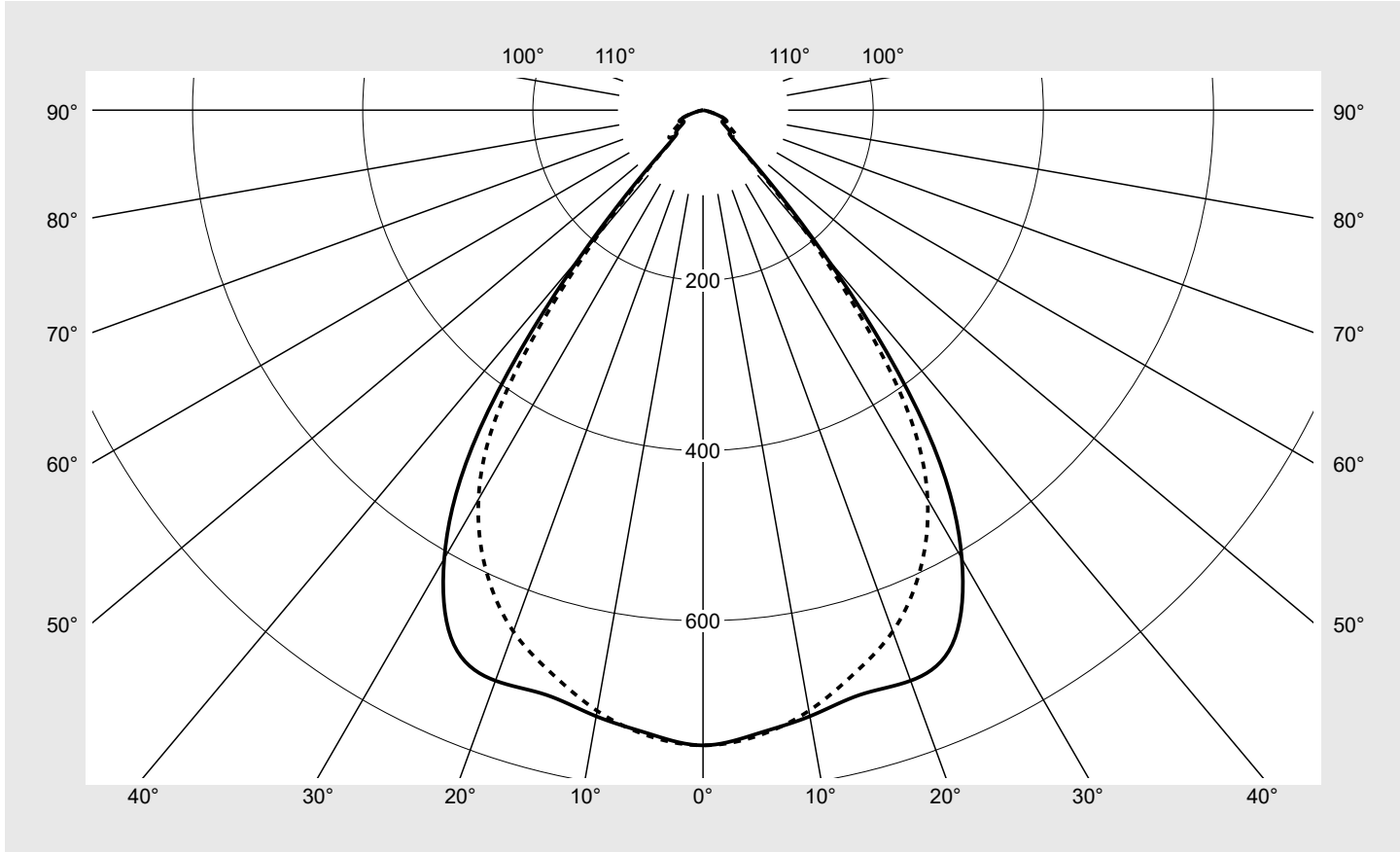


# Photometric test report

<b>Family</b> Highbay 11	<b>Order number:</b> 51HLA2D24MCAD + 59HL91001 <b>EAN:</b> 4058352341636 + 4058352323519	<b>LP number</b> 58924_9
<b>Version</b>	wide distribution, UGR≤22, toughened safety glass	<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 = 27460 lm Power consumption = 162.4 W Luminous efficacy = 169.1 lm/W	



