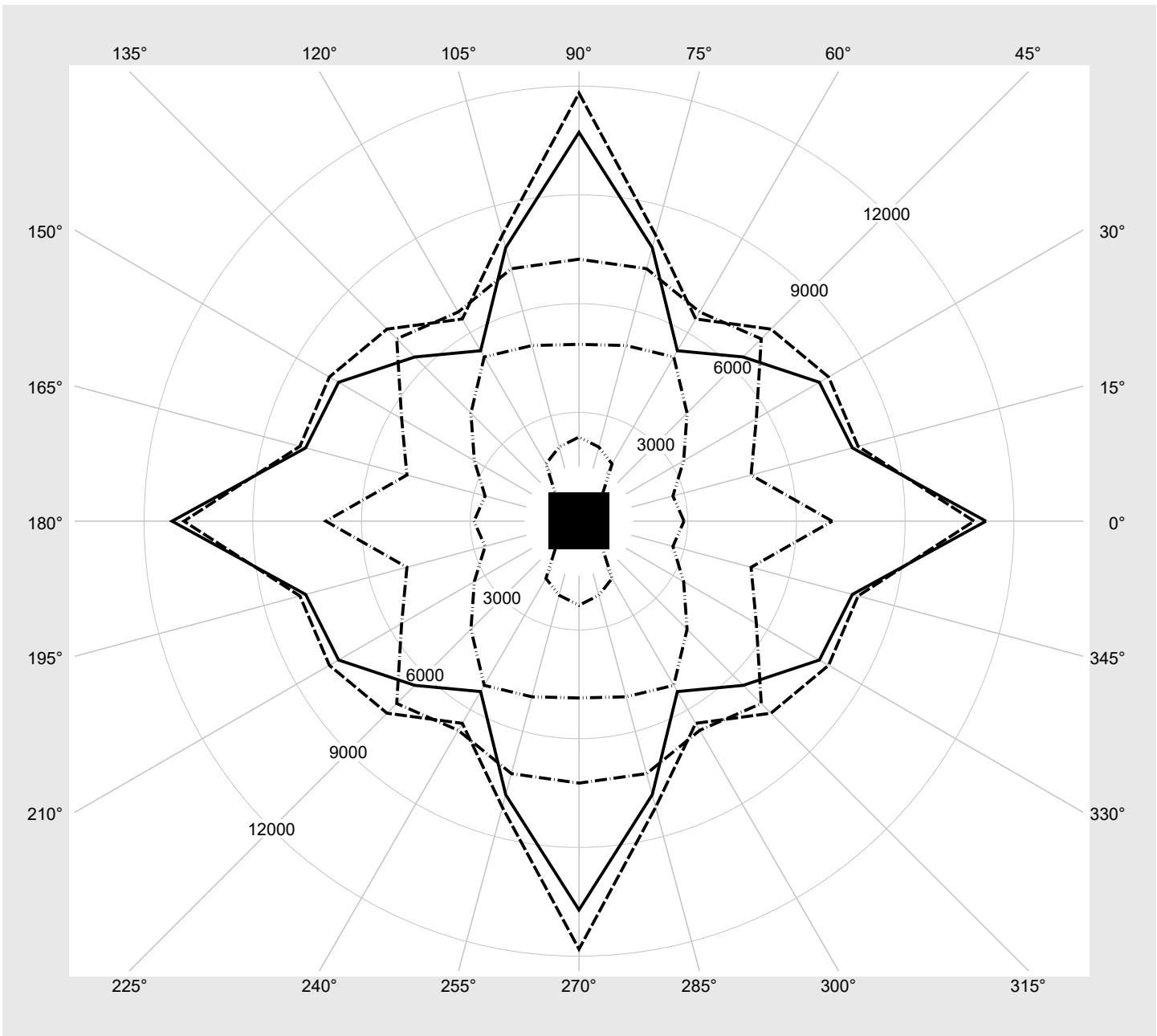
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**Luminance values in cd/m<sup>2</sup>**     γ 65°   γ 70°   γ 75°   γ 80°   γ 85°     **siteco**



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Dimming levels table	environmental temperature: 25°C	<b>sITeco</b>
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	13800	85.5
95	240	252	13104	80.6
90	227	250	12442	76.0
85	213	248	11729	71.1
80	200	245	11059	66.7
75	186	243	10330	61.8
70	173	240	9643	57.3
65	160	237	8952	52.9
60	148	234	8303	48.7
55	135	231	7597	44.4
50	122	227	6883	39.9
45	110	223	6218	35.9
40	97	219	5494	31.6
35	85	214	4820	27.6
30	73	208	4140	23.6
25	61	202	3455	19.7
20	49	194	2764	15.8
15	37	183	2067	11.8
10	25	169	1364	8.0
5	14	148	716	4.4
1	5	110	182	1.6