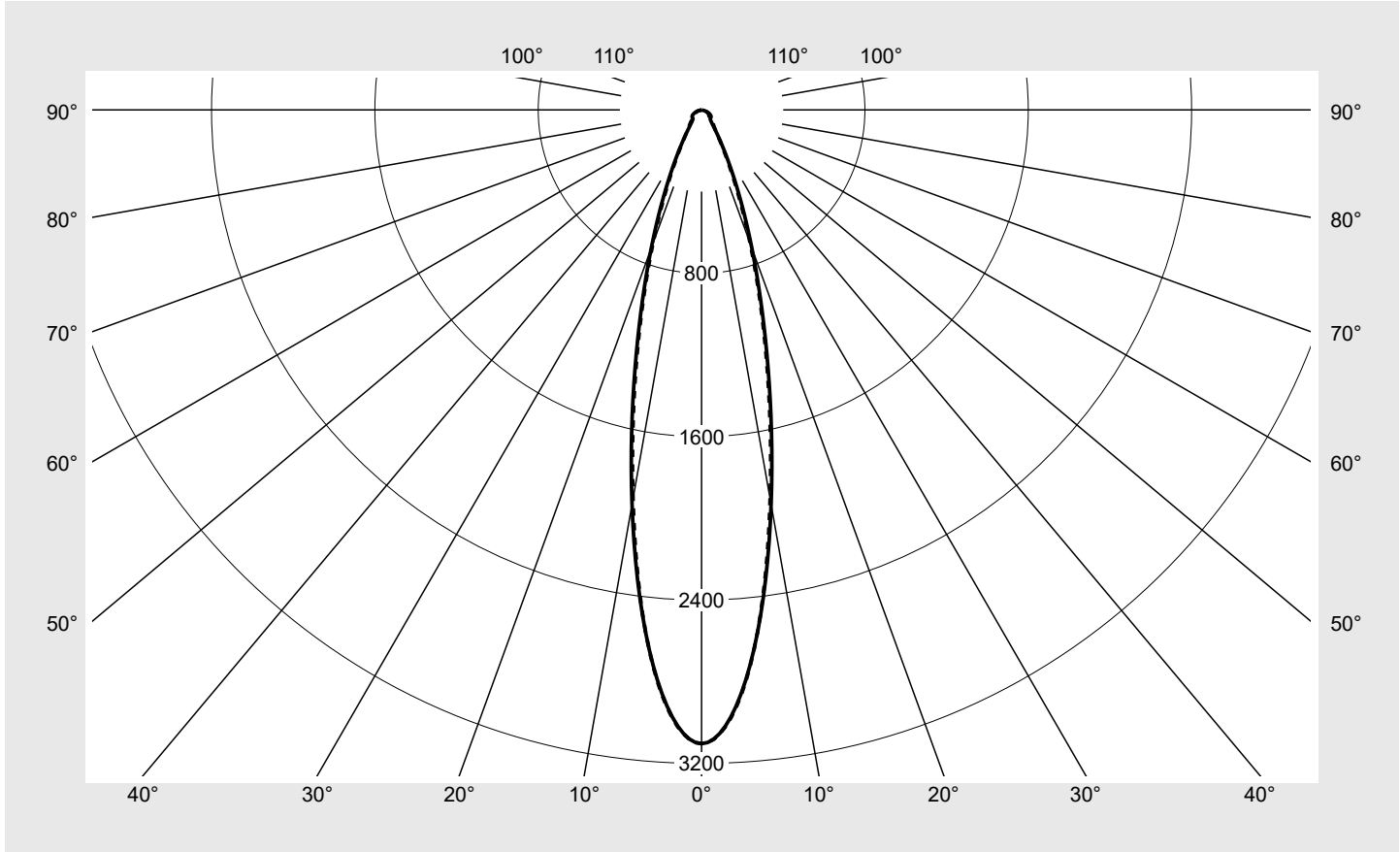


# Photometric test report

<b>Family</b> Highbay 11	<b>Order number: 51HLA1D14GLA + 59HL91002</b> <b>EAN: 4058352361429 + 4058352341650</b>	<b>LP number</b> 58920_22
<b>Version</b>	narrow distribution, UGR≤22, cover panel, PC	<b>serial documentation</b> 31.03.2020
<b>Lamps</b>	LED 4000 K   CRI ≥ 80	
<b>Controlgear</b>	ECG-DALI	
<b>Rated values</b>	Net luminous flux = 14730 lm Power consumption = 94.8 W Luminous efficacy = 155.4 lm/W	



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 3103 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=85 N2=94 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 11	Order number: 51HLA1D14GLA + 59HL91002 EAN: 4058352361429 + 4058352341650	LP number 58920_22
Table of values for luminous intensities		Maximum luminous intensity



