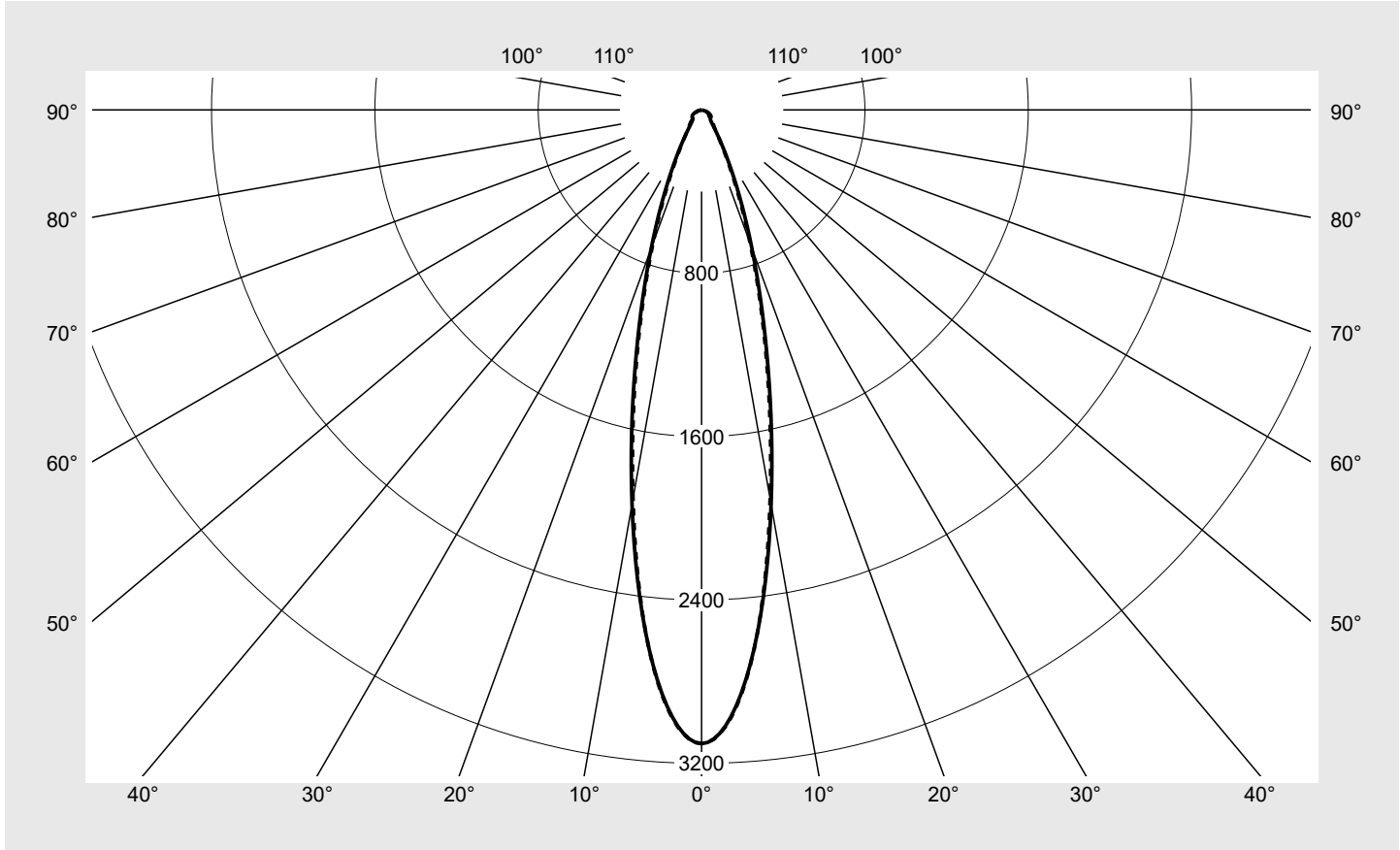


# Photometric test report

<b>Family</b> Highbay 11	<b>Order number: 51HLA1D34SCA + 59HL91002</b> <b>EAN: 4058352322949 + 4058352341650</b>	<b>LP number</b> 58920_15
<b>Version</b>	narrow distribution, UGR≤22, cover panel, PC	<b>serial documentation</b> 13.06.2019
<b>Lamps</b>	LED 4000 K   CRI ≥ 80	
<b>Controlgear</b>	ECG-DALI	
<b>Rated values</b>	Net luminous flux = 44200 lm Power consumption = 284.4 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: 51HLA1D34SCA + 59HL91002 EAN: 4058352322949 + 4058352341650	LP number 58920_15
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°	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: 51HLA1D34SCA + 59HL91002 EAN: 4058352322949 + 4058352341650	LP number 58920_15
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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	21.8	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

