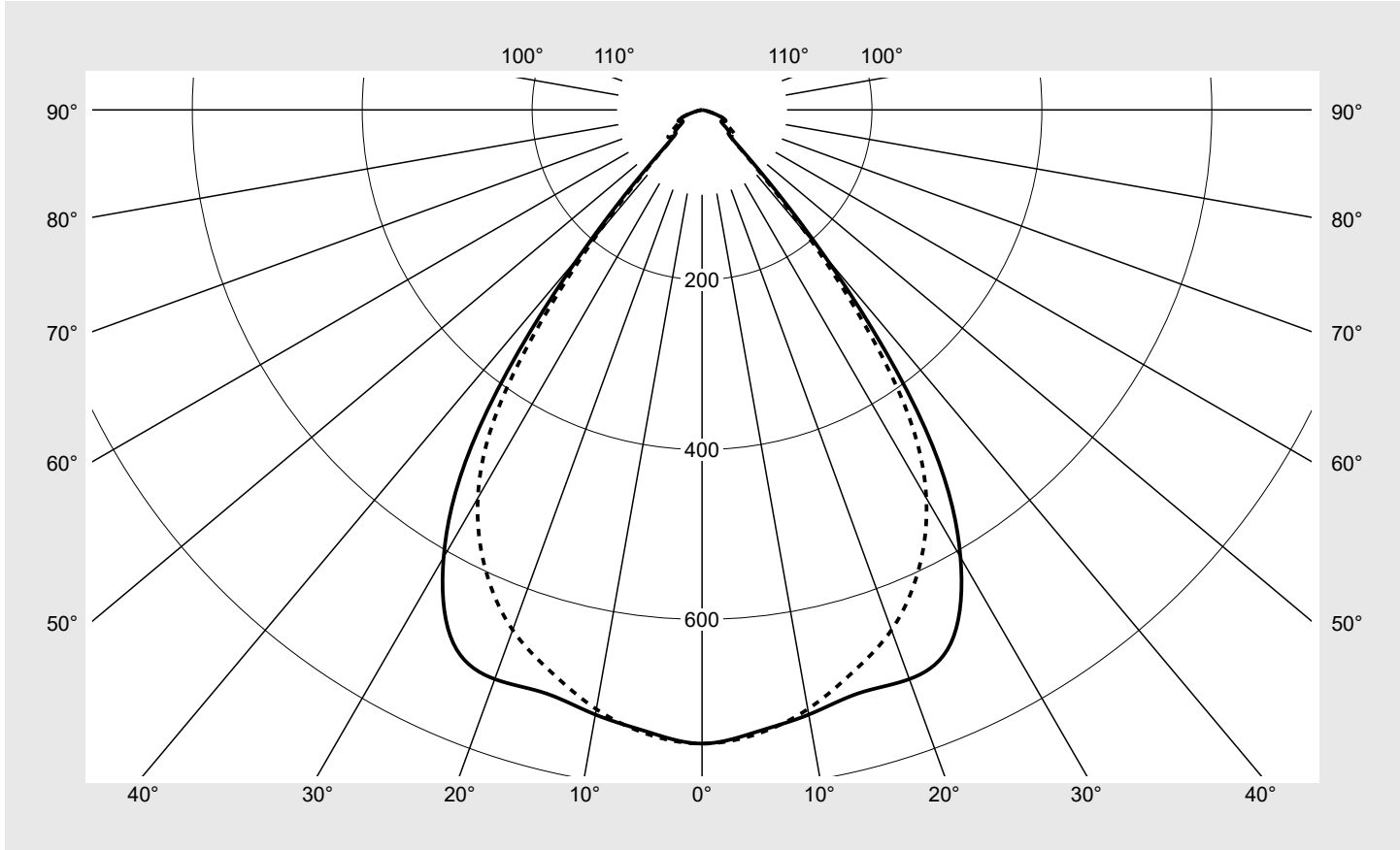


# Photometric test report

<b>Family</b> Highbay 11	<b>Order number:</b> 51HL62D24HCA + 59HL91001 <b>EAN:</b> 4058352348932 + 4058352323519	<b>LP number</b> 58924_6
<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 = 19120 lm Power consumption = 111.2 W Luminous efficacy = 171.9 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