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°	3103.3	3103.3	3103.3	3103.3	3103.3	3103.3	3103.3	18.6	18.6
5°	2728.1	2725.7	2734.5	2735.8	2731.2	2739.6	2732.7	130.6	149.1
10°	1961.3	1955.1	1962.7	1959.8	1944.6	1940.4	1933.3	185.8	334.9
15°	1234.5	1231.5	1237.4	1233.6	1223.5	1217.2	1209.8	174.2	509.0
20°	720.2	721.2	730.7	731.8	720.5	706.3	696.1	134.9	644.0
25°	391.5	395.5	407.7	412.0	396.6	377.5	368.6	91.5	735.4
30°	203.6	206.8	216.0	219.0	212.4	200.7	194.3	57.3	792.7
35°	109.3	109.5	113.4	118.8	120.5	117.6	115.6	36.3	829.0
40°	71.8	72.6	76.4	83.5	87.0	87.1	87.3	28.5	857.5
45°	59.8	60.1	64.9	71.1	68.6	64.2	62.9	25.2	882.8
50°	58.8	60.0	64.4	66.4	57.1	49.4	48.5	24.6	907.3
55°	56.5	57.6	60.7	58.9	51.3	43.9	43.6	24.1	931.5
60°	50.4	50.7	52.1	52.2	45.2	38.5	38.0	22.4	953.8
65°	40.7	40.4	41.4	42.5	37.1	32.0	31.7	19.0	972.8
70°	28.4	28.2	29.2	30.2	27.5	24.4	24.3	14.2	987.1
75°	15.1	15.6	16.5	18.0	16.8	16.4	16.8	8.8	995.8
80°	5.3	5.6	6.2	6.9	7.4	7.5	9.1	3.7	999.5
85°	0.5	0.5	0.6	0.8	1.1	1.3	1.8	0.5	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 11	Order number: 51HLA1D14GLA + 59HL91002 EAN: 4058352361429 + 4058352341650	LP number 58920_22
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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	18.8	20.0	19.2	20.3	20.6	17.8	18.9	18.1	19.2	19.6
	3H	20.3	21.3	20.7	21.6	22.0	19.1	20.2	19.5	20.5	20.9
	4H	20.6	21.6	21.0	21.9	22.3	19.7	20.6	20.1	21.0	21.4
	6H	20.7	21.6	21.2	22.0	22.3	20.0	20.9	20.4	21.2	21.6
	8H	20.8	21.5	21.2	21.9	22.3	20.2	20.9	20.6	21.3	21.7
	12H	20.8	21.4	21.2	21.8	22.2	20.2	20.8	20.6	21.2	21.6
4H	2H	19.5	20.5	19.9	20.8	21.2	18.8	19.7	19.2	20.1	20.5
	3H	21.1	21.9	21.5	22.3	22.7	20.2	21.0	20.7	21.4	21.8
	4H	21.5	22.2	21.9	22.6	23.1	20.8	21.5	21.3	21.9	22.4
	6H	21.6	22.2	22.1	22.7	23.1	21.1	21.7	21.6	22.2	22.7
	8H	21.6	22.1	22.1	22.6	23.1	21.2	21.7	21.7	22.2	22.7
	12H	21.6	22.0	22.1	22.5	23.0	21.2	21.7	21.7	22.1	22.6
8H	4H	21.7	22.2	22.1	22.6	23.1	21.1	21.6	21.5	22.0	22.5
	6H	21.8	22.2	22.3	22.7	23.2	21.4	21.9	21.9	22.3	22.8
	8H	21.8	22.2	22.3	22.7	23.2	21.5	21.9	22.0	22.4	22.9
	12H	21.7	22.1	22.3	22.6	23.1	21.5	21.8	22.0	22.3	22.9
12H	4H	21.7	22.1	22.1	22.6	23.1	21.0	21.5	21.5	21.9	22.4
	6H	21.8	22.2	22.3	22.6	23.2	21.4	21.8	21.9	22.3	22.8
	8H	21.8	22.1	22.3	22.6	23.1	21.5	21.8	22.0	22.3	22.8

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 295 B = 312
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C-planes	$\gamma$	0° 180°	15°	30°	45°	60°	75°	90°
			165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	270°
Luminance in cd/m²								
45°		13534.3	13612.8	14685.6	16088.6	15523.3	14539.2	14229.1
50°		14633.9	14933.6	16023.9	16537.0	14225.5	12311.1	12071.4
55°		15761.5	16059.5	16945.4	16441.8	14300.3	12250.4	12172.5
60°		16115.9	16241.1	16688.9	16698.5	14473.9	12318.5	12159.5
65°		15395.8	15312.1	15693.1	16093.3	14042.8	12111.9	11994.8
70°		13307.7	13204.8	13647.9	14129.4	12844.5	11430.4	11392.5
75°		9319.7	9619.0	10226.8	11131.4	10408.0	10143.9	10408.0
80°		4926.1	5131.6	5705.8	6329.7	6827.4	6887.3	8346.3
85°		844.7	848.3	1039.3	1428.6	2045.6	2467.9	3354.8