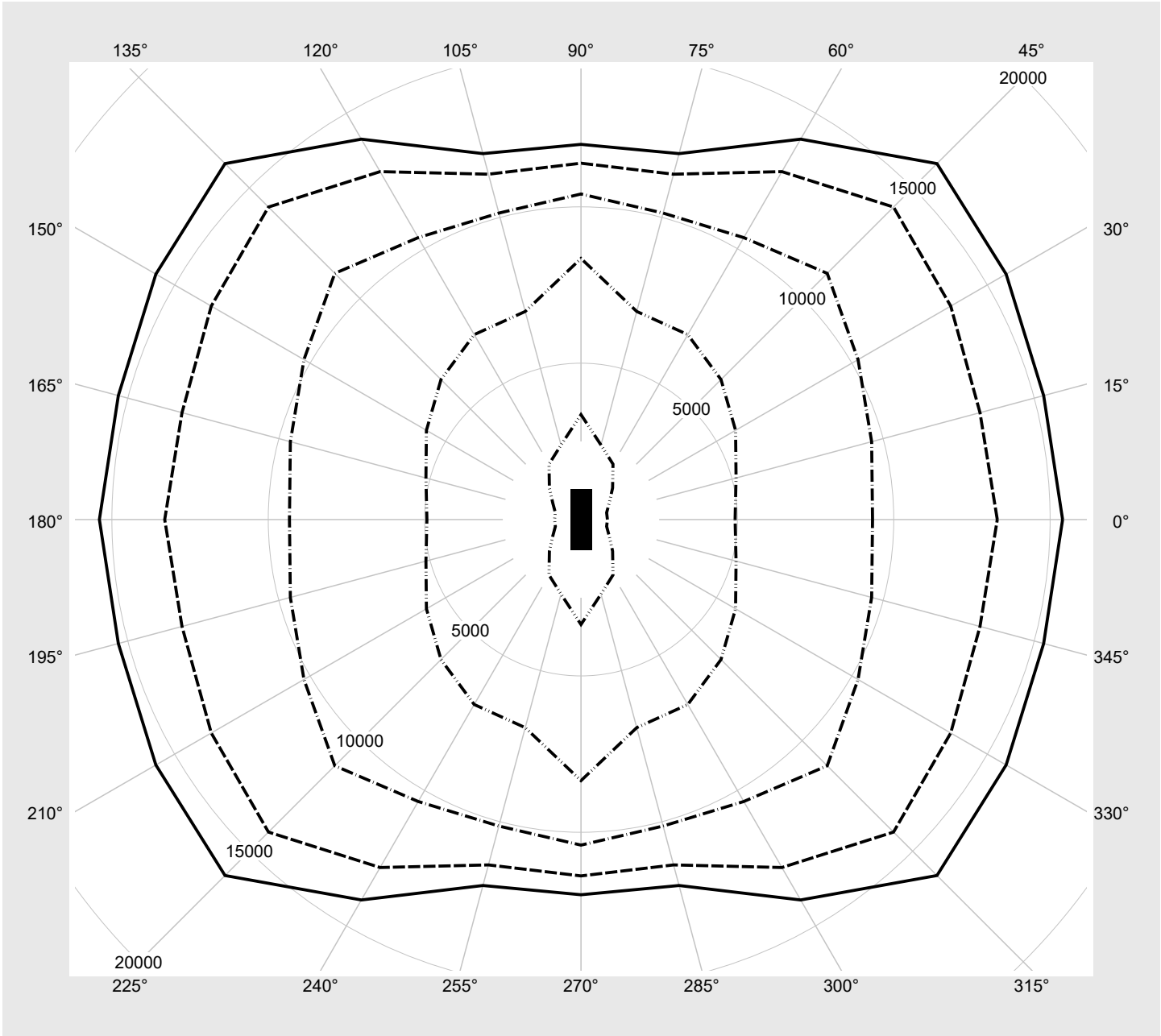
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 885
			B = 312

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°		13537.3	13615.9	14688.9	16092.3	15526.8	14542.5	14232.3	
50°		14637.2	14937.0	16027.5	16540.8	14228.7	12313.9	12074.1	
55°		15765.1	16063.2	16949.3	16445.5	14303.6	12253.1	12175.3	
60°		16119.6	16244.8	16692.7	16702.3	14477.2	12321.3	12162.2	
65°		15399.3	15315.6	15696.6	16097.0	14045.9	12114.6	11997.6	
70°		13310.7	13207.8	13651.0	14132.6	12847.4	11433.0	11395.1	
75°		9321.8	9621.1	10229.1	11133.9	10410.3	10146.2	10410.3	
80°		4927.2	5132.8	5707.1	6331.2	6829.0	6888.9	8348.2	
85°		844.9	848.5	1039.5	1428.9	2046.0	2468.5	3355.6	

**Photometric test report**

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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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Family Highbay 11	Order number: 51HLA1D34SCA + 59HL91002 EAN: 4058352322949 + 4058352341650	LP number 58920_15
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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	44200	284.4
95	240	252	41990	269.1
90	227	250	39780	253.8
85	213	248	37570	238.4
80	200	245	35360	223.3
75	187	243	33150	209.0
70	174	240	30940	194.4
65	161	237	28730	180.2
60	148	234	26520	166.3
55	135	231	24310	152.2
50	123	228	22100	138.5
45	110	224	19890	124.8
40	98	220	17680	111.5
35	85	215	15470	98.3
30	73	210	13260	85.3
25	61	204	11050	72.7
20	49	197	8840	59.8
15	37	188	6630	47.3
10	25	177	4419	34.6