### Photometric test report

Family Highbay 11	Order number: 51HL62D24HCA + 59HL91001 EAN: 4058352348932 + 4058352323519	LP number 58924_6
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Table of values for luminous intensities	Maximum luminous intensity
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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°	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: 51HL62D24HCA + 59HL91001 EAN: 4058352348932 + 4058352323519	LP number 58924_6
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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	19.4	20.7	19.7	21.0	21.3	18.9	20.2	19.3	20.5	20.9
	3H	19.7	20.8	20.1	21.2	21.5	19.3	20.4	19.7	20.8	21.1
	4H	19.8	20.8	20.1	21.2	21.5	19.4	20.4	19.8	20.8	21.2
	6H	19.7	20.7	20.1	21.0	21.4	19.4	20.3	19.8	20.7	21.1
	8H	19.8	20.6	20.2	21.0	21.4	19.5	20.3	19.9	20.7	21.1
	12H	19.8	20.5	20.2	20.9	21.3	19.4	20.2	19.9	20.6	21.0
4H	2H	19.3	20.4	19.7	20.7	21.1	18.9	19.9	19.3	20.3	20.6
	3H	19.7	20.6	20.1	21.0	21.4	19.3	20.2	19.7	20.6	21.0
	4H	19.8	20.5	20.2	21.0	21.4	19.5	20.2	19.9	20.6	21.1
	6H	19.7	20.4	20.2	20.8	21.3	19.5	20.1	19.9	20.6	21.0
	8H	19.7	20.3	20.2	20.7	21.2	19.5	20.0	19.9	20.5	21.0
	12H	19.7	20.2	20.2	20.7	21.2	19.5	19.9	20.0	20.4	20.9
8H	4H	19.7	20.3	20.2	20.8	21.3	19.4	20.0	19.9	20.5	21.0
	6H	19.7	20.2	20.2	20.7	21.2	19.5	19.9	20.0	20.4	20.9
	8H	19.6	20.1	20.2	20.6	21.1	19.4	19.9	19.9	20.3	20.9
	12H	19.6	20.0	20.2	20.5	21.0	19.4	19.8	20.0	20.3	20.8
12H	4H	19.7	20.2	20.2	20.7	21.2	19.4	19.9	19.9	20.4	20.9
	6H	19.7	20.1	20.2	20.6	21.1	19.5	19.8	20.0	20.3	20.9
	8H	19.6	20.0	20.2	20.5	21.0	19.4	19.8	20.0	20.3	20.8