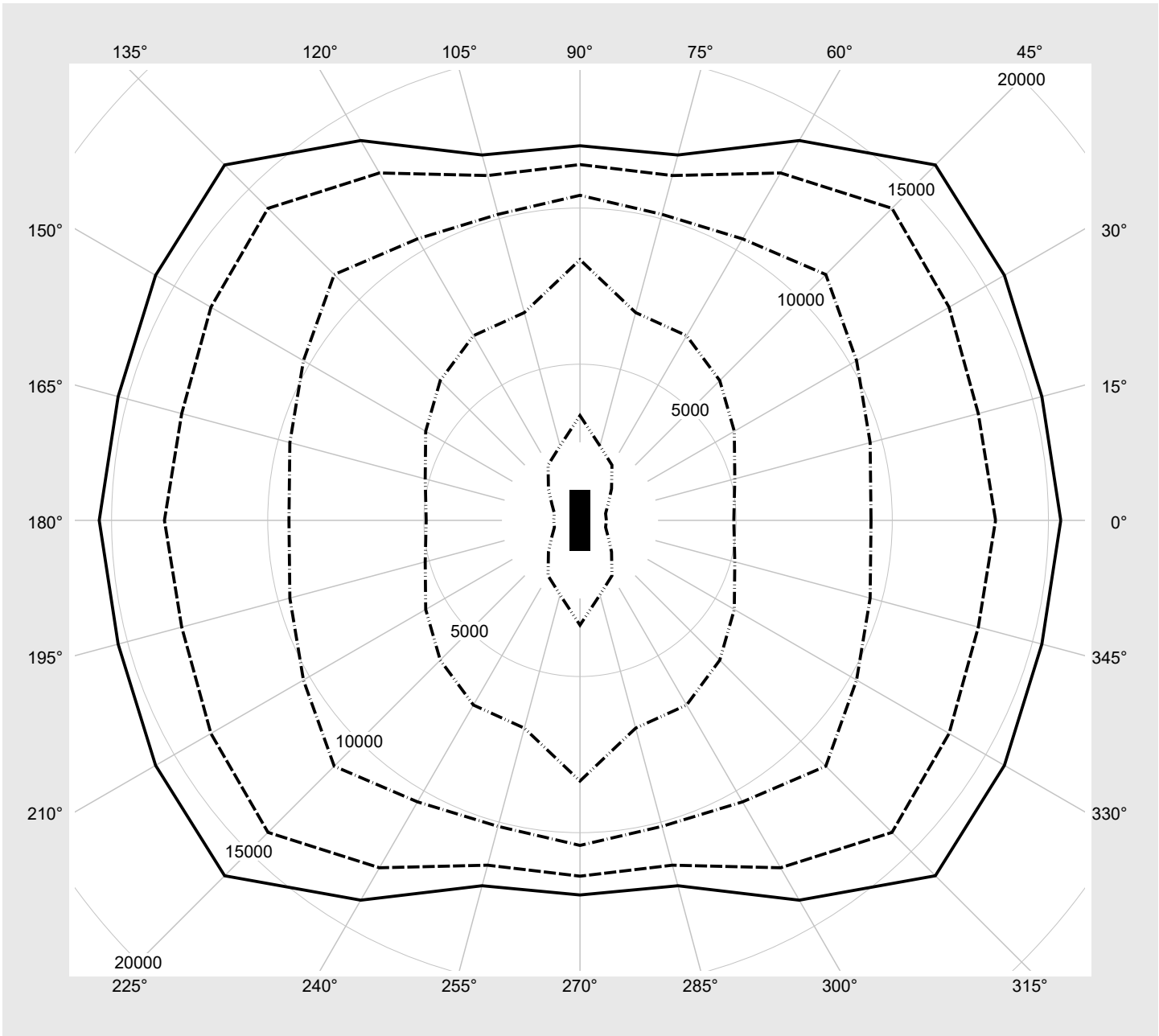
**Photometric test report**

<b>Family</b> Highbay 11	<b>Order number: 51HLA1D14GLA + 59HL91002</b> <b>EAN: 4058352361429 + 4058352341650</b>	<b>LP number</b> 58920_22
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**Luminance values in cd/m<sup>2</sup>**

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

**siteco**



## Photometric test report

Family Highbay 11	Order number: 51HLA1D14GLA + 59HL91002 EAN: 4058352361429 + 4058352341650	LP number 58920_22
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Dimming levels table	environmental temperature: 25°C	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	14730	94.8
95	240	252	13974	89.5
90	227	250	13264	84.6
85	213	247	12495	79.2
80	200	245	11773	74.2
75	187	243	11043	69.5
70	174	240	10309	64.7
65	161	237	9567	59.9
60	148	234	8822	55.2
55	136	231	8123	50.7
50	123	228	7364	46.0
45	110	224	6599	41.4
40	98	220	5887	37.1
35	86	215	5169	32.8
30	74	210	4445	28.6
25	61	204	3656	24.1
20	49	197	2923	19.8
15	37	188	2183	15.6
10	26	177	1498	11.7
5	14	161	748	7.4