**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 746 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=88 N2=97 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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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</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°	746.3	746.3	746.3	746.3	746.3	746.3	746.3	4.5	4.5
5°	735.3	737.5	739.7	739.9	738.3	739.6	738.0	35.3	39.7
10°	723.2	726.6	729.4	728.5	722.4	719.9	716.7	69.0	108.7
15°	711.3	717.1	725.5	723.9	708.1	693.6	685.6	100.9	209.6
20°	713.4	718.0	728.3	720.4	690.5	663.2	651.9	131.3	340.9
25°	693.0	694.9	704.2	693.3	653.0	614.7	601.0	154.7	495.6
30°	608.4	605.8	624.6	634.7	585.4	537.6	527.9	162.4	658.1
35°	457.7	465.3	511.3	544.0	482.6	417.8	402.1	149.4	807.5
40°	223.2	249.0	306.2	349.8	284.7	219.8	194.6	95.0	902.5
45°	63.3	67.7	80.1	90.2	68.6	60.3	58.8	27.6	930.1
50°	41.6	37.0	34.8	39.2	39.3	44.2	50.6	16.8	947.0
55°	31.4	29.8	26.5	27.8	29.3	36.0	43.6	14.0	961.0
60°	26.5	29.7	26.3	21.9	21.3	25.9	33.0	12.2	973.2
65°	30.8	23.4	22.4	19.4	17.1	22.6	29.4	11.2	984.4
70°	22.6	17.1	16.5	15.8	14.1	17.3	23.9	8.9	993.3
75°	9.7	7.3	8.1	9.4	9.5	10.1	9.9	4.8	998.1
80°	2.5	2.3	2.6	3.2	3.7	3.7	3.7	1.7	999.8
85°	0.2	0.2	0.3	0.3	0.6	0.6	0.7	0.2	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: 51HLA2D24MCAD + 59HL91001 EAN: 4058352341636 + 4058352323519	LP number 58924_9
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UGR-Table		Standard room									
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	20.6	21.9	21.0	22.2	22.6	20.2	21.5	20.5	21.8	22.1
	3H	21.0	22.1	21.3	22.4	22.8	20.5	21.7	20.9	22.0	22.4
	4H	21.0	22.1	21.4	22.4	22.8	20.7	21.7	21.1	22.1	22.4
	6H	21.0	21.9	21.4	22.3	22.7	20.7	21.6	21.1	22.0	22.4
	8H	21.0	21.8	21.5	22.2	22.6	20.7	21.5	21.1	21.9	22.3
	12H	21.0	21.8	21.4	22.1	22.6	20.7	21.4	21.1	21.8	22.3
4H	2H	20.6	21.6	21.0	22.0	22.3	20.1	21.2	20.5	21.5	21.9
	3H	21.0	21.8	21.4	22.2	22.6	20.6	21.4	21.0	21.8	22.2
	4H	21.0	21.8	21.5	22.2	22.7	20.7	21.5	21.2	21.9	22.3
	6H	21.0	21.7	21.5	22.1	22.6	20.7	21.4	21.2	21.8	22.3
	8H	21.0	21.6	21.4	22.0	22.5	20.7	21.3	21.2	21.8	22.2
	12H	21.0	21.5	21.5	21.9	22.4	20.7	21.2	21.2	21.7	22.2
8H	4H	21.0	21.6	21.5	22.0	22.5	20.7	21.3	21.2	21.7	22.2
	6H	21.0	21.4	21.4	21.9	22.4	20.7	21.2	21.2	21.7	22.2
	8H	20.9	21.3	21.4	21.8	22.3	20.7	21.1	21.2	21.6	22.1
	12H	20.9	21.2	21.4	21.7	22.3	20.7	21.0	21.2	21.5	22.1
12H	4H	21.0	21.5	21.5	21.9	22.4	20.7	21.2	21.2	21.6	22.1
	6H	21.0	21.3	21.5	21.8	22.4	20.7	21.1	21.2	21.6	22.1
	8H	20.9	21.2	21.4	21.7	22.3	20.7	21.0	21.2	21.5	22.1

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 590		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°		13358.5	14276.2	16907.3	19038.9	14469.6	12718.6	12397.1	
50°		9661.7	8591.1	8064.8	9100.1	9129.8	10267.0	11735.5	
55°		8162.5	7742.5	6889.7	7220.0	7615.8	9366.7	11337.8	
60°		7900.9	8851.4	7843.3	6548.5	6356.9	7715.6	9843.1	
65°		10856.8	8252.2	7898.9	6853.7	6047.9	7972.3	10376.4	
70°		9840.6	7447.8	7207.9	6870.8	6169.4	7556.8	10417.6	
75°		5582.1	4223.6	4651.3	5440.9	5474.3	5825.9	5687.6	
80°		2145.1	1947.5	2266.2	2778.2	3188.8	3189.7	3202.6	
85°		380.0	385.1	439.9	580.2	946.5	1033.8	1134.8	