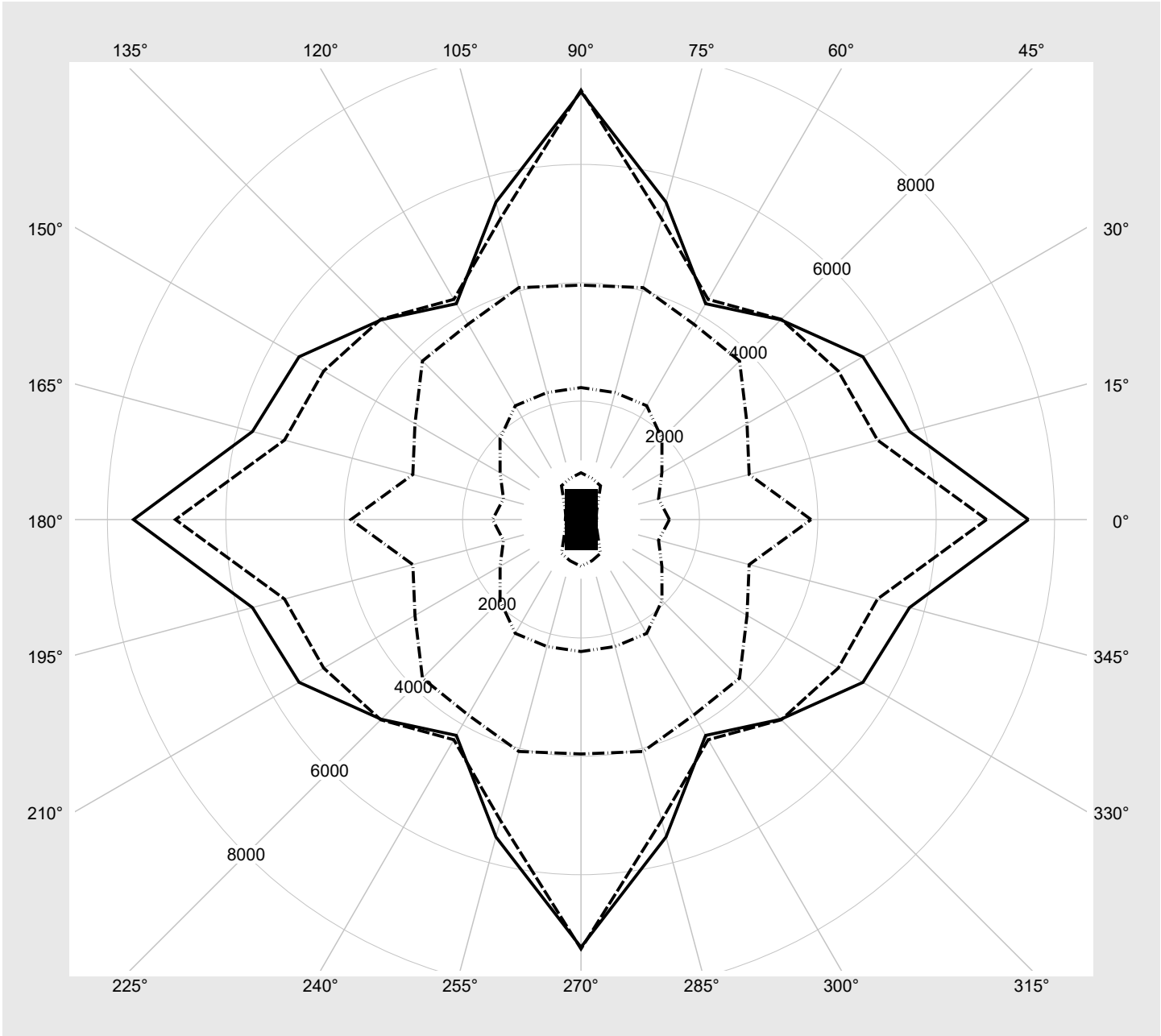
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 590 B = 312
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C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		9301.3	9940.3	11772.3	13256.5	10075.0	8855.8	8631.9	
50°		6727.3	5981.9	5615.4	6336.3	6356.9	7148.7	8171.3	
55°		5683.5	5391.0	4797.2	5027.2	5302.8	6521.9	7894.4	
60°		5501.3	6163.1	5461.2	4559.6	4426.2	5372.3	6853.6	
65°		7559.5	5745.9	5499.9	4772.2	4211.1	5551.0	7225.0	
70°		6851.8	5185.8	5018.8	4784.0	4295.7	5261.7	7253.6	
75°		3886.7	2940.8	3238.6	3788.4	3811.7	4056.5	3960.2	
80°		1493.6	1356.0	1577.9	1934.4	2220.3	2220.9	2229.9	
85°		264.6	268.1	306.3	404.0	659.0	719.8	790.1	

**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: 51HL62D24HCA + 59HL91001 EAN: 4058352348932 + 4058352323519	LP number 58924_6
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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	19120	111.2
95	241	252	18164	105.5
90	228	250	17208	100.0
85	215	248	16252	94.3
80	202	246	15296	89.0
75	189	244	14340	83.5
70	176	241	13384	78.2
65	163	239	12428	73.0
60	151	236	11472	67.5
55	138	233	10516	62.3
50	125	230	9560	57.1
45	113	226	8604	51.9
40	100	222	7648	47.0
35	88	218	6692	41.5
30	76	213	5736	36.5
25	63	208	4780	31.6
20	51	202	3824	26.6
15	39	194	2868	21.5
10	27	184	1911	16.4