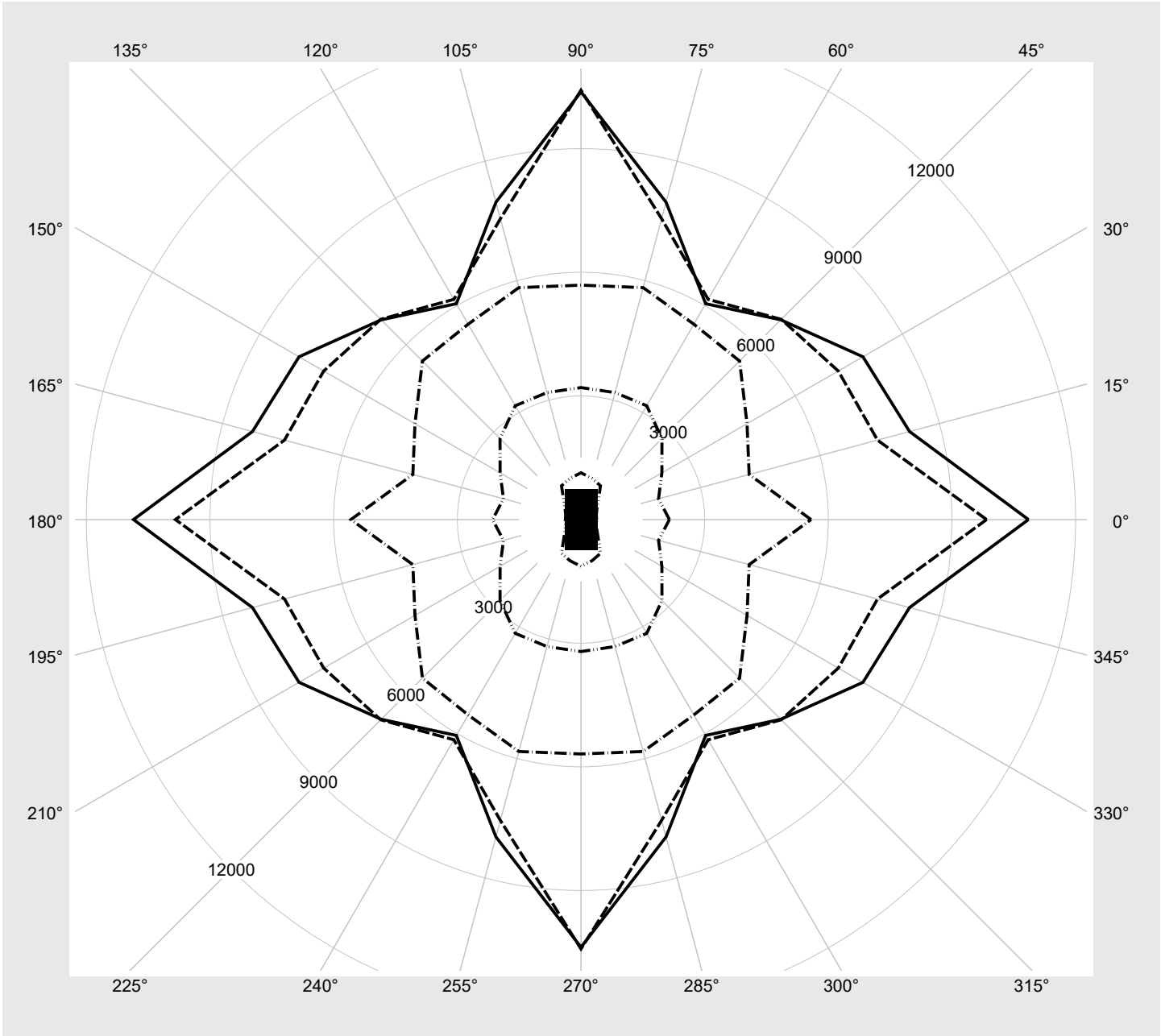
**Photometric test report**

<b>Family</b> <b>Highbay 11</b>	<b>Order number: 51HLA2D24MCAD + 59HL91001</b> <b>EAN: 4058352341636 + 4058352323519</b>	<b>LP number</b> <b>58924_9</b>
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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

<b>Family</b> Highbay 11	<b>Order number: 51HLA2D24MCAD + 59HL91001</b> <b>EAN: 4058352341636 + 4058352323519</b>	<b>LP number</b> 58924_9
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<b>Dimming levels table</b>	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	27460	162.4
95	241	252	26087	153.6
90	227	250	24714	145.0
85	214	248	23341	136.6
80	201	245	21968	128.3
75	188	243	20595	120.1
70	175	240	19222	111.9
65	162	238	17849	103.9
60	149	235	16476	95.9
55	136	232	15103	88.1
50	124	228	13730	80.3
45	111	225	12357	72.7
40	99	220	10984	65.0
35	86	216	9611	57.5
30	74	211	8238	50.1
25	62	205	6865	42.6
20	50	198	5492	35.3
15	38	190	4119	28.1